WATER YEAR 2023 ANNUAL REPORT

Cosumnes Groundwater Authority
Cosumnes Subbasin

FINAL | March 2024
EKI C20149.02

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Water Year 2023 Annual Report

Cosumnes Subbasin

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Water Year 2023 Annual Report
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ABBREVIATIONS AND ACRONYMS

ACGMA	Amador County Groundwater Management Authority
AF	acre-feet
AFY	acre-feet per year
Ag-Res	Agricultural-Residential
ARSA	Amador Regional Sanitation Authority
AWA	Amador Water Agency
BMPs	Best Management Practices
CA	California
CAC	Citizen Advisory Committee
CASGEM	California Statewide Groundwater Elevation Monitoring
CCR	California Code of Regulations
CGA	Cosumnes Groundwater Authority
COC	Constituents of Concern
CWSRF	Clean Water State Revolving Fund
CoSANA	Cosumnes, South American, and North American model
DWR	California Department of Water Resources
ERM	Electrical Resistivity Methods
ET	Evapotranspiration
eWRIMS	Electronic Water Rights Information Management System
Flood-Mar	Flood Managed Aquifer Recharge
FSC	Folsom South Canal
ft	feet
ft NAVD88	feet above the North American Vertical Datum of 1988
GDE	Groundwater Dependent Ecosystem
GID	Galt Irrigation District
GPS	Global Positioning System
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
GWE	Groundwater Elevation
IDC	Irrigation Demand Calculator
IMs	Interim Milestones
ISW	Interconnected Surface Water
InSAR	Interferometric Synthetic Aperture Radar
IWFM	Integrated Water Flow Model
JPA	Joint Powers Agreement
LDSR	Laguna Del Sol Resort
MAR	Managed Aquifer Recharge

MCL	Maximum Contaminant Level
mg/L	milligrams per liter
MO	Measurable Objective
MT	Minimum Threshold
N	Nitrogen
NA	Not Applicable
NAVD88	North American Vertical Datum of 1988
ND	Not Detected
NMR	Nuclear Magnetic Resonance
NWIS	National Water Information System
OHWD	Omochumne-Hartnell Water District
PMA	Projects and Management Action
PWS	Public Water System
RMS	Representative Monitoring Site
RMW	Representative Monitoring Well
RMW-ISW	Representative Monitoring Well for Depletions of Interconnected Surface Water
RMW-WL	Representative Monitoring Well for Chronic Lowering of Groundwater Levels
RMW-WQ	Representative Monitoring Well for Degraded Water Quality
SAFCA	Sacramento Area Flood Control Agency
SGM	Sustainable Groundwater Management
SGMA	Sustainable Groundwater Management Act
SMC	Sustainable Management Criteria
SMUD	Sacramento Municipal Utility District
SRCD	Sloughhouse Resource Conservation District
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
TT	Trigger Threshold
μg/L	micrograms per liter
UNAVCO	University NAVSTAR Consortium
USBR	United States Bureau of Reclamation
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UWMP	Urban Water Management Plan
WRFP	Water Recycling Facilities Planning
WWTP	Wastewater Treatment Plant
WY	Water Year

EXECUTIVE SUMMARY

The San Joaquin Valley Groundwater Basin – Cosumnes Subbasin (also referred to herein as "the Basin"), California Department of Water Resources (DWR) Basin No. 5-022.16, is classified as a "medium priority" basin (DWR, 2019) and therefore is subject to the Sustainable Groundwater Management Act (SGMA). To address the long-term sustainability of groundwater within the Basin and to comply with SGMA, the Basin's seven Groundwater Sustainability Agencies (GSAs) developed a single Groundwater Sustainability Plan (GSP), which was adopted by the GSAs between 14 December 2021 and 12 January 2022, submitted to DWR on 27 January 2022, and approved by DWR on 26 October 2023.

The Basin is managed by seven GSAs: Amador County Groundwater Management Authority (ACGMA) GSA, City of Galt GSA, Clay Water District GSA, Galt Irrigation District (GID) GSA, Omochumne-Hartnell Water District (OHWD) GSA, Sacramento County GSA, and Sloughhouse Resource Conservation District (SRCD) GSA (see **Figure AR-1**). In November 2021, the Cosumnes Groundwater Authority (CGA) was formed upon adoption of a Joint Powers Agreement (JPA) between the seven GSAs. The CGA enables the GSAs to collaboratively comply with the SGMA, implement the adopted GSP, seek and secure grants or other funding to support implementation, and work collaboratively with the GSAs and other entities to sustainably manage the Basin.

CGA works collaboratively towards the Sustainability Goal of the Basin, as set forth in the GSP:

> *"The Sustainability Goal of the Cosumnes Subbasin (Basin) is to ensure that groundwater in the Basin continues to be a long-term resource for beneficial users and uses including urban, domestic, agricultural, industrial, environmental and others. This goal will be achieved by managing groundwater within the Basin's sustainable yield, as defined by sustainable groundwater conditions and the absence of undesirable results."*

The Basin encompasses 210,300 acres at the northern end of the San Joaquin Valley Groundwater Basin within Sacramento and Amador Counties (see **Figure AR-1**). It is bordered on the north by the South American Subbasin (DWR Basin No. 5-021.65) and on the south by the Eastern San Joaquin Subbasin (DWR Basin No. 5-022.01). The Basin is bounded by surface water features to the north, south, and west and the eastern Basin boundary is formed by low permeability metamorphic rocks in the Sierra Nevada foothills region. The Basin has a single Principal Aquifer which is comprised of six hydraulically connected sedimentary formations that include the Younger Alluvium, Victor, Laguna, Mehrten, Valley Springs, and Ione Formations.

This Water Year (WY) 2023[1] Annual Report for the Basin has been prepared by the CGA in compliance with California Code of Regulations (CCR) 23 § 356.2 and consistent with the DWR's October 2023 *GSP Implementation: A guide to Annual Reports, Periodic Evaluations, & Plan Amendments*[2]. The measured data from the monitoring program are summarized in **Tables AR-6, AR-7** and **AR-8. Figure AR-2** and **Figure AR-3** show groundwater elevation contours inferred from water level data collected in Fall 2022 and Spring 2023, respectively. Groundwater elevations generally decrease in magnitude from east to west across the Basin, with the greatest elevations measured beneath the higher topographic areas in the east. At lower topography, the western component of groundwater flow shifts towards the middle of the Basin, where extractions have created a groundwater low (i.e., a cone of depression).

[1] WY 2023 includes the period from 1 October 2022 through 30 September 2023.

[2] Groundwater Sustainability Plan Implementation: A Guide to Annual Reports, Periodic Evaluations, & Plan Amendments (ca.gov)

Hydrographs for water levels measured in the Representative Monitoring Wells for Chronic Lowering of Groundwater Levels (RMW-WLs) and the Representative Monitoring Wells for Depletions of Interconnected Surface Water (RMW-ISWs) are shown on **Figure AR-4**. The Sustainable Management Criteria (SMCs), including Measurable Objectives (MOs), Minimum Thresholds (MTs), and Interim Milestones (IMs), were established at the 19 RMW-WLs and the nine RMW-ISWs and are also shown on the hydrographs in **Figure AR-4**.

Table AR-3 summarizes total annual water use by source (Groundwater, Surface Water, and Recycled Water) and **Table AR-4** summarizes total annual water use by sector (Agricultural, Urban, and Industrial) for the period WY 2021 through WY 2023. Groundwater extractions are reported in **Table AR-1** and are illustrated in **Figure AR-5**; the total extractions in WY 2023 by water users in each GSA are mapped in **Figure AR-6**. The WY 2023 groundwater extractions totaled 121,600 acre-feet (AF), representing a decrease of almost 19,000 AF relative to WY 2022 where 140,500 AF was pumped. During WY 2023 almost 87% of the groundwater use was by the Agricultural sector (which includes agricultural-residential use [Ag-Res]), 9% was by the Industrial sector (aquaculture), and 4% was by the Urban sector (public water systems [PWS]). **Table AR-2** and **Figure AR-7** report surface water supplies, which include stream diversions, imported water, and recycled water.

Changes in groundwater storage were estimated using the Cosumnes-South American-North American numerical groundwater model (CoSANA). **Figure AR-10** is a map showing the distribution of model-calculated change in groundwater storage during WY 2023. Groundwater storage increased across most of the Basin, as would be expected given that WY 2023 was a wet year with an exceptional amount of precipitation; however, storage decreased in the mid- to upper portions of the Basin near the boundary between the Basin Plain and Basin Foothill subareas. The net change in storage across the entire Basin was an increase of 41,800 AF. **Figure AR-11** shows the water year type, the annual groundwater extractions, the annual change in groundwater storage, and the cumulative change in groundwater storage for WY 2015 through WY 2023.

Table AR-6 compares the WY 2023 measured groundwater levels to the SMCs for Chronic Lowering of Groundwater Levels, **Table AR-7** compares Arsenic, Nitrate, and Total Dissolved Solids (TDS) concentrations to their respective SMCs for Degradation of Groundwater Quality, and **Table AR-8** compares measured groundwater levels to the SMCs for the Depletions of Interconnected Surface Water.

Groundwater levels declined below the MTs in two of the 19 RMW-WLs, but only at the end of the critical dry year ending in the Fall of 2022. Water levels in these two RMW-WLs then increased and were greater than the MTs in Spring 2023.

The concentrations exceeded MTs in two of the 14 Representative Monitoring Wells for Degradation of Groundwater Quality (RMW-WQs). One well exceeded the MTs for Arsenic and TDS (RMW-WQ9) and the other well exceeded the MT for Arsenic (RMW-WQ11). The GSAs will continue to monitor water quality conditions in these wells to assess if there are observable trends and a correlation to groundwater management and water levels.

The water levels in three of the nine RMW-ISWs declined below the MTs, however in two of the three wells the water levels increased to above the MTs by the Spring 2023 (RMW-ISW4 and RMW-ISW6). The water levels measured in the third well (RMW-ISW5) were below the MT for a second consecutive year, which technically meets the definition of an Undesirable Result. However, it is important to note that measured water levels were not available to calculate the SMCs for RMW-ISW5 during the original GSP development process (i.e., placeholder values were used as a starting point with the intent to revise the SMCs once actual data became available). Water levels collected as part of GSP implementation confirm that the SMCs for RMW-ISW5 should in fact be revised to better reflect groundwater conditions in this portion of the Basin. As described in the GSP, the GSAs will respond to the results at RMW-ISW5 by evaluating the trends in RMW-ISW5 (as well as those in other nearby RMW-ISWs) and propose a revised set of SMCs based on the actual data and consider the efficacy of increasing the monitoring frequency at RMW-ISW5 to better understand drivers of local water level trends.

Land subsidence is of low concern in the Basin. **Figure AR-12** shows the vertical displacement trends for WY 2023. Continuous data at the University NAVSTAR Consortium (UNAVCO) Global Positioning System (GPS) station P275, located within the Basin in the vicinity of the groundwater cone of depression, indicates an average displacement of -0.13 feet (ft). The TRE Altamira Interferometric Synthetic Aperture Radar (InSAR) data indicates the annual vertical displacement rate for WY 2023 ranges from – 0.1 ft to 0.1 ft throughout the Basin.

As requested in DWR's guidance document for Annual Reports, **Section 7.3** to **Section 7.5** summarizes progress on the Basin's Projects and Management Actions (PMAs; **Table AR-9**), the recommended corrective actions identified in DWR's GSP Determination of the Basin, stakeholder outreach activities, other CGA and GSA accomplishments, and public comments received during WY 2023**.**

1 GENERAL INFORMATION

☑ *§ 356.2 (a)*

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

> *(a) General information, including an executive summary and a location map depicting the basin covered by the report.*

On 16 September 2014, the California legislature enacted the Sustainable Groundwater Management Act (SGMA) – the primary purpose of which is to achieve and/or maintain sustainability within the state's high and medium priority groundwater basins. The San Joaquin Valley Groundwater Basin – Cosumnes Subbasin (also referred to herein as "the Basin"), California Department of Water Resources (DWR) Basin No. 5-022.16, is classified as a "medium priority" basin (DWR, 2019). To address the long-term sustainability of groundwater within the Basin, the Basin's seven Groundwater Sustainability Agencies (GSAs)[3] jointly developed a Groundwater Sustainability Plan (GSP), which was adopted by the GSAs between 14 December 2021 and 12 January 2022, submitted to DWR on 27 January 2022, and approved by DWR on 26 October 2023.

The Basin is managed by the seven GSAs: Amador County Groundwater Management Authority (ACGMA) GSA, City of Galt GSA, Clay Water District GSA, Galt Irrigation District (GID) GSA, Omochumne-Hartnell Water District (OHWD) GSA, Sacramento County GSA, and Sloughhouse Resource Conservation District (SRCD) GSA. In November 2021, the Cosumnes Groundwater Authority (CGA) was formed upon adoption of a Joint Powers Agreement (JPA) between the seven GSAs. The CGA enables the GSAs to collaboratively comply with SGMA, implement the GSP, seek and secure grants or other funding to support implementation, and work collaboratively with the GSAs and other entities to sustainably manage the Basin.

The CGA works collaboratively towards the Sustainability Goal of the Basin, as set forth in the GSP:

> *"The Sustainability Goal of the Cosumnes Subbasin (Basin) is to ensure that groundwater in the Basin continues to be a long-term resource for beneficial users and uses including urban, domestic, agricultural, industrial, environmental and others. This goal will be achieved by managing groundwater within the Basin's sustainable yield, as defined by sustainable groundwater conditions and the absence of undesirable results."*

This Water Year (WY) 2023 Annual Report for the Basin has been prepared in compliance with CCR 23 § 356.2 and consistent with the DWR's October 2023 *GSP Implementation: A guide to Annual Reports, Periodic Evaluations, & Plan Amendments* guidance document[4]. WY 2023 includes the period from 1 October 2022 through 30 September 2023. This Annual Report also contains available and appropriate historical information back to 2015, as required by CCR 23 §356.2 (b). The GSP Annual Report Element check list from DWR's guide is in **Appendix A** and identifies where in this report they are specifically addressed.

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[3] The Cosumnes Subbasin GSAs include Amador County Groundwater Management Authority (ACGMA) GSA, City of Galt GSA, Clay Water District GSA, Galt Irrigation District (GID) GSA, Omochumne-Hartnell Water District (OHWD) GSA, Sacramento County GSA, and Sloughhouse Resource Conservation District (SRCD) GSA.

[4] Groundwater Sustainability Plan Implementation: A Guide to Annual Reports, Periodic Evaluations, & Plan Amendments (ca.gov)

The Basin encompasses 210,300 acres at the northern end of the San Joaquin Valley Groundwater Basin within Sacramento and Amador Counties (see **Figure AR-1**). It is bordered on the north by the South American Subbasin (DWR Basin No. 5-021.65) and on the south by the Eastern San Joaquin Subbasin (DWR Basin No. 5-022.01). The Basin is bounded by surface water features to the north, south, and west and the eastern Basin boundary is formed by low permeability metamorphic rocks in the Sierra Nevada foothills region. The Basin has a single Principal Aquifer which is comprised of six hydraulically connected sedimentary formations that include the Younger Alluvium, Victor, Laguna, Mehrten, Valley Springs, and Ione Formations. Hydraulic conditions in the Principal Aquifer range from unconfined to semi-confined, and its total thickness ranges from 810 to 1,750 feet (ft). Water inflows include rainfall infiltration, leakage from surface water features, percolation of relatively small quantities of imported surface water that originates outside the Basin, and subsurface flows from adjacent basins. Outflows include seepage to surface water features, subsurface flows to adjacent basins, evapotranspiration, and consumption of groundwater extracted by wells.

2 GROUNDWATER ELEVATION DATA

☑ ***§ 356.2 (b) (1)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:

(A) Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.
(B) Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.

As described further in **Section 7.1**, groundwater elevation data were collected from the Representative Monitoring Wells for the Chronic Lowering Groundwater Levels Sustainability Indicator (RMW-WLs) and the Representative Monitoring Wells for Depletions of Interconnected Surface Water Sustainability Indicator (RMW-ISWs). Additional groundwater elevation data were collected at supplemental sites by the CGA and downloaded from publicly available sources[5].

During WY 2023, there was no additional information collected or changes made to the Basin's existing Representative Monitoring Networks. However, as described under **Section 7.5** two monitoring wells were installed at the end of WY 2023 and completed in early WY 2024. These wells are located near Groundwater Dependent Ecosystem (GDE) areas and have been incorporated into the supplemental monitoring well network.

2.1 Groundwater Elevation Contour Maps

Fall water levels were measured between 1 October and 14 October 2022, and Spring water levels were measured between 9 March and 25 April 2023. Available Fall 2022 and Spring 2023 groundwater elevation data, including publicly available data from other sources, were contoured (**Figure AR-2** and **Figure AR-3,** respectively).

The groundwater elevation contours generally decrease in magnitude from east to west across the Basin, with the greatest elevations measured beneath the higher topographic areas in the east. At lower topography, the western component of groundwater flow shifts towards the middle of the Basin, where extractions have created a groundwater low (a cone of depression). The Fall 2022 and Spring 2023 groundwater contours are generally similar in shape as the measured water level changes in most wells were only a few feet, except for RMW-WL5 which rose 10 feet. Groundwater flow directions inferred from the contours are similar to previous years; however, the groundwater elevation values in comparison to recent water years are higher, likely due to the increased rainfall in the Basin during WY 2023.

[5] Publicly available sources include: The SGMA Data Viewer, DWR's Water Data Library, the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, and the United States Geological Survey (USGS) National Water Information System (NWIS)

2.2 Groundwater Hydrographs

Hydrographs of groundwater levels in the RMW-WLs and the RMW-ISWs are shown on **Figure AR-4** and included in **Appendix B**. The Sustainable Management Criteria (SMCs) established in the GSP, including the Measurable Objectives (MOs), Minimum Thresholds (MTs), and Interim Milestones (IMs), are included on the hydrographs in **Figure AR-4**, and reported with the monitoring data in **Table AR-5** and **Table AR-7**. These water level data are compared to the SMCs and discussed further in **Section 7**.

3 GROUNDWATER EXTRACTIONS

☑ ***§ 356.2 (b) (2)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.

Groundwater extractions from some wells are tracked using meters, but most wells in the basin are unmetered. Urban groundwater users (municipal and public water systems [PWSs]) typically meter their wells, but for some wells where metered extractions were not available for WY 2023 (non-reporting small PWSs) the extractions were assumed the same as the previous year. The Agricultural sector includes extractions by agricultural-residential use (Ag-Res), and agricultural production. Most of the Agricultural sector is not metered, and extractions were therefore estimated. The extractions by Ag-Res were calculated based on representative indoor and outdoor water use and the estimated number of residential parcels in the Basin. The extractions for agricultural production were calculated using reported land use (i.e., crop types), climate, and crop water demand requirements. The extractions for agriculture production were calculated by the Cosumnes, South American, and North American numerical model (CoSANA)[6], which was prepared to support the Basin's GSP development and implementation.

Groundwater extractions during WY 2023 are summarized in **Table AR-1** and illustrated in **Figure AR-5** by water use sector (Agricultural, Industrial and Urban); the total extractions for the year by water users in each GSA are mapped in **Figure AR-6.** The WY 2023 extractions totaled 121,600 acre-feet (AF), representing a decrease of almost 19,000 AF relative to WY 2022 where 140,500 AF was pumped. During WY 2023, almost 87% of the groundwater use was by the Agricultural sector (which includes agricultural production and Ag-Res), 9% was by the Industrial sector (aquaculture), and 4% was by the Urban sector (municipal and PWSs).

[6] "CoSANA – An Integrated Water Resources Model of the Cosumnes, South American, and North American Groundwater Subbasins, November 2021" in Appendix M of "Groundwater Sustainability Plan for the Cosumnes Subbasin", December 2021.

Table AR-1 Summary of Groundwater Extraction Data by Sector (AF) [(a)]

Water Year	Agricultural[(b)]	Industrial[(d)]	Urban[(f)]	Total
	Estimated[(c)]	Estimated[(e)]	Metered[(g)] and Estimated[(h)]	
2021[(i)]	134,100	11,000	5,200	**150,300**
2022[(i)]	124,800	11,000	4,700	**140,500**
2023	105,900	11,000	4,700	**121,600**

Abbreviations:
AF = acre-feet

Notes:
(a) Values are rounded to the nearest 100 AF.
(b) Agricultural extractions include agricultural and Ag-Res water uses.
(c) Agricultural extractions were estimated from land use and climate data using the Irrigation Demand Calculator (IDC) within the Cosumnes, South American, and North American model (CoSANA). Domestic (i.e., Ag-Res) extractions were estimated based on representative indoor and outdoor water use and the estimated number of residential parcels in the Basin.
(d) Industrial extractions include aquaculture uses.
(e) Industrial extractions are estimated using the best available data for aquaculture usage.
(f) Urban extractions include PWSs and non-reporting small PWSs uses.
(g) Metered Urban extractions were reported by the City of Galt GSA, ACGMA GSA, and available small PWSs.
(h) Estimated Urban extractions include non-reporting small PWSs.
(i) WY 2021 and WY 2022 data have been updated with historical data records made available for the WY 2023 Annual Report. Hence, in some circumstances previously estimated data has been updated with the more reliable reported values.

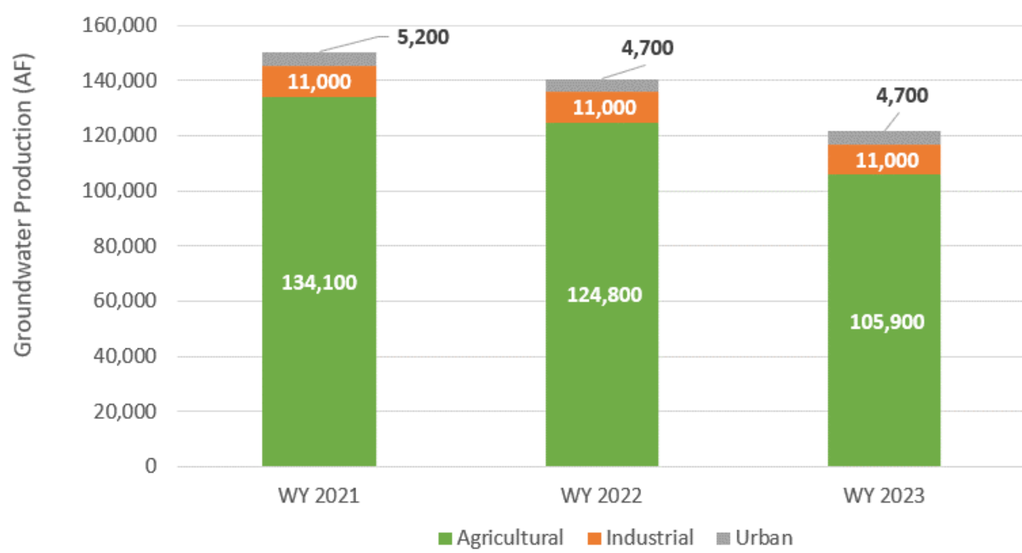


Figure AR-5. Groundwater Extraction by Sector Over Time

4 SURFACE WATER SUPPLY

☑ ***§ 356.2 (b) (3)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.

The surface water supply in the Basin is comprised of stream diversions and imported water. The supply data are comprised of reported and estimated values and are summarized in **Table AR-2** and illustrated in **Figure AR-7**.

In WY 2023, the Amador Water Agency (AWA) provided imported surface water to the City of Ione from Lake Tableaud, and the United States Bureau of Reclamation (USBR) provided imported surface water to the Sacramento Municipal Utility District (SMUD).

Imports:

- AWA delivered water from Lake Tableaud to meet urban demand in the City of Ione. From 1998 onward, these imports have been estimated from the total water treated at the wastewater treatment plant, as provided by AWA. Estimated deliveries in WY 2023 were 1,500 AF.
- Treated wastewater originating outside the Basin is delivered by the Amador Regional Sanitation Authority (ARSA) to the Castle Oaks Water Reclamation Plant, which supplies tertiary treated wastewater for irrigation to the Castle Oaks Golf Course. Estimated annual deliveries in WY 2023 were 600 AF based on irrigation demand[7].
- Surface water is delivered by the USBR to the decommissioned Rancho Seco nuclear power facility using the Folsom South Canal (FSC). The water is owned by SMUD and used for cooling the Cosumnes Power Plant and maintaining water levels in the Rancho Seco Lake. SMUD reported 3,000 AF was delivered during WY 2023.

In WY 2023, Agricultural and Urban (Rancho Murieta) water users diverted water from surface drainages in the Basin.

Stream Diversions:

- Available data for most, but not all diversions, consists of monthly reported stream diversions uploaded to the Electronic Water Rights Information Management System (eWRIMS). These monthly diversions are reported by the permit holder, but the reports do not include measurement methods. The diversions from surface drainages in the Basin (e.g., the Cosumnes River and Dry Creek) to supply the Agricultural sector (16,200 AF) were estimated from the eWRIMS data and CoSANA calculations.
- Monthly Cosumnes River diversions by Rancho Murieta were estimated by monthly demand per capita and estimated population and reported to the CGA (1,600 AF). The estimated portion of

[7] Irrigation demand was based on ET, golf course acreage and assumed irrigation efficiency of 85%.

these diversions to the Basin is 600 AF based on the distribution of meters north and south of the Cosumnes River and demand calculations by the CoSANA.

Table AR-2 Summary of Surface Water Supply by Sector (AF) [a]

Water Year	ARSA Imported Recycled Water[b]	TOTAL Recycled Water	AWA Imported Surface Water[c]	SMUD Imported Surface Water	TOTAL Imported Supplies	Stream Diversions (Surface Water)		TOTAL Local Supplies
	Urban		*Urban*	*Industrial*		*Agricultural*[e]	*Urban*[f]	
2021[g]	600	**600**	1,700	100[d]	**1,800**	12,900	600	**13,500**
2022[g]	600	**600**	1,600	4,200	**5,800**	13,200	600	**13,800**
2023	600	**600**	1,500	3,000	**4,500**	16,200	600	**16,800**

Abbreviations:
AF = Acre-feet
AWA = Amador Water Agency
ARSA = Amador Regional Sanitation Authority
SMUD = Sacramento Municipal Utilities District

Notes:
(a) Values are rounded to the nearest 100 AF.
(b) Recycled water is imported by the ARSA and delivered to the Castle Oaks Water Reclamation Plant, which supplies recycled water for irrigation to the Castle Oaks Golf Course.
(c) AWA imported surface water is from Lake Tableaud and is used to meet urban demand in the City of Ione.
(d) Imported Surface Water was not available from SMUD for WY 2021, and this value was a minimum estimate based on irrigation demand only and does not include power plant cooling and lake level maintenance.
(e) Agricultural stream diversions are estimated by CoSANA based on agricultural production demand.
(f) Cosumnes River diversions by Rancho Murieta were estimated by monthly demand per capita and estimated population. The estimated portion of these diversions to the Basin is 600 AF.
(g) WY 2021 and WY 2022 data have been updated with historical data records made available for the WY 2023 Annual Report. Hence, in some circumstances previously estimated data has been updated with the more reliable reported values.

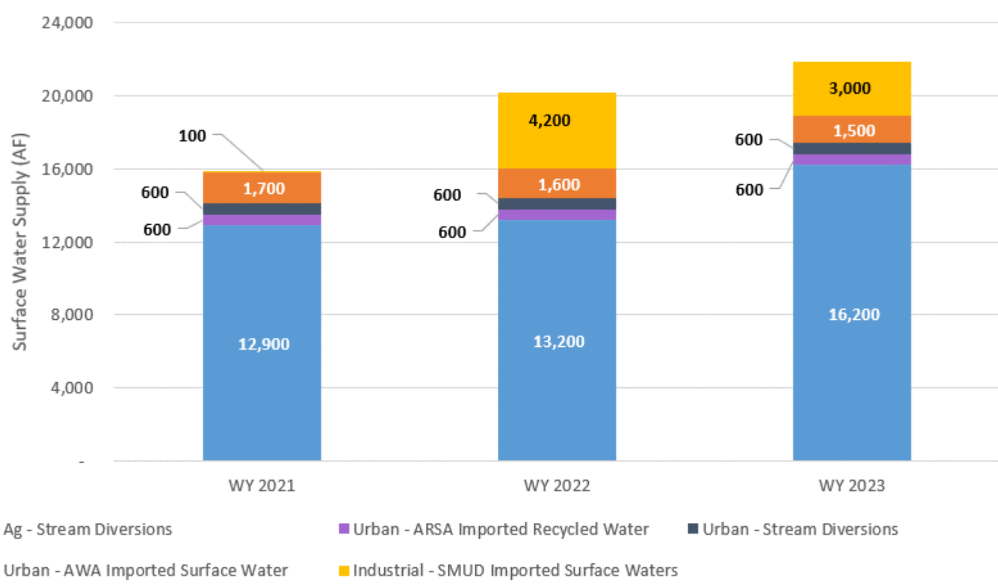


Figure AR-7. Surface Water Supply by Sector Over Time

5 TOTAL WATER USE

☑ ***§ 356.2 (b) (4)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(4) Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.

Table AR-3 summarizes total water use by source type (Groundwater, Surface Water, and Recycled Water), and the totals are illustrated on **Figure AR-8**. As described above, groundwater extractions and surface water diversions comprise most of the water use in the Basin, but recycled water is another component included in the Basins' total water use.

Recycled water is used for irrigation by both the Agricultural and Urban sectors.

- Wastewater produced by the City of Galt is treated at the City of Galt Wastewater Treatment Plant (WWTP) and delivered to nearby fields for agricultural irrigation. The deliveries are measured using meters that record in gallons (500 AF in WY 2023).
- Secondary treated water is imported into the Basin and treated to tertiary standards to irrigate turf at the Castle Oaks Golf Course. The quantity of water is based on estimated irrigation demand (600 AF in WY 2023).

The Basin's total water use includes groundwater extractions (**Table AR-1**), surface water supplies (**Table AR-2**), and recycled water supplies.

Table AR-3 Total Water Use by Source Type (AF) [a]

Water Year	Groundwater[b]	Surface Water[c]	Recycled Water[d]	TOTAL
2021[e]	150,300	15,300	1,300	**166,900**
2022[e]	140,500	19,600	1,200	**161,300**
2023	121,600	21,300	1,100	**144,000**

Abbreviations:
AF = acre-feet

Notes:
(a) Values are rounded to the nearest 100 AF.
(b) See **Table AR-1** for groundwater extractions.
(c) See **Table AR-2** for surface water supplies.
(d) Recycled water includes City of Galt WWTP deliveries to nearby agricultural fields and imported deliveries to irrigate turf at the Castle Oaks Golf Course.
(e) WY 2021 and WY 2022 data have been updated with historical data records made available for the WY 2023 Annual Report. Hence, in some circumstances previously estimated data have been updated with the more reliable reported values.

Figure AR-8. Total Water Use by Source Over Time

Table AR-4 summarizes total water use by sector (Agricultural, Industrial, and Urban), and the totals are illustrated on **Figure AR- 9**. In WY 2023, the Agricultural sector accounted for 85% of the Basin's total water use (122,600 AF), the Industrial sector used 10% (14,000 AF), and the Urban sector used 5% (7,400 AF).

Table AR-4 Summary of Total Water Use by Sector (AF) [(a)]

Water Year	Agricultural [(b)]	Industrial [(c)]	Urban [(d)]	TOTAL
2021[(e)]	147,700	11,100	8,100	**166,900**
2022[(e)]	138,600	15,200	7,500	**161,300**
2023	122,600	14,000	7,400	**144,000**

Abbreviations:
AF = acre-feet

Notes:
(a) Values are rounded to the nearest 100 AF.
(b) The Agricultural Sector includes groundwater extractions (**Table AR-1**), stream diversions (**Table AR-2**), and recycled water from the City of Galt WWTP used at nearby agricultural fields.
(c) The Industrial Sector includes groundwater extractions used for aquaculture and imported surface water used by SMUD for power plant cooling and lake level maintenance.
(d) The Urban Sector includes groundwater extractions used by PWSs, imported surface water used by the City of Ione, imported recycled water used for golf course irrigation, and stream diversions used by Rancho Murieta
(e) WY 2021 and WY 2022 data have been updated with historical data records made available for the WY 2023 Annual Report. Hence, in some circumstances previously estimated data has been updated with more reliable reported values.

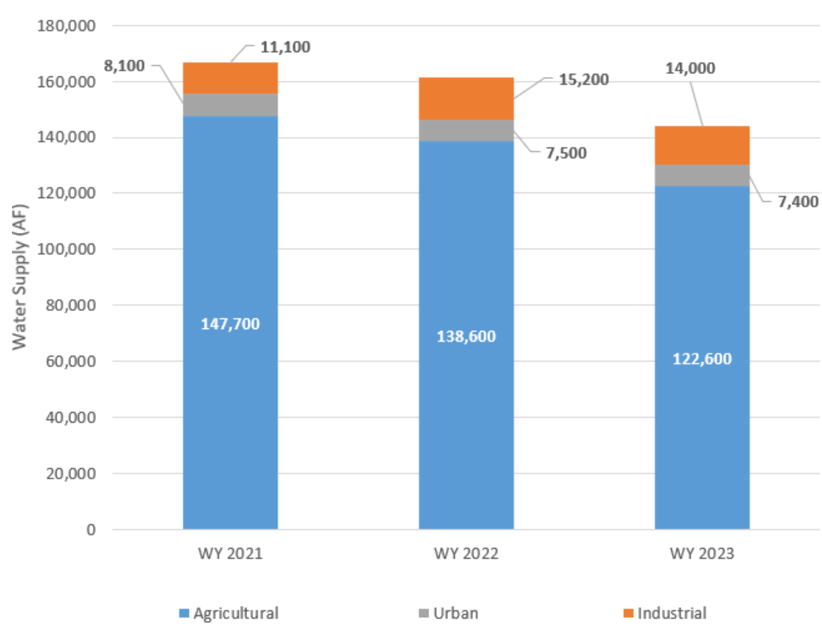


Figure AR-9. Total Water Use by Sector Over Time

6 CHANGE IN GROUNDWATER STORAGE

☑ ***§ 356.2 (b) (4)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(4) Change in groundwater in storage shall include the following:

(A) Change in groundwater in storage maps for each principal aquifer in the basin.

(B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.

Changes in groundwater storage were estimated using CoSANA which calculates the volume of storage change within each model element. The element-by-element change is then normalized by dividing the volumetric change in storage by the area of each respective element and the results mapped in units of feet. **Figure AR-10** shows the distribution of model-calculated changes in groundwater storage during WY 2023. Groundwater storage increased across most of the Basin with the greatest increases near the Cosumnes River and Dry Creek. Groundwater storage decreased in the mid- to upper portions of the Basin near the boundary between the Basin Plain and Basin Foothill subareas. In WY 2023, the calculated net change in storage across the entire Basin was an increase of 41,800 AF (**Figure AR-11**). The annual changes in storage since WY 2015 are summarized in **Table AR-5** and show both positive and negative changes in annual storage. The net change in Basin storage since WY 2015 is -93,300 AF (i.e., annual average decline of -10,400 acre-feet per year [AFY]).

Figure AR-11 shows water year type, annual groundwater extractions, annual change in groundwater storage, and the cumulative change in groundwater storage for WY 2015 through WY 2023. The greatest increase in storage was experienced in WY 2017, a wet year, with an increase of 54,600 AF in storage, whereas the biggest decrease in storage occurred in WY 2021, a critically dry year, with a decrease of 68,100 AF. Annual extraction rates of 135,200 AFY or greater resulted in storage declines, whereas annual extraction rates of 121,800 AFY or less resulted in storage accretion. The estimated sustainable yield for the Basin reported in the GSP ranges from 119,000 AFY to 125,700 AFY.

Table AR-5 Annual Change in Storage by DWR Water Year Type

Water Year	Water Year Type	Change in Storage (AFY)
2015	Critical	-38,300
2016	Dry	-15,700
2017	Wet	54,600
2018	Below Normal	-30,600
2019	Wet	34,800
2020	Dry	-43,100
2021	Critical	-68,100
2022	Critical	-28,700
2023	Wet	41,800

Abbreviations
AFY = acre-feet per year
DWR = California Department of Water Resources

7 PLAN IMPLEMENTATION

☑ ***§ 356.2 (b) (4)***

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(c) A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.

7.1 Semi-Annual Monitoring

The WY 2023 semi-annual monitoring occurred in Fall 2022 and Spring 2023. Water level data were collected following the protocols for data collection described in the GSP. Some wells were not accessible during the monitoring events. During the Fall 2022 event, water levels were not measured in five monitoring wells (RMW-WL2, RMW-WL3, RMW-WL16, RMW-ISW2 and RMW-ISW3), and during the Spring 2023 monitoring event water levels were not measured in four monitoring wells (RMW-WL4, RMW-WL16, RMW-ISW2, and RMW-ISW3). Some wells became inaccessible because original access agreements were with the Cosumnes Working Group and not the CGA, while others were inaccessible because of landowner changes. For some of the wells, the CGA relied on telemetry systems to retrieve transducer data and physical access was not necessary. However, removal of the 3G network in 2022 unexpectedly caused the telemetry systems to go offline. The CGA is currently updating all agreements to ensure access to collect manual measurements in the future.

All water quality samples were collected following the protocols in the GSP for data collection. Complete water quality data (i.e., Arsenic, Nitrate as N and TDS) were not collected for five of the Representative Monitoring Wells for Degradation of Groundwater Quality monitoring wells (RMW-WQ; RMW-WQ1, RMW-WQ2, RMW-WQ3, RMW-WQ13, and RMW-WQ14). Two of the wells are PWS wells (RMW-WQ1 and RMW-WQ2) with data publicly available, however PWS wells are not required to sample for all constituents every year. One well (RMW-WQ3) no longer has a sampling port and two wells (RMW-WQ13 and RMW-WQ14) were not accessible at the time of sampling. To resolve these issues the CGA will work with the PWSs to ensure the necessary constituents are sampled for, find a replacement well for RMW-WQ3, and ensure the samplers have access to all wells at the time of sampling.

7.2 Current Conditions – Sustainability Indicators

The following sections describe how current sustainability indicator conditions compare to the SMCs (MTs, MOs, and IMs) as established in the GSP.

7.2.1 Chronic Lowering of Groundwater Levels

The GSP utilizes 19 wells to monitor for Chronic Lowering of Groundwater Levels (RMW-WLs). Long-term hydrographs for water levels measured in the wells are provided in **Figure AR-4a** and **Figure AR-4b**. In WY 2023, Fall 2022 water levels were measured in sixteen RMW-WLs and Spring 2023 water levels were measured in seventeen RMW-WLs. **Table AR-6** compares the WY 2023 groundwater elevations to their respective SMCs. The water levels in ten wells were greater than or equal to the MOs, which is likely the result of the extremely wet year. Water levels were below the MTs in two wells. There are no IMs for WY 2023.

The GSP defines Undesirable Results when water levels decline below the MTs in 25% or more of the RMW-WLs (5 out of 19 RMW-WLs) for two consecutive years. Water levels in two wells declined below the MTs, but these occurrences did not indicate Undesirable Results.

- In RMW-WL5, measured groundwater levels were below the MT in Fall 2022 but increased and were greater than the MT in Spring 2023.
- In RMW-WL10, measured groundwater levels were below the MT in Fall 2022 but increased and were greater than the MT in Spring 2023.

Consistent with the GSP (Section 15.8 *Action Plan Related to Minimum Threshold Exceedances*), the CGA and affected GSAs (GID GSA [RMW-WL5] and OHWD GSA [RMW-WL10]) will investigate conditions at the noted wells to further evaluate factors that could contribute to lowered water levels and assess the need for increased or expanded monitoring.

Table AR-6 Groundwater Elevations and Relevant Sustainable Management Criteria for Chronic Lowering of Groundwater Levels Sustainability Indicator

Well Name	Fall 2022 Date	Fall 2022 GWE (ft NAVD88)	Spring 2023 Date	Spring 2023 GWE (ft NAVD88)	MO (ft NAVD88)	MT (ft NAVD88)	IM 2027 (ft NAVD88)	IM 2032 (ft NAVD88)	IM 2037 (ft NAVD88)
RMW-WL1	10/5/2022	-48	3/9/2023	-44	-55	-65	-56	-57	-56
RMW-WL2	--	--	3/30/2023	-68	-59	-69	-62	-64	-61
RMW-WL3	--	--	3/27/2023	-17	-46	-56	-49	-50	-48
RMW-WL4	10/5/2022	-21	--	--	-24	-39	-30	-33	-29
RMW-WL5	**10/5/2022**	**-93**	3/30/2023	-83	-70	-84	-73	-77	-73
RMW-WL6	10/5/2022	-72	3/9/2023	-67	-51	-78	-63	-68	-59
RMW-WL7	10/5/2022	-28	3/9/2023	-26	-28	-38	-32	-33	-30
RMW-WL8	10/5/2022	-41	3/27/2023	-33	-36	-48	-39	-43	-39
RMW-WL9	10/5/2022	-79	4/7/2023	-77	-75	-89	-78	-82	-78
RMW-WL10	**10/6/2022**	**-34**	3/25/2023	-26	-22	-32	-25	-28	-25
RMW-WL11	10/5/2022	-35	3/27/2023	-32	-28	-38	-31	-33	-30
RMW-WL12	10/5/2022	87	4/7/2023	97	106	85	97	93	100
RMW-WL13	10/14/2022	-34	3/30/2023	-30	-36	-46	-39	-41	-39
RMW-WL14	10/1/2022	252	3/17/2023	251	250	232	243	239	245
RMW-WL15	10/1/2022	124	3/17/2023	125	141	119	133	129	135
RMW-WL16	--	--	--	--	269	259	265	263	266
RMW-WL17	10/1/2022	208	3/22/2023	209	116	89	105	100	108
RMW-WL18	10/13/2022	198	3/30/2023	198	195	185	192	190	192
RMW-WL19	10/13/2022	171	3/30/2023	173	171	161	168	167	169

Abbreviations:
ft NAVD88 = feet above the North American Vertical Datum of 1988
GWE = groundwater elevation
IM = interim milestone
MO = measurable objective
MT = minimum threshold
RMW-WL = Representative Monitoring Well for Chronic Lowering of Groundwater Levels
"--" = not collected

Notes:
(a) **Bold** values are below the MT.

7.2.2 Groundwater Storage

There are no groundwater storage IMs for WY 2023. As explained in the GSP, groundwater levels are a reasonable proxy for groundwater storage. Progress made during the reporting period is therefore represented by the discussion of water levels in **Section 7.2.1**.

7.2.3 Seawater Intrusion

Because significant and unreasonable effects from seawater intrusion are not present in the Basin and are not likely to occur, SMCs were not set for the Seawater Intrusion Sustainability Indicator. The Seawater Intrusion Sustainability Indicator is therefore not discussed herein.

7.2.4 Degraded Water Quality

The GSP utilizes 14 wells to monitor for potential significant and unreasonable Degradation of Water Quality (RMW-WQs). **Table AR-7** compares the WY 2023 water quality concentrations for Arsenic, Nitrate as N, and TDS to their respective SMCs at the RMW-WQs. At the time of GSP development, concentrations of all constituents in all wells were below the MOs, and therefore IMs would in effect promote increasing concentrations causing water quality degradation. Therefore, Trigger Thresholds (TTs) were established at the RMW-WQs whereby if the concentration in a sample reaches 50% of its Maximum Contaminant Level (MCL), the GSAs will consider whether additional action is necessary.

The GSP defines Undesirable Results as being when the concentration of the constituent exceeds the MTs in samples from 25% or more of the 14 RMW-WQs (4 out of 14 RMW-WQs) for two consecutive years. In WY 2023, the water quality sampling results did not indicate Undesirable Results. Arsenic concentrations exceeded the MT in two wells (RMW-WQ9 and RMW-WQ11), but WY 2023 was the first sampling of RMW-WQ9, and no historical data were available to determine if the quality of water from the well has been degraded. The sample from RMW-WQ9 was the only well to exceed the MT for TDS. Previous samples from RMW-WQ11 were below the MT for Arsenic, and the WY 2023 sample is therefore the first sample to exceed the MT. The Nitrate concentrations in samples from all wells were below the MT.

Table AR-7 Groundwater Quality and Relevant Sustainable Management Criteria for Degraded Water Quality Sustainability Indicator

Well Name	Arsenic (µg/L)				Nitrate as N (mg/L)				TDS (mg/L)			
	Sample Date	MO = 8	TT = 9	MT = 10	Sample Date	MO = 8	TT = 9	MT = 10	Sample Date	MO= 500	TT=500	MT=1,000
RMW-WQ1	--	--			--	--			--	--		
RMW-WQ2	7/5/2023	9.3			8/10/2023	ND			--	--		
RMW-WQ3	--	--			--	--			--	--		
RMW-WQ4	10/5/2022	2.2			10/5/2022	2.1			10/5/2022	166		
RMW-WQ5	10/5/2022	4.8			10/5/2022	0.1			10/5/2022	177		
RMW-WQ6	10/5/2022	1.6			10/5/2022	1.2			10/5/2022	200		
RMW-WQ7	10/6/2022	2			10/6/2022	1.6			10/6/2022	215		
RMW-WQ8	10/5/2022	3.7			10/5/2022	0.24			10/5/2022	181		
RMW-WQ9	**10/20/2022**	**20**			10/20/2022	ND			**10/20/2022**	**1,600**		
RMW-WQ10	10/20/2022	ND			10/20/2022	ND			10/20/2022	250		
RMW-WQ11	**10/20/2022**	**11**			10/20/2022	ND			10/20/2022	170		
RMW-WQ12	10/20/2022	2			10/20/2022	1.4			10/20/2022	170		
RMW-WQ13	--	--			--	--			--	--		
RMW-WQ14	--	--			--	--			--	--		

Abbreviations:

mg/L = milligrams per liter
MO = Measurable Objective
MT = Minimum Threshold
N = Nitrogen
ND= Not Detected
RMW-WQ = Representative Monitoring Well for Degraded Water Quality
TDS = Total Dissolved Solids
TT = Trigger Threshold
µg/L = micrograms per liter
"--"= not collected

Notes:

(a) For all RMW-WQs, SMCs were set at the same level based on state and federal standards.
(b) **Bold** values exceed the MT.

7.2.5 Land Subsidence

Land subsidence is of low concern in the Basin. The following describes the measured vertical displacement (subsidence) trends for WY 2023 (see **Figure AR-12**):

- Continuous vertical displacement data has been collected since July 2006 at a University NAVSTAR Consortium (UNAVCO) Global Positioning System (GPS) station (P275). The site overlays the cone of depression and measured -0.13 ft of average vertical displacement during WY 2023. Data were not available from P275 between 11 December 2022 through 29 April 2023 and 3 May 2023 through 30 September 2023 due to instrument failure.[8]
- The TRE Altamira Interferometric Synthetic Aperture Radar (InSAR) data indicates the annual vertical displacement rate for the period 1 October 2022 through 1 October 2023 ranged from - 0.1 ft to 0.1 ft throughout the Basin.

As explained in the GSP, groundwater levels are a reasonable proxy for land subsidence, and progress made during the reporting period is therefore represented by the discussion of water levels in **Section 7.2.1**.

7.2.6 Depletions of Interconnected Surface Water

The GSP utilizes nine wells to monitor the Depletion of Interconnected Surface Water (RMW-ISWs). **Table AR-8** compares the WY 2023 groundwater elevations to the SMCs at the RMW-ISWs. There are no IMs for WY 2023.

The GSP defines Undesirable Results when the water levels decline below the MTs in one or more of the nine RMW-ISWs for two consecutive years. Measured groundwater levels in three RMW-ISWs were below their MTs for all or part of WY 2023.

- In RMW-ISW4, measured groundwater levels were below the MT in Fall 2022 but increased and were above the MT in Spring 2023.
- In RMW-ISW5, measured groundwater levels were below the MT in both the Fall and Spring.
- In RMW-ISW6, measured groundwater levels were below the MT in Fall 2022 but increased and were above the MT in Spring 2023.

The water levels measured in RMW-ISW5 were below the MT for a second consecutive year, which technically meets the definition of an Undesirable Result. However, it is important to note that measured water levels were not available to calculate the SMCs for RMW-ISW5 during the original GSP development process (i.e., placeholder values were used as a starting point with the intent to revise the SMCs once actual data became available). Water levels collected as part of GSP implementation confirm that the SMCs for RMW-ISW5 should in fact be revised to better reflect groundwater conditions in this portion of the Basin. As described in the GSP, the GSAs will respond to the results at RMW-ISW5 by evaluating the trends in RMW-ISW5 (as well as those in other nearby RMW-ISWs) and propose a revised set of SMCs based on the actual data and consider the efficacy of increasing the monitoring frequency at RMW-ISW5 to better understand drivers of local water level trends.

[8] https://www.unavco.org/instrumentation/networks/status/nota/overview/P275

Table AR-8 Groundwater Elevations and Relevant Sustainable Management Criteria for Depletions of Interconnected Surface Water Sustainability Indicator

Well Name	**Fall 2022** Date	**Fall 2022 GWE** (ft NAVD88)	**Spring 2023** Date	**Spring 2023 GWE** (ft NAVD88)	**MO** (ft NAVD88)	**MT** (ft NAVD88)	**Trigger Threshold** (ft NAVD88)	**IM 2027** (ft NAVD88)	**IM 2032** (ft NAVD88)	**IM 2037** (ft NAVD88)
RMW-ISW1	10/5/2022	-20	4/25/2023	0	-18	-23	-21	N/A	N/A	N/A
RMW-ISW2	--	--	--	--	-3	-6	-4.5	N/A	N/A	N/A
RMW-ISW3	--	--	--	--	-4	-10	-7.0	N/A	N/A	N/A
RMW-ISW4	**10/5/2022**	**-26**	3/30/2023	-13	-14	-19	N/A	-14	-15	-14
RMW-ISW5	***10/5/2022***	***47***	***3/30/2023***	***75***	83	78	N/A	85	86	85
RMW-ISW6	**10/6/2022**	**-34**	3/27/2023	-26	-26	-31	N/A	-26	-28	-27
RMW-ISW7	10/1/2022	253	3/17/2023	258	257	247	252	N/A	N/A	N/A
RMW-ISW8	10/5/2022	178	4/25/2023	184	179	172	176	N/A	N/A	N/A
RMW-ISW9	10/13/2022	171	3/17/2023	173	171	164	167	N/A	N/A	N/A

Abbreviations:

ft NAVD88 = feet above the North American Vertical Datum of 1988
GWE = groundwater elevation
IM = Interim Milestone
MO = Measurable Objective
MT = Minimum Threshold

RMW-ISW = Representative Monitoring Well for the Depletions of Interconnected Surface Water
N/A = not applicable
“--" = not collected

Notes:

(a) **Bold** values exceed the MT.
(b) *Italicized* values are not reliable due to erroneously low MT.
(c) Measured water levels are not available for RMW-IWS2 and -IWS3 because removal of the 3G network in 2022 unexpectedly caused the telemetry systems to go offline. CGA is currently updating access agreements to ensure access to these wells for future manual measurements.

7.3 Implementation of Projects and Management Actions

The GSP outlined six Projects and Management Actions (PMAs), and implementation progress during WY 2023 is summarized below in **Table AR-9**. Moreover, the CGA continues to pursue funding opportunities to support PMA implementation (e.g., USBR WaterSMART funding programs and the State Water Resources Control Board's [SWRCB] Water Recycling Funding Program [WRFP]).

Table AR-9 Implementation of Projects and Management Actions

Project and Management Action	Status	Progress during Water Year	Observed Benefits	Observed adverse impacts to the various sustainability indicators, adjacent groundwater basins, or beneficial uses and users	Public Notice / Engagement	Anticipated Schedule	Description of Anticipated Benefits Within Next Water Year
#1 - OHWD Agricultural Flood Managed Aquifer Recharge (Flood-MAR)	☐ Active ☒ Pre planning ☒ Conceptual ☐ Inactive	In WY 2023, 77 AF of water was diverted from the Cosumnes River to fields on the north side of the river for aquifer recharge and subsequent recovery for irrigation. OHWD applied for and has been granted, on 8/12/22 and 01/11/23, respectively, a 5-year temporary water right (Temporary Permit 21438) to divert up to 2,444 AF from the Cosumnes River during high flow events. Diversions can occur between December 1, 2022, through March 15, 2027, at two diversion points. Diverted water can be applied to 1,118 acres of dormant vineyards adjacent to the Cosumnes River. While infiltration occurs within the South American Subbasin but changes in transboundary underground flow in response to the recharge provides a significant groundwater storage benefit in the Cosumnes Subbasin in the proximity of the Cosumnes River.	To be determined. Monitoring efforts are being conducted to further understand the transboundary flow of water. Soil moisture meters, monitoring wells, and geologic exploration continue to be used to assess water infiltration and flow.	None	Updates, reports, and data are regularly presented by OHWD staff and consultants during monthly Board of Directors meetings.	Diversions will continue under the 5-year temporary water right. A permanent water right is being pursued.	Anticipated benefits may include groundwater recharge resulting in benefits in aquifer capacity and groundwater levels.
#2 - Sacramento Area Flood Control Agency (SAFCA) Flood-MAR	☐ Active ☒ Pre planning ☒ Conceptual ☐ Inactive	A dry well pilot study, conducted by OHWD and SAFCA, at the Laguna Del Sol Resort Project site (LDSR Project) was initiated in WY 2022. The purpose of this pilot study is to better understand infiltration rates and operations of a dry well in the Cosumnes Subbasin. Flow into the dry well is monitored with a flowmeter. Pressure transducers are utilized at the bottom of the well to calculate water pressures, head loss, and amount of water in-well. In partnership with the USDA, ERM (electrical resistivity methods) have been conducted before, during, and after water is delivered to the dry well for infiltration. Additionally, NMR (nuclear magnetic resonance) methods have been conducted. These geophysical explorations help inform the District about subsurface conditions, including hydraulic conductivity and interstitial spacing in the soil. In WY 2023, 89 AF of groundwater from a nearby domestic well was delivered to the dry well for infiltration.	To be determined. Monitoring efforts are being conducted to further understand the observed benefits.	None	Updates, reports, and data are regularly presented by OHWD staff and consultants during monthly Board of Directors meetings.	Data collection and project testing will continue until dry wells can be permitted to use surface water for aquifer recharge.	No benefits to the aquifer are anticipated. Data collection during testing will inform additional dry well projects.

Project and Management Action	Status	Progress during Water Year	Observed Benefits	Observed adverse impacts to the various sustainability indicators, adjacent groundwater basins, or beneficial uses and users	Public Notice / Engagement	Anticipated Schedule	Description of Anticipated Benefits Within Next Water Year
#3 - OHWD Cosumnes River Flow Augmentation	☐ Active ☐ Pre planning ☐ Conceptual ☒ Inactive	No progress has been made on PMA#3.	N/A	N/A	None	None	None
#4 - City of Galt Recycled Water Project	☐ Active ☒ Pre planning ☐ Conceptual ☐ Inactive	To support PMA#4, the City of Galt GSA prepared and submitted a Water Recycling Facilities Planning (WRFP) Grant Application through the California State Water Resources Control Board (SWCRB) Clean Water Revolving Fund Water Recycling Funding (CWSRF) Program to complete a feasibility study to evaluate the extent of which the City of Galt can expand recycled water use within and near the City of Galt's service area. The City of Galt is awaiting response from the SWCRB.	N/A	N/A	Public engagement was conducted during grant application development at the City of Galt Council meetings.	Pre-planning and conceptual planning, which will include conducting feasibility study, is anticipated to take place during WY 2024 & WY 2025.	None
#5 - Voluntary Land Repurposing	☐ Active ☒ Pre planning ☐ Conceptual ☐ Inactive	Commonly referenced as the "Conservation PMA", this effort has evolved into a broader groundwater conservation program, including improving water use efficiency throughout the Basin in addition to demand reduction due to repurposing lands. • Grant funding was pursued, unsuccessfully, from both the California Department of Conservation's Multibenefit Land Repurposing Program and the California Department of Water Resources Sustainable Groundwater Management Grant Program. Developing these grant applications required a significant investment of GSA resources and was an incredible venue for increased collaboration between the GSAs and more than a dozen partners. The process created a structure for the GSAs to possibly move forward in developing a voluntary land repurposing program. The SRCD GSA has successfully received two grants from the California Department of Food and Agriculture. Funding from the Conservation	None	None	Public engagement was conducted during grant application development at the CGA and GSA monthly Board of Director meetings. Once the grant agreements are finalized during WY 2024, public engagement related to water efficiency projects will take place.		

Project and Management Action	Status	Progress during Water Year	Observed Benefits	Observed adverse impacts to the various sustainability indicators, adjacent groundwater basins, or beneficial uses and users	Public Notice / Engagement	Anticipated Schedule	Description of Anticipated Benefits Within Next Water Year
		Agriculture Planning Grant Program will support the creation of on-farm conservation plans aimed at improving water use efficiency, soil health, and carbon farming. Funding from the Water Efficiency Technical Assistance Program will allow SRCD to add a Water Efficiency Technician to their staff to work directly with farmers/operators on understanding their irrigation systems and how to implement water saving practices and technologies. In addition to these grants, SRCD has worked to advocate for additional water use efficiency funding for the USDA's Natural Resource Conservation Services' Environmental Quality Incentive Program in Sacramento County.					
#6 - Groundwater Banking and Sale	☐ Active ☐ Pre planning ☐ Conceptual ☒ Inactive	No progress has been made on PMA#6.	N/A	N/A	None	None	None

Abbreviations:
AF = acre-feet
CGA = Cosumnes Groundwater Authority
CWSRF = Clean Water State Revolving Fund
ERM = Electrical Resistivity Methods
Flood-Mar = Flood Managed Aquifer Recharge
GSA = Groundwater Sustainability Agency
LDSR = Laguna Del Sol Resort
N/A = not applicable
NMR = Nuclear Magnetic Resonance
OHWD = Omochumne-Hartnell Water District
PMA = Projects and Management Actions
SAFCA = Sacramento Area Flood Control Agency
SRCD = Sloughhouse Resource Conservation District
SWCRB = State Water Resources Control Board
USDA = United States Department of Agriculture
WRFP = Water Recycling Facilities Planning
WY = Water Year

7.4 Progress Made on Addressing Recommended Corrective Actions in the Department's GSP Determination

The CGA received DWR's GSP determination on 26 October 2023 at the start of WY 2024. Included in the approval letter were six recommended corrective actions. **Table AR-10** summarizes the recommended corrective actions and identifies the relevant GSP sections. The CGA will develop approaches to address these actions during WY 2024 and will report their progress on them in the WY 2024 Annual Report.

Table AR-10 Progress Towards Addressing DWR's Corrective Actions

Corrective Action	Related GSP Section
1 - Further assess potential impacts of the established minimum thresholds for chronic lowering of groundwater levels on domestic wells as related data gaps are filled and provide supporting documentation of the assessment.	Section 15.1.1 & Section 17.1.1
2 - Revise the undesirable results definition for chronic lowering of groundwater levels to be based on impacts due to lowering of groundwater levels (i.e., the number or percentage of wells that the GSAs deem acceptable to impact due to lowering of groundwater levels) and update the minimum thresholds for chronic lowering of groundwater levels, as necessary, to be tied to the undesirable result definition.	Section 14.1.3
3 - Conduct the necessary investigations or studies to better understand the relationship between groundwater levels and degraded water quality. Based on the results of the investigations/studies, describe in the GSP, the relationship between the minimum thresholds established for chronic lowering of groundwater levels and degraded water quality.	Section 15.7 & Section 17.1.4
4 - Establish sustainable management criteria for land subsidence based on direct measurements of land elevation changes to assess and confirm that no significant and unreasonable land subsidence is occurring.	Section 12
5 - Department staff understand that estimating the location, quantity, and timing of stream depletion due to ongoing Subbasin-wide pumping is a complex task and that developing suitable tools may take additional time; however, it is critical for the Department's ongoing and future evaluations of whether GSP implementation is on track to achieve sustainable groundwater management. The Department plans to provide guidance on methods and approaches to evaluate the rate, timing, and volume of depletions of interconnected surface water and support for establishing specific sustainable management criteria in the near future. This guidance is intended to assist GSAs to sustainably manage depletions of interconnected surface water. a. Consider utilizing the interconnected surface water guidance, as appropriate, when issued by the Department to establish quantifiable minimum thresholds, measurable objectives, and management actions. b. Continue to fill data gaps, collect additional monitoring data, and implement the current strategy to manage depletions of interconnected surface water and define segments of interconnectivity and timing. c. Prioritize collaborating and coordinating with local, state, and federal regulatory agencies as well as interested parties to better understand the full suite of beneficial uses and users that may be impacted by pumping induced surface water depletion within the GSA's jurisdictional area.	Section 15.6, Section 17.1.6, Section 5.5 & Section 12.
6 - Expand the land subsidence monitoring network to provide sufficient coverage of the Subbasin. The GSAs may consider the use of additional GPS stations, extensometers, or publicly available remote sensing data (e.g., InSAR) to expand the land subsidence monitoring network in the Subbasin.	Section 17.1.5

7.5 Other Information on Implementation Progress

7.5.1 Stakeholder Outreach and Engagement

Dates of the various stakeholder outreach activities during WY 2023 are included in **Appendix C**. During WY 2023, the CGA continued to conduct outreach on a variety of platforms as summarized below.

- Monthly CGA Board of Directors meetings provided updates on GSP implementation activities. The meetings are open to the public and have time allotted for public comment.
- The PMA Committee convened five times during WY 2023 to conduct PMA planning in preparation of grant application materials and provided guidance on PMA related activities to the CGA. The PMA Committee serves an advisory role to the CGA Board of Directors to inform the Board of PMA planning efforts.
- The Citizen Advisory Committee (CAC) convened three times during WY 2023 to provide input from and information-sharing among the Basin's diverse communities and interests. The CAC serves an advisory role to the CGA Board of Directors and consists of a range of applicants with interest and experience in sustainable groundwater management.
- The Outreach and Engagement (O&E) Committee convened three times during WY 2023 to conduct implementation of the Cosumnes Subbasin Outreach and Engagement Plan. The O&E Committee serves an advisory role to the CGA Board of Directors, to inform the Board of outreach activities.
- Other outreach and engagement activities that continued during WY 2023 were Stakeholder/Technical Workshops, website maintenance, expansion of the list of interested parties, fact sheet development and distribution, distribution of farmer surveys, and public presentations made by GSA members to their local governing bodies as part of regular Public City Council or Board of Director meetings.

7.5.2 Public Comments Received

During WY 2023, public comments were received by the CGA in the following forms: letters, emails, and verbal comments at the monthly Board of Directors meeting. **Appendix D** includes a summary of public comments received. No significant public comments were listed in the WY 2023 CGA Board of Directors meeting minutes. Beginning in November 2024, the meetings will be recorded and posted on the CGA website[9] to make them available to the public.

7.5.3 Additional Information or Accomplishments

The following describes additional information and/or accomplishments the GSAs and/or CGA have made related to implementation efforts that are being used to achieve the Basin's sustainability goal.

- The CGA utilized proposition 68 awarded funds and data gap filling funds to install two groundwater monitoring wells during September 2023 on the DWR Grizzly Slough Property located at New Hope Road, Galt, California. The purpose of the wells is to measure groundwater level changes in the uppermost saturated sediments near verified GDE areas. Daily water level measurements are being collected, by transducers, to monitor shallow groundwater responses to temporal variations in deeper well extractions and climatic conditions in the Basin. The wells were

[9] https://www.cosumnesgroundwater.org/meetings/

incorporated into the Basin's supplemental monitoring network with the goal of being incorporated in the Basin's Representative Monitoring Sites (RMS) for Chronic Lowering of Groundwater Levels, Degraded Water Quality, and Depletions of Interconnected Surface Water once sufficient data has been collected to develop SMCs. The Monitoring Well Installation Report is included as **Appendix E.**

- As described in **Table AR-9**, the SRCD GSA has successfully received two grants from the California Department of Food and Agriculture. Funding from the Conservation Agriculture Planning Grant Program will support the creation of on-farm conservation plans aimed at improving water use efficiency, soil health, and carbon farming. Funding from the Water Efficiency Technical Assistance Program will allow SRCD to add a Water Efficiency Technician to their staff to work directly with farmers/operators on understanding their irrigation systems and how to implement water saving practices and technologies. In addition to these grants, SRCD has worked to advocate for additional water use efficiency funding for the United States Department of Agriculture's Natural Resource Conservation Services' Environmental Quality Incentive Program in Sacramento County.
- During WY 2023 CGA worked with SCI Consulting Group, along with Larry Walker Associates, to explore long-term funding strategies for CGA to support GSP implementation within the Basin. The fee study took place throughout WY 2023 and is being finalized in WY 2024. During the development of the draft fee study CGA revised their budget, reprioritized implementation tasks and began filling data gaps in identifying irrigated and non-irrigated parcels throughout the Basin, specifically near the City of Galt and Amador County.
- During WY 2023 Clay Water District GSA, GID GSA and SRCD GSA identified the need and are moving forward in WY 2024 on efforts to verify irrigated and non-irrigated parcels and verify land use within their respective GSA boundaries.

7.5.4 Anticipated WY 2024 Implementation Activities

The CGA developed a Work Plan of activities for WY 2024 (**Appendix F**). The Work Plan includes operations, fee study development, outreach and engagement, GSP implementation, and other/PMAs related activities. In addition to the tasks specified in the Work Plan, the CGA plans the following additional activities.

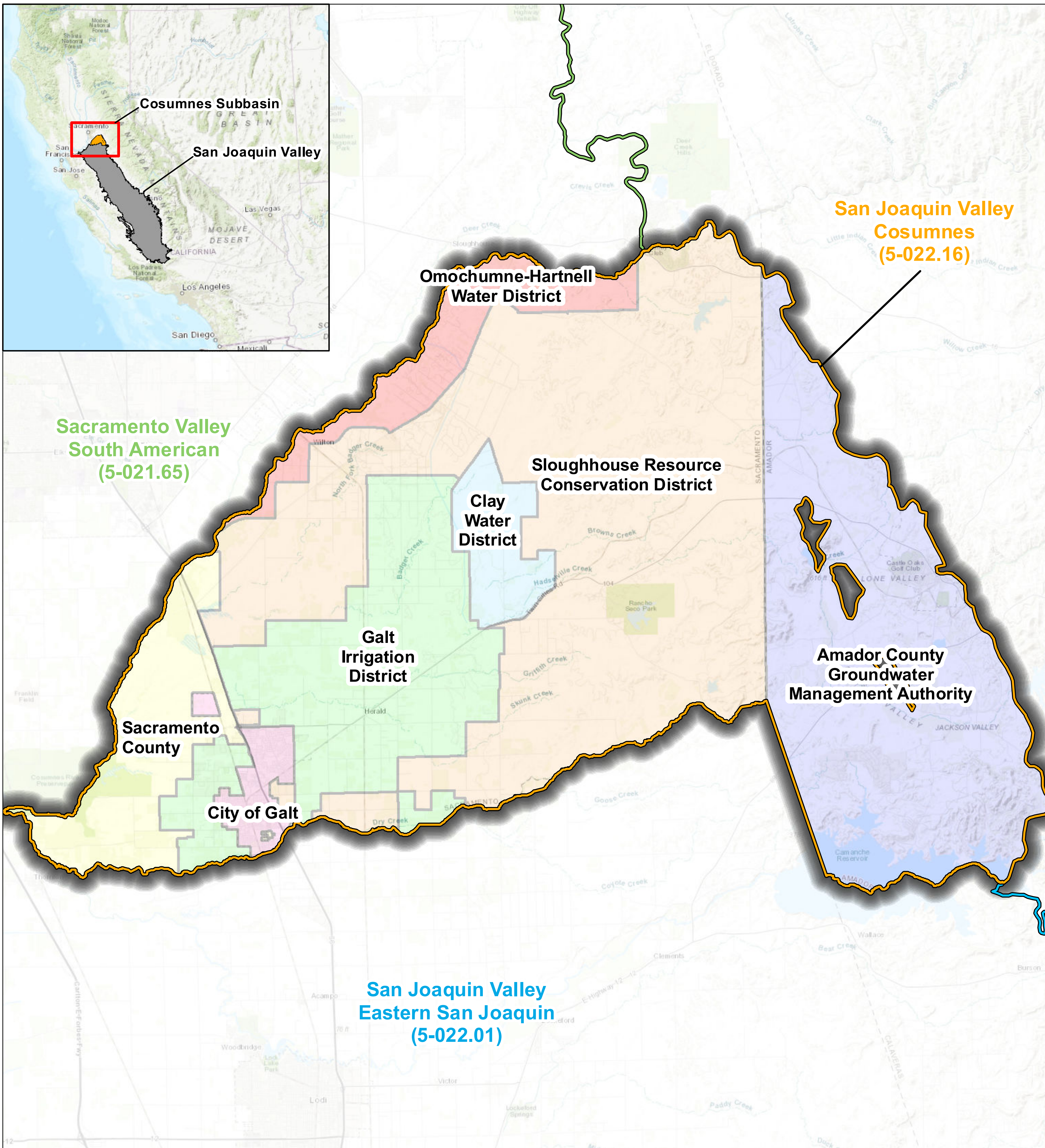
- Investigate wells with MT exceedances.
- Develop approaches to respond to DWR's recommended corrective actions.
- Revise monitoring networks and continue updating access agreements, as needed.
- Continue filling monitoring data gaps, including SRCD GSA conducting a pilot study for a monitoring data telemetry system.
- Develop and implement metering BMPs with data reporting schedule.
- Explore available grants and other funding opportunities.

8 REFERENCES

DWR, 2019. *Sustainable Groundwater Management Act 2018 Basin Prioritization Process and Results*. California Department of Water Resources, April 2019.

EKI Environment & Water, Inc. 2021, *Groundwater Sustainability Plan for the Cosumnes Subbasin*, Prepared for Cosumnes Subbasin SGMA Working Group, dated December 2021.

Robertson-Bryan, Inc. and WRIME, 2011, South Basin Groundwater Management Plan, Prepared for South Area Water Council, dated October 2011.



Legend

Groundwater Subbasin

- Cosumnes Subbasin (5-022.16)
- South American Subbasin (5-021.65)
- Eastern San Joaquin Subbasin (5-022.01)

Groundwater Sustainability Agency

- Amador County Groundwater Management Authority
- City of Galt
- Clay Water District
- Galt Irrigation District
- Omochumne-Hartnell Water District
- Sacramento County
- Sloughhouse Resource Conservation District

Abbreviations
DWR = California Department of Water Resources

Notes
1. All locations are approximate.

Sources
1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 21 March 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater Bulletin 118 - Final Prioritization, dated February 2019.

N

0 3 6
(Scale in Miles)

Cosumnes Groundwater Subbasin

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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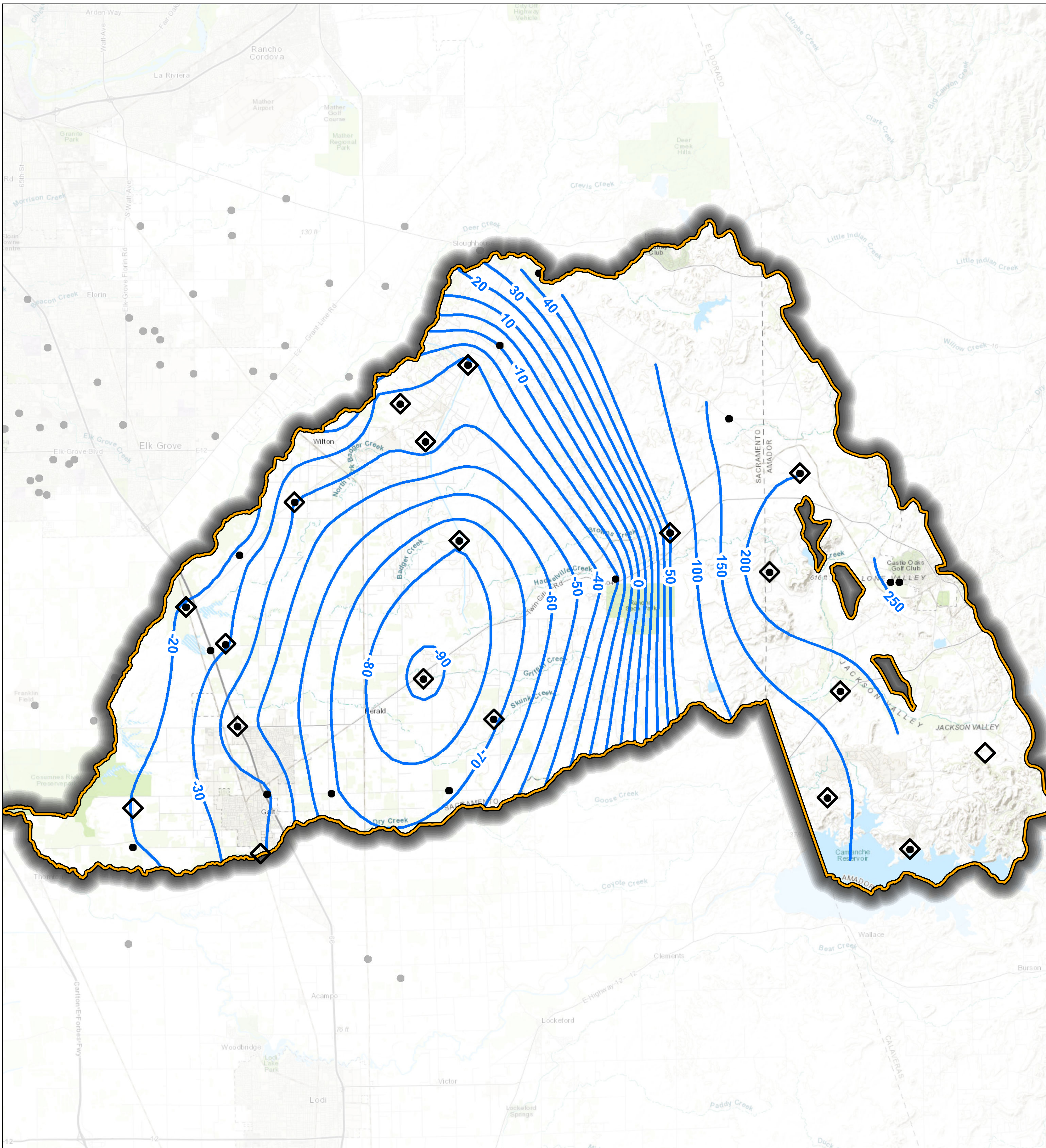
Figure AR-1

Path: X:\C20149.01\Map\2024\01\Figure AR-1, Cosumnes Groundwater Basin.mxd



Legend

- ● Fall 2022 Well Sampled
- ◇ RMW-WL
- Fall 2022 GWE (ft NAVD 88)

Groundwater Subbasin

- Cosumnes Subbasin (5-022.16)

Abbreviations

DWR = California Department of Water Resources
ft NAVD 88 = feet above the North American Vertical Datum of 1988
GWE = Groundwater Elevation
RMW-WL = Representative Monitoring Well for Chronic Lowering of Groundwater Levels

Notes

1. All locations are approximate.

Sources

1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 18 January 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater Bulletin 118 - Final Prioritization, dated February 2019.

Groundwater Elevation - Fall 2022

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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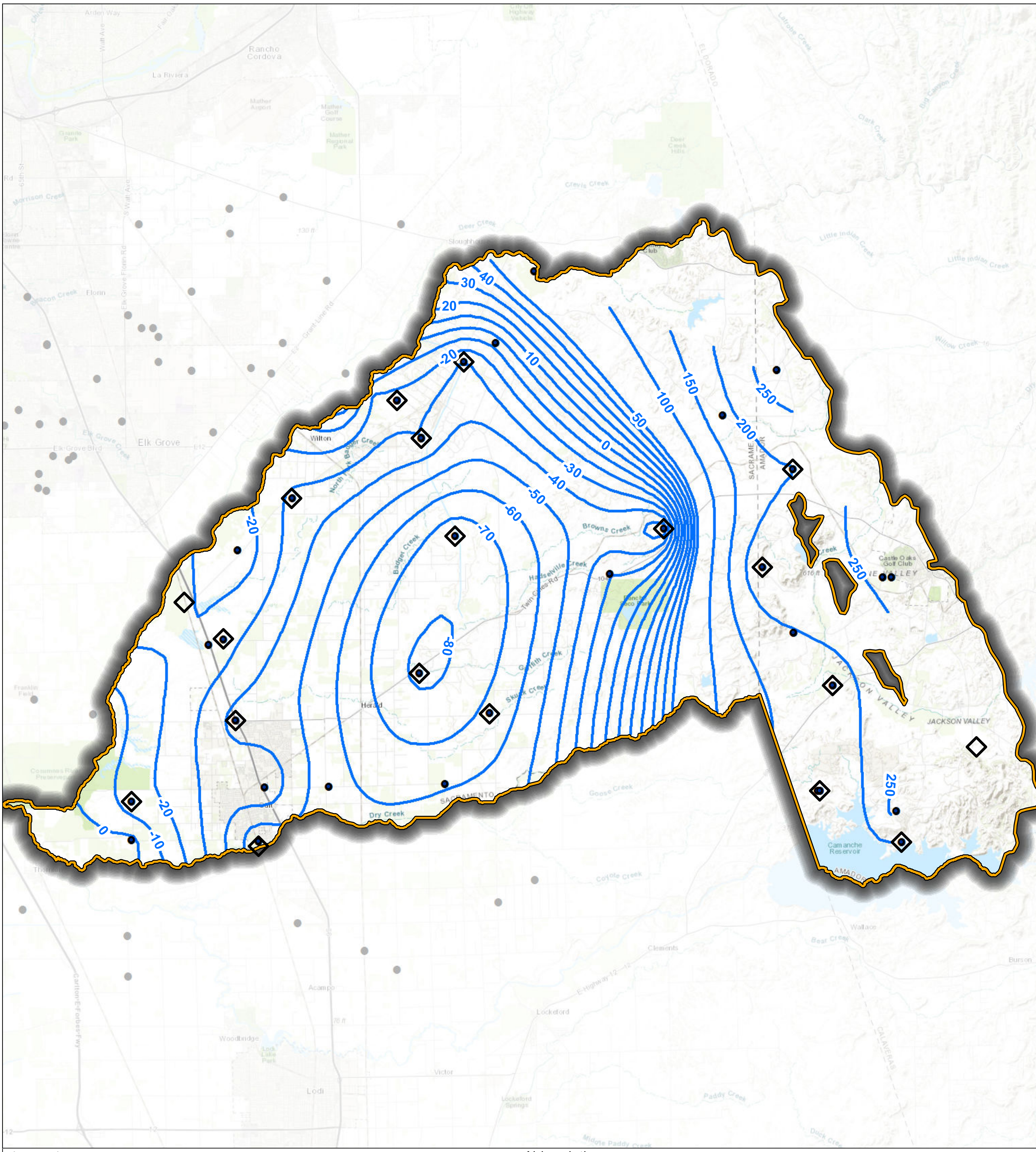
Figure AR-2

Path: X:\C20149.01\Map\2024\01\Figure AR-2, Groundwater Elevations - Fall 2022.mxd



Legend

- Spring 2023 Well Sampled
- RMW-WL
- Spring 2023 GWE Contour (ft NAVD88)

Groundwater Subbasin

Cosumnes Subbasin (5-022.16)

Abbreviations
DWR = California Department of Water Resources
ft NAVD88 = feet above the North American Vertical Datum of 1988
GWE = Groundwater Elevation
RMW-WL = Representative Monitoring Well for Chronic Lowering of Groundwater Levels

Notes
1. All locations are approximate.

Sources
1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 21 March 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater Bulletin 118 - Final Prioritization, dated February 2019.

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Groundwater Elevation - Spring 2023

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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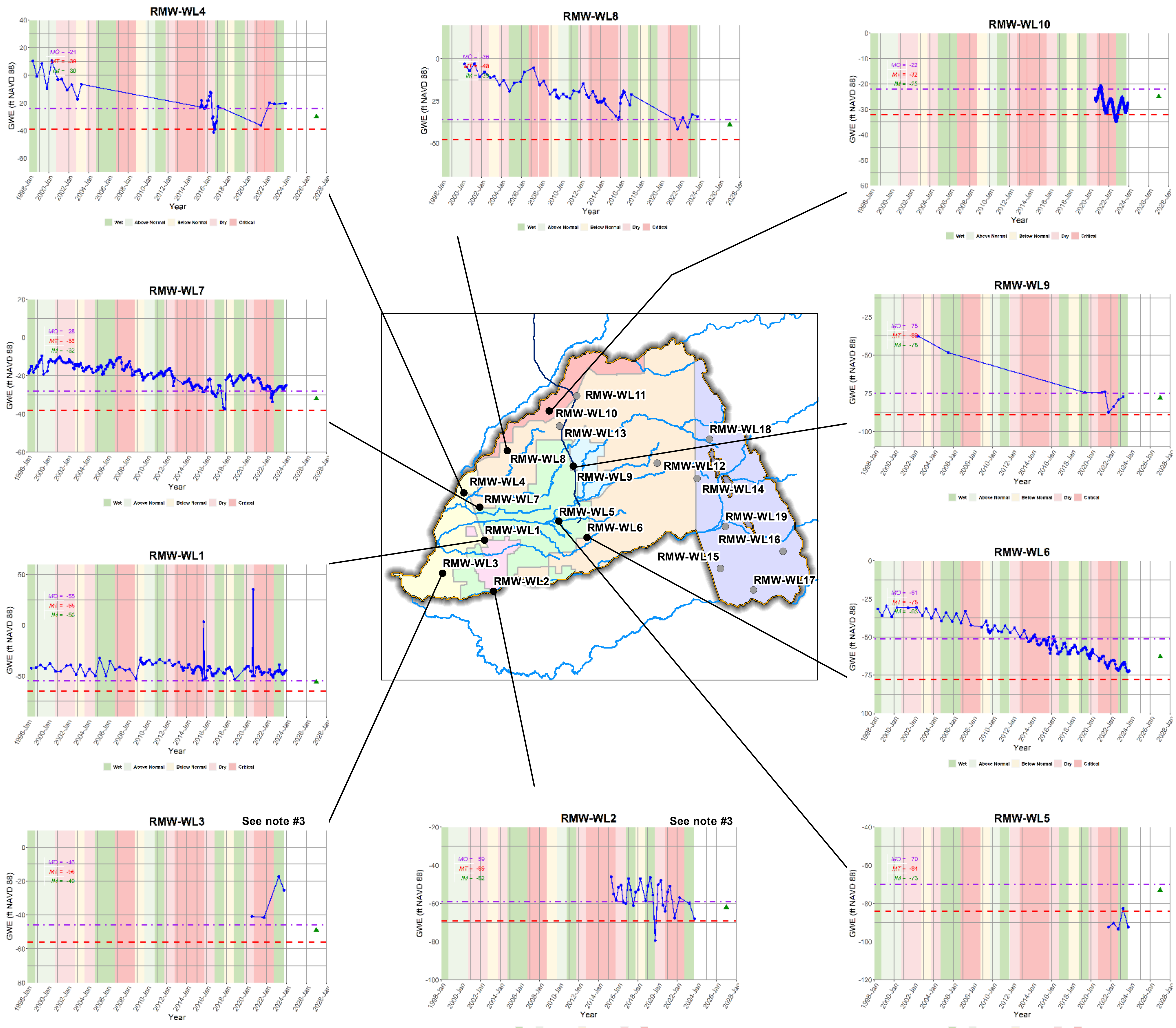
Figure AR-3

Path: X:\C20149.01\Map\2024\01\Figure AR-3. Groundwater Elevations - Spring 2023.mxd



Legend

Cosumnes Subbasin (5-022.16)

Groundwater Sustainability Agency

- Amador County Groundwater Management Authority
- City of Galt
- Clay Water District
- Galt Irrigation District
- Omochumne-Hartnell Water District
- Sacramento County
- Sloughhouse Resource Conservation District

County Line

Major Stream

Folsom South Canal

RMW-WL with hydrograph shown

RMW-WL with hydrograph shown on Figure 4b

Groundwater Elevation

MT

MO

IM

Water Year Type

- Wet
- Above Normal
- Below Normal
- Dry
- Critical

Abbreviations

ft NAVD 88 = feet above the North American Vertical Datum of 1988
GWE = Groundwater Elevation
IM = Interim Milestone
MO = Measurable Objective
MT = Minimum Threshold
RMW-WL = Representative Monitoring Well for Chronic Lowering of Water Levels

Notes

1. All locations are approximate.
2. See Figure AR-4b for RMW-WL11 through RMW-WL19.
3. Fall 2022 water levels were not measured in RMW-WL2 and RMW-WL3.

N

0 8 16

(Scale in Miles)

Representative Monitoring Well - Hydrographs

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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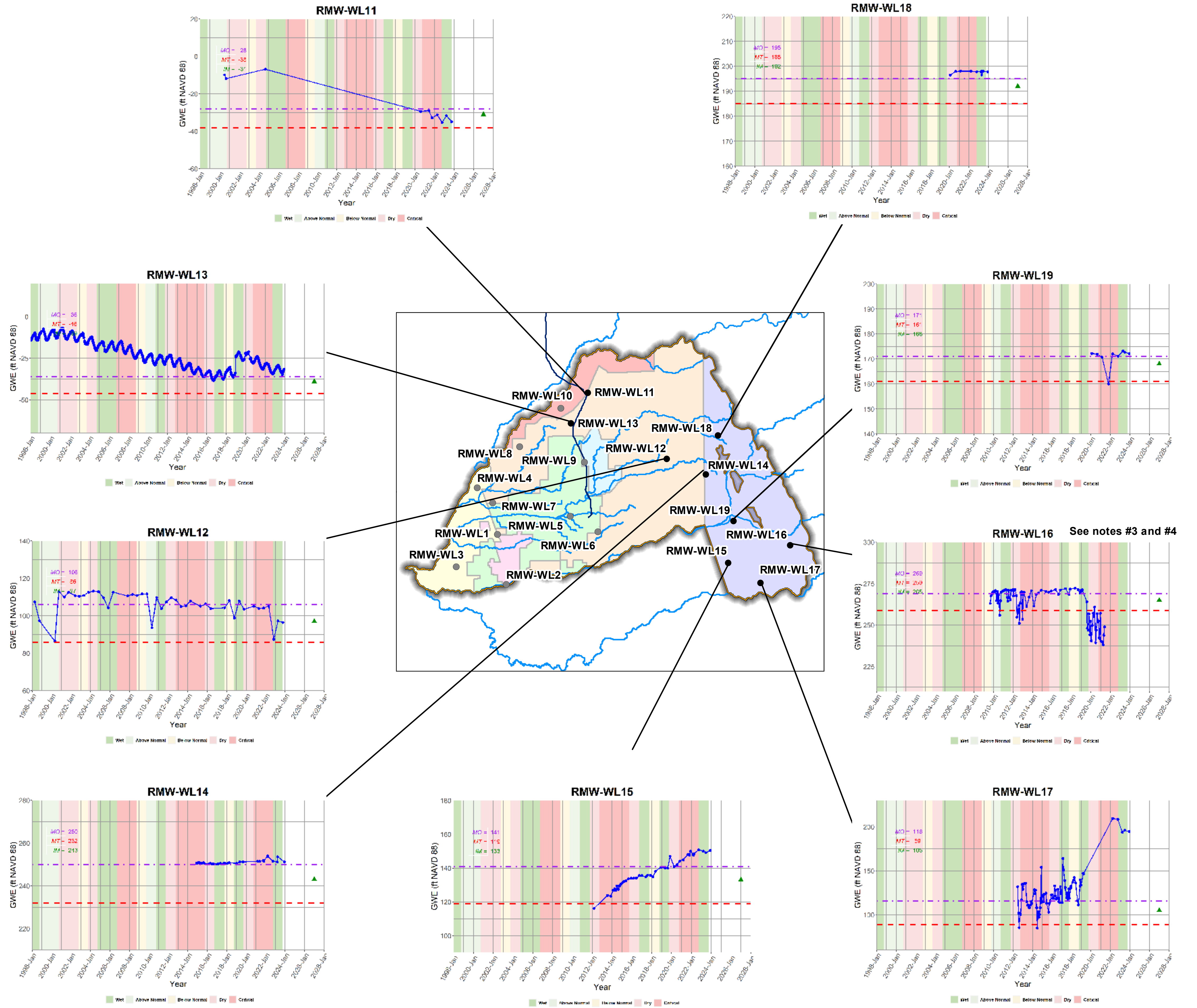
Figure AR-4a

Path: X:\C20149.01\Map\2024\01\Figure AR-4. Representative Monitoring Well Hydrographs (a).mxd



Legend

- Cosumnes Subbasin (5-022.16)

Groundwater Sustainability Agency

- Amador County Groundwater Management Authority
- City of Galt
- Clay Water District
- Galt Irrigation District
- Omochumne-Hartnell Water District
- Sacramento County
- Sloughhouse Resource Conservation District
- County Line
- Major Stream
- Folsom South Canal
- RMW-WL with hydrograph shown
- RMW-WL with hydrograph on Figure 4a
- Groundwater Elevation
- MT
- MO
- IM

Water Year Type

- Wet
- Above Normal
- Below Normal
- Dry
- Critical

Abbreviations

ft NAVD88	= feet above the North American Datum of 1988
GWE	= Groundwater Elevation
IM	= Interim Milestone
MO	= Measurable Objective
MT	= Minimum Threshold
RMW-WL	= Representative Monitoring Well for Chronic Lowering of Water Levels

Notes

1. All locations are approximate.
2. See Figure AR-4a for RMW-WL1 through RMW-WL10.
3. Water levels were not measured in RMW-WL16 during Water Year 2023.
4. Change in water level trends starting in WY 2020.

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(Scale in Miles)

Representative Monitoring Well - Hydrographs

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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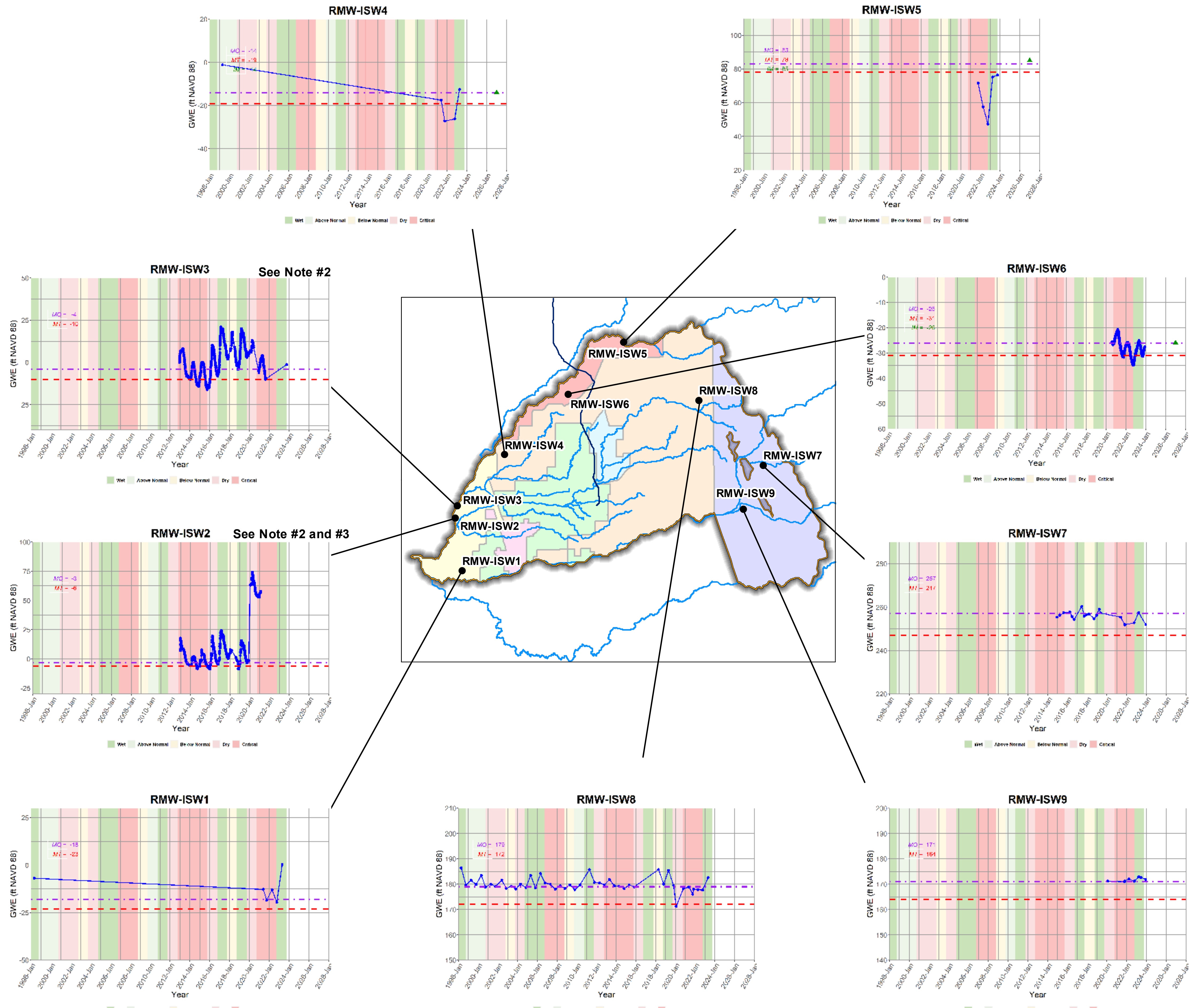
Figure AR-4b

Path: X:\C20149.01\Map\2024\01\Figure AR-4. Representative Monitoring Well Hydrographs (b).mxd



Legend

- RMW- ISW with hydrograph shown
- Cosumnes Subbasin (5-022.16)

Groundwater Sustainability Agency

- Amador County Groundwater Management Authority
- City of Galt
- Clay Water District
- Galt Irrigation District
- Omochumne-Hartnell Water District
- Sacramento County
- Sloughhouse Resource Conservation District
- County Line
- Major Stream
- Folsom South Canal
- Groundwater Elevation
- MT
- MO
- IM

Water Year Type

- Wet
- Above Normal
- Below Normal
- Dry
- Critical

Abbreviations

ft NAVD 88 = feet above the North American Datum of 1988
GWE = Groundwater Elevation
IM = Interim Milestone
MO = Measurable Objective
MT = Minimum Threshold
RMW-ISW = Representative Monitoring Well for Interconnected Surface Water

Notes

1. All locations are approximate.
2. Water levels were not measured in RMW-ISW2 or RMW-ISW3 during Water Year 2023.
3. Measurements recorded for RMW-ISW2 after 10 January 2020 are considered questionable as all values are increased by up to 60 feet compared to previous data.

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(Scale in Miles)

Representative Monitoring Well - Hydrographs

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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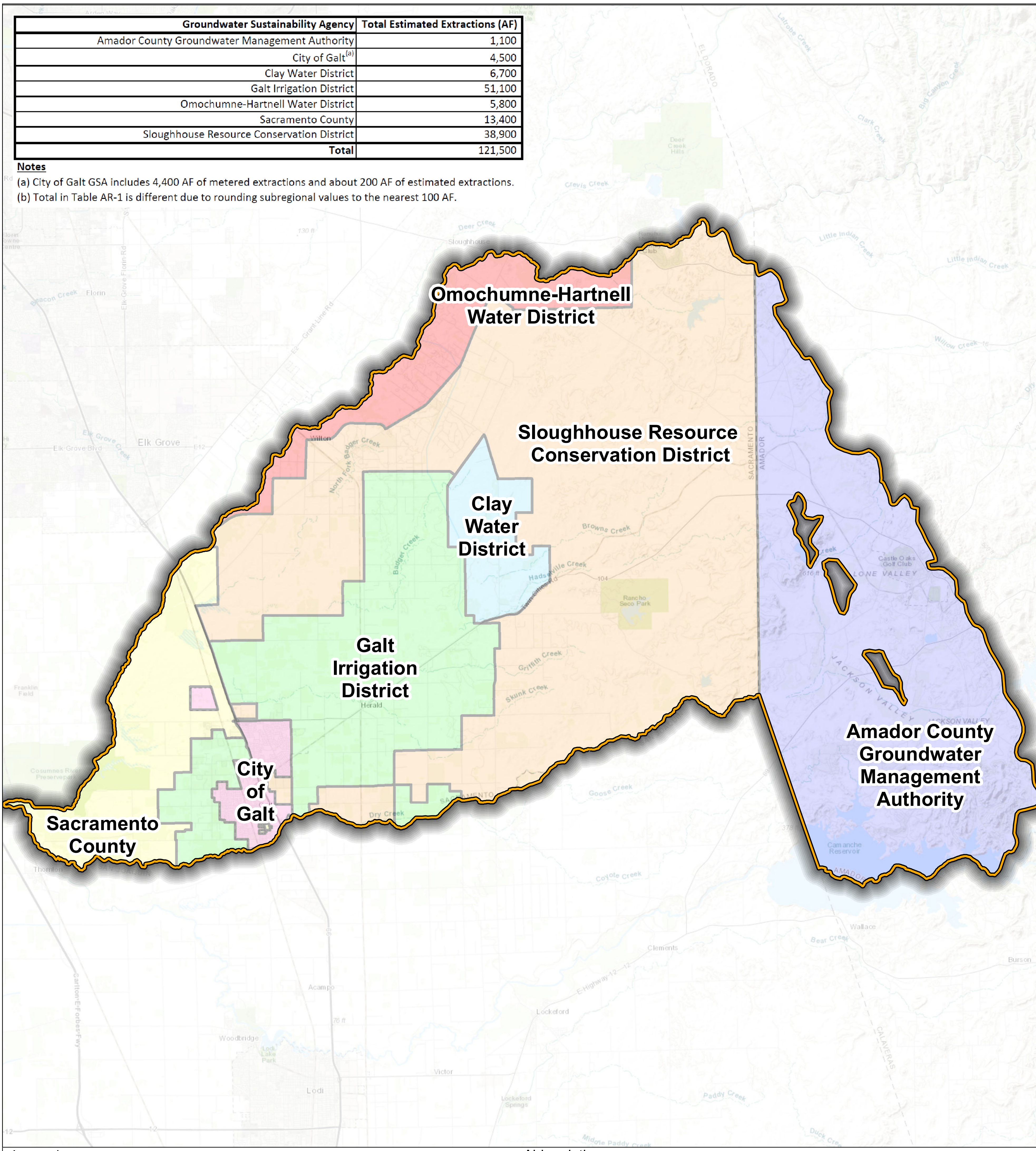
Figure AR-4c

Path: X:\C20149.01\Map\2024\01\Figure AR-4. Representative Monitoring Well Hydrographs (c).mxd

Groundwater Sustainability Agency	Total Estimated Extractions (AF)
Amador County Groundwater Management Authority	1,100
City of Galt[a]	4,500
Clay Water District	6,700
Galt Irrigation District	51,100
Omochumne-Hartnell Water District	5,800
Sacramento County	13,400
Sloughhouse Resource Conservation District	38,900
Total	121,500

Notes
(a) City of Galt GSA includes 4,400 AF of metered extractions and about 200 AF of estimated extractions.
(b) Total in Table AR-1 is different due to rounding subregional values to the nearest 100 AF.



Legend

Groundwater Subbasin

Cosumnes Subbasin (5-022.16)

Groundwater Sustainability Agency

- Amador County Groundwater Management Authority
- City of Galt
- Clay Water District
- Galt Irrigation District
- Omochumne-Hartnell Water District
- Sacramento County
- Sloughhouse Resource Conservation District

Abbreviations
AF = acre feet
DWR = California Department of Water Resources

Notes
1. All locations are approximate.

Sources
1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 20 March 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater, Bulletin 118 - 2018.

N
0 3 6
(Scale in Miles)

General Locations and Volumes of Annual Extractions Water Year 2023

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

Figure AR-6

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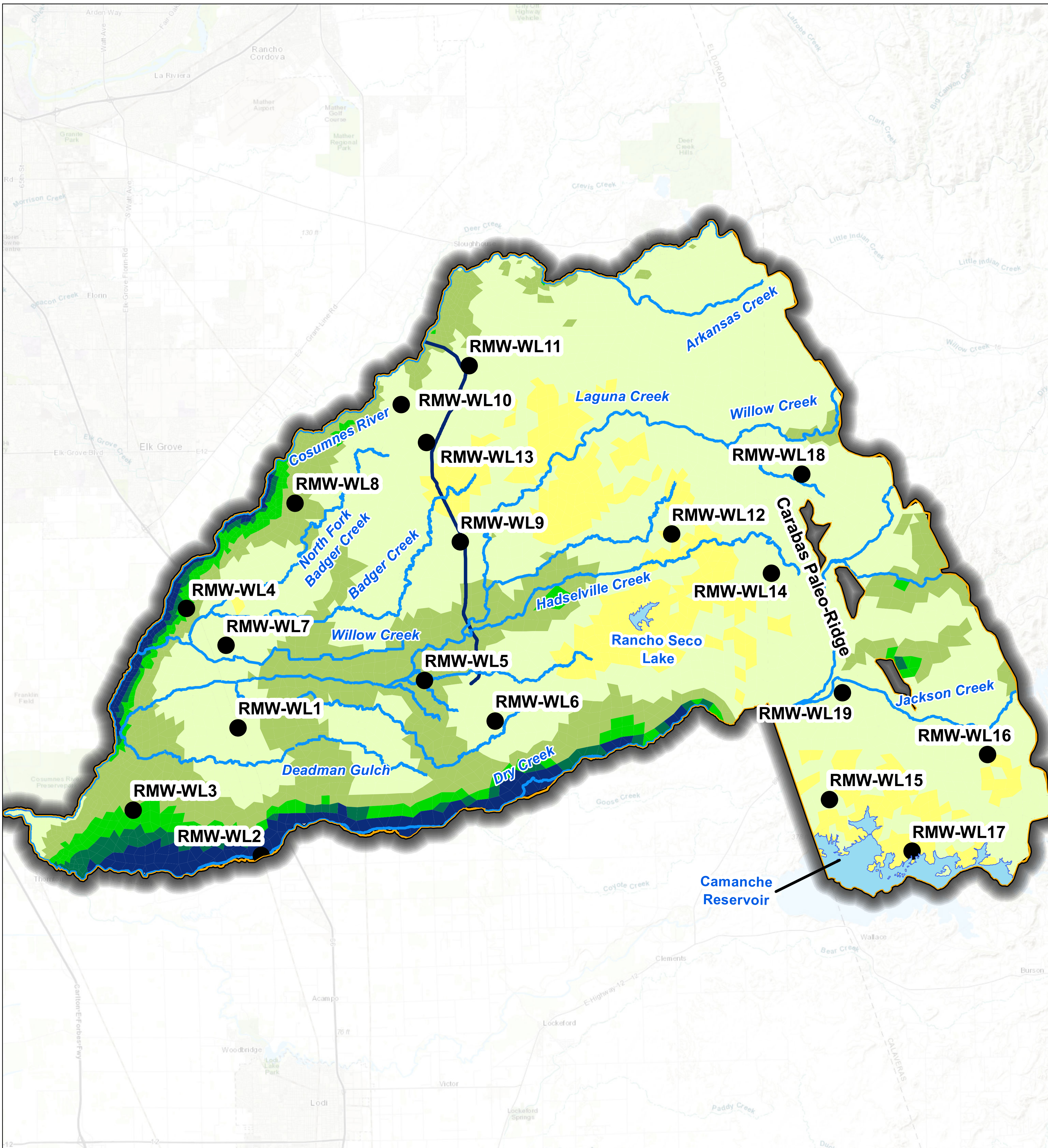
Path: X:\C20149.01\Map\2024\01\Figure AR-6_Location and Groundwater Production Supply Wells, WY 2023.mxd



Legend

RMW-WL

Major Stream

Folsom South Canal

Lake and Reservoir

Groundwater Subbasin

Cosumnes Subbasin (5-022.16)

Storage Change (ft/yr)

< 0

0 - 0.25

0.25 - 0.5

0.5 - 0.75

0.75 - 1

> 1

Abbreviations

CoSANA = Cosumnes, South American, and North American model
DWR = California Department of Water Resources
ft/yr = feet per year
RMW-WL = Representative Monitoring Well for Chronic Lowering of Water Levels

Notes

1. All locations are approximate.
2. CoSANA calculates the volume of storage change within model element, and the element-by-element change was normalized by dividing the volumetric change in storage by the area of each respective model element and the results mapped in units of feet

Sources

1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 20 March 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater Bulletin 118 - Final Prioritization, dated February 2019.
3. Storage change calculated by the updated numerical model (Appendix M "CoSANA - An Integrated Water Resources Model of the Cosumnes, South American, and North American Groundwater Subbasins, November 2021" in "Groundwater Sustainability Plan for the Cosumnes Subbasin, December 2021").

N

0 3 6

(Scale in Miles)

Map Showing the Distribution of Model-Calculated Changes in Groundwater Storage between October 1, 2022 through September 30, 2023 (Water Year 2023), Normalized by Model Element Area and Reported in feet

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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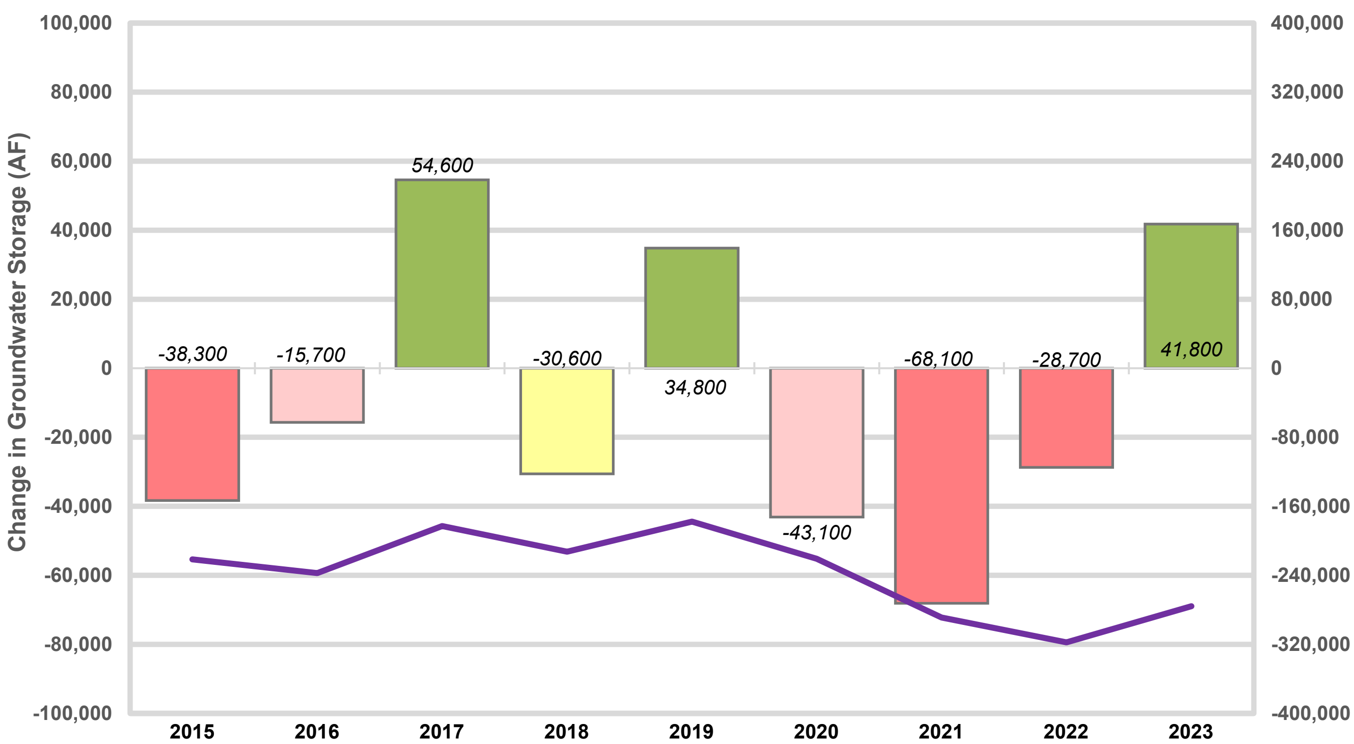
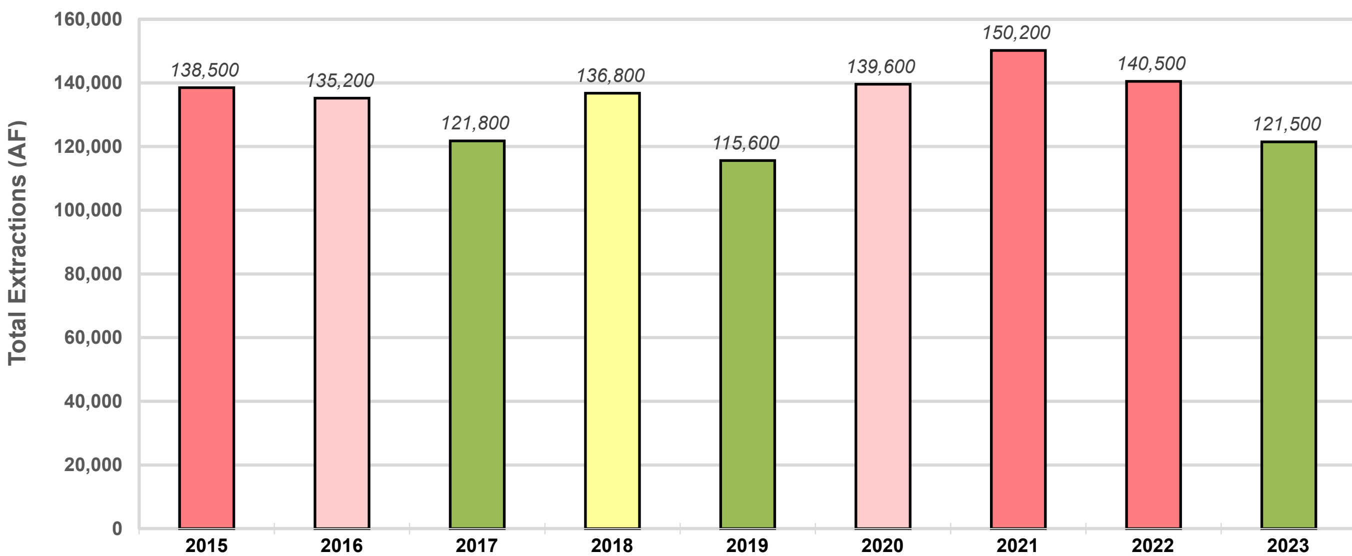
Figure AR-10

Path: X:\C20149.01\Map\2024\01\Figure AR-10, Change in Storage Numerical Model_v2.mxd





Legend

Cumulative Storage Change Since 2015 (AF)

Estimated Extractions (AF)

Annual Groundwater Storage Change (AF)

DWR Water Year Type

Wet

Above Normal

Below Normal

Dry

Critical

Abbreviations

AF = acre-feet
DWR = California Department of Water Resources
WY = Water Year

Notes

1. Water Year is defined as the October of the previous year through September of the current year.
2. All values are rounded to the nearest 100 AF.
3. Cumulative change in storage includes annual storage change from WY 1999 through WY 2014.

Sources

1. DWR Water Year type for 2015 - 2022 is from DWR's Water Year Hydrologic Classification Indices for the San Joaquin Valley (http://cdec.water.ca.gov/reportapp/javareports?name=WSIHIST).
2. WY 2023 assigned the water year type based on previous years having similar annual precipitation and evapotranspiration.

Annual Change in Groundwater Storage, Groundwater Use, and DWR Water Year Type

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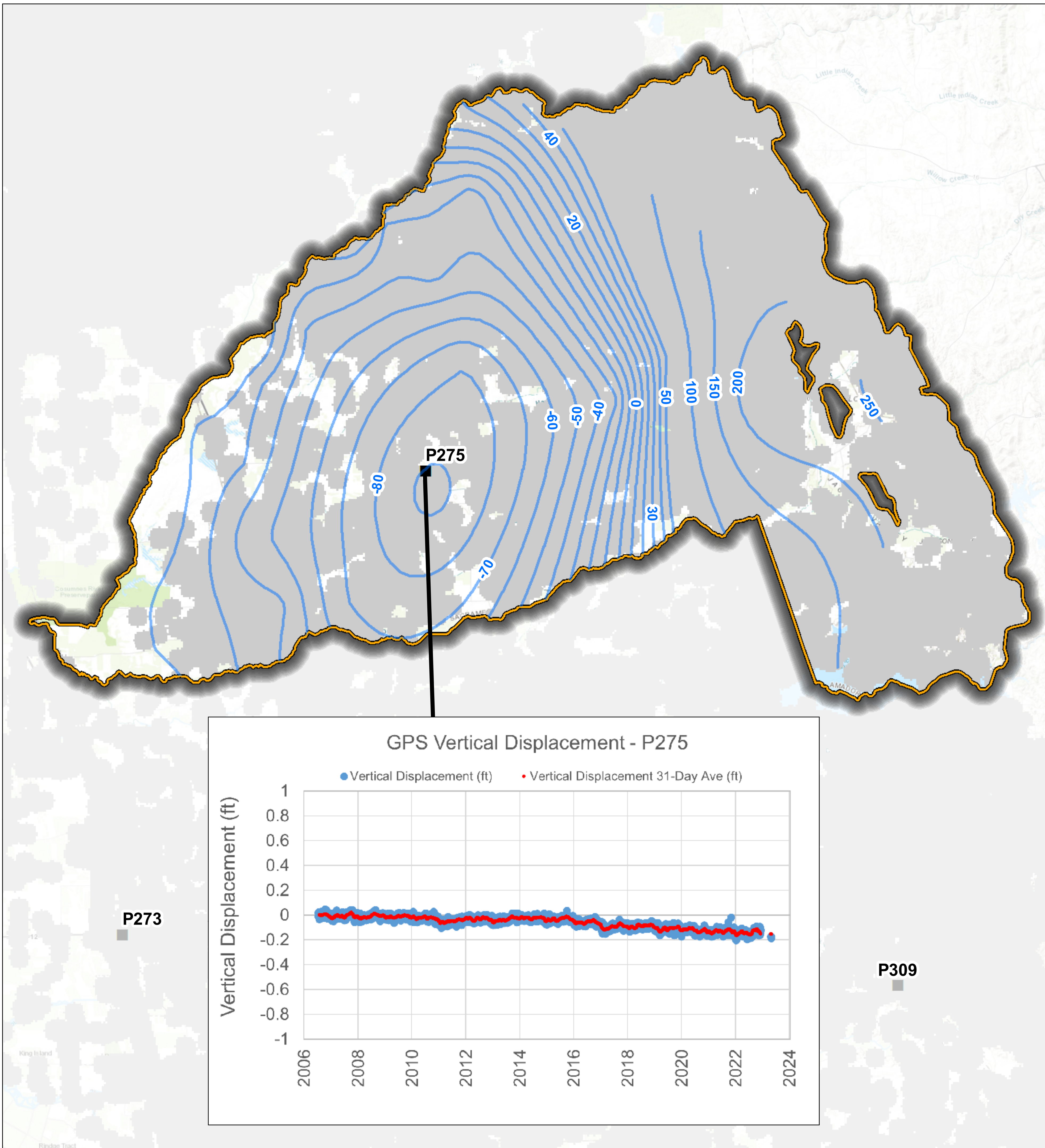
Cosumnes Groundwater Autority
Cosumnes Subbasin
March 2024
C20149.02

Figure AR-11



Legend

Subsidence Monitoring Station

Fall 2022 GWE (ft NAVD 88)

Groundwater Subbasin

Cosumnes Subbasin (5-022.16)

TRE Altamira InSAR Vertical Displacement WY 2023

- < - 1 ft
- - 1.0 to - 0.8 ft
- - 0.8 to - 0.6 ft
- - 0.6 to - 0.4 ft
- - 0.4 to - 0.2 ft
- - 0.2 to - 0.1 ft
- - 0.1 to 0.1 ft
- > 0.1 ft

Abbreviations
DWR = California Department of Water Resources
ft = feet
ft NAVD 88 = feet above the North American Vertical Datum of 1988
GPS = Global Positioning System
GWE = Groundwater Elevation
InSAR = Interferometric Synthetic Aperture Radar
SGMA = Sustainable Groundwater Management Act

Notes
1. All locations are approximate.
2. TRE Altamira InSAR data displayed shows October 2021 through October 2022.

Sources
1. Basemap is ESRI's ArcGIS Online world topographic map, obtained 21 February 2024.
2. DWR groundwater basins are based on the boundaries defined in California's Groundwater Bulletin 118 - Final Prioritization, dated February 2019.
3. GPS subsidence monitoring data and Vertical Displacement data are from the SGMA Data Viewer: https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#currentconditions
4. GWE contours from Figure AR-2.

N

0 3 6
(Scale in Miles)

Subsidence Monitoring
WY 2023

Cosumnes Groundwater Authority
Cosumnes Subbasin
March 2024
C20149.02

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Figure AR-12

Path: X:\C20149.01\Map\2024\01\Figure AR-12. Subsidence Monitoring - Water Year 2023.mxd

APPENDIX A

Annual Report Submittal Checklist

Groundwater Sustainability Plan Annual Report Elements Guide

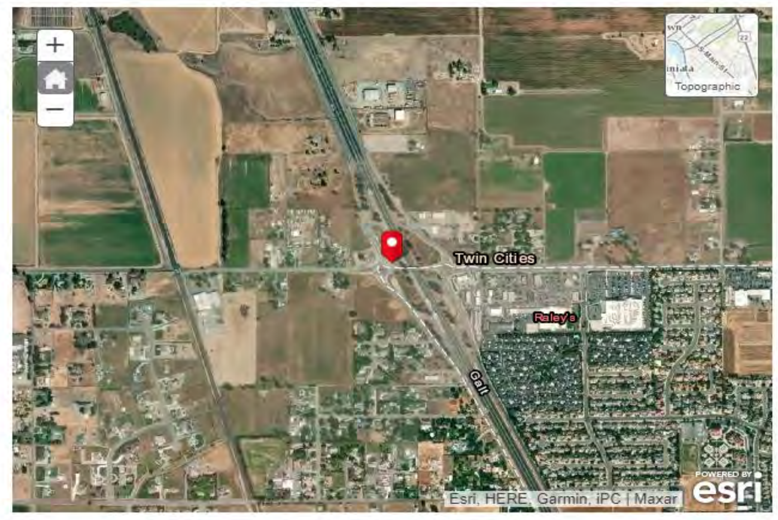
Basin Name	5-022.16 COSUMNES		
GSP Local ID			
California Code of Regulations - GSP Regulation Sections	***Groundwater Sustainability Plan Elements***	**Document *page number(s) that address the applicable GSP element.***	***Notes: Briefly describe the GSP element does not apply.***
Article 5	**Plan Contents**		
Subarticle 4	***Monitoring Networks***		
§ 354.40	**Reporting Monitoring Data to the Department**		
	Monitoring data shall be stored in the data management system developed pursuant to Section 352.6. A copy of the monitoring data shall be included in the Annual Report and submitted electronically on forms provided by the Department.	25, 27, 29	
	Note: Authority cited: Section 10733.2, Water Code. Reference: Sections 10728, 10728.2, 10733.2 and 10733.8, Water Code.		
Article 7	**Annual Reports and Periodic Evaluations by the Agency**		
§ 356.2	**Annual Reports**		
	Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:		
	(a) General information, including an executive summary and a location map depicting the basin covered by the report.	7:9, 39	
	(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:		
	(1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:		
	(A) Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.	40:41	
	(B) Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.	42:44	
	(2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.	15, 45	
	(3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.	17	
	(4) Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.	19:20	
	(5) Change in groundwater in storage shall include the following:		
	(A) Change in groundwater in storage maps for each principal aquifer in the basin.	46	
	(B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.	47	
	(c) A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.	23:37	

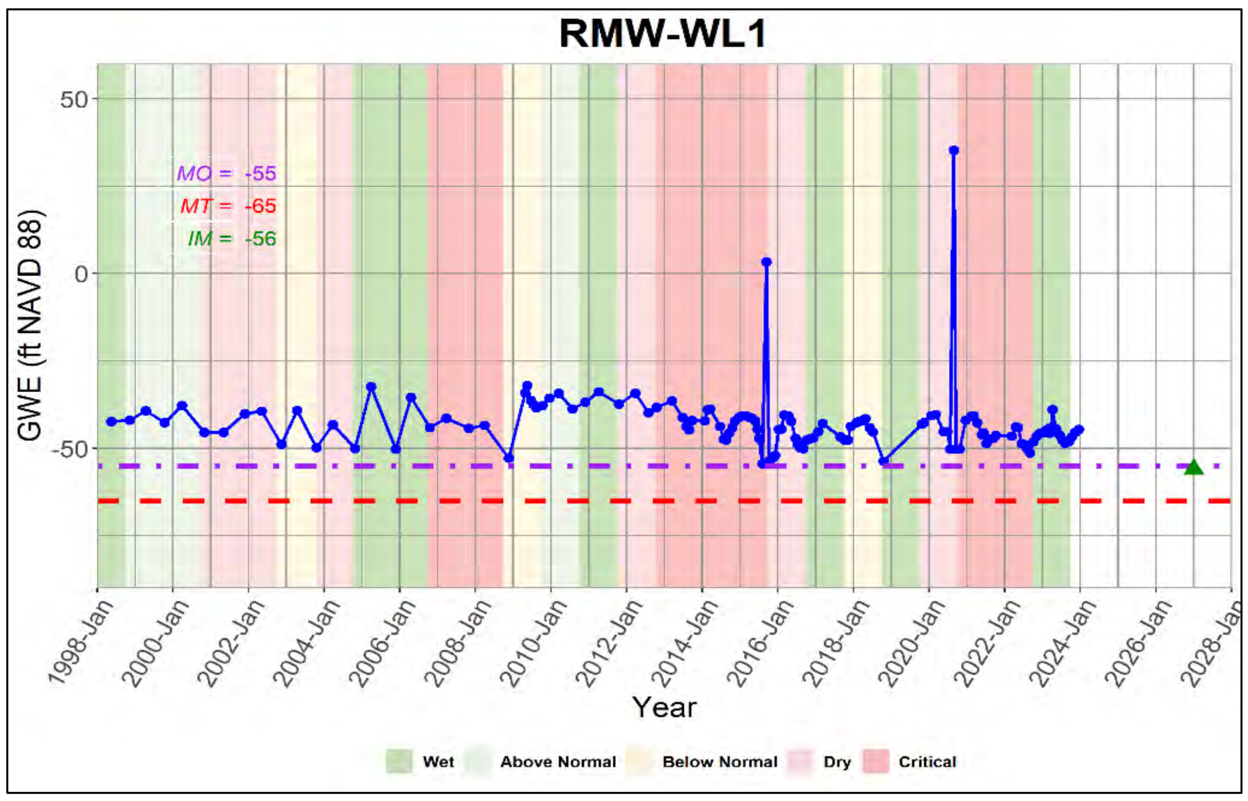
APPENDIX B

Representative Monitoring Wells Data

Site Code: 382913N1213131W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382913N1213131W001
Local Well Name:	SCGA #25
Monitoring Network Type:	SGMA Representative
Station ID:	4824
Latitude:	38.2913
Longitude:	-121.313
Well Depth (feet bgs):	384.0
Top Perforation (feet bgs):	169.0
Bottom Perforation (feet bgs):	361.0
Ground Surface Elevation:	43.5
Reference Point Elevation:	44.8
Sustainability Indicators:	Groundwater Levels,Groundwater Storage





Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
05N06E10P001M	RMW-WL1	5/10/1963	67.4	-22.6
05N06E10P001M	RMW-WL1	10/28/1963	73.2	-28.4
05N06E10P001M	RMW-WL1	3/19/1964	69.1	-24.3
05N06E10P001M	RMW-WL1	10/19/1964	77.9	-33.1
05N06E10P001M	RMW-WL1	3/11/1965	71.6	-26.8
05N06E10P001M	RMW-WL1	10/11/1965	79.7	-34.9
05N06E10P001M	RMW-WL1	3/8/1966	73	-28.2
05N06E10P001M	RMW-WL1	10/19/1966	86.2	-41.4
05N06E10P001M	RMW-WL1	3/13/1967	75.9	-31.1
05N06E10P001M	RMW-WL1	10/11/1967	84.3	-39.5
05N06E10P001M	RMW-WL1	3/11/1968	76.1	-31.3
05N06E10P001M	RMW-WL1	10/11/1968	85.9	-41.1
05N06E10P001M	RMW-WL1	3/31/1969	77	-32.2
05N06E10P001M	RMW-WL1	10/1/1969	88.8	-44
05N06E10P001M	RMW-WL1	3/16/1970	78.2	-33.4
05N06E10P001M	RMW-WL1	10/15/1970	91.5	-46.7
05N06E10P001M	RMW-WL1	3/15/1971	81	-36.2
05N06E10P001M	RMW-WL1	10/6/1971	89.4	-44.6
05N06E10P001M	RMW-WL1	3/6/1972	81.6	-36.8
05N06E10P001M	RMW-WL1	10/5/1972	89.2	-44.4
05N06E10P001M	RMW-WL1	3/1/1973	83.8	-39
05N06E10P001M	RMW-WL1	10/2/1973	93.2	-48.4
05N06E10P001M	RMW-WL1	3/8/1974	84.8	-40
05N06E10P001M	RMW-WL1	10/8/1974	92.8	-48
05N06E10P001M	RMW-WL1	3/4/1975	85.7	-40.9
05N06E10P001M	RMW-WL1	10/1/1975	95.1	-50.3
05N06E10P001M	RMW-WL1	3/2/1976	87.8	-43
05N06E10P001M	RMW-WL1	10/4/1976	94.7	-49.9
05N06E10P001M	RMW-WL1	3/1/1977	90.9	-46.1
05N06E10P001M	RMW-WL1	10/6/1977	97.9	-53.1
05N06E10P001M	RMW-WL1	3/13/1978	92.6	-47.8
05N06E10P001M	RMW-WL1	10/2/1978	100.5	-55.7
05N06E10P001M	RMW-WL1	3/23/1979	93.1	-48.3
05N06E10P001M	RMW-WL1	10/1/1979	102.8	-58
05N06E10P001M	RMW-WL1	3/17/1980	94.5	-49.7
05N06E10P001M	RMW-WL1	10/6/1980	100.4	-55.6
05N06E10P001M	RMW-WL1	3/11/1981	94.2	-49.4
05N06E10P001M	RMW-WL1	9/25/1981	103.2	-58.4
05N06E10P001M	RMW-WL1	3/1/1982	95.1	-50.3

05N06E10P001M	RMW-WL1	11/3/1982	98.4	-53.6
05N06E10P001M	RMW-WL1	3/15/1983	93.1	-48.3
05N06E10P001M	RMW-WL1	10/5/1983	93.6	-48.8
05N06E10P001M	RMW-WL1	3/6/1984	88.1	-43.3
05N06E10P001M	RMW-WL1	10/4/1984	92.6	-47.8
05N06E10P001M	RMW-WL1	3/4/1985	86.7	-41.9
05N06E10P001M	RMW-WL1	9/18/1985	92.3	-47.5
05N06E10P001M	RMW-WL1	3/13/1986	86	-41.2
05N06E10P001M	RMW-WL1	10/20/1986	87.4	-42.6
05N06E10P001M	RMW-WL1	3/5/1987	83.5	-38.7
05N06E10P001M	RMW-WL1	10/1/1987	88.6	-43.8
05N06E10P001M	RMW-WL1	3/11/1988	82.6	-37.8
05N06E10P001M	RMW-WL1	10/14/1988	87.2	-42.4
05N06E10P001M	RMW-WL1	3/10/1989	83.1	-38.3
05N06E10P001M	RMW-WL1	10/11/1989	86.8	-42
05N06E10P001M	RMW-WL1	3/21/1990	83.9	-39.1
05N06E10P001M	RMW-WL1	10/15/1990	89.4	-44.6
05N06E10P001M	RMW-WL1	3/20/1991	86.4	-41.6
05N06E10P001M	RMW-WL1	3/26/1993	91.9	-47.1
05N06E10P001M	RMW-WL1	11/22/1993	90	-45.2
05N06E10P001M	RMW-WL1	4/22/1994	91.7	-46.9
05N06E10P001M	RMW-WL1	12/16/1994	91.8	-47
05N06E10P001M	RMW-WL1	4/13/1995	90.8	-46
05N06E10P001M	RMW-WL1	12/14/1995	91.9	-47.1
05N06E10P001M	RMW-WL1	5/3/1996	91.2	-46.4
05N06E10P001M	RMW-WL1	12/18/1996	84.8	-40
05N06E10P001M	RMW-WL1	4/17/1997	89.2	-44.4
05N06E10P001M	RMW-WL1	12/2/1997	90.8	-46
05N06E10P001M	RMW-WL1	5/18/1998	87.2	-42.4
05N06E10P001M	RMW-WL1	11/12/1998	86.7	-41.9
05N06E10P001M	RMW-WL1	4/16/1999	84.1	-39.3
05N06E10P001M	RMW-WL1	10/13/1999	87.5	-42.7
05N06E10P001M	RMW-WL1	3/30/2000	82.6	-37.8
05N06E10P001M	RMW-WL1	11/1/2000	90.2	-45.4
05N06E10P001M	RMW-WL1	5/4/2001	90.2	-45.4
05N06E10P001M	RMW-WL1	11/27/2001	84.9	-40.1
05N06E10P001M	RMW-WL1	5/8/2002	84.2	-39.4
05N06E10P001M	RMW-WL1	11/15/2002	93.7	-48.9
05N06E10P001M	RMW-WL1	4/15/2003	84	-39.2
05N06E10P001M	RMW-WL1	10/17/2003	94.6	-49.8
05N06E10P001M	RMW-WL1	3/25/2004	88	-43.2
05N06E10P001M	RMW-WL1	10/25/2004	94.8	-50
05N06E10P001M	RMW-WL1	3/30/2005	77.1	-32.3
05N06E10P001M	RMW-WL1	11/22/2005	95	-50.2
05N06E10P001M	RMW-WL1	4/20/2006	80.2	-35.4
05N06E10P001M	RMW-WL1	10/17/2006	88.9	-44.1
05N06E10P001M	RMW-WL1	3/28/2007	86.2	-41.4
05N06E10P001M	RMW-WL1	10/29/2007	89.1	-44.3
05N06E10P001M	RMW-WL1	3/28/2008	88.2	-43.4
05N06E10P001M	RMW-WL1	11/18/2008	97.6	-52.8
05N06E10P001M	RMW-WL1	4/27/2009	79	-34.2
05N06E10P001M	RMW-WL1	5/15/2009	76.8	-32
05N06E10P001M	RMW-WL1	6/22/2009	81.1	-36.3
05N06E10P001M	RMW-WL1	7/14/2009	82.3	-37.5
05N06E10P001M	RMW-WL1	8/10/2009	83.2	-38.4
05N06E10P001M	RMW-WL1	10/12/2009	82.6	-37.8
05N06E10P001M	RMW-WL1	12/16/2009	80.5	-35.7
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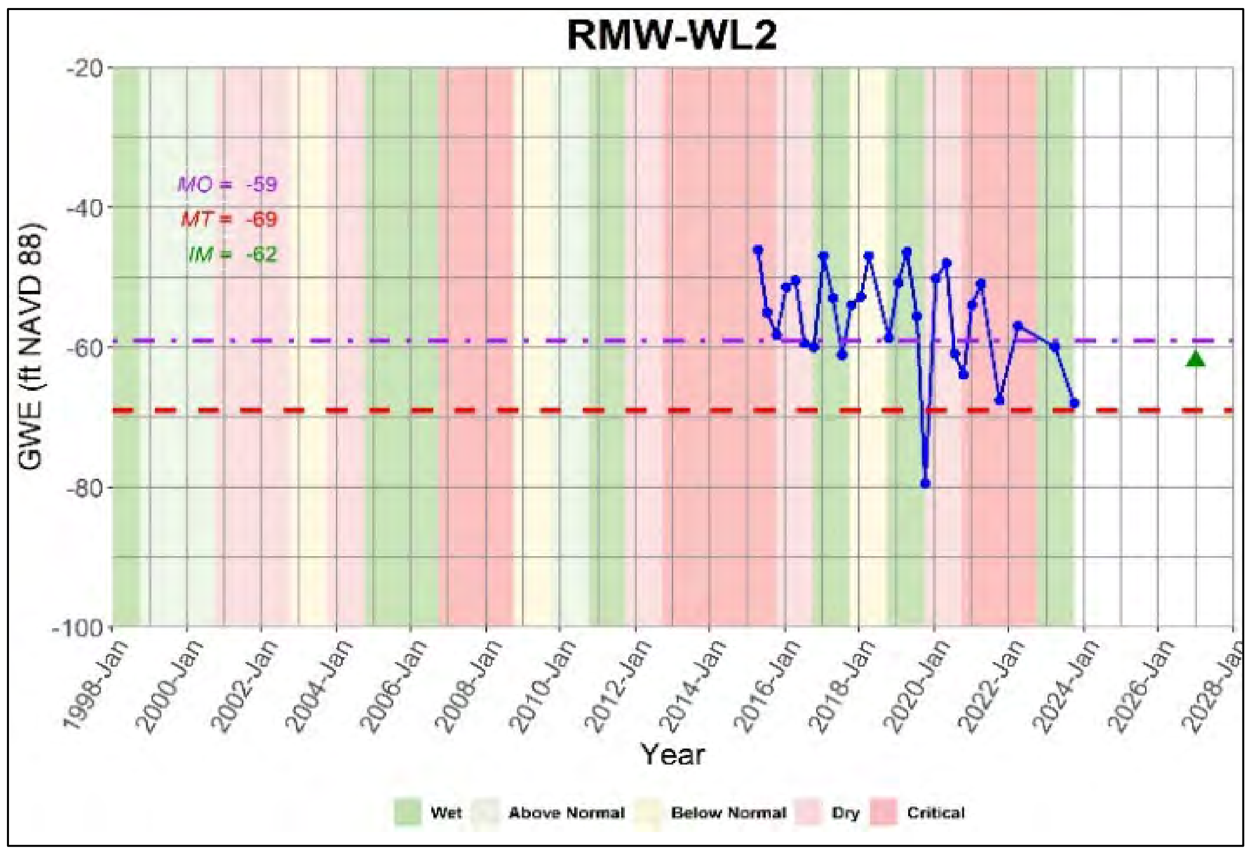
05N06E10P001M	RMW-WL1	4/6/2011	78.6	-33.8
05N06E10P001M	RMW-WL1	10/19/2011	82.1	-37.3
05N06E10P001M	RMW-WL1	3/26/2012	79.1	-34.3
05N06E10P001M	RMW-WL1	7/30/2012	84.6	-39.8
05N06E10P001M	RMW-WL1	10/17/2012	83.1	-38.3
05N06E10P001M	RMW-WL1	3/15/2013	81.2	-36.4
05N06E10P001M	RMW-WL1	6/25/2013	86	-41.2
05N06E10P001M	RMW-WL1	7/29/2013	88.5	-43.7
05N06E10P001M	RMW-WL1	8/27/2013	89.5	-44.7
05N06E10P001M	RMW-WL1	9/24/2013	86.8	-42
05N06E10P001M	RMW-WL1	1/24/2014	86.9	-42.1
05N06E10P001M	RMW-WL1	2/21/2014	83.8	-39
05N06E10P001M	RMW-WL1	3/17/2014	83.5	-38.7
05N06E10P001M	RMW-WL1	6/23/2014	88.5	-43.7
05N06E10P001M	RMW-WL1	7/28/2014	92.2	-47.4
05N06E10P001M	RMW-WL1	8/19/2014	92.4	-47.6
05N06E10P001M	RMW-WL1	9/18/2014	90.5	-45.7
05N06E10P001M	RMW-WL1	10/17/2014	88.9	-44.1
05N06E10P001M	RMW-WL1	11/13/2014	87.1	-42.3

05N06E10P001M	RMW-WL1	12/23/2014	86	-41.2
05N06E10P001M	RMW-WL1	1/14/2015	85.6	-40.8
05N06E10P001M	RMW-WL1	2/26/2015	85.5	-40.7
05N06E10P001M	RMW-WL1	3/25/2015	85.9	-41.1
05N06E10P001M	RMW-WL1	4/23/2015	86.1	-41.3
05N06E10P001M	RMW-WL1	5/28/2015	86.9	-42.1
05N06E10P001M	RMW-WL1	6/17/2015	89.3	-44.5
05N06E10P001M	RMW-WL1	7/3/2015	92	-47.2
05N06E10P001M	RMW-WL1	8/4/2015	99.2	-54.4
05N06E10P001M	RMW-WL1	9/14/2015	41.4164	3.3836
05N06E10P001M	RMW-WL1	10/8/2015	98.5	-53.7
05N06E10P001M	RMW-WL1	11/9/2015	97.7	-52.9
05N06E10P001M	RMW-WL1	12/7/2015	96.9	-52.1
05N06E10P001M	RMW-WL1	1/11/2016	89.4	-44.6
05N06E10P001M	RMW-WL1	2/4/2016	89.3	-44.5
05N06E10P001M	RMW-WL1	3/2/2016	85.2	-40.4
05N06E10P001M	RMW-WL1	4/11/2016	85.5	-40.7
05N06E10P001M	RMW-WL1	5/9/2016	87.1	-42.3
05N06E10P001M	RMW-WL1	6/23/2016	92	-47.2
05N06E10P001M	RMW-WL1	7/11/2016	93.7	-48.9
05N06E10P001M	RMW-WL1	8/4/2016	94.6	-49.8
05N06E10P001M	RMW-WL1	9/6/2016	94.9	-50.1
05N06E10P001M	RMW-WL1	10/4/2016	92.5	-47.7
05N06E10P001M	RMW-WL1	11/3/2016	92.2	-47.4
05N06E10P001M	RMW-WL1	12/7/2016	91.8	-47
05N06E10P001M	RMW-WL1	1/24/2017	90	-45.2
05N06E10P001M	RMW-WL1	3/9/2017	87.7	-42.9
05N06E10P001M	RMW-WL1	8/28/2017	91.5	-46.7
05N06E10P001M	RMW-WL1	9/28/2017	92.2	-47.4
05N06E10P001M	RMW-WL1	10/12/2017	92.5	-47.7
05N06E10P001M	RMW-WL1	11/8/2017	92.4	-47.6
05N06E10P001M	RMW-WL1	12/4/2017	88.5	-43.7
05N06E10P001M	RMW-WL1	1/29/2018	87.5	-42.7
05N06E10P001M	RMW-WL1	2/23/2018	87.2	-42.4
05N06E10P001M	RMW-WL1	3/26/2018	86.8	-42
05N06E10P001M	RMW-WL1	4/27/2018	86.3	-41.5
05N06E10P001M	RMW-WL1	6/7/2018	88.9	-44.1
05N06E10P001M	RMW-WL1	7/9/2018	90.1	-45.3
05N06E10P001M	RMW-WL1	10/17/2018	98.5	-53.7
05N06E10P001M	RMW-WL1	10/23/2019	87.9	-43.1
05N06E10P001M	RMW-WL1	11/12/2019	87.5	-42.7
05N06E10P001M	RMW-WL1	1/22/2020	85.5	-40.7
05N06E10P001M	RMW-WL1	3/4/2020	85.1	-40.3
05N06E10P001M	RMW-WL1	5/22/2020	90	-45.2
05N06E10P001M	RMW-WL1	6/25/2020	90	-45.2
05N06E10P001M	RMW-WL1	7/23/2020	95	-50.2
05N06E10P001M	RMW-WL1	8/28/2020	9.5	35.3
05N06E10P001M	RMW-WL1	9/17/2020	95	-50.2
05N06E10P001M	RMW-WL1	10/22/2020	95	-50.2
05N06E10P001M	RMW-WL1	12/22/2020	86.7	-41.9
05N06E10P001M	RMW-WL1	2/10/2021	85.7	-40.9
05N06E10P001M	RMW-WL1	3/8/2021	85.5	-40.7
05N06E10P001M	RMW-WL1	4/12/2021	87.5	-42.7
05N06E10P001M	RMW-WL1	5/25/2021	90.9	-46.1
05N06E10P001M	RMW-WL1	6/8/2021	90.4	-45.6
05N06E10P001M	RMW-WL1	7/8/2021	93.4	-48.6
05N06E10P001M	RMW-WL1	8/9/2021	92.2	-47.4
05N06E10P001M	RMW-WL1	9/13/2021	92	-47.2
05N06E10P001M	RMW-WL1	10/8/2021	91.1	-46.3
05N06E10P001M	RMW-WL1	3/11/2022	91.3	-46.5
05N06E10P001M	RMW-WL1	4/18/2022	88.7	-43.9
05N06E10P001M	RMW-WL1	5/9/2022	88.9	-44.1
05N06E10P001M	RMW-WL1	6/15/2022	93.4	-48.6
05N06E10P001M	RMW-WL1	7/18/2022	93.8	-49
05N06E10P001M	RMW-WL1	8/4/2022	94.8	-50
05N06E10P001M	RMW-WL1	9/1/2022	96.1	-51.3
05N06E10P001M	RMW-WL1	10/5/2022	92.9	-48.1
05N06E10P001M	RMW-WL1	3/9/2023	90.41	-45.61
05N06E10P001M	RMW-WL1	11/7/2022	91.33	-46.53
05N06E10P001M	RMW-WL1	12/7/2022	90.61	-45.81
05N06E10P001M	RMW-WL1	1/6/2023	90.3	-45.5
05N06E10P001M	RMW-WL1	2/8/2023	89.64	-44.84
05N06E10P001M	RMW-WL1	3/9/2023	89.11	-44.31
05N06E10P001M	RMW-WL1	3/27/2023	89.11	-44.31
05N06E10P001M	RMW-WL1	4/6/2023	83.733	-38.933
05N06E10P001M	RMW-WL1	5/10/2023	89.2	-44.4
05N06E10P001M	RMW-WL1	6/14/2023	91.02	-46.22
05N06E10P001M	RMW-WL1	7/13/2023	92.5	-47.7
05N06E10P001M	RMW-WL1	8/10/2023	93.33	-48.53

05N06E10P001M	RMW-WL1	9/12/2023	92.94	-48.14
05N06E10P001M	RMW-WL1	10/11/2023	91.5	-46.7
05N06E10P001M	RMW-WL1	11/9/2023	90.32	-45.52
05N06E10P001M	RMW-WL1	12/19/2023	89.4	-44.6

Site Code: 382391N1213011W002 - Sloughhouse Resource Conservation District GSA - Cosumnes

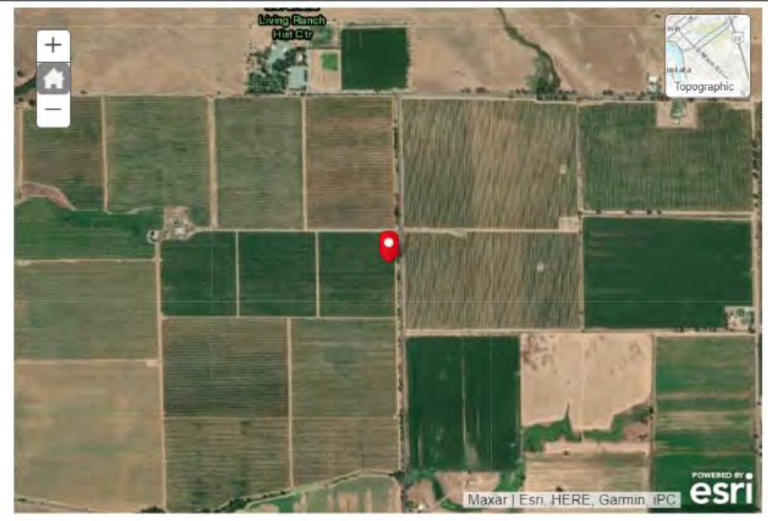
Site Code:	382391N1213011W002
Local Well Name:	City of Galt_MW 1654
Monitoring Network Type:	SGMA Representative
Station ID:	52075
Latitude:	38.2391
Longitude:	-121.301
Well Depth (feet bgs):	1654.0
Top Perforation (feet bgs):	1614.0
Bottom Perforation (feet bgs):	1644.0
Ground Surface Elevation:	53.0
Reference Point Elevation:	54.08
Sustainability Indicators:	Groundwater Levels,Groundwater Storage

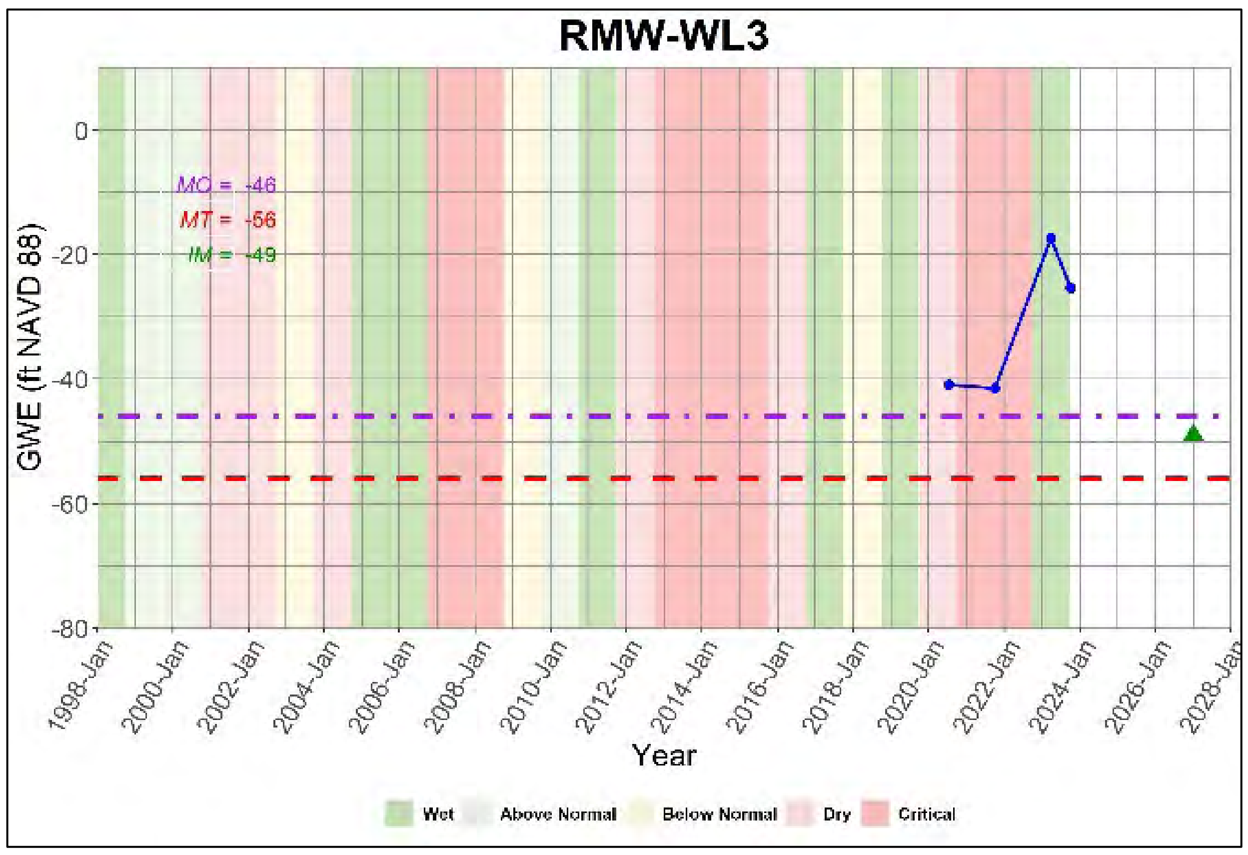


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
City of Galt_MW 1654	RMW-WL2	4/15/2015	100.17	-46.09
City of Galt_MW 1654	RMW-WL2	7/15/2015	109.08	-55
City of Galt_MW 1654	RMW-WL2	10/15/2015	112.33	-58.25
City of Galt_MW 1654	RMW-WL2	1/15/2016	105.5	-51.42
City of Galt_MW 1654	RMW-WL2	4/15/2016	104.5	-50.42
City of Galt_MW 1654	RMW-WL2	7/15/2016	113.5	-59.42
City of Galt_MW 1654	RMW-WL2	10/15/2016	114	-59.92
City of Galt_MW 1654	RMW-WL2	1/15/2017	101	-46.92
City of Galt_MW 1654	RMW-WL2	4/15/2017	107	-52.92
City of Galt_MW 1654	RMW-WL2	7/15/2017	115.17	-61.09
City of Galt_MW 1654	RMW-WL2	10/15/2017	108	-53.92
City of Galt_MW 1654	RMW-WL2	1/15/2018	106.83	-52.75
City of Galt_MW 1654	RMW-WL2	4/2/2018	101	-46.92
City of Galt_MW 1654	RMW-WL2	10/15/2018	112.75	-58.67
City of Galt_MW 1654	RMW-WL2	1/15/2019	104.83	-50.75
City of Galt_MW 1654	RMW-WL2	4/10/2019	100.42	-46.34
City of Galt_MW 1654	RMW-WL2	7/16/2019	109.66	-55.58
City of Galt_MW 1654	RMW-WL2	10/3/2019	133.5	-79.42
City of Galt_MW 1654	RMW-WL2	1/18/2020	104.25	-50.17
City of Galt_MW 1654	RMW-WL2	4/29/2020	102	-47.92
City of Galt_MW 1654	RMW-WL2	7/22/2020	115	-60.92
City of Galt_MW 1654	RMW-WL2	10/12/2020	118	-63.92
City of Galt_MW 1654	RMW-WL2	1/5/2021	108	-53.92
City of Galt_MW 1654	RMW-WL2	4/5/2021	105	-50.92
City of Galt_MW 1654	RMW-WL2	10/1/2021	121.6	-67.52
City of Galt_MW 1654	RMW-WL2	4/1/2022	111	-56.92
City of Galt_MW 1654	RMW-WL2	10/5/2022		NM
City of Galt_MW 1654	RMW-WL2	3/30/2023	114	-59.92
City of Galt_MW 1654	RMW-WL2	10/1/2023	122	-67.92

Site Code: 382567N1213698W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382567N1213698W001
Local Well Name:	Gallo North Well
Monitoring Network Type:	SGMA Representative
Station ID:	57673
Latitude:	38.2567
Longitude:	-121.37
Well Depth (feet bgs):	
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	24.5
Reference Point Elevation:	24.5
Sustainability Indicators:	Groundwater Levels,Groundwater Storage

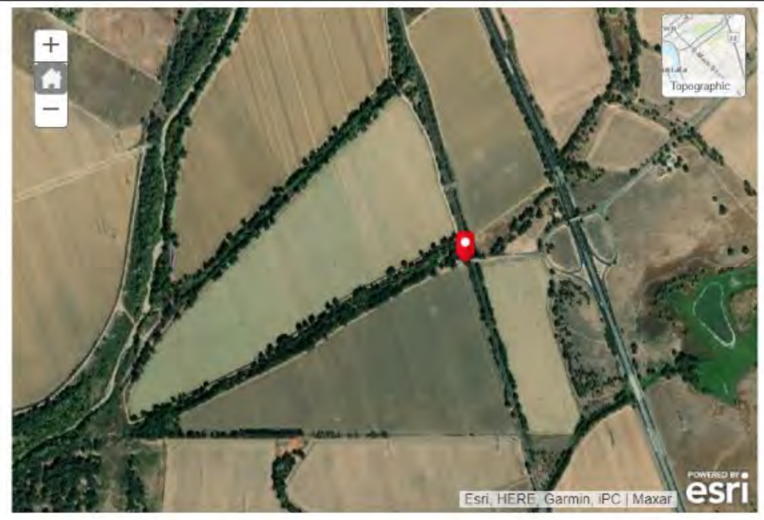


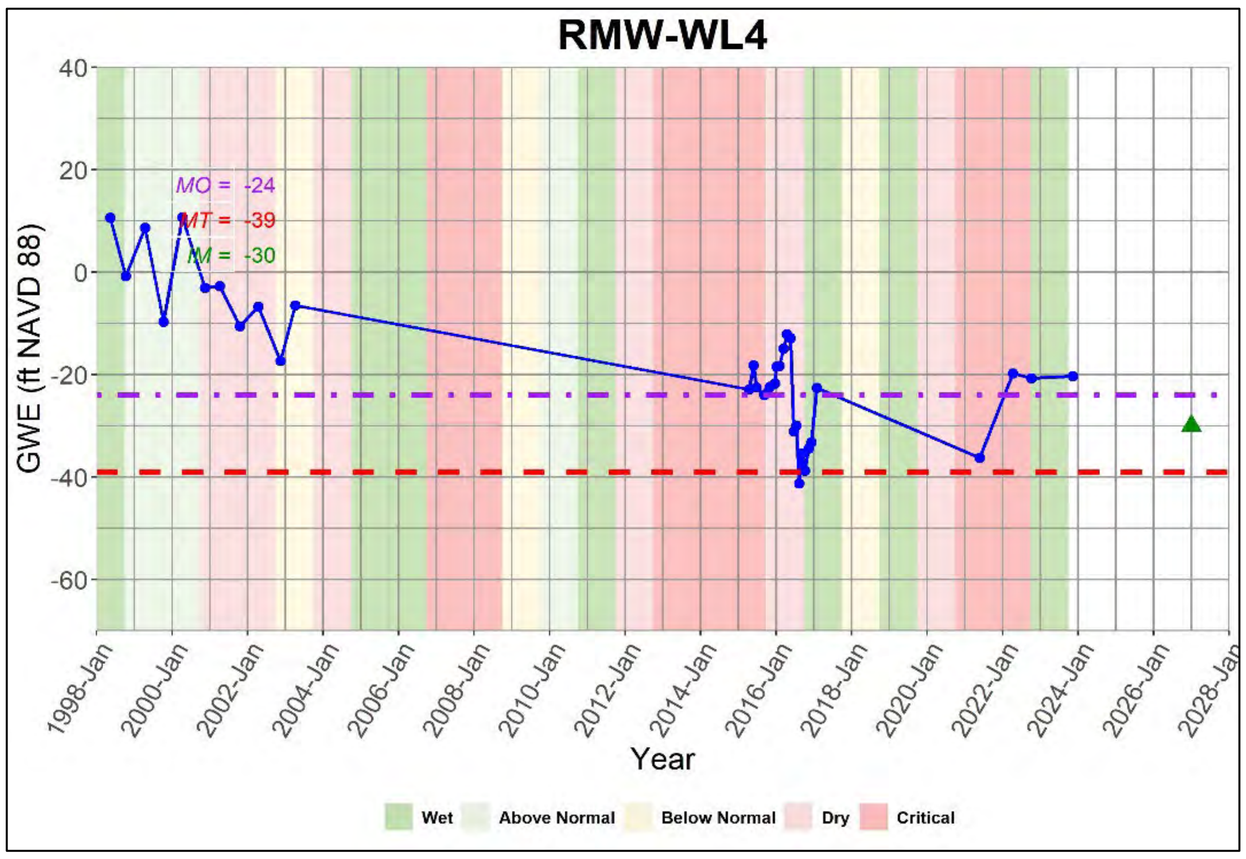


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
Gallo North Well	RMW-WL3	7/14/2020	65.36	-40.86
Gallo North Well	RMW-WL3	10/4/2021	65.93	-41.43
Gallo North Well	RMW-WL3	10/5/2022		NM
Gallo North Well	RMW-WL3	3/27/2023	41.83	-17.33
Gallo North Well	RMW-WL3	10/2/2023	49.82	-25.32

Site Code: 383422N1213404W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	383422N1213404W001
Local Well Name:	06N06E29K001M
Monitoring Network Type:	SGMA Representative
Station ID:	5610
Latitude:	38.3422
Longitude:	-121.34
Well Depth (feet bgs):	600.0
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	35.4
Reference Point Elevation:	36.4
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



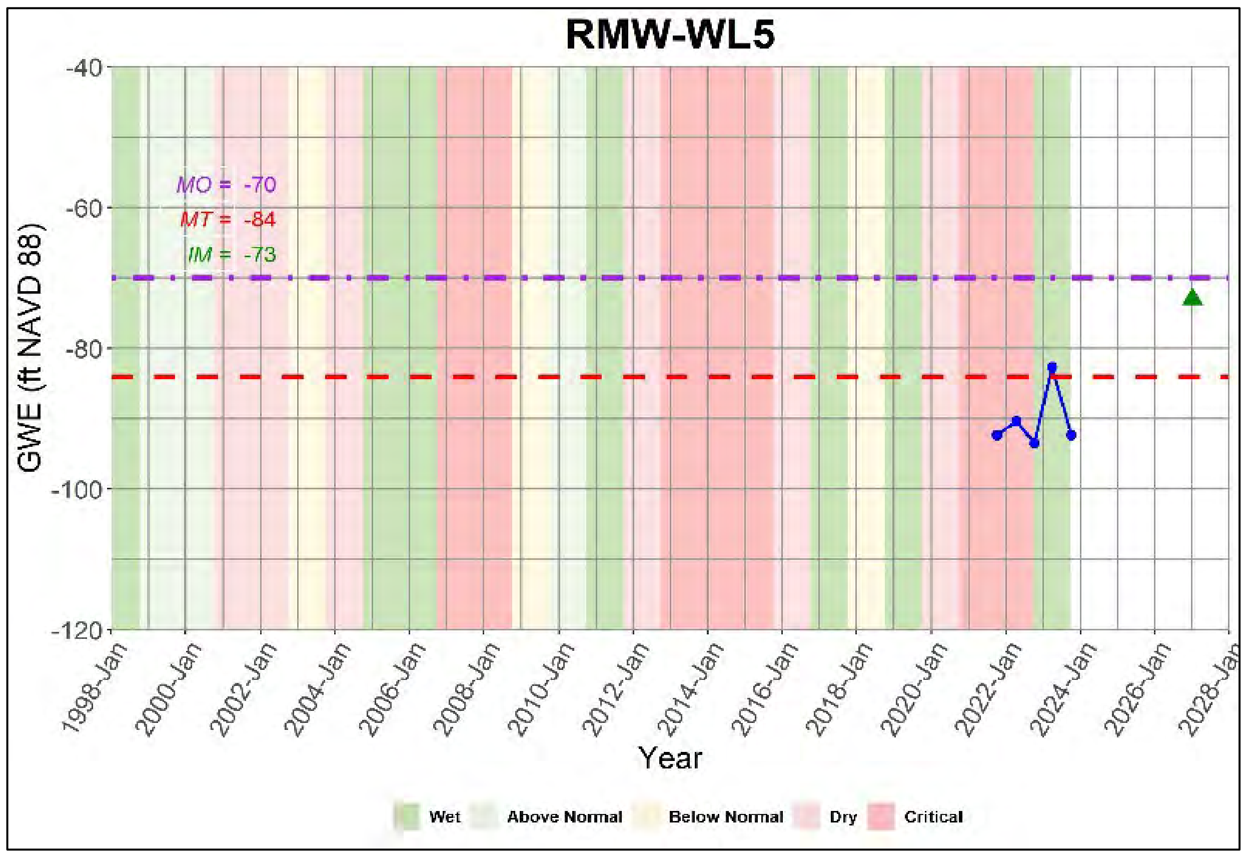


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
06N06E29K001M	RMW-WL4	11/9/1965	41	-4.6
06N06E29K001M	RMW-WL4	3/11/1966	37.4	-1
06N06E29K001M	RMW-WL4	10/6/1966	55.4	-19
06N06E29K001M	RMW-WL4	3/9/1967	39.3	-2.9
06N06E29K001M	RMW-WL4	10/10/1967	42.9	-6.5
06N06E29K001M	RMW-WL4	3/13/1968	38.2	-1.8
06N06E29K001M	RMW-WL4	10/11/1968	51.1	-14.7
06N06E29K001M	RMW-WL4	4/2/1969	31.6	4.8
06N06E29K001M	RMW-WL4	10/17/1969	43.8	-7.4
06N06E29K001M	RMW-WL4	3/24/1970	30.3	6.1
06N06E29K001M	RMW-WL4	10/16/1970	44.9	-8.5
06N06E29K001M	RMW-WL4	3/18/1971	37.8	-1.4
06N06E29K001M	RMW-WL4	10/18/1971	45.4	-9
06N06E29K001M	RMW-WL4	3/10/1972	42	-5.6
06N06E29K001M	RMW-WL4	10/16/1972	52.6	-16.2
06N06E29K001M	RMW-WL4	3/22/1973	36.2	0.2
06N06E29K001M	RMW-WL4	10/16/1973	49.7	-13.3
06N06E29K001M	RMW-WL4	4/17/1974	35	1.4
06N06E29K001M	RMW-WL4	10/17/1974	46.3	-9.9
06N06E29K001M	RMW-WL4	4/10/1975	39.4	-3
06N06E29K001M	RMW-WL4	10/29/1975	46.7	-10.3
06N06E29K001M	RMW-WL4	3/18/1976	46.6	-10.2
06N06E29K001M	RMW-WL4	10/20/1976	56.6	-20.2
06N06E29K001M	RMW-WL4	3/9/1977	56.8	-20.4
06N06E29K001M	RMW-WL4	10/12/1977	70.5	-34.1
06N06E29K001M	RMW-WL4	3/17/1978	55.8	-19.4
06N06E29K001M	RMW-WL4	10/16/1978	58.2	-21.8
06N06E29K001M	RMW-WL4	3/23/1979	49.6	-13.2
06N06E29K001M	RMW-WL4	10/30/1979	58.2	-21.8
06N06E29K001M	RMW-WL4	4/1/1980	34.3	2.1
06N06E29K001M	RMW-WL4	11/6/1980	49.9	-13.5
06N06E29K001M	RMW-WL4	3/24/1981	46.7	-10.3
06N06E29K001M	RMW-WL4	10/20/1981	59.6	-23.2
06N06E29K001M	RMW-WL4	4/23/1982	20.9	15.5
06N06E29K001M	RMW-WL4	11/3/1982	42.4	-6
06N06E29K001M	RMW-WL4	4/21/1983	17.8	18.6
06N06E29K001M	RMW-WL4	12/20/1983	25.6	10.8
06N06E29K001M	RMW-WL4	4/5/1984	23.9	12.5

06N06E29K001M	RMW-WL4	3/22/1985	40.3	-3.9
06N06E29K001M	RMW-WL4	10/15/1985	48.2	-11.8
06N06E29K001M	RMW-WL4	3/18/1986	24.1	12.3
06N06E29K001M	RMW-WL4	10/20/1986	41.2	-4.8
06N06E29K001M	RMW-WL4	3/2/1987	40.4	-4
06N06E29K001M	RMW-WL4	10/16/1987	54.1	-17.7
06N06E29K001M	RMW-WL4	3/14/1988	50.4	-14
06N06E29K001M	RMW-WL4	10/14/1988	54.6	-18.2
06N06E29K001M	RMW-WL4	3/13/1989	56.1	-19.7
06N06E29K001M	RMW-WL4	10/12/1989	57.6	-21.2
06N06E29K001M	RMW-WL4	3/22/1990	56.1	-19.7
06N06E29K001M	RMW-WL4	10/15/1990	64.7	-28.3
06N06E29K001M	RMW-WL4	3/29/1991	61.6	-25.2
06N06E29K001M	RMW-WL4	5/7/1992	78.7	-42.3
06N06E29K001M	RMW-WL4	4/22/1993	49.6	-13.2
06N06E29K001M	RMW-WL4	11/29/1994	66.3	-29.9
06N06E29K001M	RMW-WL4	5/8/1995	33.6	2.8
06N06E29K001M	RMW-WL4	12/19/1995	48.8	-12.4
06N06E29K001M	RMW-WL4	5/2/1996	48	-11.6
06N06E29K001M	RMW-WL4	11/8/1996	51	-14.6
06N06E29K001M	RMW-WL4	3/21/1997	26.5	9.9
06N06E29K001M	RMW-WL4	11/5/1997	50	-13.6
06N06E29K001M	RMW-WL4	5/11/1998	25.8	10.6
06N06E29K001M	RMW-WL4	10/9/1998	37.2	-0.8
06N06E29K001M	RMW-WL4	4/14/1999	27.7	8.7
06N06E29K001M	RMW-WL4	10/12/1999	46.1	-9.7
06N06E29K001M	RMW-WL4	4/12/2000	25.7	10.7
06N06E29K001M	RMW-WL4	11/13/2000	39.4	-3
06N06E29K001M	RMW-WL4	4/8/2001	39.1	-2.7
06N06E29K001M	RMW-WL4	10/19/2001	46.9	-10.5
06N06E29K001M	RMW-WL4	4/15/2002	43.1	-6.7
06N06E29K001M	RMW-WL4	11/14/2002	53.7	-17.3
06N06E29K001M	RMW-WL4	4/9/2003	42.9	-6.5
06N06E29K001M	RMW-WL4	4/14/2015	59.3	-22.9
06N06E29K001M	RMW-WL4	5/28/2015	54.6	-18.2
06N06E29K001M	RMW-WL4	6/25/2015	58.9	-22.5
06N06E29K001M	RMW-WL4	9/11/2015	60.4	-24
06N06E29K001M	RMW-WL4	10/9/2015	59.8	-23.4
06N06E29K001M	RMW-WL4	11/3/2015	58.7	-22.3
06N06E29K001M	RMW-WL4	12/23/2015	58.1	-21.7
06N06E29K001M	RMW-WL4	1/7/2016	54.8	-18.4
06N06E29K001M	RMW-WL4	2/3/2016	54.7	-18.3
06N06E29K001M	RMW-WL4	3/14/2016	51.3	-14.9
06N06E29K001M	RMW-WL4	4/14/2016	48.5	-12.1
06N06E29K001M	RMW-WL4	5/19/2016	49.3	-12.9
06N06E29K001M	RMW-WL4	6/21/2016	67.5	-31.1
06N06E29K001M	RMW-WL4	7/13/2016	66.3	-29.9
06N06E29K001M	RMW-WL4	8/11/2016	77.6	-41.2
06N06E29K001M	RMW-WL4	9/8/2016	71.8	-35.4
06N06E29K001M	RMW-WL4	10/6/2016	75.1	-38.7
06N06E29K001M	RMW-WL4	11/10/2016	70.8	-34.4
06N06E29K001M	RMW-WL4	12/8/2016	69.6	-33.2
06N06E29K001M	RMW-WL4	1/31/2017	59	-22.6
06N06E29K001M	RMW-WL4	5/24/2021	72.64	-36.24
06N06E29K001M	RMW-WL4	4/13/2022	56.13	-19.73
06N06E29K001M	RMW-WL4	10/5/2022	57.12	-20.72
06N06E29K001M	RMW-WL4	3/30/2023		NM
06N06E29K001M	RMW-WL4	11/10/2023	56.7	-20.3

Site Code: 383108N1212124W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

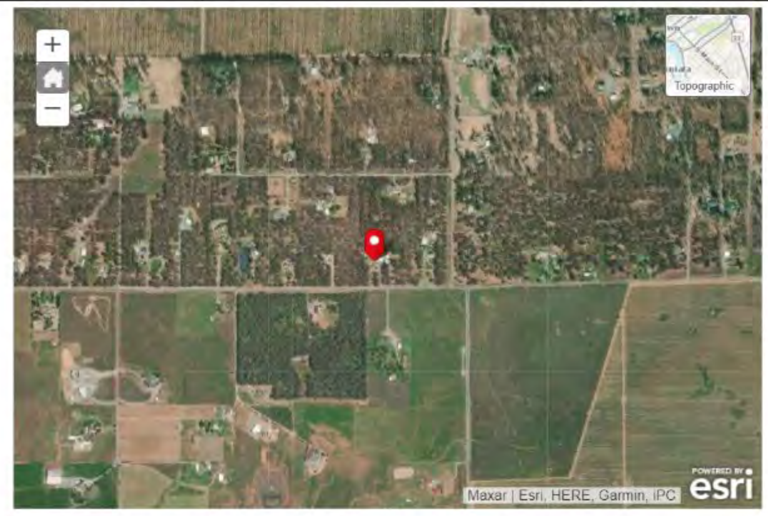
Site Code:	383108N1212124W001
Local Well Name:	SH_Mulrooney
Monitoring Network Type:	SGMA Representative
Station ID:	57674
Latitude:	38.3109
Longitude:	-121.212
Well Depth (feet bgs):	
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	70.3
Reference Point Elevation:	70.3
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality

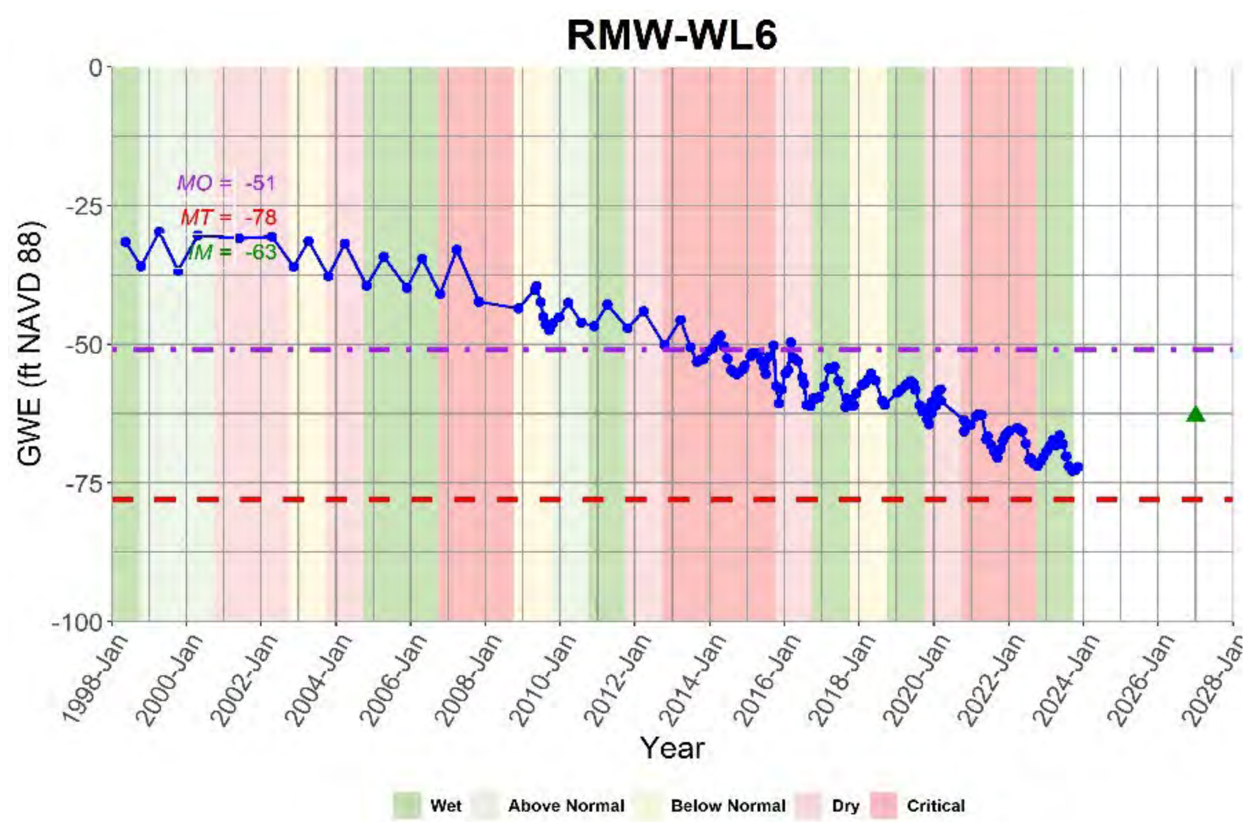


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
SH_Mulrooney	RMW-WL5	10/6/2021	162.61	-92.31
SH_Mulrooney	RMW-WL5	4/13/2022	160.63	-90.33
SH_Mulrooney	RMW-WL5	10/5/2022	163.75	-93.45
SH_Mulrooney	RMW-WL5	3/30/2023	152.98	-82.68
SH_Mulrooney	RMW-WL5	10/2/2023	162.6	-92.3

Site Code: 382936N1211747W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382936N1211747W001
Local Well Name:	USGS-381737121102501
Monitoring Network Type:	SGMA Representative
Station ID:	6248
Latitude:	38.2935
Longitude:	-121.175
Well Depth (feet bgs):	228.0
Top Perforation (feet bgs):	187.0
Bottom Perforation (feet bgs):	228.0
Ground Surface Elevation:	117.29
Reference Point Elevation:	119.29
Sustainability Indicators:	Groundwater Levels,Groundwater Storage





Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
USGS-381737121102501	RMW-WL6	2/15/1968	116	3.29
USGS-381737121102501	RMW-WL6	5/24/1982	148.76	-29.47
USGS-381737121102501	RMW-WL6	10/7/1985	146.9	-27.61
USGS-381737121102501	RMW-WL6	3/18/1986	138.9	-19.61
USGS-381737121102501	RMW-WL6	10/21/1986	143.6	-24.31
USGS-381737121102501	RMW-WL6	3/13/1987	138	-18.71
USGS-381737121102501	RMW-WL6	10/15/1987	143.6	-24.31
USGS-381737121102501	RMW-WL6	3/11/1988	138.1	-18.81
USGS-381737121102501	RMW-WL6	10/14/1988	145.2	-25.91
USGS-381737121102501	RMW-WL6	3/21/1989	139.7	-20.41
USGS-381737121102501	RMW-WL6	10/12/1989	144.2	-24.91
USGS-381737121102501	RMW-WL6	3/20/1990	140.6	-21.31
USGS-381737121102501	RMW-WL6	10/16/1990	148.1	-28.81
USGS-381737121102501	RMW-WL6	3/29/1991	143	-23.71
USGS-381737121102501	RMW-WL6	4/17/1992	149.3	-30.01
USGS-381737121102501	RMW-WL6	5/7/1993	147.4	-28.11
USGS-381737121102501	RMW-WL6	4/13/1994	148.4	-29.11
USGS-381737121102501	RMW-WL6	12/20/1995	153.9	-34.61
USGS-381737121102501	RMW-WL6	5/2/1996	150.5	-31.21
USGS-381737121102501	RMW-WL6	11/12/1996	155.6	-36.31
USGS-381737121102501	RMW-WL6	4/14/1997	152.2	-32.91
USGS-381737121102501	RMW-WL6	11/19/1997	156.7	-37.41
USGS-381737121102501	RMW-WL6	5/13/1998	150.8	-31.51
USGS-381737121102501	RMW-WL6	10/16/1998	155.2	-35.91
USGS-381737121102501	RMW-WL6	4/9/1999	149	-29.71
USGS-381737121102501	RMW-WL6	10/12/1999	156	-36.71
USGS-381737121102501	RMW-WL6	4/21/2000	149.6	-30.31
USGS-381737121102501	RMW-WL6	5/29/2001	150.2	-30.91
USGS-381737121102501	RMW-WL6	4/16/2002	149.9	-30.61
USGS-381737121102501	RMW-WL6	11/15/2002	155.3	-36.01
USGS-381737121102501	RMW-WL6	4/9/2003	150.7	-31.41
USGS-381737121102501	RMW-WL6	10/17/2003	157	-37.71
USGS-381737121102501	RMW-WL6	3/25/2004	151.1	-31.81
USGS-381737121102501	RMW-WL6	10/25/2004	158.7	-39.41
USGS-381737121102501	RMW-WL6	4/14/2005	153.5	-34.21
USGS-381737121102501	RMW-WL6	11/22/2005	159.1	-39.81
USGS-381737121102501	RMW-WL6	4/20/2006	153.9	-34.61
USGS-381737121102501	RMW-WL6	10/16/2006	160.2	-40.91

USGS-381737121102501	RMW-WL6	3/26/2007	152.2	-32.91
USGS-381737121102501	RMW-WL6	10/29/2007	161.6	-42.31
USGS-381737121102501	RMW-WL6	11/18/2008	162.8	-43.51
USGS-381737121102501	RMW-WL6	4/27/2009	159.4	-40.11
USGS-381737121102501	RMW-WL6	5/13/2009	158.8	-39.51
USGS-381737121102501	RMW-WL6	6/23/2009	161.7	-42.41
USGS-381737121102501	RMW-WL6	7/15/2009	164.3	-45.01
USGS-381737121102501	RMW-WL6	8/11/2009	165.7	-46.41
USGS-381737121102501	RMW-WL6	9/15/2009	166.7	-47.41
USGS-381737121102501	RMW-WL6	10/19/2009	165.5	-46.21
USGS-381737121102501	RMW-WL6	12/21/2009	164.4	-45.11
USGS-381737121102501	RMW-WL6	3/18/2010	161.8	-42.51
USGS-381737121102501	RMW-WL6	7/26/2010	165.4	-46.11
USGS-381737121102501	RMW-WL6	11/29/2010	166	-46.71
USGS-381737121102501	RMW-WL6	4/4/2011	162.1	-42.81
USGS-381737121102501	RMW-WL6	10/19/2011	166.4	-47.11
USGS-381737121102501	RMW-WL6	3/26/2012	163.3	-44.01
USGS-381737121102501	RMW-WL6	10/15/2012	169.4	-50.11
USGS-381737121102501	RMW-WL6	3/20/2013	164.9	-45.61
USGS-381737121102501	RMW-WL6	6/26/2013	169.8	-50.51
USGS-381737121102501	RMW-WL6	8/30/2013	172.4	-53.11
USGS-381737121102501	RMW-WL6	9/26/2013	172.1	-52.81
USGS-381737121102501	RMW-WL6	10/31/2013	171.9	-52.61
USGS-381737121102501	RMW-WL6	12/4/2013	170.6	-51.31
USGS-381737121102501	RMW-WL6	1/28/2014	170	-50.71
USGS-381737121102501	RMW-WL6	2/24/2014	168.8	-49.51
USGS-381737121102501	RMW-WL6	3/19/2014	168.3	-49.01
USGS-381737121102501	RMW-WL6	4/17/2014	167.7	-48.41
USGS-381737121102501	RMW-WL6	5/20/2014	169.7	-50.41
USGS-381737121102501	RMW-WL6	6/24/2014	171.8	-52.51
USGS-381737121102501	RMW-WL6	7/30/2014	173.9	-54.61
USGS-381737121102501	RMW-WL6	8/20/2014	174.3	-55.01
USGS-381737121102501	RMW-WL6	9/22/2014	174.7	-55.41
USGS-381737121102501	RMW-WL6	10/14/2014	174.4	-55.11
USGS-381737121102501	RMW-WL6	11/25/2014	173.7	-54.41
USGS-381737121102501	RMW-WL6	12/9/2014	173.1	-53.81
USGS-381737121102501	RMW-WL6	2/2/2015	171.4	-52.11
USGS-381737121102501	RMW-WL6	2/18/2015	170.9	-51.61
USGS-381737121102501	RMW-WL6	3/23/2015	170.9	-51.61
USGS-381737121102501	RMW-WL6	4/27/2015	170.8	-51.51
USGS-381737121102501	RMW-WL6	5/18/2015	172.2	-52.91
USGS-381737121102501	RMW-WL6	6/17/2015	173.3	-54.01
USGS-381737121102501	RMW-WL6	7/3/2015	174.6	-55.31
USGS-381737121102501	RMW-WL6	8/4/2015	171.5	-52.21
USGS-381737121102501	RMW-WL6	9/14/2015	169.5	-50.21
USGS-381737121102501	RMW-WL6	10/8/2015	176.8	-57.51
USGS-381737121102501	RMW-WL6	11/9/2015	179.9	-60.61
USGS-381737121102501	RMW-WL6	12/7/2015	177.4	-58.11
USGS-381737121102501	RMW-WL6	1/11/2016	174.5	-55.21
USGS-381737121102501	RMW-WL6	2/4/2016	174	-54.71
USGS-381737121102501	RMW-WL6	3/2/2016	168.9	-49.61
USGS-381737121102501	RMW-WL6	4/11/2016	171.9	-52.61
USGS-381737121102501	RMW-WL6	5/9/2016	172.3	-53.01
USGS-381737121102501	RMW-WL6	6/23/2016	175.2	-55.91
USGS-381737121102501	RMW-WL6	7/11/2016	176.4	-57.11
USGS-381737121102501	RMW-WL6	8/4/2016	180.2	-60.91
USGS-381737121102501	RMW-WL6	9/6/2016	180.4	-61.11
USGS-381737121102501	RMW-WL6	10/4/2016	179	-59.71
USGS-381737121102501	RMW-WL6	11/3/2016	179.1	-59.81
USGS-381737121102501	RMW-WL6	12/7/2016	178.8	-59.51
USGS-381737121102501	RMW-WL6	1/24/2017	176.9	-57.61
USGS-381737121102501	RMW-WL6	3/13/2017	173.6	-54.31
USGS-381737121102501	RMW-WL6	4/5/2017	173.7	-54.41
USGS-381737121102501	RMW-WL6	5/2/2017	173.3	-54.01
USGS-381737121102501	RMW-WL6	6/14/2017	175.9	-56.61
USGS-381737121102501	RMW-WL6	8/21/2017	180.6	-61.31
USGS-381737121102501	RMW-WL6	8/28/2017	179	-59.71
USGS-381737121102501	RMW-WL6	9/28/2017	179.2	-59.91
USGS-381737121102501	RMW-WL6	10/12/2017	180.4	-61.11
USGS-381737121102501	RMW-WL6	11/8/2017	180.3	-61.01
USGS-381737121102501	RMW-WL6	12/4/2017	178.1	-58.81
USGS-381737121102501	RMW-WL6	1/29/2018	176.6	-57.31
USGS-381737121102501	RMW-WL6	2/23/2018	176.3	-57.01
USGS-381737121102501	RMW-WL6	3/26/2018	175.6	-56.31
USGS-381737121102501	RMW-WL6	4/27/2018	174.5	-55.21
USGS-381737121102501	RMW-WL6	6/7/2018	175.8	-56.51
USGS-381737121102501	RMW-WL6	8/13/2018	179.4	-60.11
USGS-381737121102501	RMW-WL6	9/5/2018	180.2	-60.91
USGS-381737121102501	RMW-WL6	1/9/2019	178	-58.71

USGS-381737121102501	RMW-WL6	2/12/2019	177.4	-58.11
USGS-381737121102501	RMW-WL6	4/3/2019	176.6	-57.31
USGS-381737121102501	RMW-WL6	5/17/2019	175.9	-56.61
USGS-381737121102501	RMW-WL6	6/13/2019	176.3	-57.01
USGS-381737121102501	RMW-WL6	7/5/2019	177.5	-58.21
USGS-381737121102501	RMW-WL6	8/14/2019	180.3	-61.01
USGS-381737121102501	RMW-WL6	9/11/2019	181.4	-62.11
USGS-381737121102501	RMW-WL6	10/23/2019	180.8	-61.51
USGS-381737121102501	RMW-WL6	11/12/2019	181.7	-62.41
USGS-381737121102501	RMW-WL6	12/9/2019	179.7	-60.41
USGS-381737121102501	RMW-WL6	1/22/2020	178.3	-59.01
USGS-381737121102501	RMW-WL6	2/18/2020	177.5	-58.21
USGS-381737121102501	RMW-WL6	3/4/2020	177.4	-58.11
USGS-381737121102501	RMW-WL6	10/22/2020	183	-63.71
USGS-381737121102501	RMW-WL6	3/20/1990	140.6	-21.31
USGS-381737121102501	RMW-WL6	10/16/1990	148.1	-28.81
USGS-381737121102501	RMW-WL6	3/29/1991	143	-23.71
USGS-381737121102501	RMW-WL6	4/17/1992	149.3	-30.01
USGS-381737121102501	RMW-WL6	5/7/1993	147.4	-28.11
USGS-381737121102501	RMW-WL6	4/13/1994	148.4	-29.11
USGS-381737121102501	RMW-WL6	12/20/1995	153.9	-34.61
USGS-381737121102501	RMW-WL6	5/2/1996	150.5	-31.21
USGS-381737121102501	RMW-WL6	11/12/1996	155.6	-36.31
USGS-381737121102501	RMW-WL6	4/14/1997	152.2	-32.91
USGS-381737121102501	RMW-WL6	11/19/1997	156.7	-37.41
USGS-381737121102501	RMW-WL6	5/13/1998	150.8	-31.51
USGS-381737121102501	RMW-WL6	10/16/1998	155.2	-35.91
USGS-381737121102501	RMW-WL6	4/9/1999	149	-29.71
USGS-381737121102501	RMW-WL6	10/12/1999	156	-36.71
USGS-381737121102501	RMW-WL6	4/21/2000	149.6	-30.31
USGS-381737121102501	RMW-WL6	5/29/2001	150.2	-30.91
USGS-381737121102501	RMW-WL6	4/16/2002	149.9	-30.61
USGS-381737121102501	RMW-WL6	11/15/2002	155.3	-36.01
USGS-381737121102501	RMW-WL6	4/9/2003	150.7	-31.41
USGS-381737121102501	RMW-WL6	10/17/2003	157	-37.71
USGS-381737121102501	RMW-WL6	3/25/2004	151.1	-31.81
USGS-381737121102501	RMW-WL6	10/25/2004	158.7	-39.41
USGS-381737121102501	RMW-WL6	4/14/2005	153.5	-34.21
USGS-381737121102501	RMW-WL6	11/22/2005	159.1	-39.81
USGS-381737121102501	RMW-WL6	4/20/2006	153.9	-34.61
USGS-381737121102501	RMW-WL6	10/16/2006	160.2	-40.91
USGS-381737121102501	RMW-WL6	3/26/2007	152.2	-32.91
USGS-381737121102501	RMW-WL6	10/29/2007	161.6	-42.31
USGS-381737121102501	RMW-WL6	11/18/2008	162.8	-43.51
USGS-381737121102501	RMW-WL6	4/27/2009	159.4	-40.11
USGS-381737121102501	RMW-WL6	5/13/2009	158.8	-39.51
USGS-381737121102501	RMW-WL6	6/23/2009	161.7	-42.41
USGS-381737121102501	RMW-WL6	7/15/2009	164.3	-45.01
USGS-381737121102501	RMW-WL6	8/11/2009	165.7	-46.41
USGS-381737121102501	RMW-WL6	9/15/2009	166.7	-47.41
USGS-381737121102501	RMW-WL6	10/19/2009	165.5	-46.21
USGS-381737121102501	RMW-WL6	12/21/2009	164.4	-45.11
USGS-381737121102501	RMW-WL6	3/18/2010	161.8	-42.51
USGS-381737121102501	RMW-WL6	7/26/2010	165.4	-46.11
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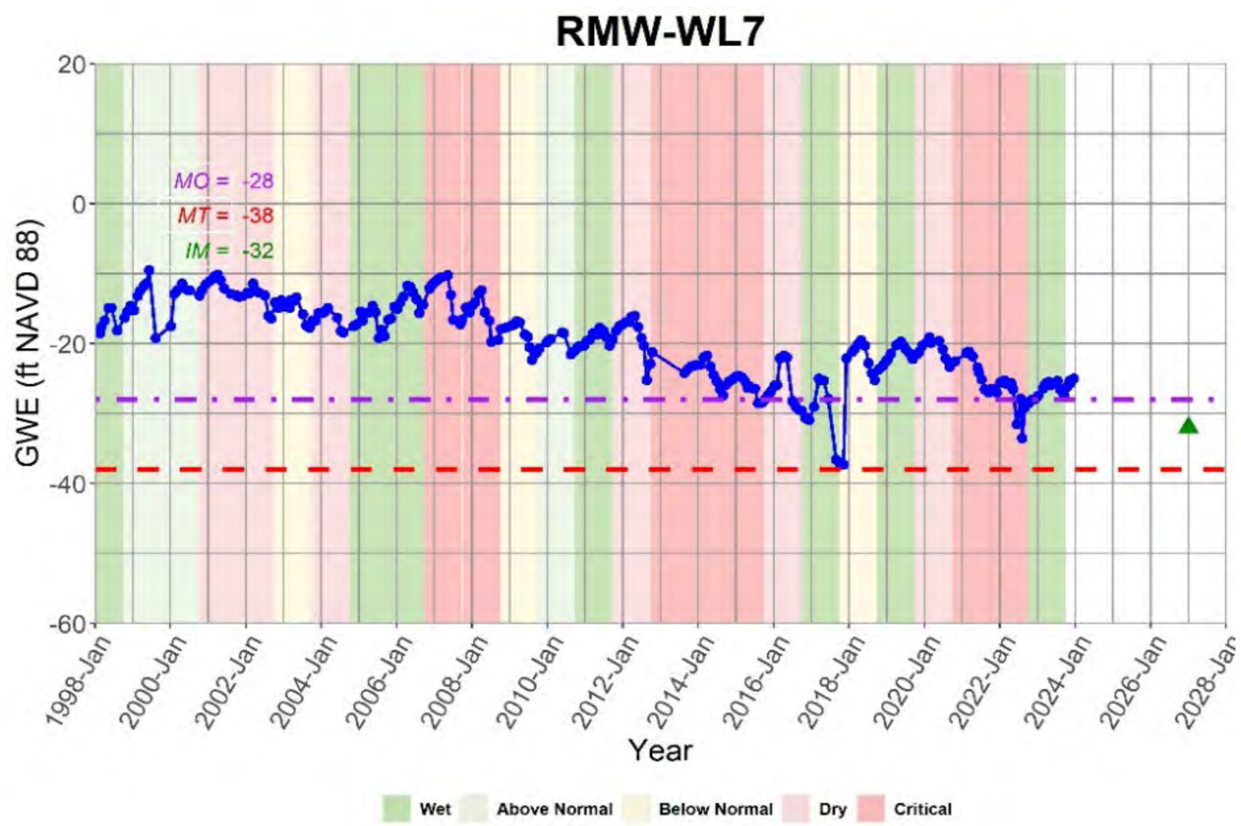
USGS-381737121102501	RMW-WL6	10/19/2011	166.4	-47.11
USGS-381737121102501	RMW-WL6	3/26/2012	163.3	-44.01
USGS-381737121102501	RMW-WL6	10/15/2012	169.4	-50.11
USGS-381737121102501	RMW-WL6	3/20/2013	164.9	-45.61
USGS-381737121102501	RMW-WL6	6/26/2013	169.8	-50.51
USGS-381737121102501	RMW-WL6	8/30/2013	172.4	-53.11
USGS-381737121102501	RMW-WL6	9/26/2013	172.1	-52.81
USGS-381737121102501	RMW-WL6	10/31/2013	171.9	-52.61
USGS-381737121102501	RMW-WL6	12/4/2013	170.6	-51.31
USGS-381737121102501	RMW-WL6	1/28/2014	170	-50.71
USGS-381737121102501	RMW-WL6	2/24/2014	168.8	-49.51
USGS-381737121102501	RMW-WL6	3/19/2014	168.3	-49.01
USGS-381737121102501	RMW-WL6	4/17/2014	167.7	-48.41
USGS-381737121102501	RMW-WL6	5/20/2014	169.7	-50.41
USGS-381737121102501	RMW-WL6	6/24/2014	171.8	-52.51
USGS-381737121102501	RMW-WL6	7/30/2014	173.9	-54.61
USGS-381737121102501	RMW-WL6	8/20/2014	174.3	-55.01
USGS-381737121102501	RMW-WL6	9/22/2014	174.7	-55.41
USGS-381737121102501	RMW-WL6	10/14/2014	174.4	-55.11
USGS-381737121102501	RMW-WL6	11/25/2014	173.7	-54.41
USGS-381737121102501	RMW-WL6	12/9/2014	173.1	-53.81
USGS-381737121102501	RMW-WL6	2/2/2015	171.4	-52.11
USGS-381737121102501	RMW-WL6	2/18/2015	170.9	-51.61

USGS-381737121102501	RMW-WL6	3/23/2015	170.9	-51.61
USGS-381737121102501	RMW-WL6	4/27/2015	170.8	-51.51
USGS-381737121102501	RMW-WL6	5/18/2015	172.2	-52.91
USGS-381737121102501	RMW-WL6	6/17/2015	173.3	-54.01
USGS-381737121102501	RMW-WL6	7/3/2015	174.6	-55.31
USGS-381737121102501	RMW-WL6	8/4/2015	171.5	-52.21
USGS-381737121102501	RMW-WL6	9/14/2015	169.5	-50.21
USGS-381737121102501	RMW-WL6	10/8/2015	176.8	-57.51
USGS-381737121102501	RMW-WL6	11/9/2015	179.9	-60.61
USGS-381737121102501	RMW-WL6	12/7/2015	177.4	-58.11
USGS-381737121102501	RMW-WL6	1/11/2016	174.5	-55.21
USGS-381737121102501	RMW-WL6	2/4/2016	174	-54.71
USGS-381737121102501	RMW-WL6	3/2/2016	168.9	-49.61
USGS-381737121102501	RMW-WL6	4/11/2016	171.9	-52.61
USGS-381737121102501	RMW-WL6	5/9/2016	172.3	-53.01
USGS-381737121102501	RMW-WL6	6/23/2016	175.2	-55.91
USGS-381737121102501	RMW-WL6	7/11/2016	176.4	-57.11
USGS-381737121102501	RMW-WL6	8/4/2016	180.2	-60.91
USGS-381737121102501	RMW-WL6	9/6/2016	180.4	-61.11
USGS-381737121102501	RMW-WL6	10/4/2016	179	-59.71
USGS-381737121102501	RMW-WL6	11/3/2016	179.1	-59.81
USGS-381737121102501	RMW-WL6	12/7/2016	178.8	-59.51
USGS-381737121102501	RMW-WL6	1/24/2017	176.9	-57.61
USGS-381737121102501	RMW-WL6	3/13/2017	173.6	-54.31
USGS-381737121102501	RMW-WL6	4/5/2017	173.7	-54.41
USGS-381737121102501	RMW-WL6	5/2/2017	173.3	-54.01
USGS-381737121102501	RMW-WL6	6/14/2017	175.9	-56.61
USGS-381737121102501	RMW-WL6	8/28/2017	179	-59.71
USGS-381737121102501	RMW-WL6	9/28/2017	179.2	-59.91
USGS-381737121102501	RMW-WL6	10/12/2017	180.4	-61.11
USGS-381737121102501	RMW-WL6	11/8/2017	180.3	-61.01
USGS-381737121102501	RMW-WL6	12/4/2017	178.1	-58.81
USGS-381737121102501	RMW-WL6	1/29/2018	176.6	-57.31
USGS-381737121102501	RMW-WL6	2/23/2018	176.3	-57.01
USGS-381737121102501	RMW-WL6	3/26/2018	175.6	-56.31
USGS-381737121102501	RMW-WL6	6/7/2018	175.8	-56.51
USGS-381737121102501	RMW-WL6	8/13/2018	179.4	-60.11
USGS-381737121102501	RMW-WL6	1/9/2019	178	-58.71
USGS-381737121102501	RMW-WL6	2/12/2019	177.4	-58.11
USGS-381737121102501	RMW-WL6	4/3/2019	176.6	-57.31
USGS-381737121102501	RMW-WL6	5/17/2019	175.9	-56.61
USGS-381737121102501	RMW-WL6	6/13/2019	176.3	-57.01
USGS-381737121102501	RMW-WL6	7/5/2019	177.5	-58.21
USGS-381737121102501	RMW-WL6	8/14/2019	180.3	-61.01
USGS-381737121102501	RMW-WL6	9/11/2019	181.4	-62.11
USGS-381737121102501	RMW-WL6	10/23/2019	180.8	-61.51
USGS-381737121102501	RMW-WL6	11/12/2019	181.7	-62.41
USGS-381737121102501	RMW-WL6	12/9/2019	179.7	-60.41
USGS-381737121102501	RMW-WL6	1/22/2020	178.3	-59.01
USGS-381737121102501	RMW-WL6	2/18/2020	177.5	-58.21
USGS-381737121102501	RMW-WL6	3/4/2020	177.4	-58.11
USGS-381737121102501	RMW-WL6	10/22/2020	183	-63.71
USGS-381737121102501	RMW-WL6	10/23/2019	182.8	-63.51
USGS-381737121102501	RMW-WL6	11/12/2019	183.7	-64.41
USGS-381737121102501	RMW-WL6	12/9/2019	181.7	-62.41
USGS-381737121102501	RMW-WL6	1/22/2020	180.3	-61.01
USGS-381737121102501	RMW-WL6	2/18/2020	179.5	-60.21
USGS-381737121102501	RMW-WL6	3/4/2020	179.4	-60.11
USGS-381737121102501	RMW-WL6	10/22/2020	185	-65.71
USGS-381737121102501	RMW-WL6	12/22/2020	183.8	-64.51
USGS-381737121102501	RMW-WL6	2/10/2021	182.3	-63.01
USGS-381737121102501	RMW-WL6	3/8/2021	181.9	-62.61
USGS-381737121102501	RMW-WL6	4/12/2021	182	-62.71
USGS-381737121102501	RMW-WL6	5/25/2021	186.4	-67.11
USGS-381737121102501	RMW-WL6	6/8/2021	185.8	-66.51
USGS-381737121102501	RMW-WL6	7/8/2021	187.4	-68.11
USGS-381737121102501	RMW-WL6	8/9/2021	188.6	-69.31
USGS-381737121102501	RMW-WL6	9/13/2021	189.7	-70.41
USGS-381737121102501	RMW-WL6	10/8/2021	188.2	-68.91
USGS-381737121102501	RMW-WL6	11/3/2021	186.7	-67.41
USGS-381737121102501	RMW-WL6	12/1/2021	185.6	-66.31
USGS-381737121102501	RMW-WL6	1/4/2022	184.9	-65.61
USGS-381737121102501	RMW-WL6	3/25/2022	184.3	-65.01
USGS-381737121102501	RMW-WL6	4/18/2022	184.6	-65.31
USGS-381737121102501	RMW-WL6	5/9/2022	185	-65.71
USGS-381737121102501	RMW-WL6	6/15/2022	187.2	-67.91
USGS-381737121102501	RMW-WL6	7/18/2022	190.1	-70.81
USGS-381737121102501	RMW-WL6	8/4/2022	189.8	-70.51
USGS-381737121102501	RMW-WL6	9/1/2022	190.8	-71.51

USGS-381737121102501	RMW-WL6	10/5/2022	#VALUE!	NM
USGS-381737121102501	RMW-WL6	10/5/2022	191.2	-71.91
USGS-381737121102501	RMW-WL6	11/7/2022	190.34	-71.05
USGS-381737121102501	RMW-WL6	12/7/2022	189.5	-70.21
USGS-381737121102501	RMW-WL6	1/6/2023	188.52	-69.23
USGS-381737121102501	RMW-WL6	2/8/2023	187.5	-68.21
USGS-381737121102501	RMW-WL6	3/9/2023	186.48	-67.19
USGS-381737121102501	RMW-WL6	4/6/2023	187.448	-68.158
USGS-381737121102501	RMW-WL6	4/7/2023	186.48	-67.19
USGS-381737121102501	RMW-WL6	5/10/2023	185.65	-66.36
USGS-381737121102501	RMW-WL6	6/14/2023	187.25	-67.96
USGS-381737121102501	RMW-WL6	7/13/2023	189.48	-70.19
USGS-381737121102501	RMW-WL6	8/10/2023	191.3	-72.01
USGS-381737121102501	RMW-WL6	9/12/2023	192.05	-72.76
USGS-381737121102501	RMW-WL6	10/11/2023	192	-72.71
USGS-381737121102501	RMW-WL6	11/9/2023	191.35	-72.06

Site Code: 383264N1213191W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	383264N1213191W001
Local Well Name:	06N06E33J002M
Monitoring Network Type:	SGMA Representative
Station ID:	27447
Latitude:	38.3262
Longitude:	-121.319
Well Depth (feet bgs):	167.0
Top Perforation (feet bgs):	80.0
Bottom Perforation (feet bgs):	167.0
Ground Surface Elevation:	48.1
Reference Point Elevation:	48.5
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
06N06E33J002M	RMW-WL7	9/25/1958	43.4	5.1
06N06E33J002M	RMW-WL7	7/22/1966	61.5	-13
06N06E33J002M	RMW-WL7	8/25/1966	61	-12.5
06N06E33J002M	RMW-WL7	9/27/1966	63.7	-15.2
06N06E33J002M	RMW-WL7	10/25/1966	61.2	-12.7
06N06E33J002M	RMW-WL7	11/29/1966	58	-9.5
06N06E33J002M	RMW-WL7	12/28/1966	57.4	-8.9
06N06E33J002M	RMW-WL7	1/26/1967	57.4	-8.9
06N06E33J002M	RMW-WL7	2/23/1967	56.7	-8.2
06N06E33J002M	RMW-WL7	3/28/1967	56.1	-7.6
06N06E33J002M	RMW-WL7	4/25/1967	55.2	-6.7
06N06E33J002M	RMW-WL7	5/25/1967	58.7	-10.2
06N06E33J002M	RMW-WL7	6/27/1967	57.9	-9.4
06N06E33J002M	RMW-WL7	7/26/1967	61.3	-12.8
06N06E33J002M	RMW-WL7	8/29/1967	60.7	-12.2
06N06E33J002M	RMW-WL7	9/26/1967	59	-10.5
06N06E33J002M	RMW-WL7	10/25/1967	58.5	-10
06N06E33J002M	RMW-WL7	11/27/1967	57.3	-8.8
06N06E33J002M	RMW-WL7	12/27/1967	56.6	-8.1
06N06E33J002M	RMW-WL7	1/26/1968	56.2	-7.7
06N06E33J002M	RMW-WL7	2/26/1968	55.8	-7.3
06N06E33J002M	RMW-WL7	3/21/1968	55.2	-6.7
06N06E33J002M	RMW-WL7	4/26/1968	58.5	-10
06N06E33J002M	RMW-WL7	5/27/1968	61	-12.5
06N06E33J002M	RMW-WL7	6/26/1968	61	-12.5
06N06E33J002M	RMW-WL7	7/26/1968	61.8	-13.3
06N06E33J002M	RMW-WL7	8/27/1968	62.4	-13.9
06N06E33J002M	RMW-WL7	9/25/1968	65	-16.5
06N06E33J002M	RMW-WL7	10/29/1968	60	-11.5
06N06E33J002M	RMW-WL7	11/26/1968	59.3	-10.8
06N06E33J002M	RMW-WL7	12/24/1968	59	-10.5
06N06E33J002M	RMW-WL7	1/28/1969	58.4	-9.9
06N06E33J002M	RMW-WL7	2/25/1969	57.6	-9.1
06N06E33J002M	RMW-WL7	3/24/1969	56.7	-8.2
06N06E33J002M	RMW-WL7	4/23/1969	57.7	-9.2
06N06E33J002M	RMW-WL7	5/27/1969	62	-13.5
06N06E33J002M	RMW-WL7	6/25/1969	63	-14.5
06N06E33J002M	RMW-WL7	7/28/1969	64.6	-16.1

06N06E33J002M	RMW-WL7	8/27/1969	65.4	-16.9
06N06E33J002M	RMW-WL7	9/29/1969	65.9	-17.4
06N06E33J002M	RMW-WL7	10/29/1969	59.6	-11.1
06N06E33J002M	RMW-WL7	11/25/1969	58.7	-10.2
06N06E33J002M	RMW-WL7	12/29/1969	58.3	-9.8
06N06E33J002M	RMW-WL7	1/28/1970	57.7	-9.2
06N06E33J002M	RMW-WL7	2/25/1970	56.9	-8.4
06N06E33J002M	RMW-WL7	3/30/1970	57	-8.5
06N06E33J002M	RMW-WL7	4/27/1970	58.1	-9.6
06N06E33J002M	RMW-WL7	5/28/1970	59.8	-11.3
06N06E33J002M	RMW-WL7	6/29/1970	63.6	-15.1
06N06E33J002M	RMW-WL7	7/30/1970	62.8	-14.3
06N06E33J002M	RMW-WL7	8/27/1970	62.3	-13.8
06N06E33J002M	RMW-WL7	9/29/1970	59.5	-11
06N06E33J002M	RMW-WL7	10/28/1970	60.6	-12.1
06N06E33J002M	RMW-WL7	11/24/1970	59.7	-11.2
06N06E33J002M	RMW-WL7	12/28/1970	58.8	-10.3
06N06E33J002M	RMW-WL7	1/26/1971	58.1	-9.6
06N06E33J002M	RMW-WL7	2/24/1971	57.5	-9
06N06E33J002M	RMW-WL7	3/30/1971	57.4	-8.9
06N06E33J002M	RMW-WL7	4/28/1971	59.5	-11
06N06E33J002M	RMW-WL7	6/29/1971	64	-15.5
06N06E33J002M	RMW-WL7	7/29/1971	63.3	-14.8
06N06E33J002M	RMW-WL7	8/30/1971	63.7	-15.2
06N06E33J002M	RMW-WL7	9/29/1971	63.9	-15.4
06N06E33J002M	RMW-WL7	10/28/1971	61.5	-13
06N06E33J002M	RMW-WL7	11/29/1971	60.7	-12.2
06N06E33J002M	RMW-WL7	12/29/1971	60.4	-11.9
06N06E33J002M	RMW-WL7	1/26/1972	59.9	-11.4
06N06E33J002M	RMW-WL7	2/28/1972	59.5	-11
06N06E33J002M	RMW-WL7	3/29/1972	66	-17.5
06N06E33J002M	RMW-WL7	4/27/1972	65	-16.5
06N06E33J002M	RMW-WL7	5/30/1972	66.9	-18.4
06N06E33J002M	RMW-WL7	6/29/1972	64.9	-16.4
06N06E33J002M	RMW-WL7	7/27/1972	69.1	-20.6
06N06E33J002M	RMW-WL7	8/29/1972	67.7	-19.2
06N06E33J002M	RMW-WL7	9/28/1972	65	-16.5
06N06E33J002M	RMW-WL7	10/30/1972	63.8	-15.3
06N06E33J002M	RMW-WL7	11/28/1972	63.4	-14.9
06N06E33J002M	RMW-WL7	12/27/1972	63	-14.5
06N06E33J002M	RMW-WL7	1/30/1973	62.5	-14
06N06E33J002M	RMW-WL7	2/27/1973	61.7	-13.2
06N06E33J002M	RMW-WL7	3/30/1973	60.8	-12.3
06N06E33J002M	RMW-WL7	4/26/1973	62.9	-14.4
06N06E33J002M	RMW-WL7	5/30/1973	66.9	-18.4
06N06E33J002M	RMW-WL7	6/28/1973	67.9	-19.4
06N06E33J002M	RMW-WL7	7/30/1973	71.5	-23
06N06E33J002M	RMW-WL7	8/30/1973	70.5	-22
06N06E33J002M	RMW-WL7	9/27/1973	69.8	-21.3
06N06E33J002M	RMW-WL7	10/30/1973	64.2	-15.7
06N06E33J002M	RMW-WL7	11/28/1973	63.5	-15
06N06E33J002M	RMW-WL7	12/26/1973	63	-14.5
06N06E33J002M	RMW-WL7	1/31/1974	62.3	-13.8
06N06E33J002M	RMW-WL7	2/27/1974	61.7	-13.2
06N06E33J002M	RMW-WL7	3/28/1974	61.2	-12.7
06N06E33J002M	RMW-WL7	4/25/1974	60.7	-12.2
06N06E33J002M	RMW-WL7	5/30/1974	65.6	-17.1
06N06E33J002M	RMW-WL7	6/27/1974	67.2	-18.7
06N06E33J002M	RMW-WL7	7/29/1974	69.4	-20.9
06N06E33J002M	RMW-WL7	8/29/1974	69.6	-21.1
06N06E33J002M	RMW-WL7	9/26/1974	65.2	-16.7
06N06E33J002M	RMW-WL7	10/30/1974	64.8	-16.3
06N06E33J002M	RMW-WL7	11/26/1974	63.3	-14.8
06N06E33J002M	RMW-WL7	12/26/1974	62.7	-14.2
06N06E33J002M	RMW-WL7	1/28/1975	62.1	-13.6
06N06E33J002M	RMW-WL7	2/27/1975	61.7	-13.2
06N06E33J002M	RMW-WL7	3/27/1975	61.5	-13
06N06E33J002M	RMW-WL7	4/29/1975	61.9	-13.4
06N06E33J002M	RMW-WL7	5/29/1975	65	-16.5
06N06E33J002M	RMW-WL7	6/24/1975	68.5	-20
06N06E33J002M	RMW-WL7	8/28/1975	68.1	-19.6
06N06E33J002M	RMW-WL7	9/29/1975	70.1	-21.6
06N06E33J002M	RMW-WL7	10/28/1975	64.9	-16.4
06N06E33J002M	RMW-WL7	11/25/1975	64.3	-15.8
06N06E33J002M	RMW-WL7	12/29/1975	63.7	-15.2
06N06E33J002M	RMW-WL7	1/28/1976	66.2	-17.7
06N06E33J002M	RMW-WL7	2/25/1976	64	-15.5
06N06E33J002M	RMW-WL7	3/31/1976	65.7	-17.2
06N06E33J002M	RMW-WL7	4/28/1976	69.1	-20.6

06N06E33J002M	RMW-WL7	5/27/1976	71.8	-23.3
06N06E33J002M	RMW-WL7	7/5/1976	73.4	-24.9
06N06E33J002M	RMW-WL7	7/29/1976	75.3	-26.8
06N06E33J002M	RMW-WL7	8/31/1976	75.7	-27.2
06N06E33J002M	RMW-WL7	9/29/1976	68.8	-20.3
06N06E33J002M	RMW-WL7	10/28/1976	71.8	-23.3
06N06E33J002M	RMW-WL7	11/29/1976	68	-19.5
06N06E33J002M	RMW-WL7	12/29/1976	70.7	-22.2
06N06E33J002M	RMW-WL7	1/27/1977	68.2	-19.7
06N06E33J002M	RMW-WL7	2/25/1977	67.9	-19.4
06N06E33J002M	RMW-WL7	3/24/1977	68.9	-20.4
06N06E33J002M	RMW-WL7	4/26/1977	70.5	-22
06N06E33J002M	RMW-WL7	5/24/1977	73.7	-25.2
06N06E33J002M	RMW-WL7	6/28/1977	74.2	-25.7
06N06E33J002M	RMW-WL7	7/27/1977	76	-27.5
06N06E33J002M	RMW-WL7	8/29/1977	78	-29.5
06N06E33J002M	RMW-WL7	9/27/1977	75.2	-26.7
06N06E33J002M	RMW-WL7	10/24/1977	73.3	-24.8
06N06E33J002M	RMW-WL7	11/29/1977	73.3	-24.8
06N06E33J002M	RMW-WL7	12/19/1977	73	-24.5
06N06E33J002M	RMW-WL7	1/24/1978	73	-24.5
06N06E33J002M	RMW-WL7	2/22/1978	72.6	-24.1
06N06E33J002M	RMW-WL7	3/29/1978	72.2	-23.7
06N06E33J002M	RMW-WL7	4/25/1978	71.7	-23.2
06N06E33J002M	RMW-WL7	5/31/1978	76.6	-28.1
06N06E33J002M	RMW-WL7	6/27/1978	79	-30.5
06N06E33J002M	RMW-WL7	7/26/1978	76.9	-28.4
06N06E33J002M	RMW-WL7	8/29/1978	78.4	-29.9
06N06E33J002M	RMW-WL7	9/26/1978	77	-28.5
06N06E33J002M	RMW-WL7	10/26/1978	74.8	-26.3
06N06E33J002M	RMW-WL7	11/28/1978	72.9	-24.4
06N06E33J002M	RMW-WL7	12/18/1978	73.6	-25.1
06N06E33J002M	RMW-WL7	1/24/1979	72.9	-24.4
06N06E33J002M	RMW-WL7	2/27/1979	72.5	-24
06N06E33J002M	RMW-WL7	3/23/1979	72	-23.5
06N06E33J002M	RMW-WL7	5/1/1979	72.2	-23.7
06N06E33J002M	RMW-WL7	5/29/1979	74.2	-25.7
06N06E33J002M	RMW-WL7	6/22/1979	76.5	-28
06N06E33J002M	RMW-WL7	7/31/1979	75.7	-27.2
06N06E33J002M	RMW-WL7	8/29/1979	80	-31.5
06N06E33J002M	RMW-WL7	9/26/1979	76	-27.5
06N06E33J002M	RMW-WL7	10/26/1979	74.9	-26.4
06N06E33J002M	RMW-WL7	11/26/1979	74.1	-25.6
06N06E33J002M	RMW-WL7	12/18/1979	73.7	-25.2
06N06E33J002M	RMW-WL7	1/29/1980	73	-24.5
06N06E33J002M	RMW-WL7	2/26/1980	72.3	-23.8
06N06E33J002M	RMW-WL7	3/28/1980	71.7	-23.2
06N06E33J002M	RMW-WL7	4/29/1980	73.7	-25.2
06N06E33J002M	RMW-WL7	5/29/1980	74.5	-26
06N06E33J002M	RMW-WL7	6/27/1980	76	-27.5
06N06E33J002M	RMW-WL7	7/28/1980	74.3	-25.8
06N06E33J002M	RMW-WL7	8/28/1980	74.3	-25.8
06N06E33J002M	RMW-WL7	9/29/1980	71.5	-23
06N06E33J002M	RMW-WL7	10/29/1980	71.6	-23.1
06N06E33J002M	RMW-WL7	11/24/1980	71.2	-22.7
06N06E33J002M	RMW-WL7	12/22/1980	70.7	-22.2
06N06E33J002M	RMW-WL7	1/28/1981	70.2	-21.7
06N06E33J002M	RMW-WL7	2/26/1981	68.8	-20.3
06N06E33J002M	RMW-WL7	3/30/1981	69.6	-21.1
06N06E33J002M	RMW-WL7	4/28/1981	69.5	-21
06N06E33J002M	RMW-WL7	5/27/1981	71.6	-23.1
06N06E33J002M	RMW-WL7	6/29/1981	73.2	-24.7
06N06E33J002M	RMW-WL7	7/30/1981	75	-26.5
06N06E33J002M	RMW-WL7	8/31/1981	75.1	-26.6
06N06E33J002M	RMW-WL7	9/29/1981	74.9	-26.4
06N06E33J002M	RMW-WL7	10/28/1981	73.7	-25.2
06N06E33J002M	RMW-WL7	11/24/1981	73.1	-24.6
06N06E33J002M	RMW-WL7	12/30/1981	72.3	-23.8
06N06E33J002M	RMW-WL7	1/26/1982	71.6	-23.1
06N06E33J002M	RMW-WL7	2/23/1982	70.7	-22.2
06N06E33J002M	RMW-WL7	3/30/1982	69.3	-20.8
06N06E33J002M	RMW-WL7	4/27/1982	67.9	-19.4
06N06E33J002M	RMW-WL7	5/26/1982	71.5	-23
06N06E33J002M	RMW-WL7	6/29/1982	69.6	-21.1
06N06E33J002M	RMW-WL7	7/29/1982	71.7	-23.2
06N06E33J002M	RMW-WL7	8/30/1982	71.2	-22.7
06N06E33J002M	RMW-WL7	9/27/1982	69.1	-20.6
06N06E33J002M	RMW-WL7	10/27/1982	68.3	-19.8
06N06E33J002M	RMW-WL7	12/6/1982	67.2	-18.7

06N06E33J002M	RMW-WL7	12/27/1982	66.4	-17.9
06N06E33J002M	RMW-WL7	1/25/1983	65.6	-17.1
06N06E33J002M	RMW-WL7	2/24/1983	64.1	-15.6
06N06E33J002M	RMW-WL7	3/28/1983	62.3	-13.8
06N06E33J002M	RMW-WL7	4/25/1983	61	-12.5
06N06E33J002M	RMW-WL7	5/26/1983	60.7	-12.2
06N06E33J002M	RMW-WL7	6/29/1983	62	-13.5
06N06E33J002M	RMW-WL7	7/25/1983	62.6	-14.1
06N06E33J002M	RMW-WL7	9/1/1983	63.2	-14.7
06N06E33J002M	RMW-WL7	9/29/1983	61.8	-13.3
06N06E33J002M	RMW-WL7	10/26/1983	61.3	-12.8
06N06E33J002M	RMW-WL7	11/29/1983	60.5	-12
06N06E33J002M	RMW-WL7	12/20/1983	60	-11.5
06N06E33J002M	RMW-WL7	1/25/1984	58.9	-10.4
06N06E33J002M	RMW-WL7	2/28/1984	57.8	-9.3
06N06E33J002M	RMW-WL7	3/28/1984	57.3	-8.8
06N06E33J002M	RMW-WL7	4/26/1984	57.9	-9.4
06N06E33J002M	RMW-WL7	5/30/1984	60	-11.5
06N06E33J002M	RMW-WL7	6/27/1984	62.7	-14.2
06N06E33J002M	RMW-WL7	8/29/1984	72.4	-23.9
06N06E33J002M	RMW-WL7	9/25/1984	67	-18.5
06N06E33J002M	RMW-WL7	10/29/1984	62.2	-13.7
06N06E33J002M	RMW-WL7	11/27/1984	61.5	-13
06N06E33J002M	RMW-WL7	12/18/1984	61.1	-12.6
06N06E33J002M	RMW-WL7	1/25/1985	60.7	-12.2
06N06E33J002M	RMW-WL7	2/22/1985	60.3	-11.8
06N06E33J002M	RMW-WL7	3/25/1985	60	-11.5
06N06E33J002M	RMW-WL7	4/29/1985	61.4	-12.9
06N06E33J002M	RMW-WL7	5/28/1985	63.4	-14.9
06N06E33J002M	RMW-WL7	6/27/1985	65.6	-17.1
06N06E33J002M	RMW-WL7	7/26/1985	66.6	-18.1
06N06E33J002M	RMW-WL7	8/22/1985	66.7	-18.2
06N06E33J002M	RMW-WL7	9/24/1985	65.5	-17
06N06E33J002M	RMW-WL7	10/23/1985	65.6	-17.1
06N06E33J002M	RMW-WL7	11/20/1985	64.7	-16.2
06N06E33J002M	RMW-WL7	12/19/1985	64.4	-15.9
06N06E33J002M	RMW-WL7	1/22/1986	64	-15.5
06N06E33J002M	RMW-WL7	2/22/1986	61.4	-12.9
06N06E33J002M	RMW-WL7	3/26/1986	61	-12.5
06N06E33J002M	RMW-WL7	4/23/1986	60.7	-12.2
06N06E33J002M	RMW-WL7	5/23/1986	61.5	-13
06N06E33J002M	RMW-WL7	6/25/1986	67.1	-18.6
06N06E33J002M	RMW-WL7	7/24/1986	64	-15.5
06N06E33J002M	RMW-WL7	8/26/1986	68.2	-19.7
06N06E33J002M	RMW-WL7	9/25/1986	63.5	-15
06N06E33J002M	RMW-WL7	10/28/1986	62	-13.5
06N06E33J002M	RMW-WL7	11/20/1986	61.8	-13.3
06N06E33J002M	RMW-WL7	12/22/1986	61.3	-12.8
06N06E33J002M	RMW-WL7	1/23/1987	61.1	-12.6
06N06E33J002M	RMW-WL7	2/20/1987	60.9	-12.4
06N06E33J002M	RMW-WL7	3/24/1987	60.5	-12
06N06E33J002M	RMW-WL7	4/24/1987	61	-12.5
06N06E33J002M	RMW-WL7	5/29/1987	63.1	-14.6
06N06E33J002M	RMW-WL7	6/22/1987	63.8	-15.3
06N06E33J002M	RMW-WL7	7/24/1987	65.3	-16.8
06N06E33J002M	RMW-WL7	9/24/1987	65.7	-17.2
06N06E33J002M	RMW-WL7	10/27/1987	65.1	-16.6
06N06E33J002M	RMW-WL7	11/24/1987	64.6	-16.1
06N06E33J002M	RMW-WL7	12/21/1987	64.3	-15.8
06N06E33J002M	RMW-WL7	1/22/1988	64.2	-15.7
06N06E33J002M	RMW-WL7	2/23/1988	63.9	-15.4
06N06E33J002M	RMW-WL7	3/25/1988	66.1	-17.6
06N06E33J002M	RMW-WL7	4/26/1988	64.5	-16
06N06E33J002M	RMW-WL7	6/2/1988	69.2	-20.7
06N06E33J002M	RMW-WL7	6/30/1988	66.3	-17.8
06N06E33J002M	RMW-WL7	7/28/1988	69.1	-20.6
06N06E33J002M	RMW-WL7	8/26/1988	67.8	-19.3
06N06E33J002M	RMW-WL7	9/30/1988	67.8	-19.3
06N06E33J002M	RMW-WL7	11/3/1988	67.1	-18.6
06N06E33J002M	RMW-WL7	12/1/1988	66.5	-18
06N06E33J002M	RMW-WL7	12/27/1988	66.4	-17.9
06N06E33J002M	RMW-WL7	1/25/1989	66.5	-18
06N06E33J002M	RMW-WL7	2/28/1989	66.4	-17.9
06N06E33J002M	RMW-WL7	3/28/1989	66.2	-17.7
06N06E33J002M	RMW-WL7	4/27/1989	67.1	-18.6
06N06E33J002M	RMW-WL7	5/31/1989	68.9	-20.4
06N06E33J002M	RMW-WL7	6/28/1989	68.8	-20.3
06N06E33J002M	RMW-WL7	7/28/1989	71.9	-23.4
06N06E33J002M	RMW-WL7	9/1/1989	72	-23.5

06N06E33J002M	RMW-WL7	9/26/1989	70.2	-21.7
06N06E33J002M	RMW-WL7	10/30/1989	70.1	-21.6
06N06E33J002M	RMW-WL7	12/1/1989	69.8	-21.3
06N06E33J002M	RMW-WL7	1/23/1990	69	-20.5
06N06E33J002M	RMW-WL7	2/26/1990	68.7	-20.2
06N06E33J002M	RMW-WL7	4/26/1990	69.5	-21
06N06E33J002M	RMW-WL7	5/30/1990	70	-21.5
06N06E33J002M	RMW-WL7	8/28/1990	73.8	-25.3
06N06E33J002M	RMW-WL7	9/27/1990	73.1	-24.6
06N06E33J002M	RMW-WL7	10/31/1990	72.5	-24
06N06E33J002M	RMW-WL7	11/26/1990	71.7	-23.2
06N06E33J002M	RMW-WL7	12/17/1990	69	-20.5
06N06E33J002M	RMW-WL7	1/30/1991	71.9	-23.4
06N06E33J002M	RMW-WL7	2/27/1991	71.7	-23.2
06N06E33J002M	RMW-WL7	3/25/1991	71.5	-23
06N06E33J002M	RMW-WL7	4/23/1991	71.7	-23.2
06N06E33J002M	RMW-WL7	5/30/1991	73	-24.5
06N06E33J002M	RMW-WL7	6/24/1991	76.4	-27.9
06N06E33J002M	RMW-WL7	2/21/1992	74.2	-25.7
06N06E33J002M	RMW-WL7	3/30/1992	72.9	-24.4
06N06E33J002M	RMW-WL7	4/24/1992	73.2	-24.7
06N06E33J002M	RMW-WL7	6/29/1992	82.3	-33.8
06N06E33J002M	RMW-WL7	7/24/1992	76.6	-28.1
06N06E33J002M	RMW-WL7	8/25/1992	76.7	-28.2
06N06E33J002M	RMW-WL7	9/28/1992	76.4	-27.9
06N06E33J002M	RMW-WL7	10/29/1992	76.6	-28.1
06N06E33J002M	RMW-WL7	11/30/1992	76	-27.5
06N06E33J002M	RMW-WL7	12/30/1992	75.9	-27.4
06N06E33J002M	RMW-WL7	2/25/1993	75.1	-26.6
06N06E33J002M	RMW-WL7	3/29/1993	74.4	-25.9
06N06E33J002M	RMW-WL7	4/28/1993	74.9	-26.4
06N06E33J002M	RMW-WL7	5/25/1993	75.3	-26.8
06N06E33J002M	RMW-WL7	6/28/1993	76.2	-27.7
06N06E33J002M	RMW-WL7	7/28/1993	80.1	-31.6
06N06E33J002M	RMW-WL7	10/28/1993	80.2	-31.7
06N06E33J002M	RMW-WL7	11/24/1993	74.8	-26.3
06N06E33J002M	RMW-WL7	12/28/1993	74.5	-26
06N06E33J002M	RMW-WL7	1/31/1994	73.9	-25.4
06N06E33J002M	RMW-WL7	2/24/1994	73.6	-25.1
06N06E33J002M	RMW-WL7	3/31/1994	73.4	-24.9
06N06E33J002M	RMW-WL7	4/29/1994	74.1	-25.6
06N06E33J002M	RMW-WL7	5/31/1994	75.4	-26.9
06N06E33J002M	RMW-WL7	7/26/1994	78.9	-30.4
06N06E33J002M	RMW-WL7	11/29/1994	77.6	-29.1
06N06E33J002M	RMW-WL7	12/16/1994	77.3	-28.8
06N06E33J002M	RMW-WL7	1/30/1995	76.8	-28.3
06N06E33J002M	RMW-WL7	2/24/1995	76.5	-28
06N06E33J002M	RMW-WL7	3/17/1995	75.9	-27.4
06N06E33J002M	RMW-WL7	4/20/1995	74.8	-26.3
06N06E33J002M	RMW-WL7	6/23/1995	74.6	-26.1
06N06E33J002M	RMW-WL7	7/18/1995	79	-30.5
06N06E33J002M	RMW-WL7	9/14/1995	76.7	-28.2
06N06E33J002M	RMW-WL7	10/18/1995	74.5	-26
06N06E33J002M	RMW-WL7	11/13/1995	75.4	-26.9
06N06E33J002M	RMW-WL7	12/19/1995	73.5	-25
06N06E33J002M	RMW-WL7	1/10/1996	72.8	-24.3
06N06E33J002M	RMW-WL7	2/14/1996	72	-23.5
06N06E33J002M	RMW-WL7	3/7/1996	72	-23.5
06N06E33J002M	RMW-WL7	4/5/1996	70.9	-22.4
06N06E33J002M	RMW-WL7	10/3/1996	73	-24.5
06N06E33J002M	RMW-WL7	11/8/1996	71.8	-23.3
06N06E33J002M	RMW-WL7	12/12/1996	70.9	-22.4
06N06E33J002M	RMW-WL7	1/30/1997	69.5	-21
06N06E33J002M	RMW-WL7	2/20/1997	68.9	-20.4
06N06E33J002M	RMW-WL7	3/13/1997	68	-19.5
06N06E33J002M	RMW-WL7	4/16/1997	68.1	-19.6
06N06E33J002M	RMW-WL7	5/19/1997	68.6	-20.1
06N06E33J002M	RMW-WL7	6/6/1997	68.7	-20.2
06N06E33J002M	RMW-WL7	7/14/1997	73.2	-24.7
06N06E33J002M	RMW-WL7	8/19/1997	72.4	-23.9
06N06E33J002M	RMW-WL7	10/16/1997	70.2	-21.7
06N06E33J002M	RMW-WL7	11/19/1997	68.9	-20.4
06N06E33J002M	RMW-WL7	12/11/1997	68.4	-19.9
06N06E33J002M	RMW-WL7	1/7/1998	66.8	-18.3
06N06E33J002M	RMW-WL7	2/18/1998	67	-18.5
06N06E33J002M	RMW-WL7	3/2/1998	66.1	-17.6
06N06E33J002M	RMW-WL7	4/3/1998	65.2	-16.7
06N06E33J002M	RMW-WL7	5/13/1998	63.4	-14.9
06N06E33J002M	RMW-WL7	6/11/1998	63.4	-14.9

06N06E33J002M	RMW-WL7	8/5/1998	66.6	-18.1
06N06E33J002M	RMW-WL7	10/16/1998	64.8	-16.3
06N06E33J002M	RMW-WL7	11/12/1998	63.9	-15.4
06N06E33J002M	RMW-WL7	12/10/1998	63.1	-14.6
06N06E33J002M	RMW-WL7	1/15/1999	63.7	-15.2
06N06E33J002M	RMW-WL7	2/18/1999	61.7	-13.2
06N06E33J002M	RMW-WL7	3/11/1999	61	-12.5
06N06E33J002M	RMW-WL7	4/14/1999	60.3	-11.8
06N06E33J002M	RMW-WL7	5/11/1999	59.9	-11.4
06N06E33J002M	RMW-WL7	6/9/1999	58	-9.5
06N06E33J002M	RMW-WL7	8/11/1999	67.7	-19.2
06N06E33J002M	RMW-WL7	1/5/2000	66	-17.5
06N06E33J002M	RMW-WL7	2/8/2000	61.4	-12.9
06N06E33J002M	RMW-WL7	3/7/2000	60.9	-12.4
06N06E33J002M	RMW-WL7	4/21/2000	59.9	-11.4
06N06E33J002M	RMW-WL7	6/12/2000	60.8	-12.3
06N06E33J002M	RMW-WL7	7/6/2000	60.9	-12.4
06N06E33J002M	RMW-WL7	10/10/2000	61.6	-13.1
06N06E33J002M	RMW-WL7	11/3/2000	60.8	-12.3
06N06E33J002M	RMW-WL7	12/7/2000	60	-11.5
06N06E33J002M	RMW-WL7	1/22/2001	59.5	-11
06N06E33J002M	RMW-WL7	2/21/2001	59.2	-10.7
06N06E33J002M	RMW-WL7	3/6/2001	58.9	-10.4
06N06E33J002M	RMW-WL7	4/2/2001	58.6	-10.1
06N06E33J002M	RMW-WL7	5/1/2001	59.4	-10.9
06N06E33J002M	RMW-WL7	6/5/2001	60.6	-12.1
06N06E33J002M	RMW-WL7	8/8/2001	61.4	-12.9
06N06E33J002M	RMW-WL7	10/2/2001	61.6	-13.1
06N06E33J002M	RMW-WL7	11/1/2001	61.8	-13.3
06N06E33J002M	RMW-WL7	12/3/2001	61.7	-13.2
06N06E33J002M	RMW-WL7	1/14/2002	61.2	-12.7
06N06E33J002M	RMW-WL7	2/8/2002	61.3	-12.8
06N06E33J002M	RMW-WL7	3/12/2002	59.9	-11.4
06N06E33J002M	RMW-WL7	4/5/2002	60.8	-12.3
06N06E33J002M	RMW-WL7	5/8/2002	61.2	-12.7
06N06E33J002M	RMW-WL7	7/9/2002	61.6	-13.1
06N06E33J002M	RMW-WL7	8/9/2002	64.5	-16
06N06E33J002M	RMW-WL7	9/6/2002	64.9	-16.4
06N06E33J002M	RMW-WL7	10/10/2002	62.6	-14.1
06N06E33J002M	RMW-WL7	11/13/2002	63.4	-14.9
06N06E33J002M	RMW-WL7	12/10/2002	62.3	-13.8
06N06E33J002M	RMW-WL7	1/13/2003	63.2	-14.7
06N06E33J002M	RMW-WL7	2/7/2003	63	-14.5
06N06E33J002M	RMW-WL7	3/4/2003	63.4	-14.9
06N06E33J002M	RMW-WL7	3/7/2003	62.3	-13.8
06N06E33J002M	RMW-WL7	4/4/2003	62.4	-13.9
06N06E33J002M	RMW-WL7	5/6/2003	61.9	-13.4
06N06E33J002M	RMW-WL7	7/7/2003	64.3	-15.8
06N06E33J002M	RMW-WL7	8/8/2003	65.9	-17.4
06N06E33J002M	RMW-WL7	9/11/2003	66.2	-17.7
06N06E33J002M	RMW-WL7	10/6/2003	65.2	-16.7
06N06E33J002M	RMW-WL7	11/6/2003	65.2	-16.7
06N06E33J002M	RMW-WL7	12/4/2003	64.1	-15.6
06N06E33J002M	RMW-WL7	1/13/2004	64.1	-15.6
06N06E33J002M	RMW-WL7	2/6/2004	63.9	-15.4
06N06E33J002M	RMW-WL7	3/4/2004	63.4	-14.9
06N06E33J002M	RMW-WL7	6/7/2004	64.8	-16.3
06N06E33J002M	RMW-WL7	7/12/2004	66.7	-18.2
06N06E33J002M	RMW-WL7	8/5/2004	66.9	-18.4
06N06E33J002M	RMW-WL7	11/9/2004	66	-17.5
06N06E33J002M	RMW-WL7	12/13/2004	65.7	-17.2
06N06E33J002M	RMW-WL7	1/18/2005	63.9	-15.4
06N06E33J002M	RMW-WL7	2/8/2005	65.2	-16.7
06N06E33J002M	RMW-WL7	3/8/2005	64.1	-15.6
06N06E33J002M	RMW-WL7	4/11/2005	64	-15.5
06N06E33J002M	RMW-WL7	5/11/2005	63.1	-14.6
06N06E33J002M	RMW-WL7	6/10/2005	64	-15.5
06N06E33J002M	RMW-WL7	7/13/2005	67.7	-19.2
06N06E33J002M	RMW-WL7	8/5/2005	66.5	-18
06N06E33J002M	RMW-WL7	9/6/2005	67.4	-18.9
06N06E33J002M	RMW-WL7	10/12/2005	65.1	-16.6
06N06E33J002M	RMW-WL7	11/9/2005	64.9	-16.4
06N06E33J002M	RMW-WL7	12/9/2005	63.2	-14.7
06N06E33J002M	RMW-WL7	1/10/2006	63.5	-15
06N06E33J002M	RMW-WL7	2/8/2006	62.6	-14.1
06N06E33J002M	RMW-WL7	3/8/2006	61.8	-13.3
06N06E33J002M	RMW-WL7	4/14/2006	60.2	-11.7
06N06E33J002M	RMW-WL7	5/10/2006	60.3	-11.8
06N06E33J002M	RMW-WL7	6/5/2006	61.1	-12.6

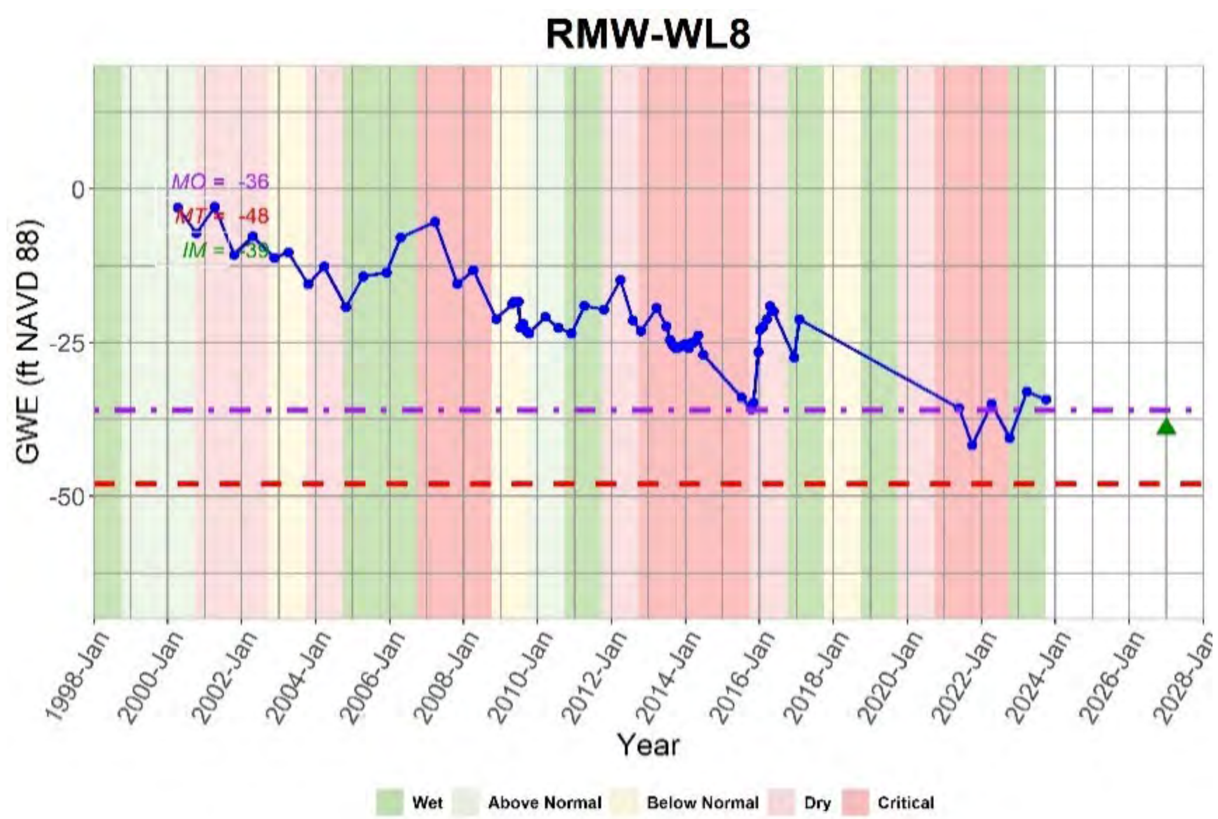
06N06E33J002M	RMW-WL7	7/13/2006	62.1	-13.6
06N06E33J002M	RMW-WL7	8/7/2006	64.1	-15.6
06N06E33J002M	RMW-WL7	9/13/2006	62.9	-14.4
06N06E33J002M	RMW-WL7	11/14/2006	60.6	-12.1
06N06E33J002M	RMW-WL7	12/11/2006	60.1	-11.6
06N06E33J002M	RMW-WL7	1/9/2007	59.6	-11.1
06N06E33J002M	RMW-WL7	2/8/2007	59.3	-10.8
06N06E33J002M	RMW-WL7	3/8/2007	59	-10.5
06N06E33J002M	RMW-WL7	5/8/2007	58.7	-10.2
06N06E33J002M	RMW-WL7	6/11/2007	61.5	-13
06N06E33J002M	RMW-WL7	7/2/2007	65.1	-16.6
06N06E33J002M	RMW-WL7	9/10/2007	65.7	-17.2
06N06E33J002M	RMW-WL7	10/1/2007	65	-16.5
06N06E33J002M	RMW-WL7	11/5/2007	63.3	-14.8
06N06E33J002M	RMW-WL7	12/11/2007	64	-15.5
06N06E33J002M	RMW-WL7	1/10/2008	62.9	-14.4
06N06E33J002M	RMW-WL7	2/1/2008	62.6	-14.1
06N06E33J002M	RMW-WL7	3/6/2008	61.3	-12.8
06N06E33J002M	RMW-WL7	4/1/2008	60.9	-12.4
06N06E33J002M	RMW-WL7	5/5/2008	64	-15.5
06N06E33J002M	RMW-WL7	6/19/2008	65.2	-16.7
06N06E33J002M	RMW-WL7	7/8/2008	68.2	-19.7
06N06E33J002M	RMW-WL7	9/11/2008	67.9	-19.4
06N06E33J002M	RMW-WL7	10/8/2008	66.4	-17.9
06N06E33J002M	RMW-WL7	11/12/2008	66.3	-17.8
06N06E33J002M	RMW-WL7	12/8/2008	66.1	-17.6
06N06E33J002M	RMW-WL7	1/20/2009	65.9	-17.4
06N06E33J002M	RMW-WL7	2/16/2009	65.7	-17.2
06N06E33J002M	RMW-WL7	3/12/2009	65.25	-16.75
06N06E33J002M	RMW-WL7	4/7/2009	65.5	-17
06N06E33J002M	RMW-WL7	5/27/2009	67.2	-18.7
06N06E33J002M	RMW-WL7	6/25/2009	67.5	-19
06N06E33J002M	RMW-WL7	7/13/2009	69	-20.5
06N06E33J002M	RMW-WL7	8/5/2009	70.8	-22.3
06N06E33J002M	RMW-WL7	9/17/2009	69.8	-21.3
06N06E33J002M	RMW-WL7	10/14/2009	69.2	-20.7
06N06E33J002M	RMW-WL7	12/23/2009	68.3	-19.8
06N06E33J002M	RMW-WL7	1/6/2010	68.1	-19.6
06N06E33J002M	RMW-WL7	2/3/2010	67.8	-19.3
06N06E33J002M	RMW-WL7	5/25/2010	66.9	-18.4
06N06E33J002M	RMW-WL7	6/10/2010	67	-18.5
06N06E33J002M	RMW-WL7	8/16/2010	70	-21.5
06N06E33J002M	RMW-WL7	9/13/2010	69.6	-21.1
06N06E33J002M	RMW-WL7	10/11/2010	69.2	-20.7
06N06E33J002M	RMW-WL7	11/3/2010	68.9	-20.4
06N06E33J002M	RMW-WL7	12/20/2010	68.8	-20.3
06N06E33J002M	RMW-WL7	1/18/2011	68.1	-19.6
06N06E33J002M	RMW-WL7	2/16/2011	67.9	-19.4
06N06E33J002M	RMW-WL7	3/17/2011	67	-18.5
06N06E33J002M	RMW-WL7	4/28/2011	67.2	-18.7
06N06E33J002M	RMW-WL7	5/23/2011	66.2	-17.7
06N06E33J002M	RMW-WL7	6/28/2011	66.7	-18.2
06N06E33J002M	RMW-WL7	7/22/2011	67.5	-19
06N06E33J002M	RMW-WL7	8/25/2011	68.8	-20.3
06N06E33J002M	RMW-WL7	9/26/2011	67.9	-19.4
06N06E33J002M	RMW-WL7	10/28/2011	66.7	-18.2
06N06E33J002M	RMW-WL7	11/29/2011	66	-17.5
06N06E33J002M	RMW-WL7	12/22/2011	65.8	-17.3
06N06E33J002M	RMW-WL7	1/26/2012	65.4	-16.9
06N06E33J002M	RMW-WL7	2/29/2012	65.4	-16.9
06N06E33J002M	RMW-WL7	3/22/2012	64.7	-16.2
06N06E33J002M	RMW-WL7	4/25/2012	64.5	-16
06N06E33J002M	RMW-WL7	5/30/2012	66.1	-17.6
06N06E33J002M	RMW-WL7	6/28/2012	67.7	-19.2
06N06E33J002M	RMW-WL7	7/24/2012	68.8	-20.3
06N06E33J002M	RMW-WL7	8/21/2012	73.7	-25.2
06N06E33J002M	RMW-WL7	9/24/2012	71.4	-22.9
06N06E33J002M	RMW-WL7	10/11/2012	69.7	-21.2
06N06E33J002M	RMW-WL7	8/20/2013	72.7	-24.2
06N06E33J002M	RMW-WL7	9/19/2013	72.1	-23.6
06N06E33J002M	RMW-WL7	10/25/2013	71.7	-23.2
06N06E33J002M	RMW-WL7	11/19/2013	71.7	-23.2
06N06E33J002M	RMW-WL7	12/11/2013	71.5	-23
06N06E33J002M	RMW-WL7	1/23/2014	71.5	-23
06N06E33J002M	RMW-WL7	2/27/2014	70.4	-21.9
06N06E33J002M	RMW-WL7	3/27/2014	70.2	-21.7
06N06E33J002M	RMW-WL7	4/30/2014	71.8	-23.3
06N06E33J002M	RMW-WL7	5/29/2014	73	-24.5
06N06E33J002M	RMW-WL7	6/30/2014	73.9	-25.4

06N06E33J002M	RMW-WL7	7/30/2014	75	-26.5
06N06E33J002M	RMW-WL7	8/27/2014	75.9	-27.4
06N06E33J002M	RMW-WL7	9/24/2014	74.4	-25.9
06N06E33J002M	RMW-WL7	10/28/2014	73.9	-25.4
06N06E33J002M	RMW-WL7	11/26/2014	73.6	-25.1
06N06E33J002M	RMW-WL7	12/30/2014	73.2	-24.7
06N06E33J002M	RMW-WL7	1/26/2015	73.1	-24.6
06N06E33J002M	RMW-WL7	2/27/2015	73.3	-24.8
06N06E33J002M	RMW-WL7	3/27/2015	73.8	-25.3
06N06E33J002M	RMW-WL7	4/24/2015	74.8	-26.3
06N06E33J002M	RMW-WL7	5/21/2015	74.7	-26.2
06N06E33J002M	RMW-WL7	6/17/2015	74.9	-26.4
06N06E33J002M	RMW-WL7	7/3/2015	74.9	-26.4
06N06E33J002M	RMW-WL7	8/4/2015	77	-28.5
06N06E33J002M	RMW-WL7	9/14/2015	76.9	-28.4
06N06E33J002M	RMW-WL7	10/8/2015	76.5	-28
06N06E33J002M	RMW-WL7	11/9/2015	75.9	-27.4
06N06E33J002M	RMW-WL7	12/7/2015	75.3	-26.8
06N06E33J002M	RMW-WL7	1/11/2016	74.5	-26
06N06E33J002M	RMW-WL7	2/4/2016	74.4	-25.9
06N06E33J002M	RMW-WL7	3/2/2016	70.6	-22.1
06N06E33J002M	RMW-WL7	4/11/2016	70.2	-21.7
06N06E33J002M	RMW-WL7	5/9/2016	70.5	-22
06N06E33J002M	RMW-WL7	6/27/2016	76.7	-28.2
06N06E33J002M	RMW-WL7	7/11/2016	76.9	-28.4
06N06E33J002M	RMW-WL7	8/4/2016	77.6	-29.1
06N06E33J002M	RMW-WL7	9/6/2016	78	-29.5
06N06E33J002M	RMW-WL7	10/4/2016	78.1	-29.6
06N06E33J002M	RMW-WL7	11/3/2016	79.1	-30.6
06N06E33J002M	RMW-WL7	12/7/2016	79.4	-30.9
06N06E33J002M	RMW-WL7	1/24/2017	77.5	-29
06N06E33J002M	RMW-WL7	3/14/2017	73.5	-25
06N06E33J002M	RMW-WL7	4/5/2017	73.7	-25.2
06N06E33J002M	RMW-WL7	5/2/2017	73.8	-25.3
06N06E33J002M	RMW-WL7	6/14/2017	76.4	-27.9
06N06E33J002M	RMW-WL7	8/28/2017	85.1	-36.6
06N06E33J002M	RMW-WL7	9/28/2017	85.5	-37
06N06E33J002M	RMW-WL7	10/12/2017	85.8	-37.3
06N06E33J002M	RMW-WL7	11/8/2017	85.8	-37.3
06N06E33J002M	RMW-WL7	12/4/2017	70.6	-22.1
06N06E33J002M	RMW-WL7	1/29/2018	69.7	-21.2
06N06E33J002M	RMW-WL7	2/23/2018	69.3	-20.8
06N06E33J002M	RMW-WL7	3/26/2018	68.6	-20.1
06N06E33J002M	RMW-WL7	4/27/2018	68	-19.5
06N06E33J002M	RMW-WL7	6/7/2018	68.8	-20.3
06N06E33J002M	RMW-WL7	7/9/2018	71.3	-22.8
06N06E33J002M	RMW-WL7	8/10/2018	72.7	-24.2
06N06E33J002M	RMW-WL7	9/5/2018	73.7	-25.2
06N06E33J002M	RMW-WL7	10/17/2018	72.1	-23.6
06N06E33J002M	RMW-WL7	11/26/2018	71.6	-23.1
06N06E33J002M	RMW-WL7	12/21/2018	71.1	-22.6
06N06E33J002M	RMW-WL7	1/9/2019	70.7	-22.2
06N06E33J002M	RMW-WL7	2/12/2019	69.9	-21.4
06N06E33J002M	RMW-WL7	4/3/2019	68.7	-20.2
06N06E33J002M	RMW-WL7	5/17/2019	68.2	-19.7
06N06E33J002M	RMW-WL7	6/13/2019	68.8	-20.3
06N06E33J002M	RMW-WL7	7/5/2019	69.3	-20.8
06N06E33J002M	RMW-WL7	8/14/2019	69.9	-21.4
06N06E33J002M	RMW-WL7	9/11/2019	70.7	-22.2
06N06E33J002M	RMW-WL7	10/23/2019	70	-21.5
06N06E33J002M	RMW-WL7	11/12/2019	69.6	-21.1
06N06E33J002M	RMW-WL7	12/9/2019	68.8	-20.3
06N06E33J002M	RMW-WL7	1/22/2020	68.3	-19.8
06N06E33J002M	RMW-WL7	2/18/2020	67.6	-19.1
06N06E33J002M	RMW-WL7	3/4/2020	68.4	-19.9
06N06E33J002M	RMW-WL7	5/21/2020	68.1	-19.6
06N06E33J002M	RMW-WL7	6/25/2020	69.3	-20.8
06N06E33J002M	RMW-WL7	7/23/2020	70.6	-22.1
06N06E33J002M	RMW-WL7	8/31/2020	71.8	-23.3
06N06E33J002M	RMW-WL7	10/26/2020	71	-22.5
06N06E33J002M	RMW-WL7	10/23/2019	70	-21.5
06N06E33J002M	RMW-WL7	11/12/2019	69.6	-21.1
06N06E33J002M	RMW-WL7	12/9/2019	68.8	-20.3
06N06E33J002M	RMW-WL7	1/22/2020	68.3	-19.8
06N06E33J002M	RMW-WL7	2/18/2020	67.6	-19.1
06N06E33J002M	RMW-WL7	3/4/2020	68.4	-19.9
06N06E33J002M	RMW-WL7	5/21/2020	68.1	-19.6
06N06E33J002M	RMW-WL7	6/25/2020	69.3	-20.8
06N06E33J002M	RMW-WL7	7/23/2020	70.6	-22.1

06N06E33J002M	RMW-WL7	8/31/2020	71.8	-23.3
06N06E33J002M	RMW-WL7	10/26/2020	71	-22.5
06N06E33J002M	RMW-WL7	2/10/2021	69.8	-21.3
06N06E33J002M	RMW-WL7	3/8/2021	69.6	-21.1
06N06E33J002M	RMW-WL7	4/12/2021	70.3	-21.8
06N06E33J002M	RMW-WL7	5/27/2021	71.89	-23.39
06N06E33J002M	RMW-WL7	6/8/2021	72.6	-24.1
06N06E33J002M	RMW-WL7	7/8/2021	73.6	-25.1
06N06E33J002M	RMW-WL7	8/9/2021	75	-26.5
06N06E33J002M	RMW-WL7	9/13/2021	75.5	-27
06N06E33J002M	RMW-WL7	10/4/2021	75.02	-26.52
06N06E33J002M	RMW-WL7	10/8/2021	75.2	-26.7
06N06E33J002M	RMW-WL7	11/3/2021	75	-26.5
06N06E33J002M	RMW-WL7	12/1/2021	75.5	-27
06N06E33J002M	RMW-WL7	1/4/2022	74	-25.5
06N06E33J002M	RMW-WL7	2/15/2022	73.7	-25.2
06N06E33J002M	RMW-WL7	3/11/2022	74.3	-25.8
06N06E33J002M	RMW-WL7	4/13/2022	74.08	-25.58
06N06E33J002M	RMW-WL7	4/14/2022	74.08	-25.58
06N06E33J002M	RMW-WL7	4/18/2022	74.2	-25.7
06N06E33J002M	RMW-WL7	5/9/2022	75	-26.5
06N06E33J002M	RMW-WL7	6/15/2022	80	-31.5
06N06E33J002M	RMW-WL7	7/18/2022	76.4	-27.9
06N06E33J002M	RMW-WL7	8/4/2022	82	-33.5
06N06E33J002M	RMW-WL7	9/1/2022	77.6	-29.1
06N06E33J002M	RMW-WL7	10/5/2022	77	-28.5
06N06E33J002M	RMW-WL7	10/5/2022	76.84	-28.34
06N06E33J002M	RMW-WL7	11/7/2022	76.5	-28
06N06E33J002M	RMW-WL7	12/7/2022	76.43	-27.93
06N06E33J002M	RMW-WL7	1/6/2023	75.93	-27.43
06N06E33J002M	RMW-WL7	2/22/2023	74.9	-26.4
06N06E33J002M	RMW-WL7	3/9/2023	74.44	-25.94
06N06E33J002M	RMW-WL7	3/27/2023	74.1	-25.6
06N06E33J002M	RMW-WL7	4/6/2023		
06N06E33J002M	RMW-WL7	4/19/2023	73.936	-25.436
06N06E33J002M	RMW-WL7	5/10/2023	74.45	-25.95
06N06E33J002M	RMW-WL7	6/14/2023	74.14	-25.64
06N06E33J002M	RMW-WL7	7/13/2023	73.83	-25.33
06N06E33J002M	RMW-WL7	8/10/2023	75.06	-26.56
06N06E33J002M	RMW-WL7	9/12/2023	75.85	-27.35
06N06E33J002M	RMW-WL7	10/2/2023	50.8	
06N06E33J002M	RMW-WL7	10/11/2023	74.67	-26.17
06N06E33J002M	RMW-WL7	11/9/2023	73.85	-25.35
06N06E33J002M	RMW-WL7	11/10/2023	74.2	-25.7
06N06E33J002M	RMW-WL7	12/19/2023	73.51	-25.01

Site Code: 383865N1212812W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	383865N1212812W001
Local Well Name:	06N06E11J003M
Monitoring Network Type:	SGMA Representative
Station ID:	27151
Latitude:	38.3865
Longitude:	-121.281
Well Depth (feet bgs):	215.0
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	69.36
Reference Point Elevation:	71.36
Sustainability Indicators:	Groundwater Levels,Groundwater Storage

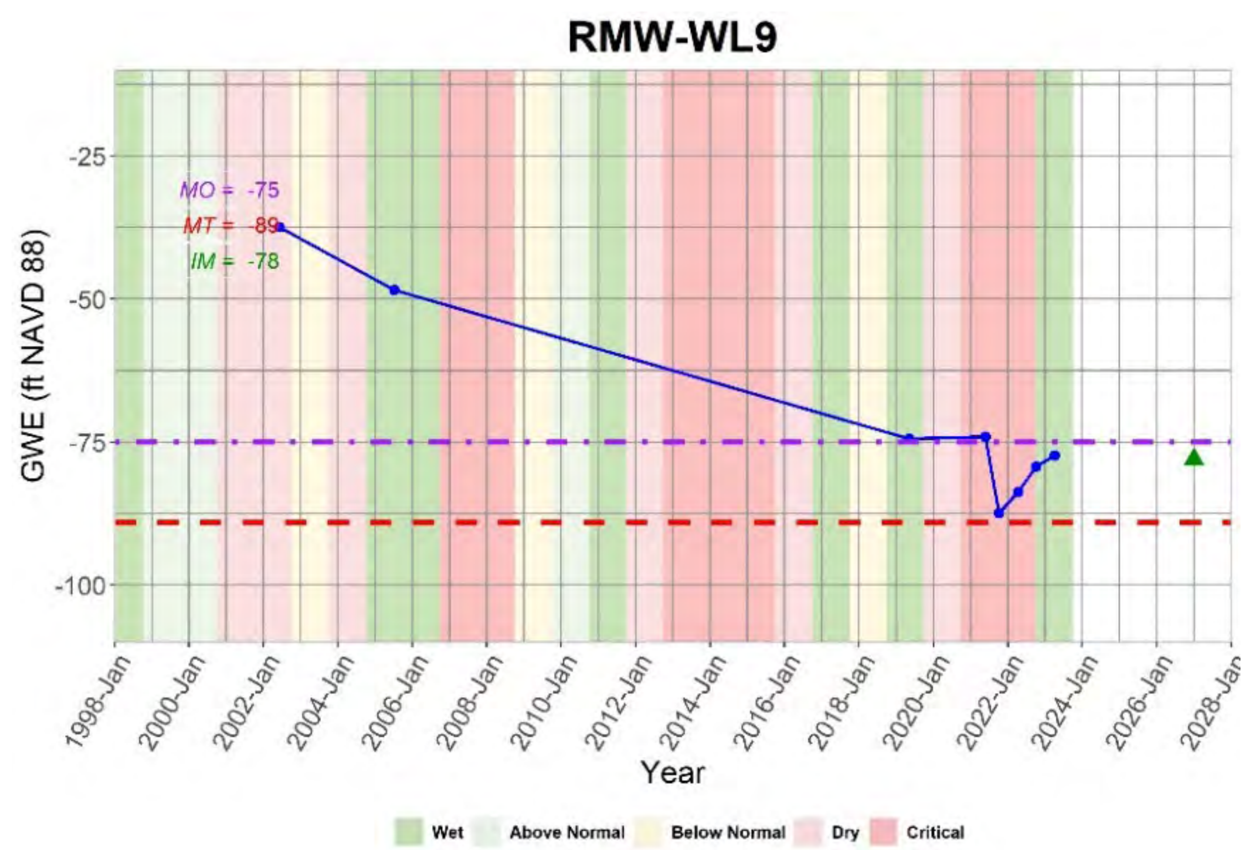


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
06N06E11J003M	RMW-WL8	3/15/1990		
06N06E11J003M	RMW-WL8	9/26/1990	107.7	-38.34
06N06E11J003M	RMW-WL8	3/7/1991	90.7	-21.34
06N06E11J003M	RMW-WL8	10/2/1991	101	-31.64
06N06E11J003M	RMW-WL8	3/19/1992	91.5	-22.14
06N06E11J003M	RMW-WL8	9/30/1992	99.2	-29.84
06N06E11J003M	RMW-WL8	3/30/1993	99	-29.64
06N06E11J003M	RMW-WL8	10/13/1993	104.2	-34.84
06N06E11J003M	RMW-WL8	3/15/1994	99.7	-30.34
06N06E11J003M	RMW-WL8	10/12/1994	101.9	-32.54
06N06E11J003M	RMW-WL8	4/10/1995	93.2	-23.84
06N06E11J003M	RMW-WL8	10/16/1995		
06N06E11J003M	RMW-WL8	4/8/1996	90.2	-20.84
06N06E11J003M	RMW-WL8	11/8/1996	93.1	-23.74
06N06E11J003M	RMW-WL8	3/11/1997	89.8	-20.44
06N06E11J003M	RMW-WL8	11/4/1997	86.3	-16.94
06N06E11J003M	RMW-WL8	4/30/1998		
06N06E11J003M	RMW-WL8	11/10/1998		
06N06E11J003M	RMW-WL8	4/1/1999		
06N06E11J003M	RMW-WL8	4/12/2000	74.4	-3.04
06N06E11J003M	RMW-WL8	10/9/2000	78.6	-7.24
06N06E11J003M	RMW-WL8	4/9/2001	74.3	-2.94
06N06E11J003M	RMW-WL8	10/19/2001	82.1	-10.74
06N06E11J003M	RMW-WL8	4/18/2002	79.1	-7.74
06N06E11J003M	RMW-WL8	11/18/2002	82.6	-11.24
06N06E11J003M	RMW-WL8	4/9/2003	81.7	-10.34
06N06E11J003M	RMW-WL8	10/20/2003	86.9	-15.54
06N06E11J003M	RMW-WL8	3/25/2004	84	-12.64
06N06E11J003M	RMW-WL8	10/25/2004	90.6	-19.24
06N06E11J003M	RMW-WL8	4/15/2005	85.6	-14.24
06N06E11J003M	RMW-WL8	11/30/2005	85	-13.64
06N06E11J003M	RMW-WL8	4/20/2006	79.3	-7.94
06N06E11J003M	RMW-WL8	10/17/2006		
06N06E11J003M	RMW-WL8	3/26/2007	76.7	-5.34
06N06E11J003M	RMW-WL8	10/29/2007	86.8	-15.44
06N06E11J003M	RMW-WL8	4/7/2008	84.6	-13.24
06N06E11J003M	RMW-WL8	11/19/2008	92.5	-21.14
06N06E11J003M	RMW-WL8	4/27/2009	90	-18.64
06N06E11J003M	RMW-WL8	5/13/2009	89.7	-18.34
06N06E11J003M	RMW-WL8	6/25/2009	89.7	-18.34
06N06E11J003M	RMW-WL8	7/13/2009	93.9	-22.54

06N06E11J003M	RMW-WL8	8/12/2009	93.3	-21.94
06N06E11J003M	RMW-WL8	9/14/2009	94.5	-23.14
06N06E11J003M	RMW-WL8	10/12/2009	94.9	-23.54
06N06E11J003M	RMW-WL8	3/17/2010	92.2	-20.84
06N06E11J003M	RMW-WL8	7/27/2010	94	-22.64
06N06E11J003M	RMW-WL8	12/1/2010	94.9	-23.54
06N06E11J003M	RMW-WL8	4/8/2011	90.4	-19.04
06N06E11J003M	RMW-WL8	10/18/2011	91	-19.64
06N06E11J003M	RMW-WL8	3/28/2012	86.2	-14.84
06N06E11J003M	RMW-WL8	3/29/2012	86.2	-14.84
06N06E11J003M	RMW-WL8	7/30/2012	92.8	-21.44
06N06E11J003M	RMW-WL8	10/18/2012	94.5	-23.14
06N06E11J003M	RMW-WL8	3/21/2013	90.7	-19.34
06N06E11J003M	RMW-WL8	6/27/2013	93.7	-22.34
06N06E11J003M	RMW-WL8	8/1/2013	95.9	-24.54
06N06E11J003M	RMW-WL8	8/28/2013	96.8	-25.44
06N06E11J003M	RMW-WL8	9/27/2013	97.3	-25.94
06N06E11J003M	RMW-WL8	10/31/2013	97.1	-25.74
06N06E11J003M	RMW-WL8	12/5/2013	96.8	-25.44
06N06E11J003M	RMW-WL8	12/27/2013	96.6	-25.24
06N06E11J003M	RMW-WL8	1/31/2014	97.3	-25.94
06N06E11J003M	RMW-WL8	2/28/2014	96.4	-25.04
06N06E11J003M	RMW-WL8	3/13/2014	96.4	-25.04
06N06E11J003M	RMW-WL8	4/11/2014	96.1	-24.74
06N06E11J003M	RMW-WL8	5/6/2014	95.2	-23.84
06N06E11J003M	RMW-WL8	6/24/2014	98.3	-26.94
06N06E11J003M	RMW-WL8	7/28/2014		
06N06E11J003M	RMW-WL8	8/19/2014		
06N06E11J003M	RMW-WL8	9/30/2014		
06N06E11J003M	RMW-WL8	10/22/2014		
06N06E11J003M	RMW-WL8	11/26/2014		
06N06E11J003M	RMW-WL8	12/19/2014		
06N06E11J003M	RMW-WL8	2/2/2015		
06N06E11J003M	RMW-WL8	2/24/2015		
06N06E11J003M	RMW-WL8	3/17/2015		
06N06E11J003M	RMW-WL8	4/21/2015		
06N06E11J003M	RMW-WL8	5/20/2015		
06N06E11J003M	RMW-WL8	6/25/2015		
06N06E11J003M	RMW-WL8	7/7/2015	105.3	-33.94
06N06E11J003M	RMW-WL8	8/10/2015		
06N06E11J003M	RMW-WL8	9/11/2015		
06N06E11J003M	RMW-WL8	10/9/2015	107.2	-35.84
06N06E11J003M	RMW-WL8	11/3/2015	106.1	-34.74
06N06E11J003M	RMW-WL8	12/23/2015	97.9	-26.54
06N06E11J003M	RMW-WL8	1/7/2016	94.3	-22.94
06N06E11J003M	RMW-WL8	2/3/2016	93.8	-22.44
06N06E11J003M	RMW-WL8	3/14/2016	92.6	-21.24
06N06E11J003M	RMW-WL8	4/14/2016	90.4	-19.04
06N06E11J003M	RMW-WL8	5/19/2016	91.3	-19.94
06N06E11J003M	RMW-WL8	6/21/2016		
06N06E11J003M	RMW-WL8	7/13/2016		
06N06E11J003M	RMW-WL8	8/11/2016		
06N06E11J003M	RMW-WL8	9/8/2016		
06N06E11J003M	RMW-WL8	10/6/2016		
06N06E11J003M	RMW-WL8	11/10/2016		
06N06E11J003M	RMW-WL8	12/8/2016	98.8	-27.44
06N06E11J003M	RMW-WL8	1/31/2017	92.6	-21.24
06N06E11J003M	RMW-WL8	5/25/2021	107	-35.64
06N06E11J003M	RMW-WL8	10/4/2021	113	-41.64
06N06E11J003M	RMW-WL8	4/13/2022	106.35	-34.99
06N06E11J003M	RMW-WL8	10/5/2022	111.9	-40.54
06N06E11J003M	RMW-WL8	3/27/2023	104.37	-33.01
06N06E11J003M	RMW-WL8	10/2/2023	105.63	-34.27

Site Code: 383695N1211924W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

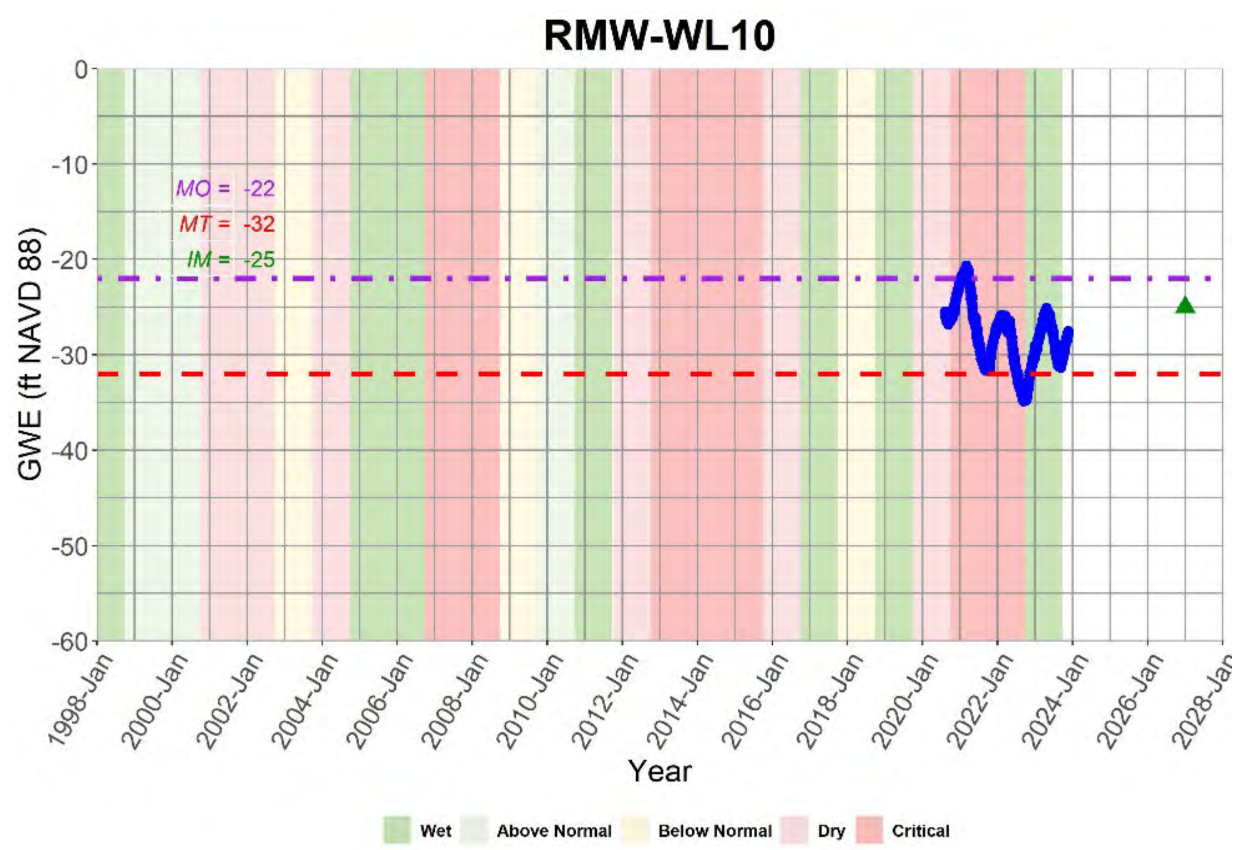
Site Code:	383695N1211924W001
Local Well Name:	75 HP Wohle
Monitoring Network Type:	SGMA Representative
Station ID:	57666
Latitude:	38.3695
Longitude:	-121.192
Well Depth (feet bgs):	725.0
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	105.6
Reference Point Elevation:	105.6
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
75 HP Wohle	RMW-WL9	11/19/1980	140.4	-34.8
75 HP Wohle	RMW-WL9	10/26/1981	142.3	-36.7
75 HP Wohle	RMW-WL9	5/10/1982	141.2	-35.6
75 HP Wohle	RMW-WL9	6/30/1983	142.2	-36.6
75 HP Wohle	RMW-WL9	9/21/1984	143.4	-37.8
75 HP Wohle	RMW-WL9	8/22/1985	141	-35.4
75 HP Wohle	RMW-WL9	2/23/1989	136	-30.4
75 HP Wohle	RMW-WL9	10/8/1990	149	-43.4
75 HP Wohle	RMW-WL9	2/14/1991	139	-33.4
75 HP Wohle	RMW-WL9	5/17/1991	145.9	-40.3
75 HP Wohle	RMW-WL9	5/22/1992	139	-33.4
75 HP Wohle	RMW-WL9	5/14/1993	143.8	-38.2
75 HP Wohle	RMW-WL9	11/6/1995	149.4	-43.8
75 HP Wohle	RMW-WL9	4/21/1994	146.6	-41
75 HP Wohle	RMW-WL9	6/4/2002	143	-37.4
75 HP Wohle	RMW-WL9	7/8/2005	154	-48.4
75 HP Wohle	RMW-WL9	5/7/2019	180	-74.4
75 HP Wohle	RMW-WL9	5/25/2021	179.64	-74.04
75 HP Wohle	RMW-WL9	10/6/2021	193	-87.4
75 HP Wohle	RMW-WL9	4/13/2022	189.33	-83.73
75 HP Wohle	RMW-WL9	10/5/2022	184.8	-79.2
75 HP Wohle	RMW-WL9	4/7/2023	182.9	-77.3
75 HP Whole	RMW-WL9	10/3/2023		

Site Code: 384280N1212236W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	384280N1212236W001
Local Well Name:	OHWD TSS Grant Well mid
Monitoring Network Type:	SGMA Representative
Station ID:	57667
Latitude:	38.4281
Longitude:	-121.224
Well Depth (feet bgs):	260.0
Top Perforation (feet bgs):	220.0
Bottom Perforation (feet bgs):	260.0
Ground Surface Elevation:	82.7
Reference Point Elevation:	85.41
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
OHWD TSS Grant Well mid	RMW-WL10	9/4/2020	112.7266148	-27.31661478
OHWD TSS Grant Well mid	RMW-WL10	9/5/2020	112.6802971	-27.27029707
OHWD TSS Grant Well mid	RMW-WL10	9/6/2020	112.6425601	-27.23256014
OHWD TSS Grant Well mid	RMW-WL10	9/7/2020	112.7609148	-27.3509148
OHWD TSS Grant Well mid	RMW-WL10	9/8/2020	113.3300367	-27.92003671
OHWD TSS Grant Well mid	RMW-WL10	9/9/2020	113.0328237	-27.62282373
OHWD TSS Grant Well mid	RMW-WL10	9/10/2020	112.768273	-27.35827304
OHWD TSS Grant Well mid	RMW-WL10	9/11/2020	112.7916856	-27.38168562
OHWD TSS Grant Well mid	RMW-WL10	9/12/2020	111.8910277	-26.48102765
OHWD TSS Grant Well mid	RMW-WL10	9/13/2020	111.4995185	-26.08951847
OHWD TSS Grant Well mid	RMW-WL10	9/14/2020	111.2885053	-25.87850532
OHWD TSS Grant Well mid	RMW-WL10	9/15/2020	111.3524459	-25.9424459
OHWD TSS Grant Well mid	RMW-WL10	9/16/2020	111.2751267	-25.8651267
OHWD TSS Grant Well mid	RMW-WL10	9/17/2020	111.8656313	-26.45563134
OHWD TSS Grant Well mid	RMW-WL10	9/18/2020	112.1582541	-26.74825407
OHWD TSS Grant Well mid	RMW-WL10	9/19/2020	112.0951439	-26.68514388
OHWD TSS Grant Well mid	RMW-WL10	9/20/2020	111.6025569	-26.19255691
OHWD TSS Grant Well mid	RMW-WL10	9/21/2020	111.751198	-26.341198
OHWD TSS Grant Well mid	RMW-WL10	9/22/2020	112.3612631	-26.9512631
OHWD TSS Grant Well mid	RMW-WL10	9/23/2020	112.7451142	-27.33511418
OHWD TSS Grant Well mid	RMW-WL10	9/24/2020	112.0798738	-26.6698738
OHWD TSS Grant Well mid	RMW-WL10	9/25/2020	112.1852189	-26.77521891
OHWD TSS Grant Well mid	RMW-WL10	9/26/2020	112.0455046	-26.63550459
OHWD TSS Grant Well mid	RMW-WL10	9/27/2020	111.6640294	-26.25402937
OHWD TSS Grant Well mid	RMW-WL10	9/28/2020	111.4585983	-26.04859834
OHWD TSS Grant Well mid	RMW-WL10	9/29/2020	111.7892348	-26.3792348
OHWD TSS Grant Well mid	RMW-WL10	9/30/2020	112.09865	-26.68865001
OHWD TSS Grant Well mid	RMW-WL10	10/1/2020	112.462018	-27.05201796
OHWD TSS Grant Well mid	RMW-WL10	10/2/2020	111.8129703	-26.40297032
OHWD TSS Grant Well mid	RMW-WL10	10/3/2020	111.4329944	-26.02299443
OHWD TSS Grant Well mid	RMW-WL10	10/4/2020	111.1538657	-25.74386565
OHWD TSS Grant Well mid	RMW-WL10	10/5/2020	111.233999	-25.82399898
OHWD TSS Grant Well mid	RMW-WL10	10/6/2020	111.2700982	-25.86009819
OHWD TSS Grant Well mid	RMW-WL10	10/7/2020	111.146346	-25.73634595
OHWD TSS Grant Well mid	RMW-WL10	10/8/2020	111.001926	-25.59192604
OHWD TSS Grant Well mid	RMW-WL10	10/9/2020	111.055602	-25.64560199
OHWD TSS Grant Well mid	RMW-WL10	10/10/2020	110.988409	-25.57840902
OHWD TSS Grant Well mid	RMW-WL10	10/11/2020	110.8607124	-25.45071239
OHWD TSS Grant Well mid	RMW-WL10	10/12/2020	110.8148791	-25.40487909
OHWD TSS Grant Well mid	RMW-WL10	10/13/2020	111.313671	-25.90367097
OHWD TSS Grant Well mid	RMW-WL10	10/14/2020	111.7810692	-26.37106923
OHWD TSS Grant Well mid	RMW-WL10	10/15/2020	111.4409293	-26.03092933
OHWD TSS Grant Well mid	RMW-WL10	10/16/2020	111.6852276	-26.27522756

OHWD TSS Grant Well mid	RMW-WL10	10/17/2020	112.1261223	-26.71612231
OHWD TSS Grant Well mid	RMW-WL10	10/18/2020	111.586641	-26.17664097
OHWD TSS Grant Well mid	RMW-WL10	10/19/2020	111.7972389	-26.38723891
OHWD TSS Grant Well mid	RMW-WL10	10/20/2020	112.2594933	-26.84949332
OHWD TSS Grant Well mid	RMW-WL10	10/21/2020	111.7571723	-26.34717225
OHWD TSS Grant Well mid	RMW-WL10	10/22/2020	111.6253467	-26.2153467
OHWD TSS Grant Well mid	RMW-WL10	10/23/2020	111.2940874	-25.88408744
OHWD TSS Grant Well mid	RMW-WL10	10/24/2020	111.2354522	-25.82545217
OHWD TSS Grant Well mid	RMW-WL10	10/25/2020	110.8888536	-25.47885363
OHWD TSS Grant Well mid	RMW-WL10	10/26/2020	110.8983801	-25.48838013
OHWD TSS Grant Well mid	RMW-WL10	10/27/2020	111.3998708	-25.98987081
OHWD TSS Grant Well mid	RMW-WL10	10/28/2020	111.2474237	-25.83742373
OHWD TSS Grant Well mid	RMW-WL10	10/29/2020	111.1287461	-25.71874614
OHWD TSS Grant Well mid	RMW-WL10	10/30/2020	111.0263997	-25.61639969
OHWD TSS Grant Well mid	RMW-WL10	10/31/2020	110.8774357	-25.46743567
OHWD TSS Grant Well mid	RMW-WL10	11/1/2020	110.658603	-25.24860296
OHWD TSS Grant Well mid	RMW-WL10	11/2/2020	110.8308642	-25.42086423
OHWD TSS Grant Well mid	RMW-WL10	11/3/2020	111.0925547	-25.68255466
OHWD TSS Grant Well mid	RMW-WL10	11/4/2020	111.1118383	-25.70183833
OHWD TSS Grant Well mid	RMW-WL10	11/5/2020	111.4403757	-26.03037574
OHWD TSS Grant Well mid	RMW-WL10	11/6/2020	110.8026999	-25.39269993
OHWD TSS Grant Well mid	RMW-WL10	11/7/2020	110.3107358	-24.90073575
OHWD TSS Grant Well mid	RMW-WL10	11/8/2020	110.132431	-24.72243103
OHWD TSS Grant Well mid	RMW-WL10	11/9/2020	110.3936371	-24.98363707
OHWD TSS Grant Well mid	RMW-WL10	11/10/2020	110.5213337	-25.11133369
OHWD TSS Grant Well mid	RMW-WL10	11/11/2020	110.402633	-24.99263304
OHWD TSS Grant Well mid	RMW-WL10	11/12/2020	110.2827791	-24.87277905
OHWD TSS Grant Well mid	RMW-WL10	11/13/2020	110.0719504	-24.66195044
OHWD TSS Grant Well mid	RMW-WL10	11/14/2020	110.0834607	-24.67346067
OHWD TSS Grant Well mid	RMW-WL10	11/15/2020	109.9735714	-24.56357144
OHWD TSS Grant Well mid	RMW-WL10	11/16/2020	109.7775516	-24.36755159
OHWD TSS Grant Well mid	RMW-WL10	11/17/2020	109.6171235	-24.20712347
OHWD TSS Grant Well mid	RMW-WL10	11/18/2020	109.6264654	-24.21646544
OHWD TSS Grant Well mid	RMW-WL10	11/19/2020	109.691098	-24.28109802
OHWD TSS Grant Well mid	RMW-WL10	11/20/2020	109.5873676	-24.17736757
OHWD TSS Grant Well mid	RMW-WL10	11/21/2020	109.4739261	-24.0639261
OHWD TSS Grant Well mid	RMW-WL10	11/22/2020	109.262567	-23.85256696
OHWD TSS Grant Well mid	RMW-WL10	11/23/2020	109.1582829	-23.74828291
OHWD TSS Grant Well mid	RMW-WL10	11/24/2020	109.1844404	-23.77444042
OHWD TSS Grant Well mid	RMW-WL10	11/25/2020	109.2037702	-23.79377022
OHWD TSS Grant Well mid	RMW-WL10	11/26/2020	109.2564312	-23.84643124
OHWD TSS Grant Well mid	RMW-WL10	11/27/2020	109.1837023	-23.77370229
OHWD TSS Grant Well mid	RMW-WL10	11/28/2020	109.1466574	-23.73665735
OHWD TSS Grant Well mid	RMW-WL10	11/29/2020	109.0243583	-23.61435831
OHWD TSS Grant Well mid	RMW-WL10	11/30/2020	109.0612187	-23.65121871
OHWD TSS Grant Well mid	RMW-WL10	12/1/2020	108.9713974	-23.56139742
OHWD TSS Grant Well mid	RMW-WL10	12/2/2020	108.8266085	-23.41660845
OHWD TSS Grant Well mid	RMW-WL10	12/3/2020	108.8708502	-23.46085017
OHWD TSS Grant Well mid	RMW-WL10	12/4/2020	108.8548189	-23.44481889
OHWD TSS Grant Well mid	RMW-WL10	12/5/2020	108.7979136	-23.38791362
OHWD TSS Grant Well mid	RMW-WL10	12/6/2020	108.7626448	-23.35264481
OHWD TSS Grant Well mid	RMW-WL10	12/7/2020	108.622054	-23.21205396
OHWD TSS Grant Well mid	RMW-WL10	12/8/2020	108.6480269	-23.23802693
OHWD TSS Grant Well mid	RMW-WL10	12/9/2020	108.5945586	-23.18455859
OHWD TSS Grant Well mid	RMW-WL10	12/10/2020	108.4988784	-23.08887838
OHWD TSS Grant Well mid	RMW-WL10	12/11/2020	108.6100593	-23.20005933
OHWD TSS Grant Well mid	RMW-WL10	12/12/2020	108.4981172	-23.08811718
OHWD TSS Grant Well mid	RMW-WL10	12/13/2020	108.4451102	-23.03511017
OHWD TSS Grant Well mid	RMW-WL10	12/14/2020	108.4592731	-23.04927305
OHWD TSS Grant Well mid	RMW-WL10	12/15/2020	108.4674617	-23.05746169
OHWD TSS Grant Well mid	RMW-WL10	12/16/2020	108.3673758	-22.95737577
OHWD TSS Grant Well mid	RMW-WL10	12/17/2020	108.0661261	-22.65612614
OHWD TSS Grant Well mid	RMW-WL10	12/18/2020	108.2289301	-22.81893011
OHWD TSS Grant Well mid	RMW-WL10	12/19/2020	108.3142996	-22.90429955
OHWD TSS Grant Well mid	RMW-WL10	12/20/2020	108.2247781	-22.81477812
OHWD TSS Grant Well mid	RMW-WL10	12/21/2020	107.9993253	-22.5893253
OHWD TSS Grant Well mid	RMW-WL10	12/22/2020	107.9717838	-22.56178379
OHWD TSS Grant Well mid	RMW-WL10	12/23/2020	108.0270283	-22.61702827
OHWD TSS Grant Well mid	RMW-WL10	12/24/2020	108.0382848	-22.62828476
OHWD TSS Grant Well mid	RMW-WL10	12/25/2020	107.8474088	-22.43740875
OHWD TSS Grant Well mid	RMW-WL10	12/26/2020	107.8480546	-22.43805462
OHWD TSS Grant Well mid	RMW-WL10	12/27/2020	107.6810756	-22.27107559
OHWD TSS Grant Well mid	RMW-WL10	12/28/2020	107.5086759	-22.09867592
OHWD TSS Grant Well mid	RMW-WL10	12/29/2020	107.8209053	-22.41090525
OHWD TSS Grant Well mid	RMW-WL10	12/30/2020	107.9454879	-22.53548788
OHWD TSS Grant Well mid	RMW-WL10	12/31/2020	107.7762714	-22.3662714
OHWD TSS Grant Well mid	RMW-WL10	1/1/2021	107.6962995	-22.28629954
OHWD TSS Grant Well mid	RMW-WL10	1/2/2021	107.7500908	-22.34009082
OHWD TSS Grant Well mid	RMW-WL10	1/3/2021	107.691271	-22.28127102
OHWD TSS Grant Well mid	RMW-WL10	1/4/2021	107.53398	-22.12397996
OHWD TSS Grant Well mid	RMW-WL10	1/5/2021	107.6495666	-22.23956663
OHWD TSS Grant Well mid	RMW-WL10	1/6/2021	107.5888323	-22.17883231
OHWD TSS Grant Well mid	RMW-WL10	1/7/2021	107.5749462	-22.16494622
OHWD TSS Grant Well mid	RMW-WL10	1/8/2021	107.5199324	-22.10993241
OHWD TSS Grant Well mid	RMW-WL10	1/9/2021	107.4916989	-22.08169891

OHWD TSS Grant Well mid	RMW-WL10	1/10/2021	107.481342	-22.07134201
OHWD TSS Grant Well mid	RMW-WL10	1/11/2021	107.4857477	-22.07574773
OHWD TSS Grant Well mid	RMW-WL10	1/12/2021	107.4446431	-22.03464307
OHWD TSS Grant Well mid	RMW-WL10	1/13/2021	107.4627965	-22.05279648
OHWD TSS Grant Well mid	RMW-WL10	1/14/2021	107.4154869	-22.00548691
OHWD TSS Grant Well mid	RMW-WL10	1/15/2021	107.3476942	-21.93769421
OHWD TSS Grant Well mid	RMW-WL10	1/16/2021	107.2047967	-21.7947967
OHWD TSS Grant Well mid	RMW-WL10	1/17/2021	107.1215033	-21.71150325
OHWD TSS Grant Well mid	RMW-WL10	1/18/2021	106.9943372	-21.58433715
OHWD TSS Grant Well mid	RMW-WL10	1/19/2021	107.1469688	-21.73696876
OHWD TSS Grant Well mid	RMW-WL10	1/20/2021	107.4131341	-22.00313411
OHWD TSS Grant Well mid	RMW-WL10	1/21/2021	107.2963019	-21.88630185
OHWD TSS Grant Well mid	RMW-WL10	1/22/2021	107.0437458	-21.63374578
OHWD TSS Grant Well mid	RMW-WL10	1/23/2021	107.0350036	-21.62500355
OHWD TSS Grant Well mid	RMW-WL10	1/24/2021	107.0004959	-21.59049593
OHWD TSS Grant Well mid	RMW-WL10	1/25/2021	106.8537924	-21.44379244
OHWD TSS Grant Well mid	RMW-WL10	1/26/2021	106.9947062	-21.58470622
OHWD TSS Grant Well mid	RMW-WL10	1/27/2021	106.8714153	-21.46141531
OHWD TSS Grant Well mid	RMW-WL10	1/28/2021	106.7810866	-21.37108655
OHWD TSS Grant Well mid	RMW-WL10	1/29/2021	106.8271044	-21.41710439
OHWD TSS Grant Well mid	RMW-WL10	1/30/2021	107.1042725	-21.69427251
OHWD TSS Grant Well mid	RMW-WL10	1/31/2021	107.0777921	-21.66779207
OHWD TSS Grant Well mid	RMW-WL10	2/1/2021	106.9011251	-21.49112507
OHWD TSS Grant Well mid	RMW-WL10	2/2/2021	106.9007329	-21.49073294
OHWD TSS Grant Well mid	RMW-WL10	2/3/2021	106.9813968	-21.5713968
OHWD TSS Grant Well mid	RMW-WL10	2/4/2021	106.9561389	-21.54613888
OHWD TSS Grant Well mid	RMW-WL10	2/5/2021	106.9099826	-21.49998264
OHWD TSS Grant Well mid	RMW-WL10	2/6/2021	106.7806714	-21.37067135
OHWD TSS Grant Well mid	RMW-WL10	2/7/2021	106.6594334	-21.24943337
OHWD TSS Grant Well mid	RMW-WL10	2/8/2021	106.5985607	-21.18856065
OHWD TSS Grant Well mid	RMW-WL10	2/9/2021	106.6170831	-21.20708312
OHWD TSS Grant Well mid	RMW-WL10	2/10/2021	106.7290253	-21.31902527
OHWD TSS Grant Well mid	RMW-WL10	2/11/2021	106.7493469	-21.33934693
OHWD TSS Grant Well mid	RMW-WL10	2/12/2021	106.6279706	-21.21797055
OHWD TSS Grant Well mid	RMW-WL10	2/13/2021	106.5519892	-21.14198921
OHWD TSS Grant Well mid	RMW-WL10	2/14/2021	106.586566	-21.17656602
OHWD TSS Grant Well mid	RMW-WL10	2/15/2021	106.5712959	-21.16129594
OHWD TSS Grant Well mid	RMW-WL10	2/16/2021	106.6072568	-21.19725675
OHWD TSS Grant Well mid	RMW-WL10	2/17/2021	106.5909487	-21.18094867
OHWD TSS Grant Well mid	RMW-WL10	2/18/2021	106.687713	-21.27771301
OHWD TSS Grant Well mid	RMW-WL10	2/19/2021	106.629516	-21.21951601
OHWD TSS Grant Well mid	RMW-WL10	2/20/2021	106.5415862	-21.13158618
OHWD TSS Grant Well mid	RMW-WL10	2/21/2021	106.623611	-21.21361096
OHWD TSS Grant Well mid	RMW-WL10	2/22/2021	106.4967447	-21.08674473
OHWD TSS Grant Well mid	RMW-WL10	2/23/2021	106.2770816	-20.86708162
OHWD TSS Grant Well mid	RMW-WL10	2/24/2021	106.2611887	-20.85118874
OHWD TSS Grant Well mid	RMW-WL10	2/25/2021	106.3321416	-20.92214156
OHWD TSS Grant Well mid	RMW-WL10	2/26/2021	106.2677397	-20.85773965
OHWD TSS Grant Well mid	RMW-WL10	2/27/2021	106.252954	-20.84295397
OHWD TSS Grant Well mid	RMW-WL10	2/28/2021	106.3062839	-20.89628392
OHWD TSS Grant Well mid	RMW-WL10	3/1/2021	106.2270041	-20.81700406
OHWD TSS Grant Well mid	RMW-WL10	3/2/2021	106.1204595	-20.71045949
OHWD TSS Grant Well mid	RMW-WL10	3/3/2021	105.9956231	-20.58562312
OHWD TSS Grant Well mid	RMW-WL10	3/4/2021	106.5400638	-21.13006378
OHWD TSS Grant Well mid	RMW-WL10	3/5/2021	106.5745483	-21.16454833
OHWD TSS Grant Well mid	RMW-WL10	3/6/2021	106.4566319	-21.04663194
OHWD TSS Grant Well mid	RMW-WL10	3/7/2021	106.2861237	-20.87612372
OHWD TSS Grant Well mid	RMW-WL10	3/8/2021	106.2813489	-20.87134894
OHWD TSS Grant Well mid	RMW-WL10	3/9/2021	106.6028972	-21.19289717
OHWD TSS Grant Well mid	RMW-WL10	3/10/2021	106.266817	-20.85681699
OHWD TSS Grant Well mid	RMW-WL10	3/11/2021	106.2070745	-20.79707453
OHWD TSS Grant Well mid	RMW-WL10	3/12/2021	106.2635877	-20.85358767
OHWD TSS Grant Well mid	RMW-WL10	3/13/2021	106.6240031	-21.21400309
OHWD TSS Grant Well mid	RMW-WL10	3/14/2021	106.97766	-21.56766001
OHWD TSS Grant Well mid	RMW-WL10	3/15/2021	106.6203586	-21.21035857
OHWD TSS Grant Well mid	RMW-WL10	3/16/2021	106.9353328	-21.52533282
OHWD TSS Grant Well mid	RMW-WL10	3/17/2021	107.1535889	-21.74358887
OHWD TSS Grant Well mid	RMW-WL10	3/18/2021	107.3687771	-21.95877707
OHWD TSS Grant Well mid	RMW-WL10	3/19/2021	107.6561867	-22.24618674
OHWD TSS Grant Well mid	RMW-WL10	3/20/2021	107.6406168	-22.2306168
OHWD TSS Grant Well mid	RMW-WL10	3/21/2021	107.3282491	-21.91824907
OHWD TSS Grant Well mid	RMW-WL10	3/22/2021	106.9293586	-21.51935858
OHWD TSS Grant Well mid	RMW-WL10	3/23/2021	106.6637468	-21.25374682
OHWD TSS Grant Well mid	RMW-WL10	3/24/2021	106.8967655	-21.48676549
OHWD TSS Grant Well mid	RMW-WL10	3/25/2021	106.9934837	-21.58348369
OHWD TSS Grant Well mid	RMW-WL10	3/26/2021	107.4474803	-22.03748026
OHWD TSS Grant Well mid	RMW-WL10	3/27/2021	107.0812521	-21.67125205
OHWD TSS Grant Well mid	RMW-WL10	3/28/2021	106.9247914	-21.51479139
OHWD TSS Grant Well mid	RMW-WL10	3/29/2021	106.9247683	-21.51476833
OHWD TSS Grant Well mid	RMW-WL10	3/30/2021	108.2318365	-22.8218365
OHWD TSS Grant Well mid	RMW-WL10	3/31/2021	108.0646268	-22.65462681
OHWD TSS Grant Well mid	RMW-WL10	4/1/2021	107.927173	-22.51717301
OHWD TSS Grant Well mid	RMW-WL10	4/2/2021	108.6289739	-23.21897393
OHWD TSS Grant Well mid	RMW-WL10	4/3/2021	108.5347008	-23.12470079
OHWD TSS Grant Well mid	RMW-WL10	4/4/2021	108.4309704	-23.02097035

OHWD TSS Grant Well mid	RMW-WL10	4/5/2021	107.9974108	-22.58741077
OHWD TSS Grant Well mid	RMW-WL10	4/6/2021	109.1444891	-23.73448909
OHWD TSS Grant Well mid	RMW-WL10	4/7/2021	109.5435872	-24.13358719
OHWD TSS Grant Well mid	RMW-WL10	4/8/2021	109.6546067	-24.24460667
OHWD TSS Grant Well mid	RMW-WL10	4/9/2021	109.5275328	-24.11753284
OHWD TSS Grant Well mid	RMW-WL10	4/10/2021	109.2409766	-23.83097663
OHWD TSS Grant Well mid	RMW-WL10	4/11/2021	108.8169897	-23.40698969
OHWD TSS Grant Well mid	RMW-WL10	4/12/2021	108.8923944	-23.48239436
OHWD TSS Grant Well mid	RMW-WL10	4/13/2021	109.1770591	-23.76705912
OHWD TSS Grant Well mid	RMW-WL10	4/14/2021	109.7079136	-24.29791356
OHWD TSS Grant Well mid	RMW-WL10	4/15/2021	110.0084481	-24.59844812
OHWD TSS Grant Well mid	RMW-WL10	4/16/2021	110.3905461	-24.98054614
OHWD TSS Grant Well mid	RMW-WL10	4/17/2021	110.3743073	-24.96430727
OHWD TSS Grant Well mid	RMW-WL10	4/18/2021	110.1379901	-24.72799008
OHWD TSS Grant Well mid	RMW-WL10	4/19/2021	110.1118326	-24.70183257
OHWD TSS Grant Well mid	RMW-WL10	4/20/2021	110.7149085	-25.3049085
OHWD TSS Grant Well mid	RMW-WL10	4/21/2021	110.5840748	-25.17407481
OHWD TSS Grant Well mid	RMW-WL10	4/22/2021	110.0189434	-24.60894342
OHWD TSS Grant Well mid	RMW-WL10	4/23/2021	110.6150532	-25.20505324
OHWD TSS Grant Well mid	RMW-WL10	4/24/2021	110.3885624	-24.97856242
OHWD TSS Grant Well mid	RMW-WL10	4/25/2021	109.7949438	-24.38494379
OHWD TSS Grant Well mid	RMW-WL10	4/26/2021	109.8267296	-24.41672955
OHWD TSS Grant Well mid	RMW-WL10	4/27/2021	110.0701743	-24.66017431
OHWD TSS Grant Well mid	RMW-WL10	4/28/2021	110.8436201	-25.43362005
OHWD TSS Grant Well mid	RMW-WL10	4/29/2021	111.2583573	-25.84835729
OHWD TSS Grant Well mid	RMW-WL10	4/30/2021	111.5847956	-26.17479564
OHWD TSS Grant Well mid	RMW-WL10	5/1/2021	111.7977925	-26.38779251
OHWD TSS Grant Well mid	RMW-WL10	5/2/2021	111.4699702	-26.05997017
OHWD TSS Grant Well mid	RMW-WL10	5/3/2021	111.3078582	-25.89785819
OHWD TSS Grant Well mid	RMW-WL10	5/4/2021	111.5582921	-26.14829213
OHWD TSS Grant Well mid	RMW-WL10	5/5/2021	111.5403694	-26.13036939
OHWD TSS Grant Well mid	RMW-WL10	5/6/2021	112.1152349	-26.70523488
OHWD TSS Grant Well mid	RMW-WL10	5/7/2021	112.665719	-27.25571899
OHWD TSS Grant Well mid	RMW-WL10	5/8/2021	112.8630536	-27.45305364
OHWD TSS Grant Well mid	RMW-WL10	5/9/2021	112.9356442	-27.5256442
OHWD TSS Grant Well mid	RMW-WL10	5/10/2021	112.8426167	-27.43261665
OHWD TSS Grant Well mid	RMW-WL10	5/11/2021	112.5395217	-27.12952169
OHWD TSS Grant Well mid	RMW-WL10	5/12/2021	112.9015979	-27.49159791
OHWD TSS Grant Well mid	RMW-WL10	5/13/2021	112.9789171	-27.56891711
OHWD TSS Grant Well mid	RMW-WL10	5/14/2021	113.054737	-27.64473699
OHWD TSS Grant Well mid	RMW-WL10	5/15/2021	112.8300915	-27.42009149
OHWD TSS Grant Well mid	RMW-WL10	5/16/2021	112.2433698	-26.83336977
OHWD TSS Grant Well mid	RMW-WL10	5/17/2021	111.8860914	-26.4760914
OHWD TSS Grant Well mid	RMW-WL10	5/18/2021	112.4348225	-27.02482245
OHWD TSS Grant Well mid	RMW-WL10	5/19/2021	112.3050729	-26.8950729
OHWD TSS Grant Well mid	RMW-WL10	5/20/2021	112.7081615	-27.29816151
OHWD TSS Grant Well mid	RMW-WL10	5/21/2021	112.4549596	-27.04495958
OHWD TSS Grant Well mid	RMW-WL10	5/22/2021	112.4725825	-27.06258245
OHWD TSS Grant Well mid	RMW-WL10	5/23/2021	112.7165808	-27.30658081
OHWD TSS Grant Well mid	RMW-WL10	5/24/2021	112.6340716	-27.22407163
OHWD TSS Grant Well mid	RMW-WL10	5/25/2021	113.0473557	-27.63735568
OHWD TSS Grant Well mid	RMW-WL10	5/26/2021	113.3989366	-27.9889366
OHWD TSS Grant Well mid	RMW-WL10	5/27/2021	113.2886091	-27.87860912
OHWD TSS Grant Well mid	RMW-WL10	5/28/2021	113.0252348	-27.61523482
OHWD TSS Grant Well mid	RMW-WL10	5/29/2021	112.6301734	-27.22017338
OHWD TSS Grant Well mid	RMW-WL10	5/30/2021	112.3935102	-26.98351019
OHWD TSS Grant Well mid	RMW-WL10	5/31/2021	112.0731614	-26.66316143
OHWD TSS Grant Well mid	RMW-WL10	6/1/2021	112.745737	-27.33573698
OHWD TSS Grant Well mid	RMW-WL10	6/2/2021	113.3188263	-27.90882634
OHWD TSS Grant Well mid	RMW-WL10	6/3/2021	113.608658	-28.19865801
OHWD TSS Grant Well mid	RMW-WL10	6/4/2021	113.5180525	-28.10805246
OHWD TSS Grant Well mid	RMW-WL10	6/5/2021	113.1017236	-27.69172362
OHWD TSS Grant Well mid	RMW-WL10	6/6/2021	113.1087359	-27.69873587
OHWD TSS Grant Well mid	RMW-WL10	6/7/2021	113.2495574	-27.83955738
OHWD TSS Grant Well mid	RMW-WL10	6/8/2021	114.480229	-29.07022902
OHWD TSS Grant Well mid	RMW-WL10	6/9/2021	114.3035851	-28.89358509
OHWD TSS Grant Well mid	RMW-WL10	6/10/2021	114.7925045	-29.38250448
OHWD TSS Grant Well mid	RMW-WL10	6/11/2021	114.4112138	-29.00121379
OHWD TSS Grant Well mid	RMW-WL10	6/12/2021	114.3293274	-28.9193274
OHWD TSS Grant Well mid	RMW-WL10	6/13/2021	113.6633489	-28.25334889
OHWD TSS Grant Well mid	RMW-WL10	6/14/2021	113.9010039	-28.49100394
OHWD TSS Grant Well mid	RMW-WL10	6/15/2021	114.8350393	-29.42503927
OHWD TSS Grant Well mid	RMW-WL10	6/16/2021	114.495453	-29.08545297
OHWD TSS Grant Well mid	RMW-WL10	6/17/2021	113.8439603	-28.43396027
OHWD TSS Grant Well mid	RMW-WL10	6/18/2021	114.0862517	-28.67625171
OHWD TSS Grant Well mid	RMW-WL10	6/19/2021	113.6562675	-28.24626745
OHWD TSS Grant Well mid	RMW-WL10	6/20/2021	113.1969886	-27.78698863
OHWD TSS Grant Well mid	RMW-WL10	6/21/2021	113.6226133	-28.2126133
OHWD TSS Grant Well mid	RMW-WL10	6/22/2021	114.7870838	-29.37708383
OHWD TSS Grant Well mid	RMW-WL10	6/23/2021	115.3218365	-29.91183653
OHWD TSS Grant Well mid	RMW-WL10	6/24/2021	115.1298995	-29.71989945
OHWD TSS Grant Well mid	RMW-WL10	6/25/2021	115.6951	-30.28510004
OHWD TSS Grant Well mid	RMW-WL10	6/26/2021	115.1644301	-29.75443013
OHWD TSS Grant Well mid	RMW-WL10	6/27/2021	114.6914959	-29.28149589
OHWD TSS Grant Well mid	RMW-WL10	6/28/2021	114.4896402	-29.07964019

OHWD TSS Grant Well mid	RMW-WL10	6/29/2021	115.109647	-29.69964699
OHWD TSS Grant Well mid	RMW-WL10	6/30/2021	115.1933095	-29.7833095
OHWD TSS Grant Well mid	RMW-WL10	7/1/2021	115.1730109	-29.7630109
OHWD TSS Grant Well mid	RMW-WL10	7/2/2021	115.2313694	-29.82136937
OHWD TSS Grant Well mid	RMW-WL10	7/3/2021	114.8371153	-29.42711526
OHWD TSS Grant Well mid	RMW-WL10	7/4/2021	114.7040903	-29.29409025
OHWD TSS Grant Well mid	RMW-WL10	7/5/2021	114.5539498	-29.14394983
OHWD TSS Grant Well mid	RMW-WL10	7/6/2021	115.2867984	-29.87679838
OHWD TSS Grant Well mid	RMW-WL10	7/7/2021	115.2062037	-29.79620372
OHWD TSS Grant Well mid	RMW-WL10	7/8/2021	115.0375639	-29.6275639
OHWD TSS Grant Well mid	RMW-WL10	7/9/2021	115.6552871	-30.24528711
OHWD TSS Grant Well mid	RMW-WL10	7/10/2021	115.6338121	-30.22381212
OHWD TSS Grant Well mid	RMW-WL10	7/11/2021	115.1392876	-29.72928755
OHWD TSS Grant Well mid	RMW-WL10	7/12/2021	115.2472853	-29.83728531
OHWD TSS Grant Well mid	RMW-WL10	7/13/2021	116.3490378	-30.93903779
OHWD TSS Grant Well mid	RMW-WL10	7/14/2021	116.5648488	-31.15484879
OHWD TSS Grant Well mid	RMW-WL10	7/15/2021	115.9140481	-30.50404809
OHWD TSS Grant Well mid	RMW-WL10	7/16/2021	115.6495666	-30.2395666
OHWD TSS Grant Well mid	RMW-WL10	7/17/2021	115.6500049	-30.24000486
OHWD TSS Grant Well mid	RMW-WL10	7/18/2021	115.4805116	-30.07051158
OHWD TSS Grant Well mid	RMW-WL10	7/19/2021	115.6732791	-30.26327905
OHWD TSS Grant Well mid	RMW-WL10	7/20/2021	116.4438184	-31.0338184
OHWD TSS Grant Well mid	RMW-WL10	7/21/2021	116.243785	-30.83378496
OHWD TSS Grant Well mid	RMW-WL10	7/22/2021	116.7321277	-31.32212768
OHWD TSS Grant Well mid	RMW-WL10	7/23/2021	117.0760966	-31.66609663
OHWD TSS Grant Well mid	RMW-WL10	7/24/2021	116.8698813	-31.45988134
OHWD TSS Grant Well mid	RMW-WL10	7/25/2021	116.5408826	-31.1308826
OHWD TSS Grant Well mid	RMW-WL10	7/26/2021	116.220949	-30.81094903
OHWD TSS Grant Well mid	RMW-WL10	7/27/2021	116.7722866	-31.36228661
OHWD TSS Grant Well mid	RMW-WL10	7/28/2021	116.9988466	-31.58884663
OHWD TSS Grant Well mid	RMW-WL10	7/29/2021	116.705924	-31.29592403
OHWD TSS Grant Well mid	RMW-WL10	7/30/2021	116.6641043	-31.25410431
OHWD TSS Grant Well mid	RMW-WL10	7/31/2021	116.5422666	-31.1322666
OHWD TSS Grant Well mid	RMW-WL10	8/1/2021	116.416992	-31.00699196
OHWD TSS Grant Well mid	RMW-WL10	8/2/2021	116.1808593	-30.77085931
OHWD TSS Grant Well mid	RMW-WL10	8/3/2021	116.6512562	-31.24125622
OHWD TSS Grant Well mid	RMW-WL10	8/4/2021	117.5498151	-32.13981513
OHWD TSS Grant Well mid	RMW-WL10	8/5/2021	116.9921804	-31.58218038
OHWD TSS Grant Well mid	RMW-WL10	8/6/2021	117.1483181	-31.73831811
OHWD TSS Grant Well mid	RMW-WL10	8/7/2021	117.0712988	-31.66129878
OHWD TSS Grant Well mid	RMW-WL10	8/8/2021	116.6218694	-31.21186939
OHWD TSS Grant Well mid	RMW-WL10	8/9/2021	116.7020489	-31.29204885
OHWD TSS Grant Well mid	RMW-WL10	8/10/2021	117.1374076	-31.72740762
OHWD TSS Grant Well mid	RMW-WL10	8/11/2021	117.0092497	-31.59924966
OHWD TSS Grant Well mid	RMW-WL10	8/12/2021	117.0612879	-31.65128788
OHWD TSS Grant Well mid	RMW-WL10	8/13/2021	117.1945666	-31.78456662
OHWD TSS Grant Well mid	RMW-WL10	8/14/2021	117.550807	-32.140807
OHWD TSS Grant Well mid	RMW-WL10	8/15/2021	117.0721984	-31.66219837
OHWD TSS Grant Well mid	RMW-WL10	8/16/2021	116.8954391	-31.48543912
OHWD TSS Grant Well mid	RMW-WL10	8/17/2021	117.1497021	-31.73970211
OHWD TSS Grant Well mid	RMW-WL10	8/18/2021	117.5186983	-32.10869831
OHWD TSS Grant Well mid	RMW-WL10	8/19/2021	117.521374	-32.11137403
OHWD TSS Grant Well mid	RMW-WL10	8/20/2021	117.3102686	-31.90026862
OHWD TSS Grant Well mid	RMW-WL10	8/21/2021	117.3459988	-31.93599877
OHWD TSS Grant Well mid	RMW-WL10	8/22/2021	117.0685769	-31.65857692
OHWD TSS Grant Well mid	RMW-WL10	8/23/2021	116.7172728	-31.30727279
OHWD TSS Grant Well mid	RMW-WL10	8/24/2021	117.2411611	-31.83116113
OHWD TSS Grant Well mid	RMW-WL10	8/25/2021	117.5098177	-32.09981767
OHWD TSS Grant Well mid	RMW-WL10	8/26/2021	117.0733748	-31.66337477
OHWD TSS Grant Well mid	RMW-WL10	8/27/2021	117.0160774	-31.60607737
OHWD TSS Grant Well mid	RMW-WL10	8/28/2021	116.8994758	-31.48947577
OHWD TSS Grant Well mid	RMW-WL10	8/29/2021	116.6715779	-31.26157789
OHWD TSS Grant Well mid	RMW-WL10	8/30/2021	116.6060226	-31.19602264
OHWD TSS Grant Well mid	RMW-WL10	8/31/2021	117.1641418	-31.75414179
OHWD TSS Grant Well mid	RMW-WL10	9/1/2021	118.0066258	-32.59662583
OHWD TSS Grant Well mid	RMW-WL10	9/2/2021	117.8846497	-32.47464971
OHWD TSS Grant Well mid	RMW-WL10	9/3/2021	117.5933649	-32.18336485
OHWD TSS Grant Well mid	RMW-WL10	9/4/2021	117.5201515	-32.1101515
OHWD TSS Grant Well mid	RMW-WL10	9/5/2021	116.9534977	-31.54349772
OHWD TSS Grant Well mid	RMW-WL10	9/6/2021	116.9416646	-31.53166456
OHWD TSS Grant Well mid	RMW-WL10	9/7/2021	117.405995	-31.99599496
OHWD TSS Grant Well mid	RMW-WL10	9/8/2021	117.2822889	-31.87228885
OHWD TSS Grant Well mid	RMW-WL10	9/9/2021	117.6477789	-32.23777893
OHWD TSS Grant Well mid	RMW-WL10	9/10/2021	117.4976155	-32.08761545
OHWD TSS Grant Well mid	RMW-WL10	9/11/2021	117.8703023	-32.4603023
OHWD TSS Grant Well mid	RMW-WL10	9/12/2021	117.4145757	-32.00457573
OHWD TSS Grant Well mid	RMW-WL10	9/13/2021	117.0053053	-31.59530527
OHWD TSS Grant Well mid	RMW-WL10	9/14/2021	117.0759813	-31.66598129
OHWD TSS Grant Well mid	RMW-WL10	9/15/2021	117.0977792	-31.68777922
OHWD TSS Grant Well mid	RMW-WL10	9/16/2021	117.5650622	-32.15506215
OHWD TSS Grant Well mid	RMW-WL10	9/17/2021	117.2384393	-31.82843927
OHWD TSS Grant Well mid	RMW-WL10	9/18/2021	117.0894061	-31.67940605
OHWD TSS Grant Well mid	RMW-WL10	9/19/2021	116.8318676	-31.4218676
OHWD TSS Grant Well mid	RMW-WL10	9/20/2021	116.5657945	-31.15579452
OHWD TSS Grant Well mid	RMW-WL10	9/21/2021	116.8397102	-31.42971024

OHWD TSS Grant Well mid	RMW-WL10	9/22/2021	117.1559532	-31.74595315
OHWD TSS Grant Well mid	RMW-WL10	9/23/2021	117.089383	-31.67938298
OHWD TSS Grant Well mid	RMW-WL10	9/24/2021	117.0262497	-31.61624973
OHWD TSS Grant Well mid	RMW-WL10	9/25/2021	117.0247735	-31.61477347
OHWD TSS Grant Well mid	RMW-WL10	9/26/2021	116.5037915	-31.09379153
OHWD TSS Grant Well mid	RMW-WL10	9/27/2021	116.5067671	-31.09676712
OHWD TSS Grant Well mid	RMW-WL10	9/28/2021	117.1976114	-31.78761141
OHWD TSS Grant Well mid	RMW-WL10	9/29/2021	116.9874979	-31.57749787
OHWD TSS Grant Well mid	RMW-WL10	9/30/2021	117.1456193	-31.73561932
OHWD TSS Grant Well mid	RMW-WL10	10/1/2021	117.4071252	-31.99712522
OHWD TSS Grant Well mid	RMW-WL10	10/2/2021	117.0372294	-31.62722943
OHWD TSS Grant Well mid	RMW-WL10	10/3/2021	116.832698	-31.422698
OHWD TSS Grant Well mid	RMW-WL10	10/4/2021	116.575298	-31.16529795
OHWD TSS Grant Well mid	RMW-WL10	10/5/2021	117.2237459	-31.81374585
OHWD TSS Grant Well mid	RMW-WL10	10/6/2021	116.9657691	-31.55576914
OHWD TSS Grant Well mid	RMW-WL10	10/7/2021	116.8663983	-31.45639828
OHWD TSS Grant Well mid	RMW-WL10	10/8/2021	116.5824255	-31.17242552
OHWD TSS Grant Well mid	RMW-WL10	10/9/2021	116.6410839	-31.23108386
OHWD TSS Grant Well mid	RMW-WL10	10/10/2021	116.3900963	-30.98009632
OHWD TSS Grant Well mid	RMW-WL10	10/11/2021	116.2239477	-30.81394769
OHWD TSS Grant Well mid	RMW-WL10	10/12/2021	116.8465149	-31.43651488
OHWD TSS Grant Well mid	RMW-WL10	10/13/2021	117.0164695	-31.6064695
OHWD TSS Grant Well mid	RMW-WL10	10/14/2021	117.3377179	-31.92771786
OHWD TSS Grant Well mid	RMW-WL10	10/15/2021	117.9015114	-32.49151139
OHWD TSS Grant Well mid	RMW-WL10	10/16/2021	117.369619	-31.95961895
OHWD TSS Grant Well mid	RMW-WL10	10/17/2021	116.4154926	-31.00549263
OHWD TSS Grant Well mid	RMW-WL10	10/18/2021	116.2861813	-30.87618134
OHWD TSS Grant Well mid	RMW-WL10	10/19/2021	116.703848	-31.29384804
OHWD TSS Grant Well mid	RMW-WL10	10/20/2021	116.8992682	-31.48926817
OHWD TSS Grant Well mid	RMW-WL10	10/21/2021	116.8411865	-31.4311865
OHWD TSS Grant Well mid	RMW-WL10	10/22/2021	116.1463056	-30.73630556
OHWD TSS Grant Well mid	RMW-WL10	10/23/2021	115.7996148	-30.38961475
OHWD TSS Grant Well mid	RMW-WL10	10/24/2021	115.3298176	-29.91981756
OHWD TSS Grant Well mid	RMW-WL10	10/25/2021	115.1114231	-29.70142312
OHWD TSS Grant Well mid	RMW-WL10	10/26/2021	115.5089066	-30.09890655
OHWD TSS Grant Well mid	RMW-WL10	10/27/2021	115.600873	-30.19087303
OHWD TSS Grant Well mid	RMW-WL10	10/28/2021	115.3717065	-29.96170649
OHWD TSS Grant Well mid	RMW-WL10	10/29/2021	115.0044634	-29.59446335
OHWD TSS Grant Well mid	RMW-WL10	10/30/2021	114.8438276	-29.43382764
OHWD TSS Grant Well mid	RMW-WL10	10/31/2021	114.8144177	-29.40441774
OHWD TSS Grant Well mid	RMW-WL10	11/1/2021	114.7935655	-29.38356554
OHWD TSS Grant Well mid	RMW-WL10	11/2/2021	114.8693393	-29.45933928
OHWD TSS Grant Well mid	RMW-WL10	11/3/2021	114.7479398	-29.33793983
OHWD TSS Grant Well mid	RMW-WL10	11/4/2021	114.6421334	-29.2321334
OHWD TSS Grant Well mid	RMW-WL10	11/5/2021	114.5105847	-29.10058465
OHWD TSS Grant Well mid	RMW-WL10	11/6/2021	114.4636441	-29.05364414
OHWD TSS Grant Well mid	RMW-WL10	11/7/2021	114.4461827	-29.03618274
OHWD TSS Grant Well mid	RMW-WL10	11/8/2021	114.3350941	-28.92509405
OHWD TSS Grant Well mid	RMW-WL10	11/9/2021	114.2699309	-28.85993094
OHWD TSS Grant Well mid	RMW-WL10	11/10/2021	114.3719545	-28.96195446
OHWD TSS Grant Well mid	RMW-WL10	11/11/2021	114.294543	-28.88454299
OHWD TSS Grant Well mid	RMW-WL10	11/12/2021	114.1815629	-28.77156285
OHWD TSS Grant Well mid	RMW-WL10	11/13/2021	114.0758717	-28.66587174
OHWD TSS Grant Well mid	RMW-WL10	11/14/2021	114.0130614	-28.60306142
OHWD TSS Grant Well mid	RMW-WL10	11/15/2021	113.9196418	-28.50964175
OHWD TSS Grant Well mid	RMW-WL10	11/16/2021	113.8741083	-28.4641083
OHWD TSS Grant Well mid	RMW-WL10	11/17/2021	113.8216088	-28.41160875
OHWD TSS Grant Well mid	RMW-WL10	11/18/2021	113.7900306	-28.38003059
OHWD TSS Grant Well mid	RMW-WL10	11/19/2021	113.79642	-28.38642004
OHWD TSS Grant Well mid	RMW-WL10	11/20/2021	113.794667	-28.38466698
OHWD TSS Grant Well mid	RMW-WL10	11/21/2021	113.7720848	-28.36208479
OHWD TSS Grant Well mid	RMW-WL10	11/22/2021	113.6735443	-28.26354433
OHWD TSS Grant Well mid	RMW-WL10	11/23/2021	113.5244419	-28.1144419
OHWD TSS Grant Well mid	RMW-WL10	11/24/2021	113.5741504	-28.1641504
OHWD TSS Grant Well mid	RMW-WL10	11/25/2021	113.7075675	-28.29756754
OHWD TSS Grant Well mid	RMW-WL10	11/26/2021	113.551153	-28.14115301
OHWD TSS Grant Well mid	RMW-WL10	11/27/2021	113.3995825	-27.98958247
OHWD TSS Grant Well mid	RMW-WL10	11/28/2021	113.409801	-27.99980097
OHWD TSS Grant Well mid	RMW-WL10	11/29/2021	113.3548564	-27.94485635
OHWD TSS Grant Well mid	RMW-WL10	11/30/2021	113.2926688	-27.88266883
OHWD TSS Grant Well mid	RMW-WL10	12/1/2021	113.2412303	-27.83123034
OHWD TSS Grant Well mid	RMW-WL10	12/2/2021	113.1904608	-27.78046079
OHWD TSS Grant Well mid	RMW-WL10	12/3/2021	113.1542232	-27.74422318
OHWD TSS Grant Well mid	RMW-WL10	12/4/2021	113.1822722	-27.77227215
OHWD TSS Grant Well mid	RMW-WL10	12/5/2021	113.2147038	-27.80470377
OHWD TSS Grant Well mid	RMW-WL10	12/6/2021	113.0796258	-27.66962583
OHWD TSS Grant Well mid	RMW-WL10	12/7/2021	112.9091176	-27.49911762
OHWD TSS Grant Well mid	RMW-WL10	12/8/2021	112.9341449	-27.52414487
OHWD TSS Grant Well mid	RMW-WL10	12/9/2021	112.7917318	-27.38173176
OHWD TSS Grant Well mid	RMW-WL10	12/10/2021	112.9641084	-27.55410836
OHWD TSS Grant Well mid	RMW-WL10	12/11/2021	112.9884436	-27.57844361
OHWD TSS Grant Well mid	RMW-WL10	12/12/2021	112.7560478	-27.34604775
OHWD TSS Grant Well mid	RMW-WL10	12/13/2021	112.5066749	-27.09667487
OHWD TSS Grant Well mid	RMW-WL10	12/14/2021	112.4761116	-27.06611164
OHWD TSS Grant Well mid	RMW-WL10	12/15/2021	112.8204958	-27.41049579

OHWD TSS Grant Well mid	RMW-WL10	12/16/2021	112.7201331	-27.31013307
OHWD TSS Grant Well mid	RMW-WL10	12/17/2021	112.8246939	-27.41469391
OHWD TSS Grant Well mid	RMW-WL10	12/18/2021	112.8223181	-27.41231805
OHWD TSS Grant Well mid	RMW-WL10	12/19/2021	112.6039697	-27.19396974
OHWD TSS Grant Well mid	RMW-WL10	12/20/2021	112.588123	-27.17812299
OHWD TSS Grant Well mid	RMW-WL10	12/21/2021	112.5591514	-27.14915136
OHWD TSS Grant Well mid	RMW-WL10	12/22/2021	112.436737	-27.02673698
OHWD TSS Grant Well mid	RMW-WL10	12/23/2021	112.0569918	-26.64699175
OHWD TSS Grant Well mid	RMW-WL10	12/24/2021	112.0109508	-26.60095084
OHWD TSS Grant Well mid	RMW-WL10	12/25/2021	112.1718634	-26.76186335
OHWD TSS Grant Well mid	RMW-WL10	12/26/2021	112.3024664	-26.89246637
OHWD TSS Grant Well mid	RMW-WL10	12/27/2021	112.1766381	-26.76663814
OHWD TSS Grant Well mid	RMW-WL10	12/28/2021	112.1529488	-26.74294875
OHWD TSS Grant Well mid	RMW-WL10	12/29/2021	112.0024623	-26.59246234
OHWD TSS Grant Well mid	RMW-WL10	12/30/2021	112.123585	-26.71358499
OHWD TSS Grant Well mid	RMW-WL10	12/31/2021	112.0924682	-26.68246816
OHWD TSS Grant Well mid	RMW-WL10	1/1/2022	112.3104705	-26.90047048
OHWD TSS Grant Well mid	RMW-WL10	1/2/2022	112.4079729	-26.99797294
OHWD TSS Grant Well mid	RMW-WL10	1/3/2022	112.2355733	-26.82557327
OHWD TSS Grant Well mid	RMW-WL10	1/4/2022	112.2429546	-26.83295458
OHWD TSS Grant Well mid	RMW-WL10	1/5/2022	112.1818743	-26.77187425
OHWD TSS Grant Well mid	RMW-WL10	1/6/2022	111.9970417	-26.58704169
OHWD TSS Grant Well mid	RMW-WL10	1/7/2022	111.8054045	-26.39540448
OHWD TSS Grant Well mid	RMW-WL10	1/8/2022	111.895987	-26.48598697
OHWD TSS Grant Well mid	RMW-WL10	1/9/2022	112.0213539	-26.61135387
OHWD TSS Grant Well mid	RMW-WL10	1/10/2022	112.1084764	-26.69847637
OHWD TSS Grant Well mid	RMW-WL10	1/11/2022	112.0252291	-26.61522906
OHWD TSS Grant Well mid	RMW-WL10	1/12/2022	111.8775798	-26.46757983
OHWD TSS Grant Well mid	RMW-WL10	1/13/2022	111.7968468	-26.38684678
OHWD TSS Grant Well mid	RMW-WL10	1/14/2022	111.7069794	-26.29697935
OHWD TSS Grant Well mid	RMW-WL10	1/15/2022	111.7045804	-26.29458043
OHWD TSS Grant Well mid	RMW-WL10	1/16/2022	111.5995352	-26.18953519
OHWD TSS Grant Well mid	RMW-WL10	1/17/2022	111.5106596	-26.10065963
OHWD TSS Grant Well mid	RMW-WL10	1/18/2022	111.5172105	-26.10721054
OHWD TSS Grant Well mid	RMW-WL10	1/19/2022	111.60604	-26.19603997
OHWD TSS Grant Well mid	RMW-WL10	1/20/2022	111.6629683	-26.2529683
OHWD TSS Grant Well mid	RMW-WL10	1/21/2022	111.5101291	-26.1001291
OHWD TSS Grant Well mid	RMW-WL10	1/22/2022	111.4047379	-25.99473786
OHWD TSS Grant Well mid	RMW-WL10	1/23/2022	111.4877545	-26.07775451
OHWD TSS Grant Well mid	RMW-WL10	1/24/2022	111.3923972	-25.98239723
OHWD TSS Grant Well mid	RMW-WL10	1/25/2022	111.2570656	-25.84706557
OHWD TSS Grant Well mid	RMW-WL10	1/26/2022	111.3070047	-25.89700473
OHWD TSS Grant Well mid	RMW-WL10	1/27/2022	111.3655016	-25.95550159
OHWD TSS Grant Well mid	RMW-WL10	1/28/2022	111.4210459	-26.01104594
OHWD TSS Grant Well mid	RMW-WL10	1/29/2022	111.309865	-25.89986498
OHWD TSS Grant Well mid	RMW-WL10	1/30/2022	111.2831539	-25.87315388
OHWD TSS Grant Well mid	RMW-WL10	1/31/2022	111.2429719	-25.83297188
OHWD TSS Grant Well mid	RMW-WL10	2/1/2022	111.0628449	-25.6528449
OHWD TSS Grant Well mid	RMW-WL10	2/2/2022	111.3160238	-25.90602376
OHWD TSS Grant Well mid	RMW-WL10	2/3/2022	111.4453351	-26.03533505
OHWD TSS Grant Well mid	RMW-WL10	2/4/2022	111.467848	-26.05784804
OHWD TSS Grant Well mid	RMW-WL10	2/5/2022	111.2797862	-25.86978615
OHWD TSS Grant Well mid	RMW-WL10	2/6/2022	111.182376	-25.77237596
OHWD TSS Grant Well mid	RMW-WL10	2/7/2022	111.1675903	-25.75759027
OHWD TSS Grant Well mid	RMW-WL10	2/8/2022	111.3522383	-25.94223831
OHWD TSS Grant Well mid	RMW-WL10	2/9/2022	111.319207	-25.90920695
OHWD TSS Grant Well mid	RMW-WL10	2/10/2022	111.1756867	-25.76568665
OHWD TSS Grant Well mid	RMW-WL10	2/11/2022	111.1640842	-25.75408415
OHWD TSS Grant Well mid	RMW-WL10	2/12/2022	111.1087935	-25.69879354
OHWD TSS Grant Well mid	RMW-WL10	2/13/2022	111.273835	-25.86383497
OHWD TSS Grant Well mid	RMW-WL10	2/14/2022	111.1071328	-25.69713275
OHWD TSS Grant Well mid	RMW-WL10	2/15/2022	111.7308302	-26.3208302
OHWD TSS Grant Well mid	RMW-WL10	2/16/2022	111.4601899	-26.05018993
OHWD TSS Grant Well mid	RMW-WL10	2/17/2022	111.6973145	-26.28731445
OHWD TSS Grant Well mid	RMW-WL10	2/18/2022	111.8505919	-26.44059193
OHWD TSS Grant Well mid	RMW-WL10	2/19/2022	111.6752397	-26.26523973
OHWD TSS Grant Well mid	RMW-WL10	2/20/2022	111.2791172	-25.86911722
OHWD TSS Grant Well mid	RMW-WL10	2/21/2022	111.191741	-25.78174099
OHWD TSS Grant Well mid	RMW-WL10	2/22/2022	111.3295639	-25.91956385
OHWD TSS Grant Well mid	RMW-WL10	2/23/2022	111.7211192	-26.31111917
OHWD TSS Grant Well mid	RMW-WL10	2/24/2022	112.1789909	-26.76899093
OHWD TSS Grant Well mid	RMW-WL10	2/25/2022	112.4466095	-27.03660948
OHWD TSS Grant Well mid	RMW-WL10	2/26/2022	111.9590972	-26.54909715
OHWD TSS Grant Well mid	RMW-WL10	2/27/2022	111.7255941	-26.31559409
OHWD TSS Grant Well mid	RMW-WL10	2/28/2022	111.5586151	-26.14861506
OHWD TSS Grant Well mid	RMW-WL10	3/1/2022	111.7314991	-26.32149913
OHWD TSS Grant Well mid	RMW-WL10	3/2/2022	111.4197081	-26.00970807
OHWD TSS Grant Well mid	RMW-WL10	3/3/2022	111.5375783	-26.12757833
OHWD TSS Grant Well mid	RMW-WL10	3/4/2022	111.6131675	-26.20316754
OHWD TSS Grant Well mid	RMW-WL10	3/5/2022	111.7849906	-26.37499055
OHWD TSS Grant Well mid	RMW-WL10	3/6/2022	111.7124923	-26.30249227
OHWD TSS Grant Well mid	RMW-WL10	3/7/2022	111.5500804	-26.14008043
OHWD TSS Grant Well mid	RMW-WL10	3/8/2022	111.8015754	-26.39157543
OHWD TSS Grant Well mid	RMW-WL10	3/9/2022	111.5866179	-26.1766179
OHWD TSS Grant Well mid	RMW-WL10	3/10/2022	111.7042344	-26.29423443

OHWD TSS Grant Well mid	RMW-WL10	3/11/2022	112.0867477	-26.67674765
OHWD TSS Grant Well mid	RMW-WL10	3/12/2022	111.9513699	-26.54136985
OHWD TSS Grant Well mid	RMW-WL10	3/13/2022	111.9444037	-26.53440374
OHWD TSS Grant Well mid	RMW-WL10	3/14/2022	111.6335815	-26.22358147
OHWD TSS Grant Well mid	RMW-WL10	3/15/2022	111.9405978	-26.53059775
OHWD TSS Grant Well mid	RMW-WL10	3/16/2022	111.6963687	-26.28636872
OHWD TSS Grant Well mid	RMW-WL10	3/17/2022	111.4510786	-26.04107863
OHWD TSS Grant Well mid	RMW-WL10	3/18/2022	111.6449994	-26.23499943
OHWD TSS Grant Well mid	RMW-WL10	3/19/2022	111.2975013	-25.88750129
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OHWD TSS Grant Well mid	RMW-WL10	3/21/2022	111.5368863	-26.12688634
OHWD TSS Grant Well mid	RMW-WL10	3/22/2022	112.1664196	-26.75641964
OHWD TSS Grant Well mid	RMW-WL10	3/23/2022	112.1455905	-26.73559051
OHWD TSS Grant Well mid	RMW-WL10	3/24/2022	112.4932501	-27.08325012
OHWD TSS Grant Well mid	RMW-WL10	3/25/2022	112.9519984	-27.54199841
OHWD TSS Grant Well mid	RMW-WL10	3/26/2022	112.8311526	-27.42115255
OHWD TSS Grant Well mid	RMW-WL10	3/27/2022	112.1181874	-26.70818741
OHWD TSS Grant Well mid	RMW-WL10	3/28/2022	111.9222137	-26.51221368
OHWD TSS Grant Well mid	RMW-WL10	3/29/2022	111.9705151	-26.56051511
OHWD TSS Grant Well mid	RMW-WL10	3/30/2022	111.8896898	-26.47968979
OHWD TSS Grant Well mid	RMW-WL10	3/31/2022	111.7997993	-26.3897993
OHWD TSS Grant Well mid	RMW-WL10	4/1/2022	111.6909481	-26.28094807
OHWD TSS Grant Well mid	RMW-WL10	4/2/2022	111.8008142	-26.39081423
OHWD TSS Grant Well mid	RMW-WL10	4/3/2022	111.8847305	-26.47473047
OHWD TSS Grant Well mid	RMW-WL10	4/4/2022	112.241709	-26.83170898
OHWD TSS Grant Well mid	RMW-WL10	4/5/2022	113.0705145	-27.66051453
OHWD TSS Grant Well mid	RMW-WL10	4/6/2022	113.1824798	-27.77247975
OHWD TSS Grant Well mid	RMW-WL10	4/7/2022	113.1659179	-27.75591794
OHWD TSS Grant Well mid	RMW-WL10	4/8/2022	113.3068779	-27.89687785
OHWD TSS Grant Well mid	RMW-WL10	4/9/2022	112.8987838	-27.48878379
OHWD TSS Grant Well mid	RMW-WL10	4/10/2022	112.38373	-26.97372996
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OHWD TSS Grant Well mid	RMW-WL10	4/16/2022	112.8160901	-27.40609007
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OHWD TSS Grant Well mid	RMW-WL10	4/18/2022	112.8635611	-27.45356111
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OHWD TSS Grant Well mid	RMW-WL10	4/20/2022	113.4400874	-28.03008739
OHWD TSS Grant Well mid	RMW-WL10	4/21/2022	112.8437238	-27.43372384
OHWD TSS Grant Well mid	RMW-WL10	4/22/2022	112.1957603	-26.78576034
OHWD TSS Grant Well mid	RMW-WL10	4/23/2022	112.0695861	-26.65958611
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OHWD TSS Grant Well mid	RMW-WL10	4/25/2022	111.7441166	-26.33411656
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OHWD TSS Grant Well mid	RMW-WL10	4/29/2022	113.0879759	-27.67797594
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OHWD TSS Grant Well mid	RMW-WL10	5/6/2022	113.7396993	-28.3296993
OHWD TSS Grant Well mid	RMW-WL10	5/7/2022	113.8152193	-28.4052193
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OHWD TSS Grant Well mid	RMW-WL10	5/13/2022	113.9333894	-28.52338943
OHWD TSS Grant Well mid	RMW-WL10	5/14/2022	114.1521991	-28.74219908
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OHWD TSS Grant Well mid	RMW-WL10	5/17/2022	113.7554999	-28.34549991
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OHWD TSS Grant Well mid	RMW-WL10	6/2/2022	116.6625819	-31.25258192
OHWD TSS Grant Well mid	RMW-WL10	6/3/2022	116.2523888	-30.84238879

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OHWD TSS Grant Well mid	RMW-WL10	7/4/2022	117.4630617	-32.0530617
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OHWD TSS Grant Well mid	RMW-WL10	7/9/2022	118.4570471	-33.04704708
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OHWD TSS Grant Well mid	RMW-WL10	7/19/2022	118.8649566	-33.45495661
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	OHWD TSS Grant Well mid	RMW-WL10	9/18/2022	119.3829399	-33.9729399
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	OHWD TSS Grant Well mid	RMW-WL10	9/25/2022	118.5846514	-33.17465144
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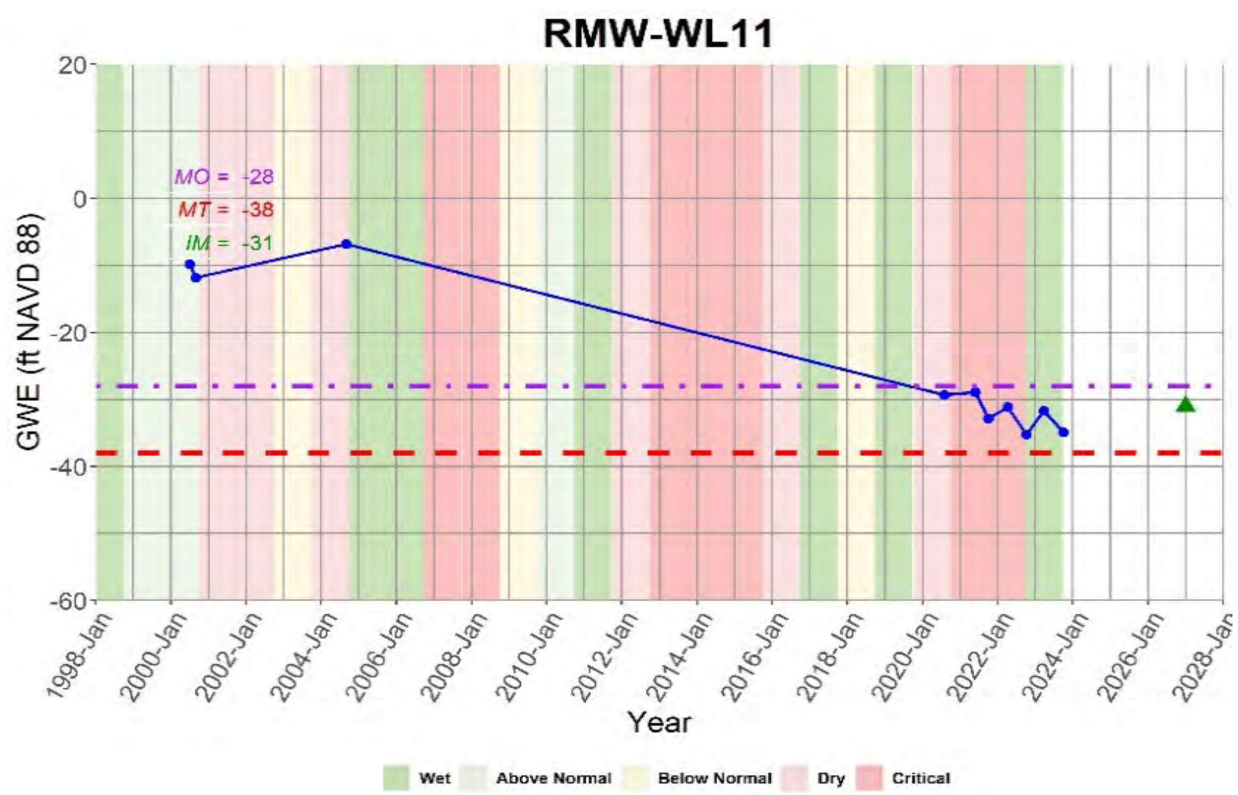
	OHWD TSS Mid	RMW-WL10	3/25/2023	109	-23.59
			4/14/2023	110.5	-25.09
			4/17/2023	110.6	-25.19
	OHWD TSS Mid	RMW-WL10	10/2/2023	116.33	-30.92

Site Code: 384444N1211868W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

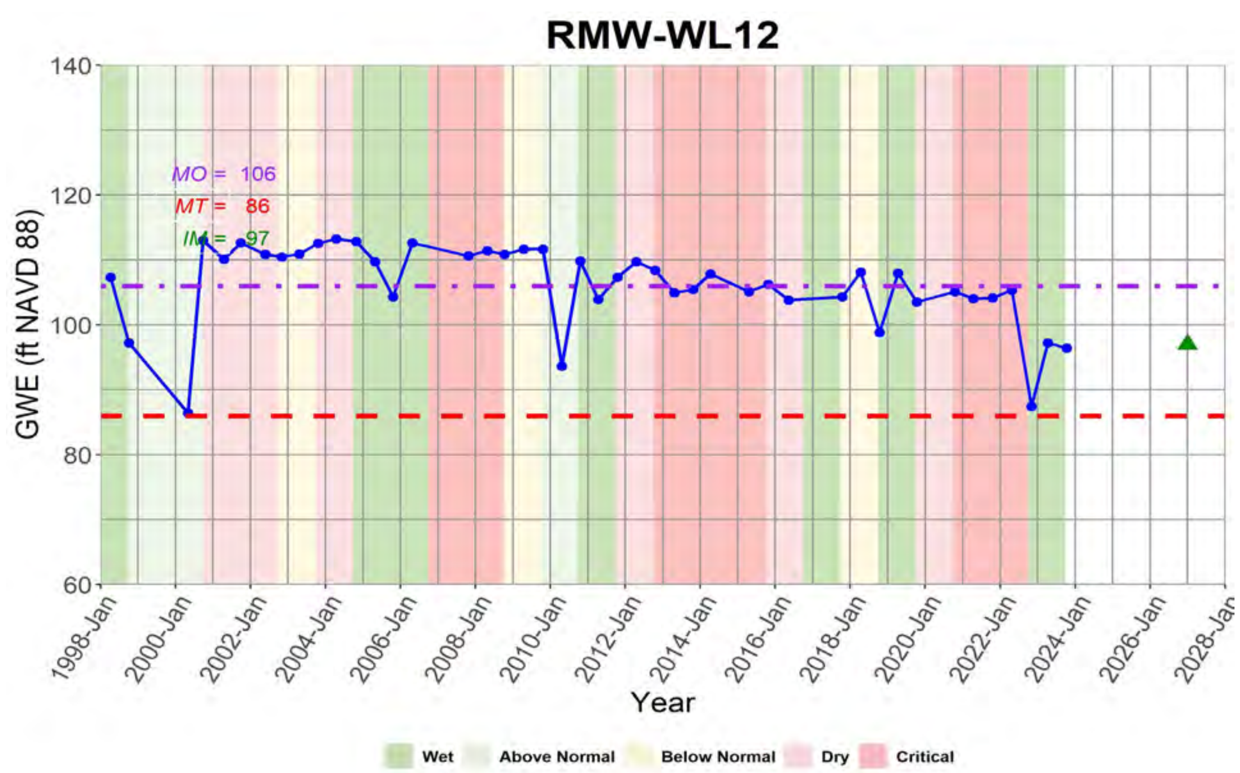
Site Code:	384444N1211868W001
Local Well Name:	SH_Washburn
Monitoring Network Type:	SGMA Representative
Station ID:	57668
Latitude:	38.4444
Longitude:	-121.187
Well Depth (feet bgs):	165.0
Top Perforation (feet bgs):	110.0
Bottom Perforation (feet bgs):	165.0
Ground Surface Elevation:	106.2
Reference Point Elevation:	106.2
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
SH_Washburn	RMW-WL11	7/1/2000	116	-9.8
SH_Washburn	RMW-WL11	9/1/2000	118	-11.8
SH_Washburn	RMW-WL11	9/1/2004	113	-6.8
SH_Washburn	RMW-WL11	8/1/2020	135.5	-29.3
SH_Washburn	RMW-WL11	5/27/2021	135.12	-28.92
SH_Washburn	RMW-WL11	10/4/2021	139.04	-32.84
SH_Washburn	RMW-WL11	4/13/2022	137.32	-31.12
SH_Washburn	RMW-WL11	10/5/2022	141.4	-35.2
SH_Washburn	RMW-WL11	3/27/2023	137.89	-31.69
SH_Washburn	RMW-WL11	10/2/2023	141.08	-34.88

Site Code: 383720N1210784W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	383720N1210784W001
Local Well Name:	06N08E15J001M
Monitoring Network Type:	SGMA Representative
Station ID:	28352
Latitude:	38.372
Longitude:	-121.078
Well Depth (feet bgs):	150.0
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	216.34
Reference Point Elevation:	217.34
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



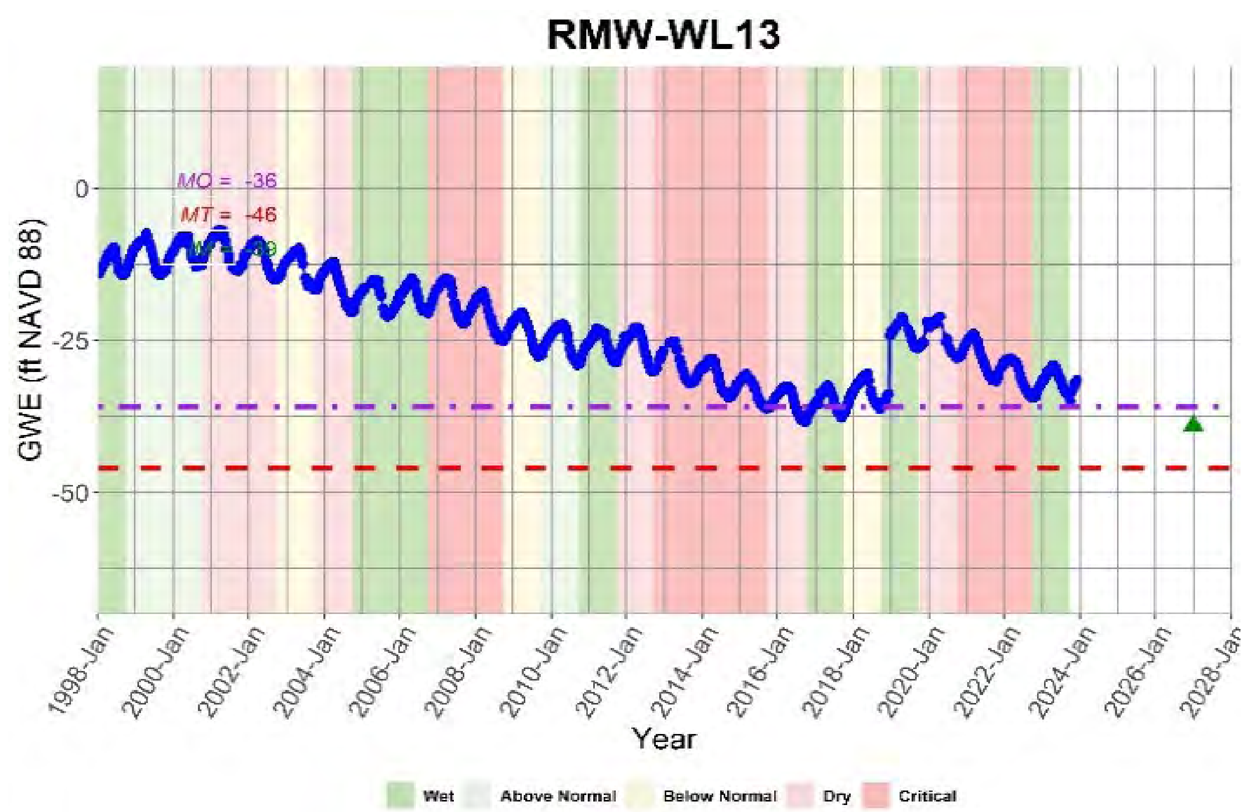
Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
06N08E15J001M	RMW-WL12	8/25/1953	121.5	95.84
06N08E15J001M	RMW-WL12	10/26/1953	121.3	96.04
06N08E15J001M	RMW-WL12	4/8/1954	122.5	94.84
06N08E15J001M	RMW-WL12	10/22/1954	121.7	95.64
06N08E15J001M	RMW-WL12	3/23/1955	122	95.34
06N08E15J001M	RMW-WL12	5/16/1955	121.8	95.54
06N08E15J001M	RMW-WL12	10/18/1955	121.8	95.54
06N08E15J001M	RMW-WL12	4/4/1956	122.7	94.64
06N08E15J001M	RMW-WL12	11/2/1956	121.9	95.44
06N08E15J001M	RMW-WL12	3/14/1957	121.4	95.94
06N08E15J001M	RMW-WL12	10/9/1957	122.3	95.04
06N08E15J001M	RMW-WL12	3/25/1958	122.2	95.14
06N08E15J001M	RMW-WL12	7/15/1958	122.6	94.74
06N08E15J001M	RMW-WL12	10/8/1958	123.2	94.14
06N08E15J001M	RMW-WL12	3/13/1959	122.6	94.74
06N08E15J001M	RMW-WL12	10/1/1959	123.3	94.04
06N08E15J001M	RMW-WL12	3/3/1960	121.1	96.24
06N08E15J001M	RMW-WL12	10/5/1960	125.5	91.84
06N08E15J001M	RMW-WL12	4/3/1961	123	94.34
06N08E15J001M	RMW-WL12	3/7/1962	123.5	93.84
06N08E15J001M	RMW-WL12	10/10/1962	117.7	99.64
06N08E15J001M	RMW-WL12	3/20/1963	123.7	93.64
06N08E15J001M	RMW-WL12	10/16/1963	123.8	93.54
06N08E15J001M	RMW-WL12	4/2/1964	124.8	92.54
06N08E15J001M	RMW-WL12	10/8/1964	124.8	92.54
06N08E15J001M	RMW-WL12	3/18/1965	124.9	92.44
06N08E15J001M	RMW-WL12	10/6/1965	125	92.34
06N08E15J001M	RMW-WL12	3/14/1966	125.4	91.94
06N08E15J001M	RMW-WL12	3/8/1967	126	91.34
06N08E15J001M	RMW-WL12	10/16/1967	126.6	90.74
06N08E15J001M	RMW-WL12	3/7/1968	126.2	91.14
06N08E15J001M	RMW-WL12	10/24/1968	126.8	90.54
06N08E15J001M	RMW-WL12	3/27/1969	127.2	90.14
06N08E15J001M	RMW-WL12	4/13/1970	126.5	90.84
06N08E15J001M	RMW-WL12	10/20/1970	128.5	88.84
06N08E15J001M	RMW-WL12	5/26/1971	129.6	87.74
06N08E15J001M	RMW-WL12	10/14/1971	131	86.34
06N08E15J001M	RMW-WL12	3/14/1972	131	86.34
06N08E15J001M	RMW-WL12	10/16/1972	131.1	86.24

06N08E15J001M	RMW-WL12	3/12/1973	129.7	87.64
06N08E15J001M	RMW-WL12	10/5/1973	131	86.34
06N08E15J001M	RMW-WL12	10/8/1974	131	86.34
06N08E15J001M	RMW-WL12	3/10/1975	131.8	85.54
06N08E15J001M	RMW-WL12	10/10/1975	137.3	80.04
06N08E15J001M	RMW-WL12	3/5/1976	146.5	70.84
06N08E15J001M	RMW-WL12	3/11/1977	130	87.34
06N08E15J001M	RMW-WL12	10/7/1977	139	78.34
06N08E15J001M	RMW-WL12	3/16/1978	134.5	82.84
06N08E15J001M	RMW-WL12	10/19/1978	133	84.34
06N08E15J001M	RMW-WL12	3/15/1979	134	83.34
06N08E15J001M	RMW-WL12	10/3/1979	133.6	83.74
06N08E15J001M	RMW-WL12	3/5/1982	134.4	82.94
06N08E15J001M	RMW-WL12	10/17/1983	134.1	83.24
06N08E15J001M	RMW-WL12	10/16/1984	137.3	80.04
06N08E15J001M	RMW-WL12	10/17/1985	146.3	71.04
06N08E15J001M	RMW-WL12	10/8/1986	137.6	79.74
06N08E15J001M	RMW-WL12	3/24/1988	138.7	78.64
06N08E15J001M	RMW-WL12	5/5/1990	138	79.34
06N08E15J001M	RMW-WL12	10/5/1990	148	69.34
06N08E15J001M	RMW-WL12	2/22/1991	138.3	79.04
06N08E15J001M	RMW-WL12	10/15/1991	138.9	78.44
06N08E15J001M	RMW-WL12	4/2/1992	137.6	79.74
06N08E15J001M	RMW-WL12	4/1/1994	139	78.34
06N08E15J001M	RMW-WL12	10/17/1994	139.2	78.14
06N08E15J001M	RMW-WL12	4/10/1995	115.8	101.54
06N08E15J001M	RMW-WL12	10/3/1995	114	103.34
06N08E15J001M	RMW-WL12	4/3/1996	112	105.34
06N08E15J001M	RMW-WL12	10/9/1996	109	108.34
06N08E15J001M	RMW-WL12	3/31/1997	109.5	107.84
06N08E15J001M	RMW-WL12	10/20/1997	108	109.34
06N08E15J001M	RMW-WL12	4/6/1998	110	107.34
06N08E15J001M	RMW-WL12	10/6/1998	120.1	97.24
06N08E15J001M	RMW-WL12	4/29/2000	130.9	86.44
06N08E15J001M	RMW-WL12	9/25/2000	104.3	113.04
06N08E15J001M	RMW-WL12	4/18/2001	107.2	110.14
06N08E15J001M	RMW-WL12	9/26/2001	104.7	112.64
06N08E15J001M	RMW-WL12	5/23/2002	106.5	110.84
06N08E15J001M	RMW-WL12	11/1/2002	106.9	110.44
06N08E15J001M	RMW-WL12	4/23/2003	106.4	110.94
06N08E15J001M	RMW-WL12	10/21/2003	104.8	112.54
06N08E15J001M	RMW-WL12	4/14/2004	104.1	113.24
06N08E15J001M	RMW-WL12	10/28/2004	104.5	112.84
06N08E15J001M	RMW-WL12	4/28/2005	107.6	109.74
06N08E15J001M	RMW-WL12	10/20/2005	113	104.34
06N08E15J001M	RMW-WL12	4/26/2006	104.7	112.64
06N08E15J001M	RMW-WL12	10/25/2007	106.7	110.64
06N08E15J001M	RMW-WL12	4/24/2008	105.9	111.44
06N08E15J001M	RMW-WL12	10/9/2008	106.5	110.84
06N08E15J001M	RMW-WL12	4/14/2009	105.7	111.64
06N08E15J001M	RMW-WL12	10/19/2009	105.7	111.64
06N08E15J001M	RMW-WL12	4/23/2010	123.7	93.64
06N08E15J001M	RMW-WL12	10/19/2010	107.5	109.84
06N08E15J001M	RMW-WL12	4/12/2011	113.4	103.94
06N08E15J001M	RMW-WL12	10/17/2011	110	107.34
06N08E15J001M	RMW-WL12	4/19/2012	107.6	109.74
06N08E15J001M	RMW-WL12	10/18/2012	108.9	108.44
06N08E15J001M	RMW-WL12	4/25/2013	112.4	104.94
06N08E15J001M	RMW-WL12	10/22/2013	111.9	105.44
06N08E15J001M	RMW-WL12	4/9/2014	109.5	107.84
06N08E15J001M	RMW-WL12	4/20/2015	112.2	105.14
06N08E15J001M	RMW-WL12	10/26/2015	111.1	106.24
06N08E15J001M	RMW-WL12	5/12/2016	113.5	103.84
06N08E15J001M	RMW-WL12	10/17/2017	113	104.34
06N08E15J001M	RMW-WL12	4/13/2018	109.2	108.14
06N08E15J001M	RMW-WL12	10/15/2018	118.5	98.84
06N08E15J001M	RMW-WL12	4/12/2019	109.4	107.94
06N08E15J001M	RMW-WL12	10/11/2019	113.8	103.54
06N08E15J001M	RMW-WL12	10/15/2020	112.2	105.14
06N08E15J001M	RMW-WL12	4/16/2021	113.3	104.04
06N08E15J001M	RMW-WL12	5/24/2021	91	126.34
06N08E15J001M	RMW-WL12	10/6/2021	170.12	47.22
06N08E15J001M	RMW-WL12	10/19/2021	113.2	104.14
06N08E15J001M	RMW-WL12	4/13/2022	164.89	52.45
06N08E15J001M	RMW-WL12	4/26/2022	112	105.34
06N08E15J001M	RMW-WL12	10/5/2022	168.24	49.1
06N08E15J001M	RMW-WL12	11/1/2022	129.9	87.44
06N08E15J001M	RMW-WL12	4/7/2023	159.15	58.19
06N08E15J001M	RMW-WL12	4/12/2023	120.1	97.24

06N08E15J001M	RMW-WL12	10/2/2023	163.6	53.74
06N08E15J001M	RMW-WL12	10/10/2023	120.9	96.44

Site Code: 384121N1212102W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	384121N1212102W001
Local Well Name:	USGS- 382444121123301
Monitoring Network Type:	SGMA Representative
Station ID:	51651
Latitude:	38.4121
Longitude:	-121.21
Well Depth (feet bgs):	290.0
Top Perforation (feet bgs):	236.0
Bottom Perforation (feet bgs):	290.0
Ground Surface Elevation:	134.0
Reference Point Elevation:	134.0
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
USGS-382444121123301	RMW-WL13	1/10/1987	135.39	-1.39
USGS-382444121123301	RMW-WL13	8/22/1987	141.22	-7.22
USGS-382444121123301	RMW-WL13	9/5/1987	141.7	-7.7
USGS-382444121123301	RMW-WL13	9/19/1987	141.33	-7.33
USGS-382444121123301	RMW-WL13	9/26/1987	142.01	-8.01
USGS-382444121123301	RMW-WL13	10/3/1987	140.98	-6.98
USGS-382444121123301	RMW-WL13	10/10/1987	140.79	-6.79
USGS-382444121123301	RMW-WL13	10/24/1987	139.85	-5.85
USGS-382444121123301	RMW-WL13	10/31/1987	139.22	-5.22
USGS-382444121123301	RMW-WL13	11/7/1987	139.23	-5.23
USGS-382444121123301	RMW-WL13	11/14/1987	138.7	-4.7
USGS-382444121123301	RMW-WL13	11/21/1987	138.44	-4.44
USGS-382444121123301	RMW-WL13	11/28/1987	138.19	-4.19
USGS-382444121123301	RMW-WL13	12/5/1987	137.91	-3.91
USGS-382444121123301	RMW-WL13	12/12/1987	137.82	-3.82
USGS-382444121123301	RMW-WL13	12/19/1987	137.57	-3.57
USGS-382444121123301	RMW-WL13	12/26/1987	137.47	-3.47
USGS-382444121123301	RMW-WL13	1/9/1988	137.21	-3.21
USGS-382444121123301	RMW-WL13	1/18/1988	136.55	-2.55
USGS-382444121123301	RMW-WL13	1/23/1988	136.98	-2.98
USGS-382444121123301	RMW-WL13	2/6/1988	136.64	-2.64
USGS-382444121123301	RMW-WL13	2/13/1988	136.28	-2.28
USGS-382444121123301	RMW-WL13	2/27/1988	136.13	-2.13
USGS-382444121123301	RMW-WL13	3/5/1988	136.26	-2.26
USGS-382444121123301	RMW-WL13	3/12/1988	136.42	-2.42
USGS-382444121123301	RMW-WL13	3/19/1988	136.43	-2.43
USGS-382444121123301	RMW-WL13	3/26/1988	136.39	-2.39
USGS-382444121123301	RMW-WL13	4/2/1988	137.83	-3.83
USGS-382444121123301	RMW-WL13	4/9/1988	138.42	-4.42
USGS-382444121123301	RMW-WL13	4/16/1988	138.17	-4.17
USGS-382444121123301	RMW-WL13	4/24/1988	137.59	-3.59
USGS-382444121123301	RMW-WL13	4/30/1988	137.28	-3.28
USGS-382444121123301	RMW-WL13	5/7/1988	137.46	-3.46
USGS-382444121123301	RMW-WL13	5/14/1988	137.33	-3.33
USGS-382444121123301	RMW-WL13	5/28/1988	139.09	-5.09
USGS-382444121123301	RMW-WL13	6/4/1988	139.49	-5.49
USGS-382444121123301	RMW-WL13	6/11/1988	139.56	-5.56
USGS-382444121123301	RMW-WL13	6/18/1988	140.53	-6.53
USGS-382444121123301	RMW-WL13	6/25/1988	141.11	-7.11

USGS-382444121123301	RMW-WL13	7/2/1988	141.62	-7.62
USGS-382444121123301	RMW-WL13	7/16/1988	142.71	-8.71
USGS-382444121123301	RMW-WL13	7/23/1988	143.31	-9.31
USGS-382444121123301	RMW-WL13	7/30/1988	143.43	-9.43
USGS-382444121123301	RMW-WL13	8/6/1988	143.43	-9.43
USGS-382444121123301	RMW-WL13	8/13/1988	143.36	-9.36
USGS-382444121123301	RMW-WL13	8/20/1988	143.67	-9.67
USGS-382444121123301	RMW-WL13	8/27/1988	143.49	-9.49
USGS-382444121123301	RMW-WL13	9/3/1988	143.16	-9.16
USGS-382444121123301	RMW-WL13	9/10/1988	144	-10
USGS-382444121123301	RMW-WL13	9/17/1988	143.92	-9.92
USGS-382444121123301	RMW-WL13	9/24/1988	143.68	-9.68
USGS-382444121123301	RMW-WL13	10/1/1988	143.63	-9.63
USGS-382444121123301	RMW-WL13	10/8/1988	143.46	-9.46
USGS-382444121123301	RMW-WL13	10/15/1988	143.11	-9.11
USGS-382444121123301	RMW-WL13	10/22/1988	143.12	-9.12
USGS-382444121123301	RMW-WL13	10/29/1988	142.88	-8.88
USGS-382444121123301	RMW-WL13	11/5/1988	142.53	-8.53
USGS-382444121123301	RMW-WL13	11/19/1988	141.9	-7.9
USGS-382444121123301	RMW-WL13	12/3/1988	141.29	-7.29
USGS-382444121123301	RMW-WL13	12/10/1988	140.96	-6.96
USGS-382444121123301	RMW-WL13	12/17/1988	140.97	-6.97
USGS-382444121123301	RMW-WL13	12/25/1988	140.42	-6.42
USGS-382444121123301	RMW-WL13	12/31/1988	140.35	-6.35
USGS-382444121123301	RMW-WL13	1/7/1989	140.43	-6.43
USGS-382444121123301	RMW-WL13	1/14/1989	140.22	-6.22
USGS-382444121123301	RMW-WL13	1/21/1989	139.82	-5.82
USGS-382444121123301	RMW-WL13	1/28/1989	139.94	-5.94
USGS-382444121123301	RMW-WL13	2/4/1989	139.64	-5.64
USGS-382444121123301	RMW-WL13	2/11/1989	139.81	-5.81
USGS-382444121123301	RMW-WL13	2/18/1989	139.43	-5.43
USGS-382444121123301	RMW-WL13	2/25/1989	139.33	-5.33
USGS-382444121123301	RMW-WL13	3/4/1989	139.33	-5.33
USGS-382444121123301	RMW-WL13	3/11/1989	139.13	-5.13
USGS-382444121123301	RMW-WL13	3/18/1989	139.05	-5.05
USGS-382444121123301	RMW-WL13	3/26/1989	138.63	-4.63
USGS-382444121123301	RMW-WL13	4/1/1989	137.78	-3.78
USGS-382444121123301	RMW-WL13	4/8/1989	138.57	-4.57
USGS-382444121123301	RMW-WL13	4/15/1989	138.78	-4.78
USGS-382444121123301	RMW-WL13	4/22/1989	139.38	-5.38
USGS-382444121123301	RMW-WL13	4/29/1989	140.01	-6.01
USGS-382444121123301	RMW-WL13	5/22/1989	141.75	-7.75
USGS-382444121123301	RMW-WL13	5/27/1989	142.1	-8.1
USGS-382444121123301	RMW-WL13	6/3/1989	142.78	-8.78
USGS-382444121123301	RMW-WL13	6/10/1989	142.86	-8.86
USGS-382444121123301	RMW-WL13	6/17/1989	143.02	-9.02
USGS-382444121123301	RMW-WL13	6/24/1989	143.59	-9.59
USGS-382444121123301	RMW-WL13	7/1/1989	144.38	-10.38
USGS-382444121123301	RMW-WL13	7/8/1989	144.56	-10.56
USGS-382444121123301	RMW-WL13	7/15/1989	144.98	-10.98
USGS-382444121123301	RMW-WL13	7/22/1989	145.57	-11.57
USGS-382444121123301	RMW-WL13	8/5/1989	145.97	-11.97
USGS-382444121123301	RMW-WL13	8/12/1989	145.82	-11.82
USGS-382444121123301	RMW-WL13	8/19/1989	145.04	-11.04
USGS-382444121123301	RMW-WL13	8/26/1989	145.95	-11.95
USGS-382444121123301	RMW-WL13	9/9/1989	146.11	-12.11
USGS-382444121123301	RMW-WL13	9/16/1989	146.2	-12.2
USGS-382444121123301	RMW-WL13	9/22/1989	144.32	-10.32
USGS-382444121123301	RMW-WL13	9/30/1989	144.67	-10.67
USGS-382444121123301	RMW-WL13	10/7/1989	144.33	-10.33
USGS-382444121123301	RMW-WL13	10/14/1989	144.22	-10.22
USGS-382444121123301	RMW-WL13	10/21/1989	144.06	-10.06
USGS-382444121123301	RMW-WL13	10/29/1989	143.76	-9.76
USGS-382444121123301	RMW-WL13	11/4/1989	143.46	-9.46
USGS-382444121123301	RMW-WL13	11/11/1989	143.23	-9.23
USGS-382444121123301	RMW-WL13	11/19/1989	143.18	-9.18
USGS-382444121123301	RMW-WL13	11/26/1989	142.82	-8.82
USGS-382444121123301	RMW-WL13	12/2/1989	142.94	-8.94
USGS-382444121123301	RMW-WL13	12/10/1989	142.5	-8.5
USGS-382444121123301	RMW-WL13	12/16/1989	142.23	-8.23
USGS-382444121123301	RMW-WL13	12/23/1989	142.49	-8.49
USGS-382444121123301	RMW-WL13	12/30/1989	142.13	-8.13
USGS-382444121123301	RMW-WL13	1/6/1990	142.15	-8.15
USGS-382444121123301	RMW-WL13	1/13/1990	141.47	-7.47
USGS-382444121123301	RMW-WL13	1/20/1990	141.76	-7.76
USGS-382444121123301	RMW-WL13	1/27/1990	141.61	-7.61
USGS-382444121123301	RMW-WL13	2/3/1990	141.46	-7.46
USGS-382444121123301	RMW-WL13	2/10/1990	141.41	-7.41
USGS-382444121123301	RMW-WL13	2/17/1990	140.86	-6.86

USGS-382444121123301	RMW-WL13	2/24/1990	141.06	-7.06
USGS-382444121123301	RMW-WL13	3/3/1990	140.89	-6.89
USGS-382444121123301	RMW-WL13	3/17/1990	140.72	-6.72
USGS-382444121123301	RMW-WL13	3/24/1990	140.6	-6.6
USGS-382444121123301	RMW-WL13	3/31/1990	141.07	-7.07
USGS-382444121123301	RMW-WL13	4/7/1990	141.81	-7.81
USGS-382444121123301	RMW-WL13	4/14/1990	142.14	-8.14
USGS-382444121123301	RMW-WL13	4/21/1990	142.42	-8.42
USGS-382444121123301	RMW-WL13	4/28/1990	140.88	-6.88
USGS-382444121123301	RMW-WL13	5/5/1990	143.1	-9.1
USGS-382444121123301	RMW-WL13	5/12/1990	146.13	-12.13
USGS-382444121123301	RMW-WL13	6/2/1990	142.52	-8.52
USGS-382444121123301	RMW-WL13	6/9/1990	142.83	-8.83
USGS-382444121123301	RMW-WL13	6/16/1990	143.73	-9.73
USGS-382444121123301	RMW-WL13	6/23/1990	144.76	-10.76
USGS-382444121123301	RMW-WL13	6/30/1990	145.19	-11.19
USGS-382444121123301	RMW-WL13	7/7/1990	145.79	-11.79
USGS-382444121123301	RMW-WL13	7/14/1990	146.26	-12.26
USGS-382444121123301	RMW-WL13	7/21/1990	146.02	-12.02
USGS-382444121123301	RMW-WL13	7/28/1990	147.28	-13.28
USGS-382444121123301	RMW-WL13	8/4/1990	147.43	-13.43
USGS-382444121123301	RMW-WL13	8/11/1990	147.46	-13.46
USGS-382444121123301	RMW-WL13	8/18/1990	147.55	-13.55
USGS-382444121123301	RMW-WL13	8/25/1990	147.32	-13.32
USGS-382444121123301	RMW-WL13	9/1/1990	147.54	-13.54
USGS-382444121123301	RMW-WL13	9/8/1990	147.56	-13.56
USGS-382444121123301	RMW-WL13	9/15/1990	147.85	-13.85
USGS-382444121123301	RMW-WL13	9/22/1990	147.54	-13.54
USGS-382444121123301	RMW-WL13	9/29/1990	147.56	-13.56
USGS-382444121123301	RMW-WL13	10/6/1990	147.48	-13.48
USGS-382444121123301	RMW-WL13	10/13/1990	147.36	-13.36
USGS-382444121123301	RMW-WL13	10/20/1990	147.2	-13.2
USGS-382444121123301	RMW-WL13	10/27/1990	147.17	-13.17
USGS-382444121123301	RMW-WL13	11/3/1990	146.81	-12.81
USGS-382444121123301	RMW-WL13	11/10/1990	146.67	-12.67
USGS-382444121123301	RMW-WL13	11/17/1990	146.17	-12.17
USGS-382444121123301	RMW-WL13	11/24/1990	145.95	-11.95
USGS-382444121123301	RMW-WL13	12/1/1990	145.87	-11.87
USGS-382444121123301	RMW-WL13	12/8/1990	145.62	-11.62
USGS-382444121123301	RMW-WL13	12/15/1990	145.18	-11.18
USGS-382444121123301	RMW-WL13	12/22/1990	145.37	-11.37
USGS-382444121123301	RMW-WL13	12/29/1990	144.95	-10.95
USGS-382444121123301	RMW-WL13	1/5/1991	144.95	-10.95
USGS-382444121123301	RMW-WL13	1/12/1991	145	-11
USGS-382444121123301	RMW-WL13	1/19/1991	144.53	-10.53
USGS-382444121123301	RMW-WL13	1/26/1991	144.68	-10.68
USGS-382444121123301	RMW-WL13	2/2/1991	144.61	-10.61
USGS-382444121123301	RMW-WL13	2/9/1991	144.47	-10.47
USGS-382444121123301	RMW-WL13	2/16/1991	144.21	-10.21
USGS-382444121123301	RMW-WL13	2/23/1991	144.24	-10.24
USGS-382444121123301	RMW-WL13	3/2/1991	144.1	-10.1
USGS-382444121123301	RMW-WL13	3/9/1991	143.97	-9.97
USGS-382444121123301	RMW-WL13	3/16/1991	143.75	-9.75
USGS-382444121123301	RMW-WL13	3/23/1991	143.82	-9.82
USGS-382444121123301	RMW-WL13	3/30/1991	143.77	-9.77
USGS-382444121123301	RMW-WL13	4/6/1991	143.44	-9.44
USGS-382444121123301	RMW-WL13	4/13/1991	143.45	-9.45
USGS-382444121123301	RMW-WL13	4/20/1991	144.8	-10.8
USGS-382444121123301	RMW-WL13	4/27/1991	143.99	-9.99
USGS-382444121123301	RMW-WL13	5/4/1991	144.51	-10.51
USGS-382444121123301	RMW-WL13	5/11/1991	145.03	-11.03
USGS-382444121123301	RMW-WL13	5/18/1991	144.69	-10.69
USGS-382444121123301	RMW-WL13	5/25/1991	146.87	-12.87
USGS-382444121123301	RMW-WL13	6/8/1991	146.26	-12.26
USGS-382444121123301	RMW-WL13	6/15/1991	147.14	-13.14
USGS-382444121123301	RMW-WL13	6/22/1991	147.66	-13.66
USGS-382444121123301	RMW-WL13	6/29/1991	147.33	-13.33
USGS-382444121123301	RMW-WL13	7/6/1991	147.81	-13.81
USGS-382444121123301	RMW-WL13	7/13/1991	148.36	-14.36
USGS-382444121123301	RMW-WL13	7/20/1991	148.51	-14.51
USGS-382444121123301	RMW-WL13	7/27/1991	148.33	-14.33
USGS-382444121123301	RMW-WL13	8/3/1991	149.57	-15.57
USGS-382444121123301	RMW-WL13	8/10/1991	149.26	-15.26
USGS-382444121123301	RMW-WL13	8/17/1991	149.31	-15.31
USGS-382444121123301	RMW-WL13	8/24/1991	149.56	-15.56
USGS-382444121123301	RMW-WL13	8/31/1991	149.48	-15.48
USGS-382444121123301	RMW-WL13	9/7/1991	149.69	-15.69
USGS-382444121123301	RMW-WL13	9/14/1991	149.56	-15.56
USGS-382444121123301	RMW-WL13	9/21/1991	149.77	-15.77

USGS-382444121123301	RMW-WL13	9/28/1991	149.62	-15.62
USGS-382444121123301	RMW-WL13	10/5/1991	149.74	-15.74
USGS-382444121123301	RMW-WL13	10/12/1991	149.59	-15.59
USGS-382444121123301	RMW-WL13	10/19/1991	149.87	-15.87
USGS-382444121123301	RMW-WL13	10/26/1991	148.96	-14.96
USGS-382444121123301	RMW-WL13	11/2/1991	148.78	-14.78
USGS-382444121123301	RMW-WL13	11/9/1991	148.4	-14.4
USGS-382444121123301	RMW-WL13	11/16/1991	148.4	-14.4
USGS-382444121123301	RMW-WL13	11/23/1991	148.17	-14.17
USGS-382444121123301	RMW-WL13	11/30/1991	147.88	-13.88
USGS-382444121123301	RMW-WL13	12/7/1991	147.57	-13.57
USGS-382444121123301	RMW-WL13	12/14/1991	147.72	-13.72
USGS-382444121123301	RMW-WL13	12/21/1991	147.42	-13.42
USGS-382444121123301	RMW-WL13	12/27/1991	147.04	-13.04
USGS-382444121123301	RMW-WL13	1/4/1992	146.92	-12.92
USGS-382444121123301	RMW-WL13	1/11/1992	147	-13
USGS-382444121123301	RMW-WL13	1/18/1992	146.65	-12.65
USGS-382444121123301	RMW-WL13	1/25/1992	146.67	-12.67
USGS-382444121123301	RMW-WL13	2/1/1992	146.27	-12.27
USGS-382444121123301	RMW-WL13	2/8/1992	146.26	-12.26
USGS-382444121123301	RMW-WL13	2/15/1992	146.09	-12.09
USGS-382444121123301	RMW-WL13	2/29/1992	145.83	-11.83
USGS-382444121123301	RMW-WL13	3/7/1992	145.88	-11.88
USGS-382444121123301	RMW-WL13	3/14/1992	145.7	-11.7
USGS-382444121123301	RMW-WL13	3/21/1992	145.48	-11.48
USGS-382444121123301	RMW-WL13	3/28/1992	145.43	-11.43
USGS-382444121123301	RMW-WL13	4/4/1992	145.57	-11.57
USGS-382444121123301	RMW-WL13	4/11/1992	145.75	-11.75
USGS-382444121123301	RMW-WL13	4/18/1992	145.54	-11.54
USGS-382444121123301	RMW-WL13	4/25/1992	145.67	-11.67
USGS-382444121123301	RMW-WL13	5/2/1992	146.42	-12.42
USGS-382444121123301	RMW-WL13	5/9/1992	147.32	-13.32
USGS-382444121123301	RMW-WL13	5/16/1992	147.61	-13.61
USGS-382444121123301	RMW-WL13	5/23/1992	148.15	-14.15
USGS-382444121123301	RMW-WL13	5/30/1992	148.76	-14.76
USGS-382444121123301	RMW-WL13	6/6/1992	149.59	-15.59
USGS-382444121123301	RMW-WL13	6/13/1992	150.06	-16.06
USGS-382444121123301	RMW-WL13	6/20/1992	150.02	-16.02
USGS-382444121123301	RMW-WL13	6/27/1992	150.5	-16.5
USGS-382444121123301	RMW-WL13	7/4/1992	150.44	-16.44
USGS-382444121123301	RMW-WL13	7/11/1992	150.96	-16.96
USGS-382444121123301	RMW-WL13	7/18/1992	151.35	-17.35
USGS-382444121123301	RMW-WL13	7/25/1992	151.41	-17.41
USGS-382444121123301	RMW-WL13	8/1/1992	151.89	-17.89
USGS-382444121123301	RMW-WL13	8/8/1992	151.91	-17.91
USGS-382444121123301	RMW-WL13	8/15/1992	151.77	-17.77
USGS-382444121123301	RMW-WL13	8/22/1992	152.04	-18.04
USGS-382444121123301	RMW-WL13	8/29/1992	152.03	-18.03
USGS-382444121123301	RMW-WL13	9/5/1992	152.07	-18.07
USGS-382444121123301	RMW-WL13	9/12/1992	152.03	-18.03
USGS-382444121123301	RMW-WL13	9/19/1992	152.11	-18.11
USGS-382444121123301	RMW-WL13	9/26/1992	151.86	-17.86
USGS-382444121123301	RMW-WL13	10/3/1992	151.85	-17.85
USGS-382444121123301	RMW-WL13	10/10/1992	151.84	-17.84
USGS-382444121123301	RMW-WL13	10/17/1992	151.85	-17.85
USGS-382444121123301	RMW-WL13	10/24/1992	151.2	-17.2
USGS-382444121123301	RMW-WL13	10/31/1992	150.97	-16.97
USGS-382444121123301	RMW-WL13	11/7/1992	150.71	-16.71
USGS-382444121123301	RMW-WL13	11/14/1992	150.48	-16.48
USGS-382444121123301	RMW-WL13	11/21/1992	150.29	-16.29
USGS-382444121123301	RMW-WL13	11/28/1992	150.15	-16.15
USGS-382444121123301	RMW-WL13	12/5/1992	149.83	-15.83
USGS-382444121123301	RMW-WL13	12/12/1992	149.75	-15.75
USGS-382444121123301	RMW-WL13	12/19/1992	149.65	-15.65
USGS-382444121123301	RMW-WL13	1/9/1993	149.01	-15.01
USGS-382444121123301	RMW-WL13	1/16/1993	148.88	-14.88
USGS-382444121123301	RMW-WL13	1/23/1993	148.93	-14.93
USGS-382444121123301	RMW-WL13	1/30/1993	148.51	-14.51
USGS-382444121123301	RMW-WL13	2/6/1993	148.32	-14.32
USGS-382444121123301	RMW-WL13	2/13/1993	148.33	-14.33
USGS-382444121123301	RMW-WL13	2/20/1993	147.69	-13.69
USGS-382444121123301	RMW-WL13	2/27/1993	147.9	-13.9
USGS-382444121123301	RMW-WL13	3/6/1993	147.82	-13.82
USGS-382444121123301	RMW-WL13	3/13/1993	147.49	-13.49
USGS-382444121123301	RMW-WL13	3/20/1993	147.51	-13.51
USGS-382444121123301	RMW-WL13	3/27/1993	147.18	-13.18
USGS-382444121123301	RMW-WL13	4/3/1993	147.27	-13.27
USGS-382444121123301	RMW-WL13	4/10/1993	147.19	-13.19
USGS-382444121123301	RMW-WL13	4/17/1993	147.02	-13.02

USGS-382444121123301	RMW-WL13	4/24/1993	147	-13
USGS-382444121123301	RMW-WL13	5/1/1993	147.31	-13.31
USGS-382444121123301	RMW-WL13	5/8/1993	148.11	-14.11
USGS-382444121123301	RMW-WL13	5/14/1993	148.62	-14.62
USGS-382444121123301	RMW-WL13	5/22/1993	149.2	-15.2
USGS-382444121123301	RMW-WL13	5/28/1993	148.77	-14.77
USGS-382444121123301	RMW-WL13	6/5/1993	148.17	-14.17
USGS-382444121123301	RMW-WL13	6/12/1993	148.48	-14.48
USGS-382444121123301	RMW-WL13	6/19/1993	149.92	-15.92
USGS-382444121123301	RMW-WL13	6/26/1993	150.69	-16.69
USGS-382444121123301	RMW-WL13	7/3/1993	151.21	-17.21
USGS-382444121123301	RMW-WL13	7/10/1993	151.82	-17.82
USGS-382444121123301	RMW-WL13	7/17/1993	152.26	-18.26
USGS-382444121123301	RMW-WL13	7/24/1993	152.34	-18.34
USGS-382444121123301	RMW-WL13	7/31/1993	152.71	-18.71
USGS-382444121123301	RMW-WL13	8/7/1993	152.65	-18.65
USGS-382444121123301	RMW-WL13	8/14/1993	153.12	-19.12
USGS-382444121123301	RMW-WL13	8/21/1993	152.94	-18.94
USGS-382444121123301	RMW-WL13	8/28/1993	153.12	-19.12
USGS-382444121123301	RMW-WL13	9/4/1993	152.4	-18.4
USGS-382444121123301	RMW-WL13	9/11/1993	153.4	-19.4
USGS-382444121123301	RMW-WL13	9/18/1993	152.1	-18.1
USGS-382444121123301	RMW-WL13	9/19/1993	153.04	-19.04
USGS-382444121123301	RMW-WL13	9/25/1993	153.25	-19.25
USGS-382444121123301	RMW-WL13	10/2/1993	152.95	-18.95
USGS-382444121123301	RMW-WL13	10/9/1993	152.69	-18.69
USGS-382444121123301	RMW-WL13	10/16/1993	152.19	-18.19
USGS-382444121123301	RMW-WL13	10/23/1993	152.09	-18.09
USGS-382444121123301	RMW-WL13	10/31/1993	152.19	-18.19
USGS-382444121123301	RMW-WL13	11/6/1993	151.94	-17.94
USGS-382444121123301	RMW-WL13	11/13/1993	151.33	-17.33
USGS-382444121123301	RMW-WL13	11/20/1993	151.25	-17.25
USGS-382444121123301	RMW-WL13	11/27/1993	150.91	-16.91
USGS-382444121123301	RMW-WL13	12/4/1993	150.61	-16.61
USGS-382444121123301	RMW-WL13	12/11/1993	150	-16
USGS-382444121123301	RMW-WL13	12/18/1993	150.15	-16.15
USGS-382444121123301	RMW-WL13	12/25/1993	150.03	-16.03
USGS-382444121123301	RMW-WL13	1/1/1994	149.72	-15.72
USGS-382444121123301	RMW-WL13	1/8/1994	149.5	-15.5
USGS-382444121123301	RMW-WL13	1/15/1994	149.23	-15.23
USGS-382444121123301	RMW-WL13	1/22/1994	149.17	-15.17
USGS-382444121123301	RMW-WL13	1/29/1994	149.2	-15.2
USGS-382444121123301	RMW-WL13	2/5/1994	148.86	-14.86
USGS-382444121123301	RMW-WL13	2/12/1994	148.91	-14.91
USGS-382444121123301	RMW-WL13	2/19/1994	148.34	-14.34
USGS-382444121123301	RMW-WL13	2/26/1994	148.25	-14.25
USGS-382444121123301	RMW-WL13	3/5/1994	148.17	-14.17
USGS-382444121123301	RMW-WL13	3/12/1994	148.23	-14.23
USGS-382444121123301	RMW-WL13	3/19/1994	147.98	-13.98
USGS-382444121123301	RMW-WL13	3/26/1994	148.01	-14.01
USGS-382444121123301	RMW-WL13	4/2/1994	148.49	-14.49
USGS-382444121123301	RMW-WL13	4/9/1994	148.84	-14.84
USGS-382444121123301	RMW-WL13	4/16/1994	149.48	-15.48
USGS-382444121123301	RMW-WL13	4/23/1994	150.19	-16.19
USGS-382444121123301	RMW-WL13	4/30/1994	149.56	-15.56
USGS-382444121123301	RMW-WL13	5/7/1994	149.43	-15.43
USGS-382444121123301	RMW-WL13	5/14/1994	149.18	-15.18
USGS-382444121123301	RMW-WL13	5/22/1994	149.75	-15.75
USGS-382444121123301	RMW-WL13	5/28/1994	150.74	-16.74
USGS-382444121123301	RMW-WL13	6/4/1994	151.43	-17.43
USGS-382444121123301	RMW-WL13	6/11/1994	151.9	-17.9
USGS-382444121123301	RMW-WL13	6/18/1994	152.33	-18.33
USGS-382444121123301	RMW-WL13	6/25/1994	152.82	-18.82
USGS-382444121123301	RMW-WL13	7/2/1994	153.51	-19.51
USGS-382444121123301	RMW-WL13	7/9/1994	153.91	-19.91
USGS-382444121123301	RMW-WL13	7/16/1994	154.12	-20.12
USGS-382444121123301	RMW-WL13	7/23/1994	154.44	-20.44
USGS-382444121123301	RMW-WL13	7/30/1994	154.62	-20.62
USGS-382444121123301	RMW-WL13	8/6/1994	154.54	-20.54
USGS-382444121123301	RMW-WL13	8/13/1994	154.85	-20.85
USGS-382444121123301	RMW-WL13	8/20/1994	155.09	-21.09
USGS-382444121123301	RMW-WL13	8/27/1994	154.93	-20.93
USGS-382444121123301	RMW-WL13	9/3/1994	154.99	-20.99
USGS-382444121123301	RMW-WL13	9/10/1994	155.01	-21.01
USGS-382444121123301	RMW-WL13	9/17/1994	155.02	-21.02
USGS-382444121123301	RMW-WL13	9/24/1994	155	-21
USGS-382444121123301	RMW-WL13	10/1/1994	154.75	-20.75
USGS-382444121123301	RMW-WL13	10/8/1994	154.57	-20.57
USGS-382444121123301	RMW-WL13	10/15/1994	154.04	-20.04

USGS-382444121123301	RMW-WL13	10/22/1994	154.07	-20.07
USGS-382444121123301	RMW-WL13	10/29/1994	154.02	-20.02
USGS-382444121123301	RMW-WL13	11/5/1994	153.74	-19.74
USGS-382444121123301	RMW-WL13	11/12/1994	153.22	-19.22
USGS-382444121123301	RMW-WL13	11/19/1994	153.23	-19.23
USGS-382444121123301	RMW-WL13	11/27/1994	152.98	-18.98
USGS-382444121123301	RMW-WL13	12/3/1994	152.37	-18.37
USGS-382444121123301	RMW-WL13	12/10/1994	152.52	-18.52
USGS-382444121123301	RMW-WL13	12/17/1994	152.3	-18.3
USGS-382444121123301	RMW-WL13	12/24/1994	151.87	-17.87
USGS-382444121123301	RMW-WL13	12/31/1994	151.93	-17.93
USGS-382444121123301	RMW-WL13	1/7/1995	151.56	-17.56
USGS-382444121123301	RMW-WL13	1/14/1995	151.57	-17.57
USGS-382444121123301	RMW-WL13	1/21/1995	151.39	-17.39
USGS-382444121123301	RMW-WL13	1/28/1995	151.46	-17.46
USGS-382444121123301	RMW-WL13	2/4/1995	151.16	-17.16
USGS-382444121123301	RMW-WL13	2/11/1995	150.79	-16.79
USGS-382444121123301	RMW-WL13	2/18/1995	150.97	-16.97
USGS-382444121123301	RMW-WL13	2/25/1995	150.59	-16.59
USGS-382444121123301	RMW-WL13	3/4/1995	150.42	-16.42
USGS-382444121123301	RMW-WL13	3/11/1995	149.84	-15.84
USGS-382444121123301	RMW-WL13	3/18/1995	150.16	-16.16
USGS-382444121123301	RMW-WL13	3/25/1995	150.06	-16.06
USGS-382444121123301	RMW-WL13	4/1/1995	149.74	-15.74
USGS-382444121123301	RMW-WL13	4/8/1995	149.63	-15.63
USGS-382444121123301	RMW-WL13	4/15/1995	149.32	-15.32
USGS-382444121123301	RMW-WL13	4/22/1995	149.4	-15.4
USGS-382444121123301	RMW-WL13	4/29/1995	149.28	-15.28
USGS-382444121123301	RMW-WL13	5/6/1995	149	-15
USGS-382444121123301	RMW-WL13	5/14/1995	148.69	-14.69
USGS-382444121123301	RMW-WL13	5/20/1995	148.52	-14.52
USGS-382444121123301	RMW-WL13	5/27/1995	148.28	-14.28
USGS-382444121123301	RMW-WL13	6/3/1995	149.85	-15.85
USGS-382444121123301	RMW-WL13	6/10/1995	151.09	-17.09
USGS-382444121123301	RMW-WL13	6/17/1995	150.86	-16.86
USGS-382444121123301	RMW-WL13	6/24/1995	151.61	-17.61
USGS-382444121123301	RMW-WL13	7/1/1995	152.37	-18.37
USGS-382444121123301	RMW-WL13	7/8/1995	152.87	-18.87
USGS-382444121123301	RMW-WL13	7/15/1995	153.14	-19.14
USGS-382444121123301	RMW-WL13	7/29/1995	153.97	-19.97
USGS-382444121123301	RMW-WL13	8/5/1995	154.33	-20.33
USGS-382444121123301	RMW-WL13	8/13/1995	154.81	-20.81
USGS-382444121123301	RMW-WL13	8/19/1995	154.71	-20.71
USGS-382444121123301	RMW-WL13	8/26/1995	154.77	-20.77
USGS-382444121123301	RMW-WL13	9/2/1995	154.59	-20.59
USGS-382444121123301	RMW-WL13	9/9/1995	154.64	-20.64
USGS-382444121123301	RMW-WL13	9/16/1995	154.75	-20.75
USGS-382444121123301	RMW-WL13	9/23/1995	154.87	-20.87
USGS-382444121123301	RMW-WL13	9/30/1995	154.4	-20.4
USGS-382444121123301	RMW-WL13	10/7/1995	154.3	-20.3
USGS-382444121123301	RMW-WL13	10/14/1995	154.24	-20.24
USGS-382444121123301	RMW-WL13	10/20/1995	154.4	-20.4
USGS-382444121123301	RMW-WL13	10/28/1995	153.72	-19.72
USGS-382444121123301	RMW-WL13	11/4/1995	153.45	-19.45
USGS-382444121123301	RMW-WL13	11/11/1995	153.27	-19.27
USGS-382444121123301	RMW-WL13	11/18/1995	153.14	-19.14
USGS-382444121123301	RMW-WL13	11/25/1995	152.66	-18.66
USGS-382444121123301	RMW-WL13	12/2/1995	152.3	-18.3
USGS-382444121123301	RMW-WL13	12/9/1995	152.03	-18.03
USGS-382444121123301	RMW-WL13	12/16/1995	151.71	-17.71
USGS-382444121123301	RMW-WL13	12/23/1995	151.37	-17.37
USGS-382444121123301	RMW-WL13	12/30/1995	151.14	-17.14
USGS-382444121123301	RMW-WL13	1/6/1996	151.01	-17.01
USGS-382444121123301	RMW-WL13	1/13/1996	150.74	-16.74
USGS-382444121123301	RMW-WL13	1/20/1996	150.61	-16.61
USGS-382444121123301	RMW-WL13	1/27/1996	150.21	-16.21
USGS-382444121123301	RMW-WL13	2/3/1996	150.01	-16.01
USGS-382444121123301	RMW-WL13	2/10/1996	149.72	-15.72
USGS-382444121123301	RMW-WL13	2/17/1996	149.6	-15.6
USGS-382444121123301	RMW-WL13	2/24/1996	149.38	-15.38
USGS-382444121123301	RMW-WL13	3/2/1996	149.38	-15.38
USGS-382444121123301	RMW-WL13	3/9/1996	149.01	-15.01
USGS-382444121123301	RMW-WL13	3/16/1996	148.95	-14.95
USGS-382444121123301	RMW-WL13	3/23/1996	148.57	-14.57
USGS-382444121123301	RMW-WL13	3/30/1996	148.7	-14.7
USGS-382444121123301	RMW-WL13	4/6/1996	148.46	-14.46
USGS-382444121123301	RMW-WL13	4/13/1996	148.34	-14.34
USGS-382444121123301	RMW-WL13	4/19/1996	148.32	-14.32
USGS-382444121123301	RMW-WL13	4/26/1996	148.04	-14.04

USGS-382444121123301	RMW-WL13	4/30/1996	148.31	-14.31
USGS-382444121123301	RMW-WL13	5/6/1996	148.93	-14.93
USGS-382444121123301	RMW-WL13	5/11/1996	149.49	-15.49
USGS-382444121123301	RMW-WL13	5/18/1996	148.86	-14.86
USGS-382444121123301	RMW-WL13	5/25/1996	148.21	-14.21
USGS-382444121123301	RMW-WL13	6/1/1996	148.96	-14.96
USGS-382444121123301	RMW-WL13	6/8/1996	149.99	-15.99
USGS-382444121123301	RMW-WL13	6/15/1996	150.87	-16.87
USGS-382444121123301	RMW-WL13	6/22/1996	151.13	-17.13
USGS-382444121123301	RMW-WL13	6/29/1996	150.95	-16.95
USGS-382444121123301	RMW-WL13	7/6/1996	151.76	-17.76
USGS-382444121123301	RMW-WL13	7/13/1996	152.49	-18.49
USGS-382444121123301	RMW-WL13	7/20/1996	153.23	-19.23
USGS-382444121123301	RMW-WL13	7/27/1996	153.31	-19.31
USGS-382444121123301	RMW-WL13	8/3/1996	154.05	-20.05
USGS-382444121123301	RMW-WL13	8/10/1996	153.91	-19.91
USGS-382444121123301	RMW-WL13	8/17/1996	154.03	-20.03
USGS-382444121123301	RMW-WL13	8/24/1996	154.02	-20.02
USGS-382444121123301	RMW-WL13	8/31/1996	154.68	-20.68
USGS-382444121123301	RMW-WL13	9/7/1996	154.28	-20.28
USGS-382444121123301	RMW-WL13	9/14/1996	153.98	-19.98
USGS-382444121123301	RMW-WL13	9/21/1996	154.04	-20.04
USGS-382444121123301	RMW-WL13	9/28/1996	154.06	-20.06
USGS-382444121123301	RMW-WL13	10/5/1996	153.99	-19.99
USGS-382444121123301	RMW-WL13	10/12/1996	153.85	-19.85
USGS-382444121123301	RMW-WL13	10/26/1996	152.61	-18.61
USGS-382444121123301	RMW-WL13	11/2/1996	152.35	-18.35
USGS-382444121123301	RMW-WL13	11/9/1996	151.97	-17.97
USGS-382444121123301	RMW-WL13	11/16/1996	151.57	-17.57
USGS-382444121123301	RMW-WL13	11/23/1996	151.36	-17.36
USGS-382444121123301	RMW-WL13	11/30/1996	151.15	-17.15
USGS-382444121123301	RMW-WL13	12/7/1996	150.72	-16.72
USGS-382444121123301	RMW-WL13	12/14/1996	150.74	-16.74
USGS-382444121123301	RMW-WL13	12/22/1996	149.77	-15.77
USGS-382444121123301	RMW-WL13	12/28/1996	149.92	-15.92
USGS-382444121123301	RMW-WL13	1/4/1997	149.82	-15.82
USGS-382444121123301	RMW-WL13	1/11/1997	149.33	-15.33
USGS-382444121123301	RMW-WL13	1/18/1997	149.42	-15.42
USGS-382444121123301	RMW-WL13	1/25/1997	148.62	-14.62
USGS-382444121123301	RMW-WL13	2/1/1997	148.62	-14.62
USGS-382444121123301	RMW-WL13	2/8/1997	148.21	-14.21
USGS-382444121123301	RMW-WL13	2/15/1997	148.06	-14.06
USGS-382444121123301	RMW-WL13	2/22/1997	147.71	-13.71
USGS-382444121123301	RMW-WL13	3/1/1997	147.38	-13.38
USGS-382444121123301	RMW-WL13	3/8/1997	147.31	-13.31
USGS-382444121123301	RMW-WL13	3/15/1997	147.25	-13.25
USGS-382444121123301	RMW-WL13	3/22/1997	147.06	-13.06
USGS-382444121123301	RMW-WL13	3/29/1997	147.43	-13.43
USGS-382444121123301	RMW-WL13	4/5/1997	147.63	-13.63
USGS-382444121123301	RMW-WL13	4/12/1997	148.18	-14.18
USGS-382444121123301	RMW-WL13	4/19/1997	148.15	-14.15
USGS-382444121123301	RMW-WL13	4/26/1997	147.88	-13.88
USGS-382444121123301	RMW-WL13	5/3/1997	148.44	-14.44
USGS-382444121123301	RMW-WL13	5/10/1997	149.11	-15.11
USGS-382444121123301	RMW-WL13	5/17/1997	149.37	-15.37
USGS-382444121123301	RMW-WL13	5/24/1997	149.46	-15.46
USGS-382444121123301	RMW-WL13	5/31/1997	149.56	-15.56
USGS-382444121123301	RMW-WL13	6/7/1997	148.91	-14.91
USGS-382444121123301	RMW-WL13	6/14/1997	149.48	-15.48
USGS-382444121123301	RMW-WL13	6/21/1997	150.37	-16.37
USGS-382444121123301	RMW-WL13	6/28/1997	150.98	-16.98
USGS-382444121123301	RMW-WL13	7/5/1997	151.19	-17.19
USGS-382444121123301	RMW-WL13	7/12/1997	151.98	-17.98
USGS-382444121123301	RMW-WL13	7/21/1997	151.88	-17.88
USGS-382444121123301	RMW-WL13	7/26/1997	152.06	-18.06
USGS-382444121123301	RMW-WL13	8/2/1997	152.66	-18.66
USGS-382444121123301	RMW-WL13	8/9/1997	152.81	-18.81
USGS-382444121123301	RMW-WL13	8/16/1997	152.78	-18.78
USGS-382444121123301	RMW-WL13	8/23/1997	152.89	-18.89
USGS-382444121123301	RMW-WL13	8/30/1997	152.54	-18.54
USGS-382444121123301	RMW-WL13	9/6/1997	152.71	-18.71
USGS-382444121123301	RMW-WL13	9/13/1997	152.96	-18.96
USGS-382444121123301	RMW-WL13	9/20/1997	152.51	-18.51
USGS-382444121123301	RMW-WL13	9/27/1997	152.54	-18.54
USGS-382444121123301	RMW-WL13	10/4/1997	152.11	-18.11
USGS-382444121123301	RMW-WL13	10/11/1997	151.56	-17.56
USGS-382444121123301	RMW-WL13	10/18/1997	151.22	-17.22
USGS-382444121123301	RMW-WL13	10/25/1997	151.09	-17.09
USGS-382444121123301	RMW-WL13	11/1/1997	151.16	-17.16

USGS-382444121123301	RMW-WL13	11/8/1997	150.79	-16.79
USGS-382444121123301	RMW-WL13	11/15/1997	150.25	-16.25
USGS-382444121123301	RMW-WL13	11/22/1997	149.85	-15.85
USGS-382444121123301	RMW-WL13	11/29/1997	149.57	-15.57
USGS-382444121123301	RMW-WL13	12/6/1997	149.04	-15.04
USGS-382444121123301	RMW-WL13	12/13/1997	149.32	-15.32
USGS-382444121123301	RMW-WL13	12/20/1997	148.77	-14.77
USGS-382444121123301	RMW-WL13	12/28/1997	148.81	-14.81
USGS-382444121123301	RMW-WL13	1/3/1998	148.11	-14.11
USGS-382444121123301	RMW-WL13	1/10/1998	147.93	-13.93
USGS-382444121123301	RMW-WL13	1/17/1998	148.09	-14.09
USGS-382444121123301	RMW-WL13	1/24/1998	147.8	-13.8
USGS-382444121123301	RMW-WL13	1/31/1998	147.29	-13.29
USGS-382444121123301	RMW-WL13	2/7/1998	147.13	-13.13
USGS-382444121123301	RMW-WL13	2/13/1998	147.03	-13.03
USGS-382444121123301	RMW-WL13	2/20/1998	146.84	-12.84
USGS-382444121123301	RMW-WL13	2/28/1998	146.69	-12.69
USGS-382444121123301	RMW-WL13	3/7/1998	146.29	-12.29
USGS-382444121123301	RMW-WL13	3/14/1998	145.91	-11.91
USGS-382444121123301	RMW-WL13	3/21/1998	145.79	-11.79
USGS-382444121123301	RMW-WL13	3/28/1998	145.41	-11.41
USGS-382444121123301	RMW-WL13	4/11/1998	144.92	-10.92
USGS-382444121123301	RMW-WL13	4/18/1998	145.22	-11.22
USGS-382444121123301	RMW-WL13	4/25/1998	144.77	-10.77
USGS-382444121123301	RMW-WL13	5/2/1998	144.55	-10.55
USGS-382444121123301	RMW-WL13	5/9/1998	144.33	-10.33
USGS-382444121123301	RMW-WL13	5/16/1998	144.13	-10.13
USGS-382444121123301	RMW-WL13	5/23/1998	144.16	-10.16
USGS-382444121123301	RMW-WL13	5/30/1998	143.85	-9.85
USGS-382444121123301	RMW-WL13	6/6/1998	143.65	-9.65
USGS-382444121123301	RMW-WL13	6/13/1998	143.81	-9.81
USGS-382444121123301	RMW-WL13	6/20/1998	144.58	-10.58
USGS-382444121123301	RMW-WL13	6/27/1998	145.08	-11.08
USGS-382444121123301	RMW-WL13	7/4/1998	145.74	-11.74
USGS-382444121123301	RMW-WL13	7/11/1998	146.09	-12.09
USGS-382444121123301	RMW-WL13	7/18/1998	146.81	-12.81
USGS-382444121123301	RMW-WL13	7/25/1998	147.54	-13.54
USGS-382444121123301	RMW-WL13	8/1/1998	147.77	-13.77
USGS-382444121123301	RMW-WL13	8/8/1998	147.77	-13.77
USGS-382444121123301	RMW-WL13	8/22/1998	148.18	-14.18
USGS-382444121123301	RMW-WL13	8/29/1998	148.19	-14.19
USGS-382444121123301	RMW-WL13	9/5/1998	148.22	-14.22
USGS-382444121123301	RMW-WL13	9/12/1998	148.17	-14.17
USGS-382444121123301	RMW-WL13	9/19/1998	148.21	-14.21
USGS-382444121123301	RMW-WL13	9/26/1998	147.73	-13.73
USGS-382444121123301	RMW-WL13	10/3/1998	147.24	-13.24
USGS-382444121123301	RMW-WL13	10/10/1998	147.34	-13.34
USGS-382444121123301	RMW-WL13	10/17/1998	147.07	-13.07
USGS-382444121123301	RMW-WL13	10/24/1998	146.92	-12.92
USGS-382444121123301	RMW-WL13	10/31/1998	146.2	-12.2
USGS-382444121123301	RMW-WL13	11/7/1998	145.75	-11.75
USGS-382444121123301	RMW-WL13	11/14/1998	145.47	-11.47
USGS-382444121123301	RMW-WL13	11/21/1998	145.19	-11.19
USGS-382444121123301	RMW-WL13	11/28/1998	144.55	-10.55
USGS-382444121123301	RMW-WL13	12/5/1998	144.65	-10.65
USGS-382444121123301	RMW-WL13	12/19/1998	143.85	-9.85
USGS-382444121123301	RMW-WL13	1/2/1999	143.74	-9.74
USGS-382444121123301	RMW-WL13	1/9/1999	143.69	-9.69
USGS-382444121123301	RMW-WL13	1/16/1999	143.26	-9.26
USGS-382444121123301	RMW-WL13	1/23/1999	143.08	-9.08
USGS-382444121123301	RMW-WL13	1/30/1999	142.98	-8.98
USGS-382444121123301	RMW-WL13	2/6/1999	142.85	-8.85
USGS-382444121123301	RMW-WL13	2/13/1999	142.72	-8.72
USGS-382444121123301	RMW-WL13	4/10/1999	141.75	-7.75
USGS-382444121123301	RMW-WL13	4/17/1999	141.44	-7.44
USGS-382444121123301	RMW-WL13	4/24/1999	141.77	-7.77
USGS-382444121123301	RMW-WL13	5/1/1999	142.7	-8.7
USGS-382444121123301	RMW-WL13	5/8/1999	142.83	-8.83
USGS-382444121123301	RMW-WL13	5/15/1999	143.04	-9.04
USGS-382444121123301	RMW-WL13	5/22/1999	143.17	-9.17
USGS-382444121123301	RMW-WL13	5/29/1999	143.69	-9.69
USGS-382444121123301	RMW-WL13	6/5/1999	144.24	-10.24
USGS-382444121123301	RMW-WL13	6/12/1999	144.95	-10.95
USGS-382444121123301	RMW-WL13	7/3/1999	146	-12
USGS-382444121123301	RMW-WL13	7/10/1999	147.35	-13.35
USGS-382444121123301	RMW-WL13	7/17/1999	147.24	-13.24
USGS-382444121123301	RMW-WL13	7/24/1999	147.83	-13.83
USGS-382444121123301	RMW-WL13	7/31/1999	147.75	-13.75
USGS-382444121123301	RMW-WL13	8/7/1999	147.93	-13.93

USGS-382444121123301	RMW-WL13	8/15/1999	147.8	-13.8
USGS-382444121123301	RMW-WL13	8/21/1999	148.3	-14.3
USGS-382444121123301	RMW-WL13	8/28/1999	148.21	-14.21
USGS-382444121123301	RMW-WL13	9/4/1999	148.3	-14.3
USGS-382444121123301	RMW-WL13	9/11/1999	148.19	-14.19
USGS-382444121123301	RMW-WL13	9/18/1999	147.8	-13.8
USGS-382444121123301	RMW-WL13	9/25/1999	147.83	-13.83
USGS-382444121123301	RMW-WL13	10/2/1999	147.88	-13.88
USGS-382444121123301	RMW-WL13	10/9/1999	147.62	-13.62
USGS-382444121123301	RMW-WL13	10/16/1999	147.02	-13.02
USGS-382444121123301	RMW-WL13	10/23/1999	147.56	-13.56
USGS-382444121123301	RMW-WL13	10/30/1999	146.93	-12.93
USGS-382444121123301	RMW-WL13	11/6/1999	146.5	-12.5
USGS-382444121123301	RMW-WL13	11/13/1999	145.97	-11.97
USGS-382444121123301	RMW-WL13	11/20/1999	145.75	-11.75
USGS-382444121123301	RMW-WL13	11/27/1999	145.23	-11.23
USGS-382444121123301	RMW-WL13	12/4/1999	145.1	-11.1
USGS-382444121123301	RMW-WL13	12/11/1999	144.92	-10.92
USGS-382444121123301	RMW-WL13	12/18/1999	144.67	-10.67
USGS-382444121123301	RMW-WL13	12/25/1999	144.59	-10.59
USGS-382444121123301	RMW-WL13	1/1/2000	144.17	-10.17
USGS-382444121123301	RMW-WL13	1/8/2000	144.13	-10.13
USGS-382444121123301	RMW-WL13	1/13/2000	143.92	-9.92
USGS-382444121123301	RMW-WL13	1/22/2000	143.65	-9.65
USGS-382444121123301	RMW-WL13	1/29/2000	143.43	-9.43
USGS-382444121123301	RMW-WL13	2/5/2000	143.18	-9.18
USGS-382444121123301	RMW-WL13	2/12/2000	142.83	-8.83
USGS-382444121123301	RMW-WL13	2/21/2000	142.55	-8.55
USGS-382444121123301	RMW-WL13	2/26/2000	142.75	-8.75
USGS-382444121123301	RMW-WL13	3/4/2000	142.23	-8.23
USGS-382444121123301	RMW-WL13	3/10/2000	142.43	-8.43
USGS-382444121123301	RMW-WL13	3/18/2000	142.13	-8.13
USGS-382444121123301	RMW-WL13	3/25/2000	141.71	-7.71
USGS-382444121123301	RMW-WL13	4/1/2000	141.93	-7.93
USGS-382444121123301	RMW-WL13	4/8/2000	142.92	-8.92
USGS-382444121123301	RMW-WL13	4/15/2000	142.46	-8.46
USGS-382444121123301	RMW-WL13	4/22/2000	141.92	-7.92
USGS-382444121123301	RMW-WL13	4/29/2000	142.05	-8.05
USGS-382444121123301	RMW-WL13	5/6/2000	142.29	-8.29
USGS-382444121123301	RMW-WL13	5/13/2000	141.69	-7.69
USGS-382444121123301	RMW-WL13	5/20/2000	141.72	-7.72
USGS-382444121123301	RMW-WL13	5/27/2000	142.67	-8.67
USGS-382444121123301	RMW-WL13	6/3/2000	143.42	-9.42
USGS-382444121123301	RMW-WL13	6/10/2000	143.58	-9.58
USGS-382444121123301	RMW-WL13	6/16/2000	143.83	-9.83
USGS-382444121123301	RMW-WL13	6/24/2000	145.03	-11.03
USGS-382444121123301	RMW-WL13	7/1/2000	145.6	-11.6
USGS-382444121123301	RMW-WL13	7/8/2000	145.38	-11.38
USGS-382444121123301	RMW-WL13	7/14/2000	145.84	-11.84
USGS-382444121123301	RMW-WL13	7/22/2000	145.93	-11.93
USGS-382444121123301	RMW-WL13	7/29/2000	146.34	-12.34
USGS-382444121123301	RMW-WL13	8/9/2000	147.02	-13.02
USGS-382444121123301	RMW-WL13	8/14/2000	146.62	-12.62
USGS-382444121123301	RMW-WL13	8/19/2000	146.96	-12.96
USGS-382444121123301	RMW-WL13	8/26/2000	146.86	-12.86
USGS-382444121123301	RMW-WL13	9/2/2000	146.44	-12.44
USGS-382444121123301	RMW-WL13	9/8/2000	146.21	-12.21
USGS-382444121123301	RMW-WL13	9/16/2000	146.74	-12.74
USGS-382444121123301	RMW-WL13	9/23/2000	146.44	-12.44
USGS-382444121123301	RMW-WL13	9/30/2000	146.6	-12.6
USGS-382444121123301	RMW-WL13	10/7/2000	146.75	-12.75
USGS-382444121123301	RMW-WL13	10/14/2000	145.7	-11.7
USGS-382444121123301	RMW-WL13	10/21/2000	145.19	-11.19
USGS-382444121123301	RMW-WL13	10/28/2000	144.79	-10.79
USGS-382444121123301	RMW-WL13	11/4/2000	144.37	-10.37
USGS-382444121123301	RMW-WL13	11/11/2000	144.14	-10.14
USGS-382444121123301	RMW-WL13	11/19/2000	144.08	-10.08
USGS-382444121123301	RMW-WL13	11/25/2000	143.73	-9.73
USGS-382444121123301	RMW-WL13	12/2/2000	143.44	-9.44
USGS-382444121123301	RMW-WL13	12/9/2000	143.17	-9.17
USGS-382444121123301	RMW-WL13	12/16/2000	143.37	-9.37
USGS-382444121123301	RMW-WL13	12/23/2000	142.88	-8.88
USGS-382444121123301	RMW-WL13	12/30/2000	142.7	-8.7
USGS-382444121123301	RMW-WL13	1/6/2001	142.46	-8.46
USGS-382444121123301	RMW-WL13	1/13/2001	142.4	-8.4
USGS-382444121123301	RMW-WL13	1/20/2001	142.29	-8.29
USGS-382444121123301	RMW-WL13	1/27/2001	141.79	-7.79
USGS-382444121123301	RMW-WL13	2/3/2001	142.05	-8.05
USGS-382444121123301	RMW-WL13	2/10/2001	141.44	-7.44

USGS-382444121123301	RMW-WL13	2/17/2001	141.59	-7.59
USGS-382444121123301	RMW-WL13	2/25/2001	141.23	-7.23
USGS-382444121123301	RMW-WL13	3/3/2001	141.13	-7.13
USGS-382444121123301	RMW-WL13	3/10/2001	140.96	-6.96
USGS-382444121123301	RMW-WL13	3/17/2001	141.11	-7.11
USGS-382444121123301	RMW-WL13	3/24/2001	141.01	-7.01
USGS-382444121123301	RMW-WL13	3/31/2001	140.85	-6.85
USGS-382444121123301	RMW-WL13	4/7/2001	140.95	-6.95
USGS-382444121123301	RMW-WL13	4/14/2001	141.55	-7.55
USGS-382444121123301	RMW-WL13	4/21/2001	140.96	-6.96
USGS-382444121123301	RMW-WL13	4/28/2001	141.17	-7.17
USGS-382444121123301	RMW-WL13	5/5/2001	141.74	-7.74
USGS-382444121123301	RMW-WL13	5/14/2001	142.56	-8.56
USGS-382444121123301	RMW-WL13	5/19/2001	142.7	-8.7
USGS-382444121123301	RMW-WL13	5/25/2001	144	-10
USGS-382444121123301	RMW-WL13	6/1/2001	143.82	-9.82
USGS-382444121123301	RMW-WL13	6/16/2001	144.89	-10.89
USGS-382444121123301	RMW-WL13	6/23/2001	145.89	-11.89
USGS-382444121123301	RMW-WL13	6/30/2001	145.39	-11.39
USGS-382444121123301	RMW-WL13	7/7/2001	145.9	-11.9
USGS-382444121123301	RMW-WL13	7/14/2001	146.18	-12.18
USGS-382444121123301	RMW-WL13	7/21/2001	146.64	-12.64
USGS-382444121123301	RMW-WL13	7/28/2001	147.19	-13.19
USGS-382444121123301	RMW-WL13	8/4/2001	146.93	-12.93
USGS-382444121123301	RMW-WL13	8/11/2001	147.38	-13.38
USGS-382444121123301	RMW-WL13	8/18/2001	147.5	-13.5
USGS-382444121123301	RMW-WL13	8/25/2001	147.42	-13.42
USGS-382444121123301	RMW-WL13	9/1/2001	147.11	-13.11
USGS-382444121123301	RMW-WL13	9/8/2001	147.42	-13.42
USGS-382444121123301	RMW-WL13	9/15/2001	147.44	-13.44
USGS-382444121123301	RMW-WL13	9/22/2001	147.59	-13.59
USGS-382444121123301	RMW-WL13	9/29/2001	146.83	-12.83
USGS-382444121123301	RMW-WL13	10/6/2001	146.88	-12.88
USGS-382444121123301	RMW-WL13	10/13/2001	146.99	-12.99
USGS-382444121123301	RMW-WL13	10/20/2001	146.66	-12.66
USGS-382444121123301	RMW-WL13	10/27/2001	146.91	-12.91
USGS-382444121123301	RMW-WL13	11/3/2001	146.19	-12.19
USGS-382444121123301	RMW-WL13	11/10/2001	145.83	-11.83
USGS-382444121123301	RMW-WL13	11/17/2001	145.52	-11.52
USGS-382444121123301	RMW-WL13	11/24/2001	144.74	-10.74
USGS-382444121123301	RMW-WL13	12/1/2001	144.93	-10.93
USGS-382444121123301	RMW-WL13	12/8/2001	144.92	-10.92
USGS-382444121123301	RMW-WL13	12/15/2001	144.49	-10.49
USGS-382444121123301	RMW-WL13	12/22/2001	144.4	-10.4
USGS-382444121123301	RMW-WL13	12/27/2001	144.17	-10.17
USGS-382444121123301	RMW-WL13	1/5/2002	144.23	-10.23
USGS-382444121123301	RMW-WL13	1/12/2002	144.03	-10.03
USGS-382444121123301	RMW-WL13	1/19/2002	143.75	-9.75
USGS-382444121123301	RMW-WL13	1/26/2002	143.15	-9.15
USGS-382444121123301	RMW-WL13	2/2/2002	143.46	-9.46
USGS-382444121123301	RMW-WL13	2/9/2002	143.43	-9.43
USGS-382444121123301	RMW-WL13	2/16/2002	143.05	-9.05
USGS-382444121123301	RMW-WL13	2/23/2002	142.95	-8.95
USGS-382444121123301	RMW-WL13	3/2/2002	143.01	-9.01
USGS-382444121123301	RMW-WL13	3/9/2002	142.94	-8.94
USGS-382444121123301	RMW-WL13	3/16/2002	142.76	-8.76
USGS-382444121123301	RMW-WL13	3/23/2002	142.59	-8.59
USGS-382444121123301	RMW-WL13	3/30/2002	142.7	-8.7
USGS-382444121123301	RMW-WL13	4/6/2002	142.64	-8.64
USGS-382444121123301	RMW-WL13	4/13/2002	142.81	-8.81
USGS-382444121123301	RMW-WL13	4/20/2002	143.26	-9.26
USGS-382444121123301	RMW-WL13	4/27/2002	143.13	-9.13
USGS-382444121123301	RMW-WL13	5/4/2002	143.53	-9.53
USGS-382444121123301	RMW-WL13	5/11/2002	143.77	-9.77
USGS-382444121123301	RMW-WL13	5/17/2002	144.53	-10.53
USGS-382444121123301	RMW-WL13	5/25/2002	143.91	-9.91
USGS-382444121123301	RMW-WL13	6/1/2002	144.35	-10.35
USGS-382444121123301	RMW-WL13	6/8/2002	145.12	-11.12
USGS-382444121123301	RMW-WL13	6/15/2002	145.94	-11.94
USGS-382444121123301	RMW-WL13	6/29/2002	146.87	-12.87
USGS-382444121123301	RMW-WL13	7/6/2002	146.85	-12.85
USGS-382444121123301	RMW-WL13	7/13/2002	147.49	-13.49
USGS-382444121123301	RMW-WL13	7/20/2002	147.79	-13.79
USGS-382444121123301	RMW-WL13	7/27/2002	148.08	-14.08
USGS-382444121123301	RMW-WL13	8/3/2002	148.48	-14.48
USGS-382444121123301	RMW-WL13	8/9/2002	148.6	-14.6
USGS-382444121123301	RMW-WL13	8/17/2002	148.75	-14.75
USGS-382444121123301	RMW-WL13	8/24/2002	148.85	-14.85
USGS-382444121123301	RMW-WL13	8/30/2002	149	-15

USGS-382444121123301	RMW-WL13	9/7/2002	148.85	-14.85
USGS-382444121123301	RMW-WL13	9/14/2002	149.01	-15.01
USGS-382444121123301	RMW-WL13	9/21/2002	148.82	-14.82
USGS-382444121123301	RMW-WL13	9/28/2002	148.8	-14.8
USGS-382444121123301	RMW-WL13	10/5/2002	148.98	-14.98
USGS-382444121123301	RMW-WL13	10/12/2002	148.88	-14.88
USGS-382444121123301	RMW-WL13	10/19/2002	148.71	-14.71
USGS-382444121123301	RMW-WL13	10/26/2002	148.19	-14.19
USGS-382444121123301	RMW-WL13	11/2/2002	148.23	-14.23
USGS-382444121123301	RMW-WL13	11/9/2002	147.48	-13.48
USGS-382444121123301	RMW-WL13	11/17/2002	147.29	-13.29
USGS-382444121123301	RMW-WL13	11/22/2002	146.96	-12.96
USGS-382444121123301	RMW-WL13	11/30/2002	146.77	-12.77
USGS-382444121123301	RMW-WL13	12/7/2002	146.65	-12.65
USGS-382444121123301	RMW-WL13	12/14/2002	146.26	-12.26
USGS-382444121123301	RMW-WL13	12/21/2002	146.2	-12.2
USGS-382444121123301	RMW-WL13	12/31/2002	146.02	-12.02
USGS-382444121123301	RMW-WL13	1/4/2003	145.92	-11.92
USGS-382444121123301	RMW-WL13	1/11/2003	145.68	-11.68
USGS-382444121123301	RMW-WL13	1/19/2003	145.52	-11.52
USGS-382444121123301	RMW-WL13	1/25/2003	145.51	-11.51
USGS-382444121123301	RMW-WL13	2/1/2003	145.12	-11.12
USGS-382444121123301	RMW-WL13	2/9/2003	145.36	-11.36
USGS-382444121123301	RMW-WL13	2/15/2003	145.06	-11.06
USGS-382444121123301	RMW-WL13	2/22/2003	144.93	-10.93
USGS-382444121123301	RMW-WL13	3/1/2003	144.88	-10.88
USGS-382444121123301	RMW-WL13	3/8/2003	144.85	-10.85
USGS-382444121123301	RMW-WL13	3/15/2003	144.27	-10.27
USGS-382444121123301	RMW-WL13	3/22/2003	144.77	-10.77
USGS-382444121123301	RMW-WL13	3/29/2003	144.65	-10.65
USGS-382444121123301	RMW-WL13	4/5/2003	144.44	-10.44
USGS-382444121123301	RMW-WL13	4/12/2003	144.39	-10.39
USGS-382444121123301	RMW-WL13	4/19/2003	144.33	-10.33
USGS-382444121123301	RMW-WL13	4/26/2003	144.28	-10.28
USGS-382444121123301	RMW-WL13	5/3/2003	143.84	-9.84
USGS-382444121123301	RMW-WL13	5/10/2003	144.09	-10.09
USGS-382444121123301	RMW-WL13	5/18/2003	144.4	-10.4
USGS-382444121123301	RMW-WL13	5/24/2003	144.89	-10.89
USGS-382444121123301	RMW-WL13	5/30/2003	145.63	-11.63
USGS-382444121123301	RMW-WL13	6/7/2003	146.44	-12.44
USGS-382444121123301	RMW-WL13	7/5/2003	148.71	-14.71
USGS-382444121123301	RMW-WL13	7/12/2003	148.91	-14.91
USGS-382444121123301	RMW-WL13	7/19/2003	149.6	-15.6
USGS-382444121123301	RMW-WL13	7/26/2003	150.07	-16.07
USGS-382444121123301	RMW-WL13	8/2/2003	150.25	-16.25
USGS-382444121123301	RMW-WL13	8/9/2003	150.07	-16.07
USGS-382444121123301	RMW-WL13	8/16/2003	150.24	-16.24
USGS-382444121123301	RMW-WL13	8/23/2003	149.68	-15.68
USGS-382444121123301	RMW-WL13	8/30/2003	150.01	-16.01
USGS-382444121123301	RMW-WL13	9/6/2003	150.27	-16.27
USGS-382444121123301	RMW-WL13	9/13/2003	149.95	-15.95
USGS-382444121123301	RMW-WL13	9/21/2003	150.23	-16.23
USGS-382444121123301	RMW-WL13	9/27/2003	150.73	-16.73
USGS-382444121123301	RMW-WL13	10/6/2003	150.08	-16.08
USGS-382444121123301	RMW-WL13	10/12/2003	150.32	-16.32
USGS-382444121123301	RMW-WL13	10/18/2003	150.63	-16.63
USGS-382444121123301	RMW-WL13	10/25/2003	150.57	-16.57
USGS-382444121123301	RMW-WL13	11/1/2003	149.99	-15.99
USGS-382444121123301	RMW-WL13	11/9/2003	150	-16
USGS-382444121123301	RMW-WL13	11/15/2003	148.98	-14.98
USGS-382444121123301	RMW-WL13	11/22/2003	148.76	-14.76
USGS-382444121123301	RMW-WL13	11/29/2003	148.46	-14.46
USGS-382444121123301	RMW-WL13	12/5/2003	148.21	-14.21
USGS-382444121123301	RMW-WL13	12/13/2003	148.19	-14.19
USGS-382444121123301	RMW-WL13	12/20/2003	147.75	-13.75
USGS-382444121123301	RMW-WL13	12/27/2003	147.95	-13.95
USGS-382444121123301	RMW-WL13	1/3/2004	147.58	-13.58
USGS-382444121123301	RMW-WL13	1/10/2004	147.43	-13.43
USGS-382444121123301	RMW-WL13	1/17/2004	147.17	-13.17
USGS-382444121123301	RMW-WL13	1/24/2004	146.95	-12.95
USGS-382444121123301	RMW-WL13	1/31/2004	146.81	-12.81
USGS-382444121123301	RMW-WL13	2/7/2004	147.03	-13.03
USGS-382444121123301	RMW-WL13	2/14/2004	146.77	-12.77
USGS-382444121123301	RMW-WL13	2/20/2004	146.46	-12.46
USGS-382444121123301	RMW-WL13	2/28/2004	146.49	-12.49
USGS-382444121123301	RMW-WL13	3/6/2004	146.53	-12.53
USGS-382444121123301	RMW-WL13	3/13/2004	146.2	-12.2
USGS-382444121123301	RMW-WL13	3/20/2004	146.27	-12.27
USGS-382444121123301	RMW-WL13	3/27/2004	146.33	-12.33

USGS-382444121123301	RMW-WL13	4/3/2004	146.1	-12.1
USGS-382444121123301	RMW-WL13	4/10/2004	146.65	-12.65
USGS-382444121123301	RMW-WL13	4/17/2004	146.98	-12.98
USGS-382444121123301	RMW-WL13	4/24/2004	147.73	-13.73
USGS-382444121123301	RMW-WL13	5/1/2004	147.94	-13.94
USGS-382444121123301	RMW-WL13	5/9/2004	148.74	-14.74
USGS-382444121123301	RMW-WL13	5/16/2004	148.72	-14.72
USGS-382444121123301	RMW-WL13	5/22/2004	149.47	-15.47
USGS-382444121123301	RMW-WL13	5/29/2004	149.46	-15.46
USGS-382444121123301	RMW-WL13	6/5/2004	150.28	-16.28
USGS-382444121123301	RMW-WL13	6/19/2004	150.73	-16.73
USGS-382444121123301	RMW-WL13	6/26/2004	151.3	-17.3
USGS-382444121123301	RMW-WL13	7/17/2004	152.38	-18.38
USGS-382444121123301	RMW-WL13	7/27/2004	152.62	-18.62
USGS-382444121123301	RMW-WL13	7/31/2004	153.17	-19.17
USGS-382444121123301	RMW-WL13	8/7/2004	153.44	-19.44
USGS-382444121123301	RMW-WL13	8/14/2004	153.7	-19.7
USGS-382444121123301	RMW-WL13	8/21/2004	153.71	-19.71
USGS-382444121123301	RMW-WL13	8/28/2004	153.7	-19.7
USGS-382444121123301	RMW-WL13	9/4/2004	153.79	-19.79
USGS-382444121123301	RMW-WL13	9/11/2004	154.31	-20.31
USGS-382444121123301	RMW-WL13	9/18/2004	153.91	-19.91
USGS-382444121123301	RMW-WL13	9/25/2004	154.13	-20.13
USGS-382444121123301	RMW-WL13	10/2/2004	154.17	-20.17
USGS-382444121123301	RMW-WL13	10/9/2004	154.26	-20.26
USGS-382444121123301	RMW-WL13	10/16/2004	153.56	-19.56
USGS-382444121123301	RMW-WL13	10/30/2004	152.88	-18.88
USGS-382444121123301	RMW-WL13	11/6/2004	152.35	-18.35
USGS-382444121123301	RMW-WL13	11/15/2004	152.13	-18.13
USGS-382444121123301	RMW-WL13	11/20/2004	151.87	-17.87
USGS-382444121123301	RMW-WL13	11/29/2004	151.91	-17.91
USGS-382444121123301	RMW-WL13	12/4/2004	151.23	-17.23
USGS-382444121123301	RMW-WL13	12/11/2004	151.43	-17.43
USGS-382444121123301	RMW-WL13	12/18/2004	151.32	-17.32
USGS-382444121123301	RMW-WL13	12/25/2004	151.07	-17.07
USGS-382444121123301	RMW-WL13	1/1/2005	150.86	-16.86
USGS-382444121123301	RMW-WL13	1/8/2005	150.45	-16.45
USGS-382444121123301	RMW-WL13	1/16/2005	150.9	-16.9
USGS-382444121123301	RMW-WL13	1/22/2005	150.37	-16.37
USGS-382444121123301	RMW-WL13	1/29/2005	150.37	-16.37
USGS-382444121123301	RMW-WL13	3/26/2005	149.57	-15.57
USGS-382444121123301	RMW-WL13	4/2/2005	149.3	-15.3
USGS-382444121123301	RMW-WL13	4/9/2005	149.05	-15.05
USGS-382444121123301	RMW-WL13	4/16/2005	149.14	-15.14
USGS-382444121123301	RMW-WL13	4/23/2005	149.3	-15.3
USGS-382444121123301	RMW-WL13	4/30/2005	149.23	-15.23
USGS-382444121123301	RMW-WL13	5/7/2005	149.29	-15.29
USGS-382444121123301	RMW-WL13	5/21/2005	149.13	-15.13
USGS-382444121123301	RMW-WL13	5/28/2005	149.88	-15.88
USGS-382444121123301	RMW-WL13	6/4/2005	150.2	-16.2
USGS-382444121123301	RMW-WL13	6/11/2005	149.2	-15.2
USGS-382444121123301	RMW-WL13	6/18/2005	150.74	-16.74
USGS-382444121123301	RMW-WL13	6/25/2005	151.4	-17.4
USGS-382444121123301	RMW-WL13	7/2/2005	151.73	-17.73
USGS-382444121123301	RMW-WL13	7/23/2005	153.77	-19.77
USGS-382444121123301	RMW-WL13	7/30/2005	154.09	-20.09
USGS-382444121123301	RMW-WL13	8/6/2005	154.81	-20.81
USGS-382444121123301	RMW-WL13	8/13/2005	154.85	-20.85
USGS-382444121123301	RMW-WL13	8/20/2005	154.86	-20.86
USGS-382444121123301	RMW-WL13	8/27/2005	154.94	-20.94
USGS-382444121123301	RMW-WL13	9/3/2005	155.12	-21.12
USGS-382444121123301	RMW-WL13	9/10/2005	154.96	-20.96
USGS-382444121123301	RMW-WL13	9/17/2005	154.97	-20.97
USGS-382444121123301	RMW-WL13	9/24/2005	154.66	-20.66
USGS-382444121123301	RMW-WL13	10/1/2005	154.68	-20.68
USGS-382444121123301	RMW-WL13	10/8/2005	154.43	-20.43
USGS-382444121123301	RMW-WL13	10/15/2005	154.47	-20.47
USGS-382444121123301	RMW-WL13	10/23/2005	154.24	-20.24
USGS-382444121123301	RMW-WL13	10/30/2005	154.13	-20.13
USGS-382444121123301	RMW-WL13	11/6/2005	153.57	-19.57
USGS-382444121123301	RMW-WL13	11/12/2005	153.56	-19.56
USGS-382444121123301	RMW-WL13	11/19/2005	153.51	-19.51
USGS-382444121123301	RMW-WL13	11/28/2005	153.17	-19.17
USGS-382444121123301	RMW-WL13	12/5/2005	152.85	-18.85
USGS-382444121123301	RMW-WL13	12/10/2005	152.57	-18.57
USGS-382444121123301	RMW-WL13	12/17/2005	152.23	-18.23
USGS-382444121123301	RMW-WL13	12/23/2005	152.72	-18.72
USGS-382444121123301	RMW-WL13	12/31/2005	151.3	-17.3
USGS-382444121123301	RMW-WL13	1/7/2006	151.64	-17.64

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USGS-382444121123301	RMW-WL13	1/21/2006	151.34	-17.34
USGS-382444121123301	RMW-WL13	1/28/2006	151.14	-17.14
USGS-382444121123301	RMW-WL13	2/4/2006	150.79	-16.79
USGS-382444121123301	RMW-WL13	2/11/2006	150.8	-16.8
USGS-382444121123301	RMW-WL13	2/18/2006	150.4	-16.4
USGS-382444121123301	RMW-WL13	2/25/2006	150.32	-16.32
USGS-382444121123301	RMW-WL13	3/5/2006	150.13	-16.13
USGS-382444121123301	RMW-WL13	3/11/2006	149.67	-15.67
USGS-382444121123301	RMW-WL13	3/18/2006	149.7	-15.7
USGS-382444121123301	RMW-WL13	3/27/2006	149.56	-15.56
USGS-382444121123301	RMW-WL13	4/1/2006	149.57	-15.57
USGS-382444121123301	RMW-WL13	4/9/2006	149.31	-15.31
USGS-382444121123301	RMW-WL13	4/15/2006	149.01	-15.01
USGS-382444121123301	RMW-WL13	4/22/2006	148.72	-14.72
USGS-382444121123301	RMW-WL13	4/29/2006	148.99	-14.99
USGS-382444121123301	RMW-WL13	5/6/2006	149.13	-15.13
USGS-382444121123301	RMW-WL13	5/13/2006	149.3	-15.3
USGS-382444121123301	RMW-WL13	5/19/2006	150.12	-16.12
USGS-382444121123301	RMW-WL13	5/27/2006	149.53	-15.53
USGS-382444121123301	RMW-WL13	6/10/2006	150.74	-16.74
USGS-382444121123301	RMW-WL13	6/17/2006	151.5	-17.5
USGS-382444121123301	RMW-WL13	6/24/2006	151.93	-17.93
USGS-382444121123301	RMW-WL13	7/1/2006	152.3	-18.3
USGS-382444121123301	RMW-WL13	7/5/2006	152.17	-18.17
USGS-382444121123301	RMW-WL13	7/21/2006	153.45	-19.45
USGS-382444121123301	RMW-WL13	7/31/2006	153.61	-19.61
USGS-382444121123301	RMW-WL13	8/7/2006	154.15	-20.15
USGS-382444121123301	RMW-WL13	8/11/2006	153.97	-19.97
USGS-382444121123301	RMW-WL13	8/19/2006	154.17	-20.17
USGS-382444121123301	RMW-WL13	9/2/2006	154.22	-20.22
USGS-382444121123301	RMW-WL13	9/9/2006	154.24	-20.24
USGS-382444121123301	RMW-WL13	9/16/2006	154.29	-20.29
USGS-382444121123301	RMW-WL13	9/23/2006	154.13	-20.13
USGS-382444121123301	RMW-WL13	9/30/2006	154.52	-20.52
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USGS-382444121123301	RMW-WL13	10/16/2006	153.61	-19.61
USGS-382444121123301	RMW-WL13	10/21/2006	153.24	-19.24
USGS-382444121123301	RMW-WL13	10/28/2006	153.63	-19.63
USGS-382444121123301	RMW-WL13	11/4/2006	152.85	-18.85
USGS-382444121123301	RMW-WL13	11/12/2006	152.33	-18.33
USGS-382444121123301	RMW-WL13	11/18/2006	152	-18
USGS-382444121123301	RMW-WL13	11/26/2006	151.58	-17.58
USGS-382444121123301	RMW-WL13	12/3/2006	151.59	-17.59
USGS-382444121123301	RMW-WL13	12/9/2006	150.99	-16.99
USGS-382444121123301	RMW-WL13	12/16/2006	150.61	-16.61
USGS-382444121123301	RMW-WL13	12/23/2006	150.86	-16.86
USGS-382444121123301	RMW-WL13	12/30/2006	150.58	-16.58
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USGS-382444121123301	RMW-WL13	1/13/2007	150.19	-16.19
USGS-382444121123301	RMW-WL13	1/20/2007	149.85	-15.85
USGS-382444121123301	RMW-WL13	1/27/2007	149.69	-15.69
USGS-382444121123301	RMW-WL13	2/2/2007	149.79	-15.79
USGS-382444121123301	RMW-WL13	2/10/2007	149.36	-15.36
USGS-382444121123301	RMW-WL13	2/17/2007	149.36	-15.36
USGS-382444121123301	RMW-WL13	2/23/2007	149.08	-15.08
USGS-382444121123301	RMW-WL13	3/3/2007	149.13	-15.13
USGS-382444121123301	RMW-WL13	3/10/2007	148.96	-14.96
USGS-382444121123301	RMW-WL13	3/17/2007	148.74	-14.74
USGS-382444121123301	RMW-WL13	3/24/2007	148.71	-14.71
USGS-382444121123301	RMW-WL13	4/1/2007	149.08	-15.08
USGS-382444121123301	RMW-WL13	4/7/2007	149.15	-15.15
USGS-382444121123301	RMW-WL13	4/14/2007	149.22	-15.22
USGS-382444121123301	RMW-WL13	4/21/2007	149.23	-15.23
USGS-382444121123301	RMW-WL13	4/27/2007	149.05	-15.05
USGS-382444121123301	RMW-WL13	5/5/2007	149.17	-15.17
USGS-382444121123301	RMW-WL13	5/12/2007	150	-16
USGS-382444121123301	RMW-WL13	5/18/2007	150.36	-16.36
USGS-382444121123301	RMW-WL13	5/26/2007	151.5	-17.5
USGS-382444121123301	RMW-WL13	6/9/2007	153	-19
USGS-382444121123301	RMW-WL13	6/16/2007	152.93	-18.93
USGS-382444121123301	RMW-WL13	6/23/2007	153.54	-19.54
USGS-382444121123301	RMW-WL13	6/30/2007	154.03	-20.03
USGS-382444121123301	RMW-WL13	7/7/2007	154.42	-20.42
USGS-382444121123301	RMW-WL13	7/14/2007	154.61	-20.61
USGS-382444121123301	RMW-WL13	7/21/2007	155.03	-21.03
USGS-382444121123301	RMW-WL13	7/28/2007	155.42	-21.42
USGS-382444121123301	RMW-WL13	8/4/2007	155.68	-21.68
USGS-382444121123301	RMW-WL13	8/20/2007	155.99	-21.99

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USGS-382444121123301	RMW-WL13	9/1/2007	156.29	-22.29
USGS-382444121123301	RMW-WL13	9/8/2007	156.32	-22.32
USGS-382444121123301	RMW-WL13	9/15/2007	156.16	-22.16
USGS-382444121123301	RMW-WL13	9/22/2007	155.68	-21.68
USGS-382444121123301	RMW-WL13	10/6/2007	155.84	-21.84
USGS-382444121123301	RMW-WL13	10/13/2007	154.93	-20.93
USGS-382444121123301	RMW-WL13	10/20/2007	154.73	-20.73
USGS-382444121123301	RMW-WL13	10/27/2007	154.73	-20.73
USGS-382444121123301	RMW-WL13	11/10/2007	154.35	-20.35
USGS-382444121123301	RMW-WL13	11/17/2007	154	-20
USGS-382444121123301	RMW-WL13	11/24/2007	153.71	-19.71
USGS-382444121123301	RMW-WL13	12/1/2007	153.22	-19.22
USGS-382444121123301	RMW-WL13	12/8/2007	153.13	-19.13
USGS-382444121123301	RMW-WL13	12/15/2007	153.24	-19.24
USGS-382444121123301	RMW-WL13	12/22/2007	153.07	-19.07
USGS-382444121123301	RMW-WL13	12/29/2007	152.56	-18.56
USGS-382444121123301	RMW-WL13	1/5/2008	152.03	-18.03
USGS-382444121123301	RMW-WL13	1/12/2008	152.37	-18.37
USGS-382444121123301	RMW-WL13	1/19/2008	152.16	-18.16
USGS-382444121123301	RMW-WL13	1/26/2008	151.82	-17.82
USGS-382444121123301	RMW-WL13	2/2/2008	151.82	-17.82
USGS-382444121123301	RMW-WL13	2/9/2008	151.63	-17.63
USGS-382444121123301	RMW-WL13	2/16/2008	151.55	-17.55
USGS-382444121123301	RMW-WL13	2/23/2008	151.23	-17.23
USGS-382444121123301	RMW-WL13	3/1/2008	151.3	-17.3
USGS-382444121123301	RMW-WL13	3/8/2008	151.17	-17.17
USGS-382444121123301	RMW-WL13	3/16/2008	151.03	-17.03
USGS-382444121123301	RMW-WL13	3/21/2008	151.57	-17.57
USGS-382444121123301	RMW-WL13	3/29/2008	151.78	-17.78
USGS-382444121123301	RMW-WL13	4/5/2008	152.47	-18.47
USGS-382444121123301	RMW-WL13	4/12/2008	152.63	-18.63
USGS-382444121123301	RMW-WL13	4/19/2008	152.86	-18.86
USGS-382444121123301	RMW-WL13	5/4/2008	154.02	-20.02
USGS-382444121123301	RMW-WL13	5/10/2008	154.26	-20.26
USGS-382444121123301	RMW-WL13	5/17/2008	155.03	-21.03
USGS-382444121123301	RMW-WL13	5/31/2008	155.41	-21.41
USGS-382444121123301	RMW-WL13	6/7/2008	155.71	-21.71
USGS-382444121123301	RMW-WL13	6/14/2008	156.4	-22.4
USGS-382444121123301	RMW-WL13	6/23/2008	156.84	-22.84
USGS-382444121123301	RMW-WL13	7/5/2008	157.37	-23.37
USGS-382444121123301	RMW-WL13	7/12/2008	157.94	-23.94
USGS-382444121123301	RMW-WL13	7/19/2008	157.7	-23.7
USGS-382444121123301	RMW-WL13	7/27/2008	158	-24
USGS-382444121123301	RMW-WL13	8/2/2008	158.13	-24.13
USGS-382444121123301	RMW-WL13	8/16/2008	158.95	-24.95
USGS-382444121123301	RMW-WL13	8/23/2008	158.76	-24.76
USGS-382444121123301	RMW-WL13	8/30/2008	158.69	-24.69
USGS-382444121123301	RMW-WL13	9/6/2008	158.94	-24.94
USGS-382444121123301	RMW-WL13	9/13/2008	159.06	-25.06
USGS-382444121123301	RMW-WL13	9/20/2008	159.08	-25.08
USGS-382444121123301	RMW-WL13	9/27/2008	159.09	-25.09
USGS-382444121123301	RMW-WL13	10/4/2008	158.83	-24.83
USGS-382444121123301	RMW-WL13	10/11/2008	158.51	-24.51
USGS-382444121123301	RMW-WL13	10/20/2008	158.58	-24.58
USGS-382444121123301	RMW-WL13	10/25/2008	158.46	-24.46
USGS-382444121123301	RMW-WL13	11/1/2008	157.9	-23.9
USGS-382444121123301	RMW-WL13	11/10/2008	157.28	-23.28
USGS-382444121123301	RMW-WL13	11/15/2008	157.24	-23.24
USGS-382444121123301	RMW-WL13	11/21/2008	157.03	-23.03
USGS-382444121123301	RMW-WL13	11/29/2008	156.87	-22.87
USGS-382444121123301	RMW-WL13	12/6/2008	156.52	-22.52
USGS-382444121123301	RMW-WL13	12/13/2008	155.97	-21.97
USGS-382444121123301	RMW-WL13	12/20/2008	156.37	-22.37
USGS-382444121123301	RMW-WL13	12/27/2008	156.24	-22.24
USGS-382444121123301	RMW-WL13	1/3/2009	155.66	-21.66
USGS-382444121123301	RMW-WL13	1/10/2009	155.89	-21.89
USGS-382444121123301	RMW-WL13	1/17/2009	155.56	-21.56
USGS-382444121123301	RMW-WL13	1/24/2009	155.28	-21.28
USGS-382444121123301	RMW-WL13	1/31/2009	155.15	-21.15
USGS-382444121123301	RMW-WL13	2/7/2009	154.83	-20.83
USGS-382444121123301	RMW-WL13	2/14/2009	154.86	-20.86
USGS-382444121123301	RMW-WL13	2/21/2009	154.84	-20.84
USGS-382444121123301	RMW-WL13	2/28/2009	154.68	-20.68
USGS-382444121123301	RMW-WL13	3/7/2009	154.59	-20.59
USGS-382444121123301	RMW-WL13	3/14/2009	154.48	-20.48
USGS-382444121123301	RMW-WL13	3/21/2009	154.28	-20.28
USGS-382444121123301	RMW-WL13	3/28/2009	154.42	-20.42
USGS-382444121123301	RMW-WL13	4/4/2009	154.79	-20.79

USGS-382444121123301	RMW-WL13	4/11/2009	154.82	-20.82
USGS-382444121123301	RMW-WL13	4/18/2009	155.25	-21.25
USGS-382444121123301	RMW-WL13	4/25/2009	155.5	-21.5
USGS-382444121123301	RMW-WL13	5/1/2009	155.89	-21.89
USGS-382444121123301	RMW-WL13	5/9/2009	156.03	-22.03
USGS-382444121123301	RMW-WL13	5/23/2009	156.91	-22.91
USGS-382444121123301	RMW-WL13	5/30/2009	157.09	-23.09
USGS-382444121123301	RMW-WL13	6/13/2009	157.78	-23.78
USGS-382444121123301	RMW-WL13	6/20/2009	158.14	-24.14
USGS-382444121123301	RMW-WL13	6/28/2009	158.99	-24.99
USGS-382444121123301	RMW-WL13	7/4/2009	159.52	-25.52
USGS-382444121123301	RMW-WL13	7/11/2009	159.83	-25.83
USGS-382444121123301	RMW-WL13	7/18/2009	160.22	-26.22
USGS-382444121123301	RMW-WL13	7/25/2009	160.8	-26.8
USGS-382444121123301	RMW-WL13	8/1/2009	160.92	-26.92
USGS-382444121123301	RMW-WL13	8/15/2009	161.23	-27.23
USGS-382444121123301	RMW-WL13	8/29/2009	161.47	-27.47
USGS-382444121123301	RMW-WL13	9/2/2009	161.69	-27.69
USGS-382444121123301	RMW-WL13	9/5/2009	161.46	-27.46
USGS-382444121123301	RMW-WL13	9/12/2009	161.44	-27.44
USGS-382444121123301	RMW-WL13	9/19/2009	161.55	-27.55
USGS-382444121123301	RMW-WL13	9/26/2009	161.52	-27.52
USGS-382444121123301	RMW-WL13	10/3/2009	161.24	-27.24
USGS-382444121123301	RMW-WL13	10/10/2009	161.23	-27.23
USGS-382444121123301	RMW-WL13	10/17/2009	160.33	-26.33
USGS-382444121123301	RMW-WL13	10/24/2009	159.96	-25.96
USGS-382444121123301	RMW-WL13	10/31/2009	159.93	-25.93
USGS-382444121123301	RMW-WL13	11/7/2009	159.68	-25.68
USGS-382444121123301	RMW-WL13	11/14/2009	159.48	-25.48
USGS-382444121123301	RMW-WL13	11/21/2009	159.23	-25.23
USGS-382444121123301	RMW-WL13	11/28/2009	158.85	-24.85
USGS-382444121123301	RMW-WL13	12/5/2009	158.8	-24.8
USGS-382444121123301	RMW-WL13	12/13/2009	158.4	-24.4
USGS-382444121123301	RMW-WL13	12/19/2009	158.63	-24.63
USGS-382444121123301	RMW-WL13	12/26/2009	158.18	-24.18
USGS-382444121123301	RMW-WL13	1/2/2010	158.17	-24.17
USGS-382444121123301	RMW-WL13	1/9/2010	157.98	-23.98
USGS-382444121123301	RMW-WL13	1/16/2010	157.52	-23.52
USGS-382444121123301	RMW-WL13	1/23/2010	157.62	-23.62
USGS-382444121123301	RMW-WL13	1/30/2010	157.52	-23.52
USGS-382444121123301	RMW-WL13	2/6/2010	157.24	-23.24
USGS-382444121123301	RMW-WL13	2/13/2010	157.36	-23.36
USGS-382444121123301	RMW-WL13	2/20/2010	156.89	-22.89
USGS-382444121123301	RMW-WL13	2/28/2010	156.69	-22.69
USGS-382444121123301	RMW-WL13	3/6/2010	156.57	-22.57
USGS-382444121123301	RMW-WL13	3/13/2010	156.8	-22.8
USGS-382444121123301	RMW-WL13	3/20/2010	156.66	-22.66
USGS-382444121123301	RMW-WL13	3/27/2010	156.74	-22.74
USGS-382444121123301	RMW-WL13	4/3/2010	156.68	-22.68
USGS-382444121123301	RMW-WL13	4/10/2010	156.48	-22.48
USGS-382444121123301	RMW-WL13	4/21/2010	156.32	-22.32
USGS-382444121123301	RMW-WL13	4/24/2010	156.53	-22.53
USGS-382444121123301	RMW-WL13	5/2/2010	156.34	-22.34
USGS-382444121123301	RMW-WL13	5/8/2010	156.53	-22.53
USGS-382444121123301	RMW-WL13	5/11/2010	156.61	-22.61
USGS-382444121123301	RMW-WL13	5/19/2010	156.95	-22.95
USGS-382444121123301	RMW-WL13	5/22/2010	157.28	-23.28
USGS-382444121123301	RMW-WL13	5/29/2010	157.12	-23.12
USGS-382444121123301	RMW-WL13	6/6/2010	157.93	-23.93
USGS-382444121123301	RMW-WL13	6/12/2010	158.36	-24.36
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USGS-382444121123301	RMW-WL13	7/3/2010	160.33	-26.33
USGS-382444121123301	RMW-WL13	7/10/2010	160.93	-26.93
USGS-382444121123301	RMW-WL13	7/17/2010	161.47	-27.47
USGS-382444121123301	RMW-WL13	7/24/2010	161.59	-27.59
USGS-382444121123301	RMW-WL13	7/31/2010	161.95	-27.95
USGS-382444121123301	RMW-WL13	8/7/2010	162.25	-28.25
USGS-382444121123301	RMW-WL13	8/14/2010	162.3	-28.3
USGS-382444121123301	RMW-WL13	8/21/2010	162.53	-28.53
USGS-382444121123301	RMW-WL13	8/28/2010	162.57	-28.57
USGS-382444121123301	RMW-WL13	9/11/2010	163.04	-29.04
USGS-382444121123301	RMW-WL13	9/25/2010	162.63	-28.63
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USGS-382444121123301	RMW-WL13	10/9/2010	162.77	-28.77
USGS-382444121123301	RMW-WL13	10/23/2010	162.01	-28.01
USGS-382444121123301	RMW-WL13	10/30/2010	161.11	-27.11
USGS-382444121123301	RMW-WL13	11/8/2010	161.06	-27.06
USGS-382444121123301	RMW-WL13	11/13/2010	160.98	-26.98
USGS-382444121123301	RMW-WL13	11/21/2010	160.21	-26.21

USGS-382444121123301	RMW-WL13	12/9/2010	159.99	-25.99
USGS-382444121123301	RMW-WL13	12/11/2010	160.02	-26.02
USGS-382444121123301	RMW-WL13	12/18/2010	159.44	-25.44
USGS-382444121123301	RMW-WL13	12/27/2010	159.78	-25.78
USGS-382444121123301	RMW-WL13	1/1/2011	159.41	-25.41
USGS-382444121123301	RMW-WL13	1/8/2011	159.15	-25.15
USGS-382444121123301	RMW-WL13	1/15/2011	159.15	-25.15
USGS-382444121123301	RMW-WL13	1/23/2011	158.8	-24.8
USGS-382444121123301	RMW-WL13	1/29/2011	158.62	-24.62
USGS-382444121123301	RMW-WL13	2/5/2011	158.61	-24.61
USGS-382444121123301	RMW-WL13	2/12/2011	158.51	-24.51
USGS-382444121123301	RMW-WL13	2/19/2011	157.89	-23.89
USGS-382444121123301	RMW-WL13	2/26/2011	157.85	-23.85
USGS-382444121123301	RMW-WL13	3/5/2011	158.37	-24.37
USGS-382444121123301	RMW-WL13	3/12/2011	157.8	-23.8
USGS-382444121123301	RMW-WL13	3/20/2011	157.01	-23.01
USGS-382444121123301	RMW-WL13	3/27/2011	157.42	-23.42
USGS-382444121123301	RMW-WL13	4/4/2011	157.47	-23.47
USGS-382444121123301	RMW-WL13	4/9/2011	157.33	-23.33
USGS-382444121123301	RMW-WL13	4/16/2011	157.38	-23.38
USGS-382444121123301	RMW-WL13	4/23/2011	157.3	-23.3
USGS-382444121123301	RMW-WL13	4/30/2011	157.47	-23.47
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USGS-382444121123301	RMW-WL13	7/23/2011	160.84	-26.84
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USGS-382444121123301	RMW-WL13	8/6/2011	161.77	-27.77
USGS-382444121123301	RMW-WL13	8/13/2011	162.06	-28.06
USGS-382444121123301	RMW-WL13	8/20/2011	162.38	-28.38
USGS-382444121123301	RMW-WL13	8/27/2011	162.4	-28.4
USGS-382444121123301	RMW-WL13	9/10/2011	162.66	-28.66
USGS-382444121123301	RMW-WL13	9/17/2011	162.6	-28.6
USGS-382444121123301	RMW-WL13	9/24/2011	162.64	-28.64
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USGS-382444121123301	RMW-WL13	10/8/2011	161.67	-27.67
USGS-382444121123301	RMW-WL13	10/15/2011	161	-27
USGS-382444121123301	RMW-WL13	10/22/2011	161.1	-27.1
USGS-382444121123301	RMW-WL13	10/29/2011	160.92	-26.92
USGS-382444121123301	RMW-WL13	11/5/2011	160.51	-26.51
USGS-382444121123301	RMW-WL13	11/12/2011	159.96	-25.96
USGS-382444121123301	RMW-WL13	11/19/2011	159.85	-25.85
USGS-382444121123301	RMW-WL13	11/26/2011	159.93	-25.93
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USGS-382444121123301	RMW-WL13	12/17/2011	159.09	-25.09
USGS-382444121123301	RMW-WL13	12/24/2011	159.16	-25.16
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USGS-382444121123301	RMW-WL13	1/22/2012	158.42	-24.42
USGS-382444121123301	RMW-WL13	1/28/2012	158.35	-24.35
USGS-382444121123301	RMW-WL13	2/4/2012	158.02	-24.02
USGS-382444121123301	RMW-WL13	2/11/2012	157.83	-23.83
USGS-382444121123301	RMW-WL13	2/18/2012	157.79	-23.79
USGS-382444121123301	RMW-WL13	2/25/2012	157.84	-23.84
USGS-382444121123301	RMW-WL13	3/3/2012	157.69	-23.69
USGS-382444121123301	RMW-WL13	3/10/2012	157.58	-23.58
USGS-382444121123301	RMW-WL13	3/18/2012	156.87	-22.87
USGS-382444121123301	RMW-WL13	3/24/2012	157.1	-23.1
USGS-382444121123301	RMW-WL13	4/3/2012	157.03	-23.03
USGS-382444121123301	RMW-WL13	4/9/2012	157.21	-23.21
USGS-382444121123301	RMW-WL13	4/14/2012	156.88	-22.88
USGS-382444121123301	RMW-WL13	4/21/2012	156.87	-22.87
USGS-382444121123301	RMW-WL13	4/28/2012	156.88	-22.88
USGS-382444121123301	RMW-WL13	5/5/2012	157.19	-23.19
USGS-382444121123301	RMW-WL13	5/12/2012	157.79	-23.79
USGS-382444121123301	RMW-WL13	5/26/2012	158.49	-24.49
USGS-382444121123301	RMW-WL13	6/2/2012	158.81	-24.81
USGS-382444121123301	RMW-WL13	6/9/2012	159.44	-25.44
USGS-382444121123301	RMW-WL13	6/16/2012	160.02	-26.02
USGS-382444121123301	RMW-WL13	6/25/2012	160.73	-26.73
USGS-382444121123301	RMW-WL13	6/30/2012	161.12	-27.12

USGS-382444121123301	RMW-WL13	7/7/2012	161.43	-27.43
USGS-382444121123301	RMW-WL13	7/14/2012	162.23	-28.23
USGS-382444121123301	RMW-WL13	7/21/2012	162.35	-28.35
USGS-382444121123301	RMW-WL13	7/28/2012	162.17	-28.17
USGS-382444121123301	RMW-WL13	8/11/2012	163.36	-29.36
USGS-382444121123301	RMW-WL13	8/18/2012	163.89	-29.89
USGS-382444121123301	RMW-WL13	8/25/2012	164	-30
USGS-382444121123301	RMW-WL13	9/1/2012	164.08	-30.08
USGS-382444121123301	RMW-WL13	9/8/2012	163.93	-29.93
USGS-382444121123301	RMW-WL13	9/15/2012	164.13	-30.13
USGS-382444121123301	RMW-WL13	9/22/2012	163.92	-29.92
USGS-382444121123301	RMW-WL13	9/29/2012	164.03	-30.03
USGS-382444121123301	RMW-WL13	10/6/2012	163.85	-29.85
USGS-382444121123301	RMW-WL13	10/14/2012	163.67	-29.67
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USGS-382444121123301	RMW-WL13	11/10/2012	162.28	-28.28
USGS-382444121123301	RMW-WL13	11/17/2012	161.96	-27.96
USGS-382444121123301	RMW-WL13	11/24/2012	161.93	-27.93
USGS-382444121123301	RMW-WL13	12/1/2012	161.13	-27.13
USGS-382444121123301	RMW-WL13	12/8/2012	161.27	-27.27
USGS-382444121123301	RMW-WL13	12/15/2012	161.04	-27.04
USGS-382444121123301	RMW-WL13	12/22/2012	160.66	-26.66
USGS-382444121123301	RMW-WL13	2/16/2013	159.49	-25.49
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USGS-382444121123301	RMW-WL13	3/2/2013	159.3	-25.3
USGS-382444121123301	RMW-WL13	3/10/2013	159.26	-25.26
USGS-382444121123301	RMW-WL13	3/16/2013	159.21	-25.21
USGS-382444121123301	RMW-WL13	3/23/2013	159.3	-25.3
USGS-382444121123301	RMW-WL13	3/30/2013	159.65	-25.65
USGS-382444121123301	RMW-WL13	4/6/2013	159.22	-25.22
USGS-382444121123301	RMW-WL13	4/13/2013	159.11	-25.11
USGS-382444121123301	RMW-WL13	4/20/2013	160.01	-26.01
USGS-382444121123301	RMW-WL13	4/27/2013	160.51	-26.51
USGS-382444121123301	RMW-WL13	5/4/2013	160.61	-26.61
USGS-382444121123301	RMW-WL13	5/25/2013	162.05	-28.05
USGS-382444121123301	RMW-WL13	6/1/2013	162.18	-28.18
USGS-382444121123301	RMW-WL13	6/8/2013	162.84	-28.84
USGS-382444121123301	RMW-WL13	6/15/2013	163.16	-29.16
USGS-382444121123301	RMW-WL13	6/22/2013	163.74	-29.74
USGS-382444121123301	RMW-WL13	6/29/2013	163.86	-29.86
USGS-382444121123301	RMW-WL13	7/6/2013	164.23	-30.23
USGS-382444121123301	RMW-WL13	7/13/2013	164.86	-30.86
USGS-382444121123301	RMW-WL13	7/20/2013	165.05	-31.05
USGS-382444121123301	RMW-WL13	8/3/2013	165.54	-31.54
USGS-382444121123301	RMW-WL13	8/10/2013	165.7	-31.7
USGS-382444121123301	RMW-WL13	8/17/2013	165.67	-31.67
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USGS-382444121123301	RMW-WL13	8/31/2013	166.15	-32.15
USGS-382444121123301	RMW-WL13	9/7/2013	165.95	-31.95
USGS-382444121123301	RMW-WL13	9/14/2013	166.02	-32.02
USGS-382444121123301	RMW-WL13	9/21/2013	166.09	-32.09
USGS-382444121123301	RMW-WL13	9/28/2013	165.61	-31.61
USGS-382444121123301	RMW-WL13	10/5/2013	165.89	-31.89
USGS-382444121123301	RMW-WL13	10/12/2013	165.76	-31.76
USGS-382444121123301	RMW-WL13	10/19/2013	165.6	-31.6
USGS-382444121123301	RMW-WL13	10/26/2013	165.55	-31.55
USGS-382444121123301	RMW-WL13	11/2/2013	165.22	-31.22
USGS-382444121123301	RMW-WL13	11/9/2013	165.11	-31.11
USGS-382444121123301	RMW-WL13	11/16/2013	164.57	-30.57
USGS-382444121123301	RMW-WL13	11/23/2013	164.39	-30.39
USGS-382444121123301	RMW-WL13	12/1/2013	164.31	-30.31
USGS-382444121123301	RMW-WL13	12/7/2013	163.8	-29.8
USGS-382444121123301	RMW-WL13	12/15/2013	163.79	-29.79
USGS-382444121123301	RMW-WL13	12/21/2013	163.38	-29.38
USGS-382444121123301	RMW-WL13	12/28/2013	163.28	-29.28
USGS-382444121123301	RMW-WL13	1/4/2014	163.16	-29.16
USGS-382444121123301	RMW-WL13	1/11/2014	163.35	-29.35
USGS-382444121123301	RMW-WL13	1/18/2014	163.26	-29.26
USGS-382444121123301	RMW-WL13	1/26/2014	163.56	-29.56
USGS-382444121123301	RMW-WL13	2/1/2014	163.28	-29.28
USGS-382444121123301	RMW-WL13	2/8/2014	163.02	-29.02
USGS-382444121123301	RMW-WL13	2/15/2014	162.63	-28.63
USGS-382444121123301	RMW-WL13	2/22/2014	162.52	-28.52
USGS-382444121123301	RMW-WL13	3/1/2014	162.1	-28.1
USGS-382444121123301	RMW-WL13	3/8/2014	162.44	-28.44
USGS-382444121123301	RMW-WL13	3/15/2014	162.49	-28.49
USGS-382444121123301	RMW-WL13	3/22/2014	162.25	-28.25
USGS-382444121123301	RMW-WL13	3/29/2014	162.16	-28.16
USGS-382444121123301	RMW-WL13	4/6/2014	162.2	-28.2

USGS-382444121123301	RMW-WL13	4/12/2014	162.01	-28.01
USGS-382444121123301	RMW-WL13	4/21/2014	162.69	-28.69
USGS-382444121123301	RMW-WL13	4/26/2014	162.36	-28.36
USGS-382444121123301	RMW-WL13	5/3/2014	162.44	-28.44
USGS-382444121123301	RMW-WL13	5/10/2014	162.84	-28.84
USGS-382444121123301	RMW-WL13	5/17/2014	163.79	-29.79
USGS-382444121123301	RMW-WL13	5/24/2014	164.13	-30.13
USGS-382444121123301	RMW-WL13	5/31/2014	164.47	-30.47
USGS-382444121123301	RMW-WL13	6/7/2014	165.16	-31.16
USGS-382444121123301	RMW-WL13	6/14/2014	165.61	-31.61
USGS-382444121123301	RMW-WL13	6/21/2014	165.87	-31.87
USGS-382444121123301	RMW-WL13	6/28/2014	166.35	-32.35
USGS-382444121123301	RMW-WL13	7/5/2014	166.87	-32.87
USGS-382444121123301	RMW-WL13	7/12/2014	167.11	-33.11
USGS-382444121123301	RMW-WL13	7/19/2014	167.33	-33.33
USGS-382444121123301	RMW-WL13	7/26/2014	167.21	-33.21
USGS-382444121123301	RMW-WL13	8/2/2014	167.64	-33.64
USGS-382444121123301	RMW-WL13	8/9/2014	167.74	-33.74
USGS-382444121123301	RMW-WL13	8/30/2014	168	-34
USGS-382444121123301	RMW-WL13	9/6/2014	167.92	-33.92
USGS-382444121123301	RMW-WL13	9/13/2014	168.48	-34.48
USGS-382444121123301	RMW-WL13	9/20/2014	168.27	-34.27
USGS-382444121123301	RMW-WL13	9/27/2014	168.01	-34.01
USGS-382444121123301	RMW-WL13	10/4/2014	168.23	-34.23
USGS-382444121123301	RMW-WL13	10/11/2014	168.28	-34.28
USGS-382444121123301	RMW-WL13	10/19/2014	167.79	-33.79
USGS-382444121123301	RMW-WL13	10/25/2014	167.73	-33.73
USGS-382444121123301	RMW-WL13	11/1/2014	167.26	-33.26
USGS-382444121123301	RMW-WL13	11/8/2014	167.31	-33.31
USGS-382444121123301	RMW-WL13	11/15/2014	167.13	-33.13
USGS-382444121123301	RMW-WL13	11/22/2014	166.74	-32.74
USGS-382444121123301	RMW-WL13	11/29/2014	166.23	-32.23
USGS-382444121123301	RMW-WL13	12/6/2014	166.46	-32.46
USGS-382444121123301	RMW-WL13	12/13/2014	166.21	-32.21
USGS-382444121123301	RMW-WL13	12/20/2014	166.05	-32.05
USGS-382444121123301	RMW-WL13	12/27/2014	165.97	-31.97
USGS-382444121123301	RMW-WL13	1/3/2015	165.79	-31.79
USGS-382444121123301	RMW-WL13	1/10/2015	165.3	-31.3
USGS-382444121123301	RMW-WL13	1/17/2015	165.43	-31.43
USGS-382444121123301	RMW-WL13	1/24/2015	165.37	-31.37
USGS-382444121123301	RMW-WL13	1/31/2015	164.94	-30.94
USGS-382444121123301	RMW-WL13	2/7/2015	164.91	-30.91
USGS-382444121123301	RMW-WL13	2/14/2015	164.87	-30.87
USGS-382444121123301	RMW-WL13	2/21/2015	164.66	-30.66
USGS-382444121123301	RMW-WL13	2/28/2015	164.47	-30.47
USGS-382444121123301	RMW-WL13	3/7/2015	164.79	-30.79
USGS-382444121123301	RMW-WL13	3/14/2015	164.84	-30.84
USGS-382444121123301	RMW-WL13	3/21/2015	165.18	-31.18
USGS-382444121123301	RMW-WL13	3/28/2015	165.3	-31.3
USGS-382444121123301	RMW-WL13	4/4/2015	165.48	-31.48
USGS-382444121123301	RMW-WL13	4/11/2015	165.58	-31.58
USGS-382444121123301	RMW-WL13	4/18/2015	165.55	-31.55
USGS-382444121123301	RMW-WL13	4/25/2015	165.92	-31.92
USGS-382444121123301	RMW-WL13	5/2/2015	165.93	-31.93
USGS-382444121123301	RMW-WL13	5/9/2015	166.32	-32.32
USGS-382444121123301	RMW-WL13	5/16/2015	166.32	-32.32
USGS-382444121123301	RMW-WL13	5/23/2015	167.01	-33.01
USGS-382444121123301	RMW-WL13	5/30/2015	167.13	-33.13
USGS-382444121123301	RMW-WL13	6/6/2015	167.17	-33.17
USGS-382444121123301	RMW-WL13	6/13/2015	167.85	-33.85
USGS-382444121123301	RMW-WL13	6/20/2015	168.16	-34.16
USGS-382444121123301	RMW-WL13	6/27/2015	168.62	-34.62
USGS-382444121123301	RMW-WL13	7/4/2015	168.85	-34.85
USGS-382444121123301	RMW-WL13	7/11/2015	168.88	-34.88
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USGS-382444121123301	RMW-WL13	8/1/2015	169.57	-35.57
USGS-382444121123301	RMW-WL13	8/8/2015	169.59	-35.59
USGS-382444121123301	RMW-WL13	8/15/2015	169.87	-35.87
USGS-382444121123301	RMW-WL13	8/22/2015	169.93	-35.93
USGS-382444121123301	RMW-WL13	8/30/2015	169.99	-35.99
USGS-382444121123301	RMW-WL13	9/5/2015	170.13	-36.13
USGS-382444121123301	RMW-WL13	9/12/2015	170.16	-36.16
USGS-382444121123301	RMW-WL13	9/19/2015	170.12	-36.12
USGS-382444121123301	RMW-WL13	9/26/2015	170.11	-36.11
USGS-382444121123301	RMW-WL13	10/3/2015	169.94	-35.94
USGS-382444121123301	RMW-WL13	10/10/2015	170.04	-36.04
USGS-382444121123301	RMW-WL13	10/17/2015	170.04	-36.04
USGS-382444121123301	RMW-WL13	10/24/2015	169.89	-35.89

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USGS-382444121123301	RMW-WL13	11/7/2015	169.53	-35.53
USGS-382444121123301	RMW-WL13	11/14/2015	169.32	-35.32
USGS-382444121123301	RMW-WL13	11/21/2015	169.11	-35.11
USGS-382444121123301	RMW-WL13	11/28/2015	168.74	-34.74
USGS-382444121123301	RMW-WL13	12/5/2015	168.66	-34.66
USGS-382444121123301	RMW-WL13	12/12/2015	168.28	-34.28
USGS-382444121123301	RMW-WL13	12/19/2015	168.22	-34.22
USGS-382444121123301	RMW-WL13	12/27/2015	168.09	-34.09
USGS-382444121123301	RMW-WL13	1/2/2016	167.89	-33.89
USGS-382444121123301	RMW-WL13	1/9/2016	167.88	-33.88
USGS-382444121123301	RMW-WL13	1/16/2016	167.64	-33.64
USGS-382444121123301	RMW-WL13	1/23/2016	167.58	-33.58
USGS-382444121123301	RMW-WL13	1/30/2016	167.18	-33.18
USGS-382444121123301	RMW-WL13	2/6/2016	167.23	-33.23
USGS-382444121123301	RMW-WL13	2/13/2016	167.12	-33.12
USGS-382444121123301	RMW-WL13	2/20/2016	167.15	-33.15
USGS-382444121123301	RMW-WL13	2/27/2016	167	-33
USGS-382444121123301	RMW-WL13	3/5/2016	166.65	-32.65
USGS-382444121123301	RMW-WL13	3/12/2016	166.77	-32.77
USGS-382444121123301	RMW-WL13	3/19/2016	166.64	-32.64
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USGS-382444121123301	RMW-WL13	4/2/2016	166.75	-32.75
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USGS-382444121123301	RMW-WL13	4/16/2016	166.59	-32.59
USGS-382444121123301	RMW-WL13	4/23/2016	166.84	-32.84
USGS-382444121123301	RMW-WL13	4/30/2016	166.99	-32.99
USGS-382444121123301	RMW-WL13	5/7/2016	166.99	-32.99
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USGS-382444121123301	RMW-WL13	6/18/2016	169.95	-35.95
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USGS-382444121123301	RMW-WL13	7/2/2016	170.49	-36.49
USGS-382444121123301	RMW-WL13	7/10/2016	170.92	-36.92
USGS-382444121123301	RMW-WL13	7/18/2016	171.23	-37.23
USGS-382444121123301	RMW-WL13	7/23/2016	171.33	-37.33
USGS-382444121123301	RMW-WL13	7/30/2016	171.44	-37.44
USGS-382444121123301	RMW-WL13	8/6/2016	171.67	-37.67
USGS-382444121123301	RMW-WL13	8/13/2016	172.02	-38.02
USGS-382444121123301	RMW-WL13	8/20/2016	172.1	-38.1
USGS-382444121123301	RMW-WL13	8/27/2016	172.22	-38.22
USGS-382444121123301	RMW-WL13	9/4/2016	171.98	-37.98
USGS-382444121123301	RMW-WL13	9/10/2016	172.15	-38.15
USGS-382444121123301	RMW-WL13	9/17/2016	172.32	-38.32
USGS-382444121123301	RMW-WL13	9/24/2016	172.36	-38.36
USGS-382444121123301	RMW-WL13	10/1/2016	172.29	-38.29
USGS-382444121123301	RMW-WL13	10/8/2016	172.07	-38.07
USGS-382444121123301	RMW-WL13	10/15/2016	171.64	-37.64
USGS-382444121123301	RMW-WL13	10/22/2016	171.14	-37.14
USGS-382444121123301	RMW-WL13	10/29/2016	170.91	-36.91
USGS-382444121123301	RMW-WL13	11/5/2016	170.71	-36.71
USGS-382444121123301	RMW-WL13	11/12/2016	170.59	-36.59
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USGS-382444121123301	RMW-WL13	11/26/2016	170.17	-36.17
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USGS-382444121123301	RMW-WL13	12/17/2016	169.68	-35.68
USGS-382444121123301	RMW-WL13	12/25/2016	169.37	-35.37
USGS-382444121123301	RMW-WL13	12/31/2016	169.08	-35.08
USGS-382444121123301	RMW-WL13	1/7/2017	169.05	-35.05
USGS-382444121123301	RMW-WL13	1/14/2017	169.04	-35.04
USGS-382444121123301	RMW-WL13	1/28/2017	169.12	-35.12
USGS-382444121123301	RMW-WL13	2/4/2017	169.49	-35.49
USGS-382444121123301	RMW-WL13	2/11/2017	168.33	-34.33
USGS-382444121123301	RMW-WL13	2/18/2017	167.47	-33.47
USGS-382444121123301	RMW-WL13	2/25/2017	168.01	-34.01
USGS-382444121123301	RMW-WL13	3/4/2017	167.5	-33.5
USGS-382444121123301	RMW-WL13	3/18/2017	167.29	-33.29
USGS-382444121123301	RMW-WL13	3/25/2017	167.18	-33.18
USGS-382444121123301	RMW-WL13	4/1/2017	166.9	-32.9
USGS-382444121123301	RMW-WL13	4/8/2017	166.75	-32.75
USGS-382444121123301	RMW-WL13	4/15/2017	166.74	-32.74
USGS-382444121123301	RMW-WL13	4/22/2017	166.42	-32.42
USGS-382444121123301	RMW-WL13	4/29/2017	166.32	-32.32
USGS-382444121123301	RMW-WL13	5/6/2017	166.59	-32.59
USGS-382444121123301	RMW-WL13	5/13/2017	166.89	-32.89

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USGS-382444121123301	RMW-WL13	5/27/2017	167.5	-33.5
USGS-382444121123301	RMW-WL13	6/3/2017	167.65	-33.65
USGS-382444121123301	RMW-WL13	6/10/2017	167.88	-33.88
USGS-382444121123301	RMW-WL13	6/17/2017	168.25	-34.25
USGS-382444121123301	RMW-WL13	6/24/2017	168.73	-34.73
USGS-382444121123301	RMW-WL13	7/1/2017	169.08	-35.08
USGS-382444121123301	RMW-WL13	7/8/2017	169.59	-35.59
USGS-382444121123301	RMW-WL13	7/15/2017	169.93	-35.93
USGS-382444121123301	RMW-WL13	7/22/2017	170.14	-36.14
USGS-382444121123301	RMW-WL13	7/29/2017	170.54	-36.54
USGS-382444121123301	RMW-WL13	8/5/2017	170.69	-36.69
USGS-382444121123301	RMW-WL13	8/8/2017	170.77	-36.77
USGS-382444121123301	RMW-WL13	8/12/2017	171.01	-37.01
USGS-382444121123301	RMW-WL13	8/19/2017	170.78	-36.78
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USGS-382444121123301	RMW-WL13	9/2/2017	171.19	-37.19
USGS-382444121123301	RMW-WL13	9/9/2017	171.71	-37.71
USGS-382444121123301	RMW-WL13	9/16/2017	171.21	-37.21
USGS-382444121123301	RMW-WL13	9/23/2017	171.03	-37.03
USGS-382444121123301	RMW-WL13	9/30/2017	170.93	-36.93
USGS-382444121123301	RMW-WL13	10/7/2017	170.92	-36.92
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USGS-382444121123301	RMW-WL13	10/21/2017	170.49	-36.49
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USGS-382444121123301	RMW-WL13	11/18/2017	169.01	-35.01
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USGS-382444121123301	RMW-WL13	12/2/2017	168.21	-34.21
USGS-382444121123301	RMW-WL13	12/9/2017	168.17	-34.17
USGS-382444121123301	RMW-WL13	12/16/2017	167.51	-33.51
USGS-382444121123301	RMW-WL13	12/23/2017	167.7	-33.7
USGS-382444121123301	RMW-WL13	12/30/2017	167.32	-33.32
USGS-382444121123301	RMW-WL13	1/6/2018	167.15	-33.15
USGS-382444121123301	RMW-WL13	1/13/2018	167.04	-33.04
USGS-382444121123301	RMW-WL13	1/20/2018	166.65	-32.65
USGS-382444121123301	RMW-WL13	1/29/2018	166.52	-32.52
USGS-382444121123301	RMW-WL13	2/3/2018	166.24	-32.24
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USGS-382444121123301	RMW-WL13	2/17/2018	166.13	-32.13
USGS-382444121123301	RMW-WL13	2/24/2018	166.26	-32.26
USGS-382444121123301	RMW-WL13	3/3/2018	165.59	-31.59
USGS-382444121123301	RMW-WL13	3/11/2018	165.47	-31.47
USGS-382444121123301	RMW-WL13	3/17/2018	165.34	-31.34
USGS-382444121123301	RMW-WL13	3/25/2018	165.24	-31.24
USGS-382444121123301	RMW-WL13	3/31/2018	165.04	-31.04
USGS-382444121123301	RMW-WL13	4/7/2018	164.79	-30.79
USGS-382444121123301	RMW-WL13	4/14/2018	165.03	-31.03
USGS-382444121123301	RMW-WL13	4/21/2018	164.74	-30.74
USGS-382444121123301	RMW-WL13	4/28/2018	164.8	-30.8
USGS-382444121123301	RMW-WL13	5/5/2018	165.19	-31.19
USGS-382444121123301	RMW-WL13	5/12/2018	165.34	-31.34
USGS-382444121123301	RMW-WL13	5/19/2018	164.38	-30.38
USGS-382444121123301	RMW-WL13	5/27/2018	165.69	-31.69
USGS-382444121123301	RMW-WL13	6/2/2018	165.55	-31.55
USGS-382444121123301	RMW-WL13	6/18/2018	167.47	-33.47
USGS-382444121123301	RMW-WL13	6/23/2018	167.2	-33.2
USGS-382444121123301	RMW-WL13	6/30/2018	167.83	-33.83
USGS-382444121123301	RMW-WL13	7/7/2018	168.49	-34.49
USGS-382444121123301	RMW-WL13	7/21/2018	168.78	-34.78
USGS-382444121123301	RMW-WL13	7/28/2018	169.17	-35.17
USGS-382444121123301	RMW-WL13	8/4/2018	169.37	-35.37
USGS-382444121123301	RMW-WL13	8/11/2018	169.63	-35.63
USGS-382444121123301	RMW-WL13	8/19/2018	169.82	-35.82
USGS-382444121123301	RMW-WL13	8/26/2018	169.87	-35.87
USGS-382444121123301	RMW-WL13	9/1/2018	169.86	-35.86
USGS-382444121123301	RMW-WL13	9/9/2018	169.83	-35.83
USGS-382444121123301	RMW-WL13	9/15/2018	170.29	-36.29
USGS-382444121123301	RMW-WL13	9/22/2018	170.18	-36.18
USGS-382444121123301	RMW-WL13	9/28/2018	169.62	-35.62
USGS-382444121123301	RMW-WL13	10/6/2018	169.23	-35.23
USGS-382444121123301	RMW-WL13	10/13/2018	169.19	-35.19
USGS-382444121123301	RMW-WL13	10/20/2018	169.38	-35.38
USGS-382444121123301	RMW-WL13	10/27/2018	169.46	-35.46
USGS-382444121123301	RMW-WL13	11/3/2018	169.22	-35.22
USGS-382444121123301	RMW-WL13	11/10/2018	168.91	-34.91
USGS-382444121123301	RMW-WL13	11/24/2018	167.97	-33.97
USGS-382444121123301	RMW-WL13	12/2/2018	167.89	-33.89

USGS-382444121123301	RMW-WL13	12/8/2018	167.81	-33.81
USGS-382444121123301	RMW-WL13	12/22/2018	158.13	-24.13
USGS-382444121123301	RMW-WL13	12/29/2018	158.14	-24.14
USGS-382444121123301	RMW-WL13	1/5/2019	157.4	-23.4
USGS-382444121123301	RMW-WL13	1/12/2019	157.43	-23.43
USGS-382444121123301	RMW-WL13	1/19/2019	157.69	-23.69
USGS-382444121123301	RMW-WL13	2/9/2019	156.77	-22.77
USGS-382444121123301	RMW-WL13	2/16/2019	156.73	-22.73
USGS-382444121123301	RMW-WL13	2/23/2019	156.69	-22.69
USGS-382444121123301	RMW-WL13	3/4/2019	156.25	-22.25
USGS-382444121123301	RMW-WL13	3/9/2019	156.03	-22.03
USGS-382444121123301	RMW-WL13	3/16/2019	156.05	-22.05
USGS-382444121123301	RMW-WL13	3/30/2019	155.73	-21.73
USGS-382444121123301	RMW-WL13	4/6/2019	155.38	-21.38
USGS-382444121123301	RMW-WL13	4/13/2019	155.15	-21.15
USGS-382444121123301	RMW-WL13	4/28/2019	155.44	-21.44
USGS-382444121123301	RMW-WL13	5/4/2019	155.89	-21.89
USGS-382444121123301	RMW-WL13	6/15/2019	157.1	-23.1
USGS-382444121123301	RMW-WL13	6/29/2019	157.69	-23.69
USGS-382444121123301	RMW-WL13	7/6/2019	158.01	-24.01
USGS-382444121123301	RMW-WL13	7/13/2019	158.36	-24.36
USGS-382444121123301	RMW-WL13	7/20/2019	158.85	-24.85
USGS-382444121123301	RMW-WL13	8/3/2019	159.44	-25.44
USGS-382444121123301	RMW-WL13	8/10/2019	159.69	-25.69
USGS-382444121123301	RMW-WL13	8/17/2019	159.8	-25.8
USGS-382444121123301	RMW-WL13	8/24/2019	160.2	-26.2
USGS-382444121123301	RMW-WL13	8/31/2019	160.29	-26.29
USGS-382444121123301	RMW-WL13	9/14/2019	160.3	-26.3
USGS-382444121123301	RMW-WL13	9/21/2019	160.06	-26.06
USGS-382444121123301	RMW-WL13	10/5/2019	160.05	-26.05
USGS-382444121123301	RMW-WL13	10/12/2019	159.84	-25.84
USGS-382444121123301	RMW-WL13	10/19/2019	159.87	-25.87
USGS-382444121123301	RMW-WL13	10/26/2019	159.52	-25.52
USGS-382444121123301	RMW-WL13	11/2/2019	159.59	-25.59
USGS-382444121123301	RMW-WL13	11/9/2019	159.22	-25.22
USGS-382444121123301	RMW-WL13	12/13/2019	155.89	-21.89
USGS-382444121123301	RMW-WL13	1/10/2020	156.88	-22.88
USGS-382444121123301	RMW-WL13	2/7/2020	155.88	-21.88
USGS-382444121123301	RMW-WL13	3/6/2020	156.22	-22.22
USGS-382444121123301	RMW-WL13	3/13/2020	155.54	-21.54
USGS-382444121123301	RMW-WL13	3/20/2020	155.78	-21.78
USGS-382444121123301	RMW-WL13	4/17/2020	155.06	-21.06
USGS-382444121123301	RMW-WL13	6/12/2020	159.2	-25.2
USGS-382444121123301	RMW-WL13	6/19/2020	159.39	-25.39
USGS-382444121123301	RMW-WL13	6/26/2020	158.75	-24.75
USGS-382444121123301	RMW-WL13	7/2/2020	159.2	-25.2
USGS-382444121123301	RMW-WL13	7/10/2020	160.01	-26.01
USGS-382444121123301	RMW-WL13	7/24/2020	160.43	-26.43
USGS-382444121123301	RMW-WL13	7/31/2020	160.82	-26.82
USGS-382444121123301	RMW-WL13	8/7/2020	161.05	-27.05
USGS-382444121123301	RMW-WL13	9/25/2020	161.9	-27.9
USGS-382444121123301	RMW-WL13	10/2/2020	161.87	-27.87
USGS-382444121123301	RMW-WL13	10/9/2020	161.75	-27.75
USGS-382444121123301	RMW-WL13	10/16/2020	161.7	-27.7
USGS-382444121123301	RMW-WL13	10/23/2020	161.65	-27.65
USGS-382444121123301	RMW-WL13	10/30/2020	161.65	-27.65
USGS-382444121123301	RMW-WL13	11/6/2020	161.25	-27.25
USGS-382444121123301	RMW-WL13	11/13/2020	161.11	-27.11
USGS-382444121123301	RMW-WL13	11/20/2020	160.79	-26.79
USGS-382444121123301	RMW-WL13	11/27/2020	160.88	-26.88
USGS-382444121123301	RMW-WL13	12/4/2020	160.31	-26.31
USGS-382444121123301	RMW-WL13	12/11/2020	160.04	-26.04
USGS-382444121123301	RMW-WL13	12/18/2020	159.76	-25.76
USGS-382444121123301	RMW-WL13	12/23/2020	159.61	-25.61
USGS-382444121123301	RMW-WL13	12/31/2020	159.39	-25.39
USGS-382444121123301	RMW-WL13	1/8/2021	159.12	-25.12
USGS-382444121123301	RMW-WL13	1/15/2021	158.98	-24.98
USGS-382444121123301	RMW-WL13	1/22/2021	158.64	-24.64
USGS-382444121123301	RMW-WL13	1/29/2021	158.44	-24.44
USGS-382444121123301	RMW-WL13	2/26/2021	157.98	-23.98
USGS-382444121123301	RMW-WL13	3/5/2021	158.09	-24.09
USGS-382444121123301	RMW-WL13	3/12/2021	157.91	-23.91
USGS-382444121123301	RMW-WL13	3/19/2021	158.08	-24.08
USGS-382444121123301	RMW-WL13	4/9/2021	158.99	-24.99
USGS-382444121123301	RMW-WL13	4/16/2021	159.39	-25.39
USGS-382444121123301	RMW-WL13	4/23/2021	159.77	-25.77
USGS-382444121123301	RMW-WL13	4/30/2021	160.3	-26.3
USGS-382444121123301	RMW-WL13	5/7/2021	160.61	-26.61
USGS-382444121123301	RMW-WL13	5/14/2021	161.25	-27.25

USGS-382444121123301	RMW-WL13	5/28/2021	161.74	-27.74
USGS-382444121123301	RMW-WL13	6/4/2021	162.11	-28.11
USGS-382444121123301	RMW-WL13	6/11/2021	162.51	-28.51
USGS-382444121123301	RMW-WL13	6/21/2021	162.67	-28.67
USGS-382444121123301	RMW-WL13	6/25/2021	163.23	-29.23
USGS-382444121123301	RMW-WL13	7/2/2021	163.5	-29.5
USGS-382444121123301	RMW-WL13	7/9/2021	163.68	-29.68
USGS-382444121123301	RMW-WL13	7/16/2021	163.89	-29.89
USGS-382444121123301	RMW-WL13	7/23/2021	164.37	-30.37
USGS-382444121123301	RMW-WL13	7/30/2021	164.42	-30.42
USGS-382444121123301	RMW-WL13	8/6/2021	164.73	-30.73
USGS-382444121123301	RMW-WL13	8/13/2021	164.97	-30.97
USGS-382444121123301	RMW-WL13	8/20/2021	164.94	-30.94
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USGS-382444121123301	RMW-WL13	9/10/2021	165.42	-31.42
USGS-382444121123301	RMW-WL13	9/17/2021	165.52	-31.52
USGS-382444121123301	RMW-WL13	9/24/2021	165.17	-31.17
USGS-382444121123301	RMW-WL13	10/1/2021	165.44	-31.44
USGS-382444121123301	RMW-WL13	10/8/2021	165.32	-31.32
USGS-382444121123301	RMW-WL13	10/15/2021	165.7	-31.7
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USGS-382444121123301	RMW-WL13	10/29/2021	164.39	-30.39
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USGS-382444121123301	RMW-WL13	11/5/2021	164.92	-30.92
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USGS-382444121123301	RMW-WL13	1/28/2022	162.3	-28.3
USGS-382444121123301	RMW-WL13	2/4/2022	162.29	-28.29
USGS-382444121123301	RMW-WL13	2/11/2022	161.99	-27.99
USGS-382444121123301	RMW-WL13	2/18/2022	162.32	-28.32
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USGS-382444121123301	RMW-WL13	3/18/2022	162.21	-28.21
USGS-382444121123301	RMW-WL13	3/25/2022	162.61	-28.61
USGS-382444121123301	RMW-WL13	4/1/2022	162.35	-28.35
USGS-382444121123301	RMW-WL13	4/8/2022	162.59	-28.59
USGS-382444121123301	RMW-WL13	4/15/2022	162.7	-28.7
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USGS-382444121123301	RMW-WL13	5/13/2022	163.63	-29.63
USGS-382444121123301	RMW-WL13	5/20/2022	163.61	-29.61
USGS-382444121123301	RMW-WL13	5/27/2022	164.48	-30.48
USGS-382444121123301	RMW-WL13	6/3/2022	164.8	-30.8
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USGS-382444121123301	RMW-WL13	6/17/2022	165.52	-31.52
USGS-382444121123301	RMW-WL13	6/24/2022	165.88	-31.88
USGS-382444121123301	RMW-WL13	7/1/2022	166.14	-32.14
USGS-382444121123301	RMW-WL13	7/8/2022	166.5	-32.5
USGS-382444121123301	RMW-WL13	7/15/2022	166.52	-32.52
USGS-382444121123301	RMW-WL13	7/22/2022	167	-33
USGS-382444121123301	RMW-WL13	7/30/2022	167.14	-33.14
USGS-382444121123301	RMW-WL13	8/5/2022	167.29	-33.29
USGS-382444121123301	RMW-WL13	8/12/2022	167.45	-33.45
USGS-382444121123301	RMW-WL13	8/19/2022	167.78	-33.78
USGS-382444121123301	RMW-WL13	8/26/2022	167.81	-33.81
USGS-382444121123301	RMW-WL13	9/2/2022	167.95	-33.95
USGS-382444121123301	RMW-WL13	9/9/2022	168.18	-34.18
USGS-382444121123301	RMW-WL13	9/16/2022	168.35	-34.35
USGS-382444121123301	RMW-WL13	9/23/2022	167.8	-33.8
USGS-382444121123301	RMW-WL13	9/30/2022	168	-34
USGS-382444121123301	RMW-WL13	10/7/2022	168.16	-34.16
USGS-382444121123301	RMW-WL13	10/13/2022	#VALUE!	NM
USGS-382444121123301	RMW-WL13	10/14/2022	168.2	-34.2
USGS-382444121123301	RMW-WL13	10/24/2022	168.29	-34.29

USGS-382444121123301	RMW-WL13	10/28/2022	168.32	-34.32
USGS-382444121123301	RMW-WL13	11/4/2022	167.81	-33.81
USGS-382444121123301	RMW-WL13	11/10/2022	167.47	-33.47
USGS-382444121123301	RMW-WL13	11/15/2022	167.11	-33.11
USGS-382444121123301	RMW-WL13	11/25/2022	166.92	-32.92
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USGS-382444121123301	RMW-WL13	12/16/2022	166.28	-32.28
USGS-382444121123301	RMW-WL13	12/23/2022	166.02	-32.02
USGS-382444121123301	RMW-WL13	12/30/2022	165.61	-31.61
USGS-382444121123301	RMW-WL13	1/6/2023	165.78	-31.78
USGS-382444121123301	RMW-WL13	1/13/2023	165.28	-31.28
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USGS-382444121123301	RMW-WL13	1/27/2023	165.16	-31.16
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USGS-382444121123301	RMW-WL13	2/10/2023	164.67	-30.67
USGS-382444121123301	RMW-WL13	2/17/2023	164.57	-30.57
USGS-382444121123301	RMW-WL13	2/24/2023	164.01	-30.01
USGS-382444121123301	RMW-WL13	3/3/2023	164.28	-30.28
USGS-382444121123301	RMW-WL13	3/10/2023	163.71	-29.71
USGS-382444121123301	RMW-WL13	3/17/2023	163.86	-29.86
USGS-382444121123301	RMW-WL13	3/24/2023	164.01	-30.01
USGS-382444121123301	RMW-WL13	3/30/2023	164.18	-30.18
USGS-382444121123301	RMW-WL13	3/31/2023	163.55	-29.55
USGS-382444121123301	RMW-WL13	4/7/2023	163.23	-29.23
USGS-382444121123301	RMW-WL13	4/14/2023	163.02	-29.02
USGS-382444121123301	RMW-WL13	4/21/2023	163.3	-29.3
USGS-382444121123301	RMW-WL13	4/28/2023	163.33	-29.33
USGS-382444121123301	RMW-WL13	5/5/2023	163.59	-29.59
USGS-382444121123301	RMW-WL13	5/12/2023	163.44	-29.44
USGS-382444121123301	RMW-WL13	5/19/2023	164.03	-30.03
USGS-382444121123301	RMW-WL13	5/30/2023	164.22	-30.22
USGS-382444121123301	RMW-WL13	6/2/2023	164.57	-30.57
USGS-382444121123301	RMW-WL13	6/9/2023	164.91	-30.91
USGS-382444121123301	RMW-WL13	6/16/2023	165.11	-31.11
USGS-382444121123301	RMW-WL13	6/23/2023	165.35	-31.35
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USGS-382444121123301	RMW-WL13	7/14/2023	166.31	-32.31
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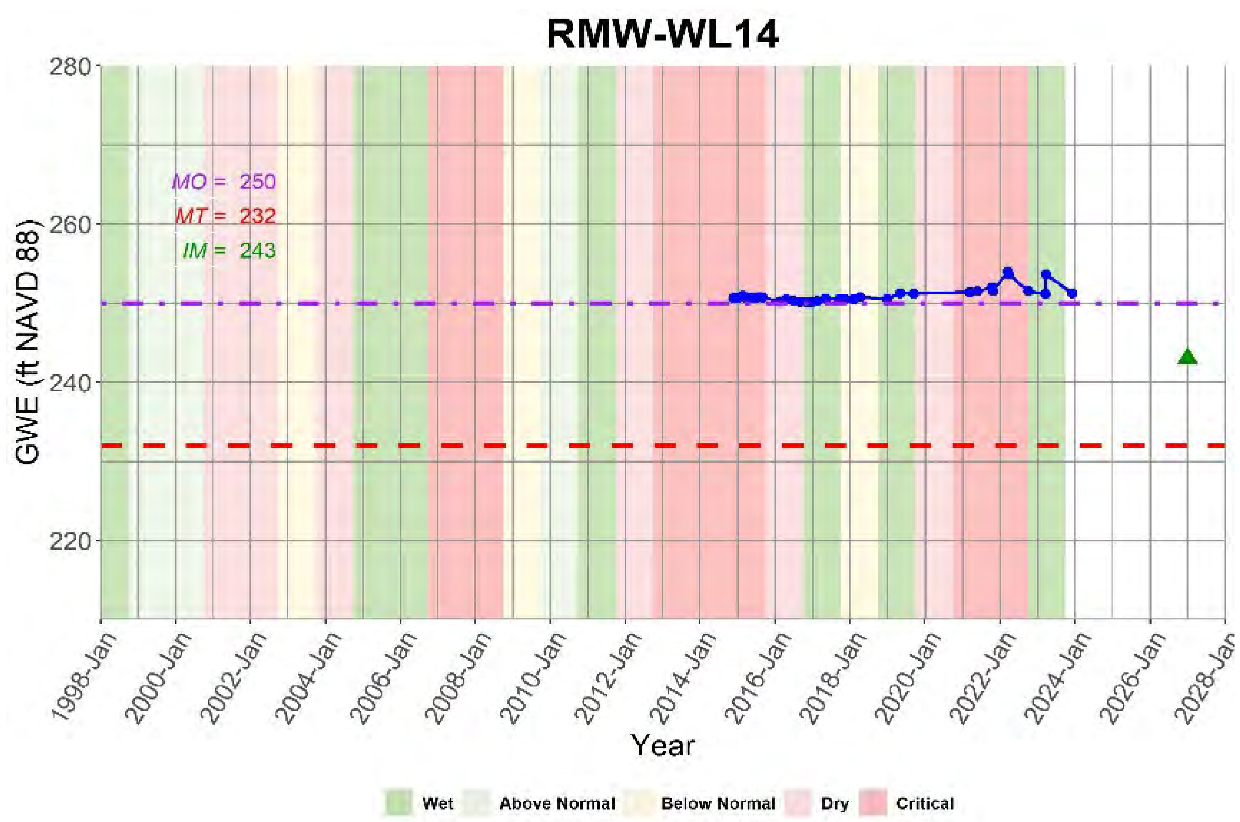
USGS-382444121123301	RMW-WL13	7/28/2023	166.9	-32.9
USGS-382444121123301	RMW-WL13	8/4/2023	167.23	-33.23
USGS-382444121123301	RMW-WL13	8/11/2023	167.55	-33.55
USGS-382444121123301	RMW-WL13	8/18/2023	167.55	-33.55
USGS-382444121123301	RMW-WL13	8/25/2023	167.75	-33.75
USGS-382444121123301	RMW-WL13	9/1/2023	167.6	-33.6
USGS-382444121123301	RMW-WL13	9/8/2023	168.02	-34.02
USGS-382444121123301	RMW-WL13	9/15/2023	167.93	-33.93
USGS-382444121123301	RMW-WL13	9/22/2023	167.95	-33.95
USGS-382444121123301	RMW-WL13	9/29/2023	168.87	-34.87
USGS-382444121123301	RMW-WL13	10/6/2023	167.6	-33.6
USGS-382444121123301	RMW-WL13	10/13/2023	167.2	-33.2
USGS-382444121123301	RMW-WL13	10/20/2023	167.14	-33.14
USGS-382444121123301	RMW-WL13	10/27/2023	166.83	-32.83
USGS-382444121123301	RMW-WL13	11/3/2023	166.57	-32.57
USGS-382444121123301	RMW-WL13	11/10/2023	166.4	-32.4
USGS-382444121123301	RMW-WL13	11/17/2023	165.9	-31.9
USGS-382444121123301	RMW-WL13	11/27/2023	165.63	-31.63
USGS-382444121123301	RMW-WL13	12/1/2023	165.49	-31.49

Site Code: 383549N1210248W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

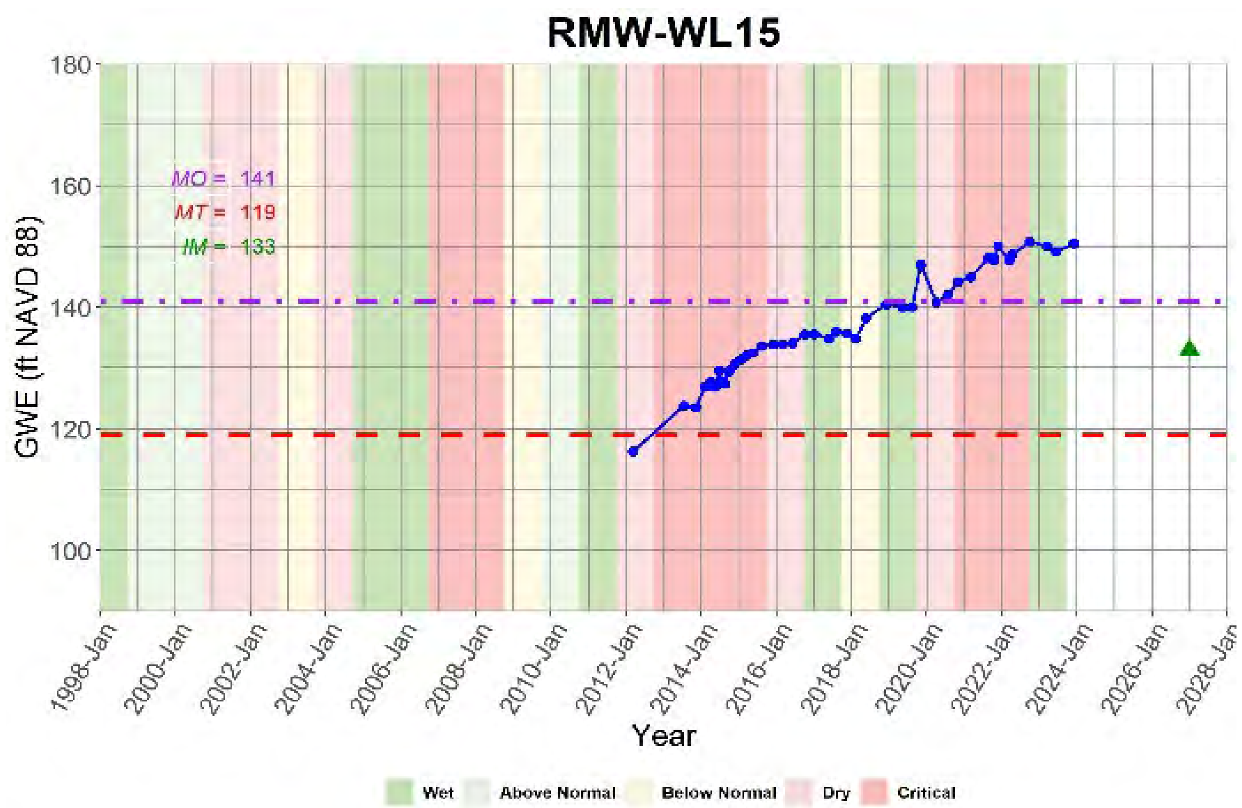
Site Code:	383549N1210248W001
Local Well Name:	AWA ARM-5
Monitoring Network Type:	SGMA Representative
Station ID:	50498
Latitude:	38.3549
Longitude:	-121.025
Well Depth (feet bgs):	184.0
Top Perforation (feet bgs):	84.0
Bottom Perforation (feet bgs):	184.0
Ground Surface Elevation:	363.0
Reference Point Elevation:	366.86
Sustainability Indicators:	Groundwater Levels,Groundwater Storage



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
AWA ARM-5	RMW-WL14	11/19/2014	116.22	250.64
AWA ARM-5	RMW-WL14	12/23/2014	116.25	250.61
AWA ARM-5	RMW-WL14	2/20/2015	115.91	250.95
AWA ARM-5	RMW-WL14	4/1/2015	116.25	250.61
AWA ARM-5	RMW-WL14	5/20/2015	116.16	250.7
AWA ARM-5	RMW-WL14	7/1/2015	116.14	250.72
AWA ARM-5	RMW-WL14	8/7/2015	116.08	250.78
AWA ARM-5	RMW-WL14	8/31/2015	116.12	250.74
AWA ARM-5	RMW-WL14	2/22/2016	116.61	250.25
AWA ARM-5	RMW-WL14	4/15/2016	116.4	250.46
AWA ARM-5	RMW-WL14	6/23/2016	116.51	250.35
AWA ARM-5	RMW-WL14	8/29/2016	116.66	250.2
AWA ARM-5	RMW-WL14	11/3/2016	116.73	250.13
AWA ARM-5	RMW-WL14	12/19/2016	116.74	250.12
AWA ARM-5	RMW-WL14	2/15/2017	116.59	250.27
AWA ARM-5	RMW-WL14	5/5/2017	116.26	250.6
AWA ARM-5	RMW-WL14	9/14/2017	116.32	250.54
AWA ARM-5	RMW-WL14	11/10/2017	116.35	250.51
AWA ARM-5	RMW-WL14	2/2/2018	116.4	250.46
AWA ARM-5	RMW-WL14	4/4/2018	116.09	250.77
AWA ARM-5	RMW-WL14	12/28/2018	116.35	250.51
AWA ARM-5	RMW-WL14	4/30/2019	115.6	251.26
AWA ARM-5	RMW-WL14	9/11/2019	115.625	251.235
AWA ARM-5	RMW-WL14	3/9/2021	115.432	251.428
AWA ARM-5	RMW-WL14	5/20/2021	115.354	251.506
AWA ARM-5	RMW-WL14	10/15/2021	114.86	252
		10/21/2021	115.35	251.51
AWA ARM-5	RMW-WL14	3/15/2022	112.86	254
		3/22/2022	113.2	253.66
AWA ARM-5	RMW-WL14	10/1/2022	115.354	251.506
AWA ARM-5	RMW-WL14	3/17/2023	115.7	251.16
		3/22/2023	113.2	253.66
AWA ARM-5	RMW-WL14	11/30/2023	115.57	251.29

Site Code: 382586N1209949W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382586N1209949W001
Local Well Name:	AWA MW-1D 02
Monitoring Network Type:	SGMA Representative
Station ID:	48615
Latitude:	38.2586
Longitude:	-120.995
Well Depth (feet bgs):	317.0
Top Perforation (feet bgs):	232.0
Bottom Perforation (feet bgs):	307.0
Ground Surface Elevation:	272.0
Reference Point Elevation:	274.71
Sustainability Indicators:	Groundwater Levels,Groundwater Storage

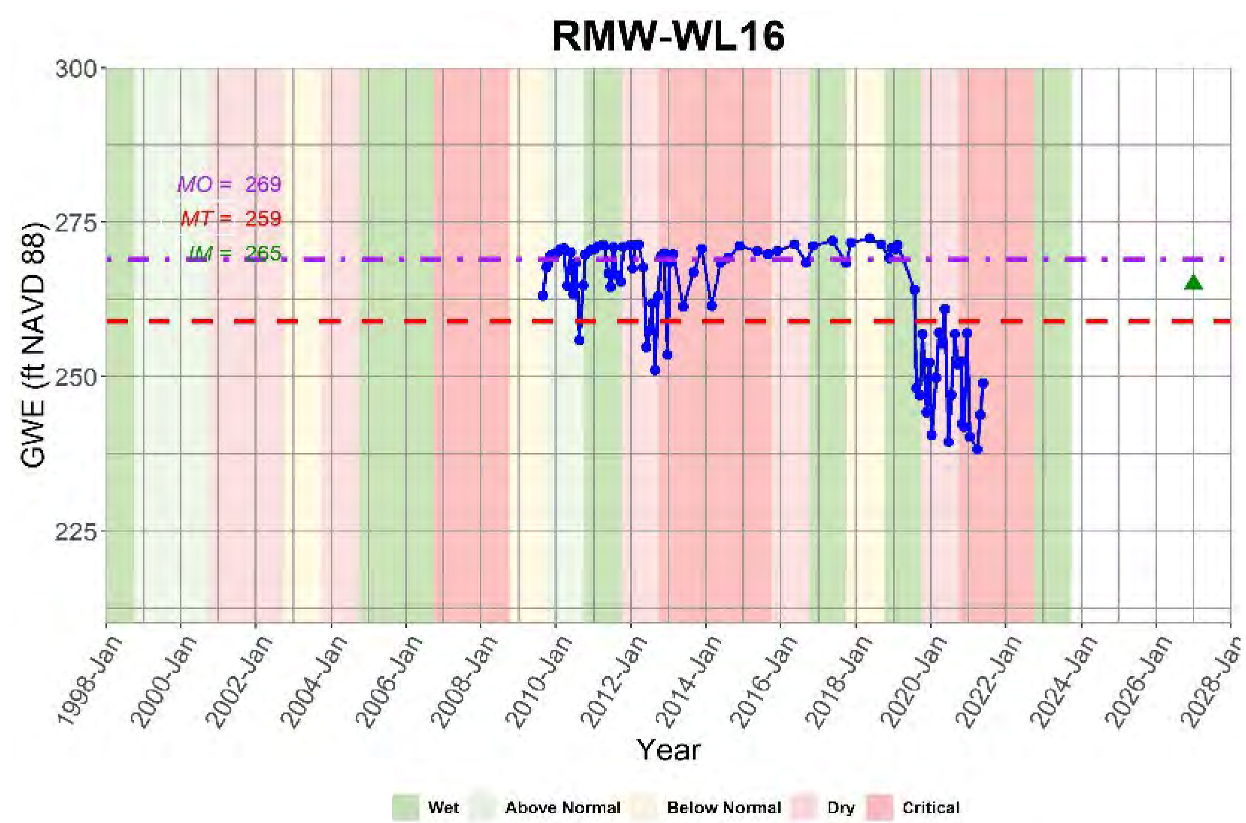


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
AWA MW-1D	RMW-WL15	3/7/2012	116.3	158.41
AWA MW-1D	RMW-WL15	7/17/2013	123.8	150.91
AWA MW-1D	RMW-WL15	11/7/2013	123.5	151.21
AWA MW-1D	RMW-WL15	2/5/2014	126.92	147.79
AWA MW-1D	RMW-WL15	3/17/2014	127.1	147.61
AWA MW-1D	RMW-WL15	4/3/2014	127.75	146.96
AWA MW-1D	RMW-WL15	5/19/2014	126.9	147.81
AWA MW-1D	RMW-WL15	6/25/2014	129.5	145.21
AWA MW-1D	RMW-WL15	7/21/2014	127.75	146.96
AWA MW-1D	RMW-WL15	8/18/2014	127.45	147.26
AWA MW-1D	RMW-WL15	9/24/2014	129.35	145.36
AWA MW-1D	RMW-WL15	10/10/2014	129.7	145.01
AWA MW-1D	RMW-WL15	11/19/2014	130.6	144.11
AWA MW-1D	RMW-WL15	1/23/2015	131.5	143.21
AWA MW-1D	RMW-WL15	3/16/2015	132.1	142.61
AWA MW-1D	RMW-WL15	5/18/2015	132.5	142.21
AWA MW-1D	RMW-WL15	8/13/2015	133.6	141.11
AWA MW-1D	RMW-WL15	12/2/2015	133.9	140.81
AWA MW-1D	RMW-WL15	3/2/2016	134	140.71
AWA MW-1D	RMW-WL15	6/7/2016	134.1	140.61
AWA MW-1D	RMW-WL15	10/3/2016	135.5	139.21
AWA MW-1D	RMW-WL15	1/4/2017	135.6	139.11
AWA MW-1D	RMW-WL15	5/25/2017	134.8	139.91
AWA MW-1D	RMW-WL15	8/3/2017	135.9	138.81
AWA MW-1D	RMW-WL15	11/13/2017	135.7	139.01
AWA MW-1D	RMW-WL15	2/12/2018	134.8	139.91
AWA MW-1D	RMW-WL15	5/21/2018	138.2	136.51
AWA MW-1D	RMW-WL15	12/3/2018	140.5	134.21
AWA MW-1D	RMW-WL15	5/13/2019	140	134.71
AWA MW-1D	RMW-WL15	8/13/2019	140	134.71
AWA MW-1D	RMW-WL15	11/4/2019	147	127.71
AWA MW-1D	RMW-WL15	4/6/2020	140.8	133.91
AWA MW-1D	RMW-WL15	7/27/2020	142.1	132.61
AWA MW-1D	RMW-WL15	11/3/2020	144.2	130.51
AWA MW-1D	RMW-WL15	3/5/2021	144.9	129.81
AWA MW-1D	RMW-WL15	8/27/2021	148.2	126.51
AWA MW-1D	RMW-WL15	10/15/2021	147.71	127
		10/21/2021	148.2	
AWA MW-1D	RMW-WL15	11/29/2021	150.01	124.7

AWA MW-1D	RMW-WL15	3/15/2022	147.71	127
		3/22/2022	148	
AWA MW-1D	RMW-WL15	4/13/2022	148.71	126
AWA MW-1D	RMW-WL15	10/1/2022	150.8	123.91
AWA MW-1D	RMW-WL15	3/17/2023	150	124.71
		6/14/2023	149.11	125.6
AWA MW-1D	RMW-WL15	11/30/2023	150.5	124.21

Site Code: 382768N1209094W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382768N1209094W001
Local Well Name:	BVR_MW-01
Monitoring Network Type:	SGMA Representative
Station ID:	57669
Latitude:	38.2768
Longitude:	-120.909
Well Depth (feet bgs):	200.0
Top Perforation (feet bgs):	160.0
Bottom Perforation (feet bgs):	190.0
Ground Surface Elevation:	318.0
Reference Point Elevation:	318.21
Sustainability Indicators:	Groundwater Levels,Groundwater Storage

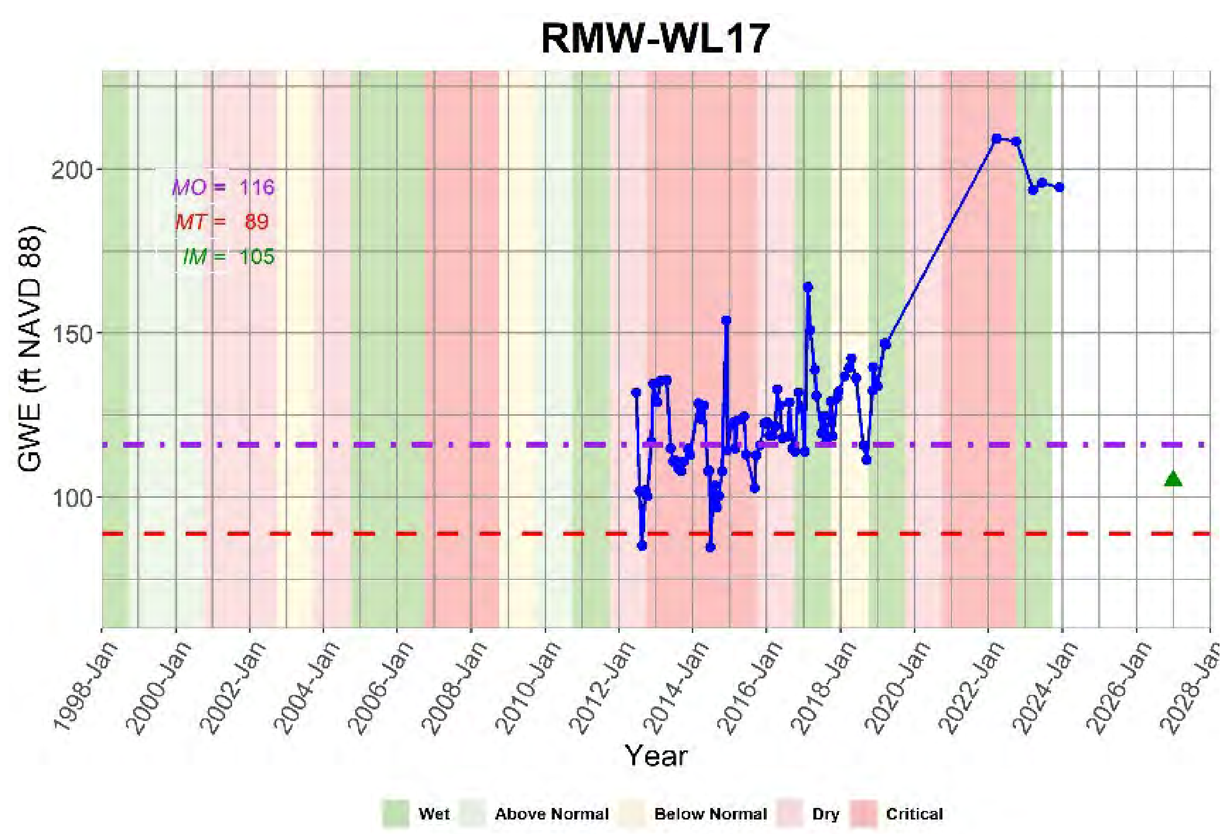


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
BVR_MW-01	RMW-WL16	8/26/2009	55.11	263.1
BVR_MW-01	RMW-WL16	9/29/2009	50.47	267.74
BVR_MW-01	RMW-WL16	10/16/2009	49.89	268.32
BVR_MW-01	RMW-WL16	11/10/2009	48.54	269.67
BVR_MW-01	RMW-WL16	12/23/2009	48.2	270.01
BVR_MW-01	RMW-WL16	1/18/2010	48.05	270.16
BVR_MW-01	RMW-WL16	2/10/2010	47.52	270.69
BVR_MW-01	RMW-WL16	3/18/2010	47.35	270.86
BVR_MW-01	RMW-WL16	4/19/2010	53.5	264.71
BVR_MW-01	RMW-WL16	5/25/2010	48.03	270.18
BVR_MW-01	RMW-WL16	6/16/2010	54.8	263.41
BVR_MW-01	RMW-WL16	7/16/2010	49.73	268.48
BVR_MW-01	RMW-WL16	8/17/2010	62.3	255.91
BVR_MW-01	RMW-WL16	9/21/2010	53.44	264.77
BVR_MW-01	RMW-WL16	10/12/2010	48.41	269.8
BVR_MW-01	RMW-WL16	11/23/2010	47.78	270.43
BVR_MW-01	RMW-WL16	12/15/2010	47.57	270.64
BVR_MW-01	RMW-WL16	1/12/2011	47.55	270.66
BVR_MW-01	RMW-WL16	2/16/2011	47.05	271.16
BVR_MW-01	RMW-WL16	3/17/2011	46.94	271.27
BVR_MW-01	RMW-WL16	4/14/2011	46.97	271.24
BVR_MW-01	RMW-WL16	5/23/2011	51.52	266.69
BVR_MW-01	RMW-WL16	6/15/2011	53.65	264.56
BVR_MW-01	RMW-WL16	7/14/2011	47.25	270.96
BVR_MW-01	RMW-WL16	8/11/2011	51.78	266.43
BVR_MW-01	RMW-WL16	9/22/2011	52.86	265.35
BVR_MW-01	RMW-WL16	10/12/2011	47.2	271.01
BVR_MW-01	RMW-WL16	12/14/2011	46.97	271.24
BVR_MW-01	RMW-WL16	1/18/2012	50.7	267.51
BVR_MW-01	RMW-WL16	2/15/2012	46.81	271.4
BVR_MW-01	RMW-WL16	3/15/2012	46.75	271.46
BVR_MW-01	RMW-WL16	4/30/2012	50.5	267.71
BVR_MW-01	RMW-WL16	5/30/2012	63.37	254.84
BVR_MW-01	RMW-WL16	6/26/2012	60.75	257.46
BVR_MW-01	RMW-WL16	7/27/2012	56.35	261.86
BVR_MW-01	RMW-WL16	8/21/2012	67.15	251.06
BVR_MW-01	RMW-WL16	9/19/2012	55.17	263.04
BVR_MW-01	RMW-WL16	10/23/2012	48.69	269.52
BVR_MW-01	RMW-WL16	11/19/2012	48.15	270.06

BVR_MW-01	RMW-WL16	12/19/2012	64.65	253.56
BVR_MW-01	RMW-WL16	1/9/2013	49.7	268.51
BVR_MW-01	RMW-WL16	2/13/2013	48.4	269.81
BVR_MW-01	RMW-WL16	5/23/2013	56.85	261.36
BVR_MW-01	RMW-WL16	8/27/2013	51.3	266.91
BVR_MW-01	RMW-WL16	11/15/2013	47.5	270.71
BVR_MW-01	RMW-WL16	2/19/2014	56.73	261.48
BVR_MW-01	RMW-WL16	5/21/2014	49.76	268.45
BVR_MW-01	RMW-WL16	8/8/2014	48.95	269.26
BVR_MW-01	RMW-WL16	11/21/2014	47	271.21
BVR_MW-01	RMW-WL16	5/14/2015	47.84	270.37
BVR_MW-01	RMW-WL16	8/24/2015	48.4	269.81
BVR_MW-01	RMW-WL16	11/24/2015	47.77	270.44
BVR_MW-01	RMW-WL16	5/10/2016	46.75	271.46
BVR_MW-01	RMW-WL16	8/29/2016	49.72	268.49
BVR_MW-01	RMW-WL16	11/7/2016	47	271.21
BVR_MW-01	RMW-WL16	5/17/2017	46.22	271.99
BVR_MW-01	RMW-WL16	9/25/2017	49.75	268.46
BVR_MW-01	RMW-WL16	11/13/2017	46.53	271.68
BVR_MW-01	RMW-WL16	5/10/2018	45.8	272.41
BVR_MW-01	RMW-WL16	8/29/2018	46.75	271.46
BVR_MW-01	RMW-WL16	11/19/2018	49	269.21
BVR_MW-01	RMW-WL16	12/12/2018	47.36	270.85
BVR_MW-01	RMW-WL16	1/17/2019	47.6	270.61
BVR_MW-01	RMW-WL16	2/6/2019	46.89	271.32
BVR_MW-01	RMW-WL16	7/25/2019	54.14	264.07
BVR_MW-01	RMW-WL16	8/14/2019	70.1	248.11
BVR_MW-01	RMW-WL16	9/12/2019	71.2	247.01
BVR_MW-01	RMW-WL16	10/10/2019	61.35	256.86
BVR_MW-01	RMW-WL16	11/20/2019	74.03	244.18
BVR_MW-01	RMW-WL16	12/17/2019	65.93	252.28
BVR_MW-01	RMW-WL16	1/8/2020	77.72	240.49
BVR_MW-01	RMW-WL16	2/19/2020	68.4	249.81
BVR_MW-01	RMW-WL16	3/18/2020	61.09	257.12
BVR_MW-01	RMW-WL16	4/15/2020	62.9	255.31
BVR_MW-01	RMW-WL16	5/13/2020	57.25	260.96
BVR_MW-01	RMW-WL16	6/18/2020	78.77	239.44
BVR_MW-01	RMW-WL16	7/16/2020	71.2	247.01
BVR_MW-01	RMW-WL16	8/18/2020	61.3	256.91
BVR_MW-01	RMW-WL16	9/17/2020	66.22	251.99
BVR_MW-01	RMW-WL16	10/21/2020	65.75	252.46
BVR_MW-01	RMW-WL16	10/26/2020	75.86	242.35
BVR_MW-01	RMW-WL16	11/18/2020	76.38	241.83
BVR_MW-01	RMW-WL16	12/15/2020	61.13	257.08
BVR_MW-01	RMW-WL16	1/14/2021	77.94	240.27
BVR_MW-01	RMW-WL16	3/26/2021	79.98	238.23
BVR_MW-01	RMW-WL16	4/21/2021	74.36	243.85
BVR_MW-01	RMW-WL16	5/20/2021	69.28	248.93
BVR_MW-01	RMW-WL16	10/13/2022	#VALUE!	NM
BVR_MW-01	RMW-WL16	3/30/2023	#VALUE!	NM
BVR_MW-01	RMW-WL16	11/30/2023		NM

Site Code: 382361N1209507W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

Site Code:	382361N1209507W001
Local Well Name:	Camanche NorthShore_Well 2
Monitoring Network Type:	SGMA Representative
Station ID:	57670
Latitude:	38.2362
Longitude:	-120.951
Well Depth (feet bgs):	366.0
Top Perforation (feet bgs):	150.0
Bottom Perforation (feet bgs):	350.0
Ground Surface Elevation:	232.9
Reference Point Elevation:	232.94
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality

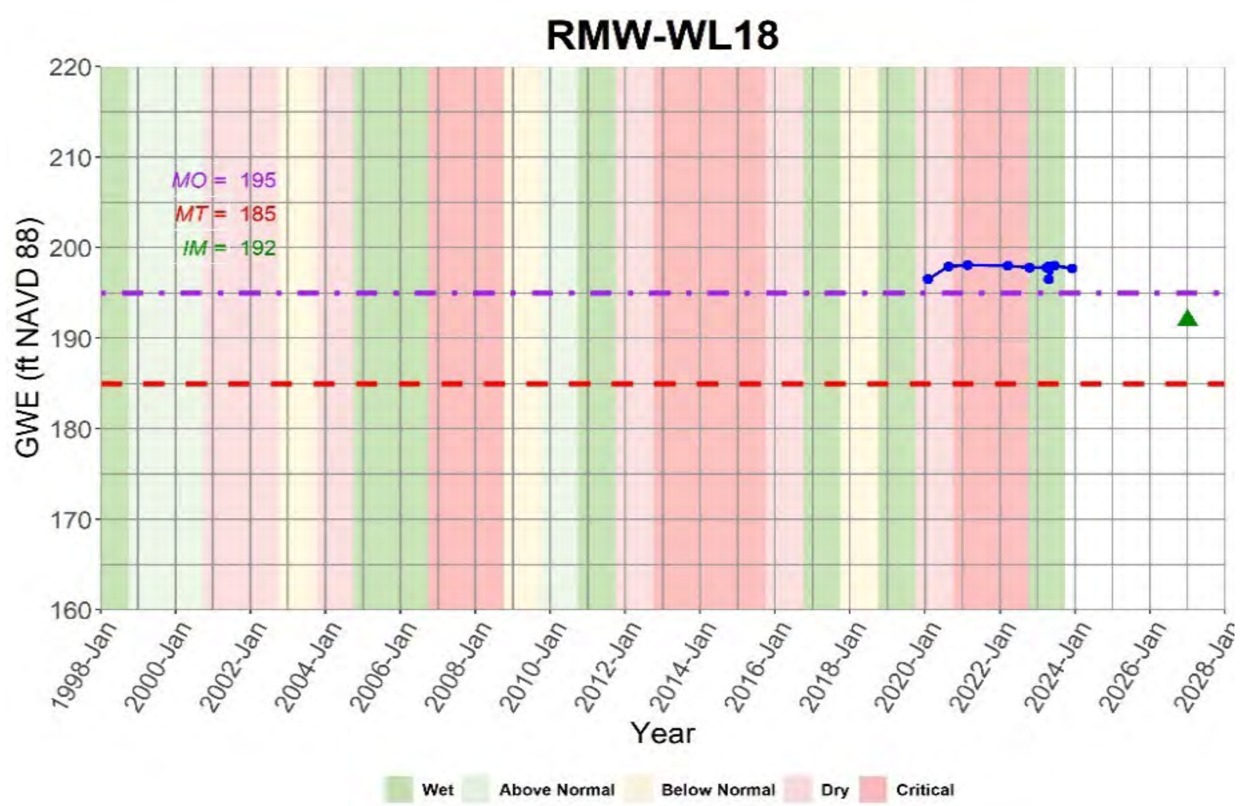


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
Camanche North Shore_Well 2	RMW-WL17	6/21/2012	101	131.94
Camanche North Shore_Well 2	RMW-WL17	7/23/2012	131	101.94
Camanche North Shore_Well 2	RMW-WL17	8/16/2012	147.6	85.34
Camanche North Shore_Well 2	RMW-WL17	9/17/2012	130.7	102.24
Camanche North Shore_Well 2	RMW-WL17	10/4/2012	132.6	100.34
Camanche North Shore_Well 2	RMW-WL17	11/13/2012	115.8	117.14
Camanche North Shore_Well 2	RMW-WL17	12/6/2012	98.3	134.64
Camanche North Shore_Well 2	RMW-WL17	1/8/2013	104	128.94
Camanche North Shore_Well 2	RMW-WL17	2/14/2013	97.5	135.44
Camanche North Shore_Well 2	RMW-WL17	4/16/2013	97.2	135.74
Camanche North Shore_Well 2	RMW-WL17	5/24/2013	118	114.94
Camanche North Shore_Well 2	RMW-WL17	6/20/2013	122	110.94
Camanche North Shore_Well 2	RMW-WL17	7/11/2013	121.62	111.32
Camanche North Shore_Well 2	RMW-WL17	8/7/2013	124	108.94
Camanche North Shore_Well 2	RMW-WL17	9/5/2013	125	107.94
Camanche North Shore_Well 2	RMW-WL17	10/3/2013	122	110.94
Camanche North Shore_Well 2	RMW-WL17	11/12/2013	118.1	114.84
Camanche North Shore_Well 2	RMW-WL17	12/4/2013	120	112.94
Camanche North Shore_Well 2	RMW-WL17	2/23/2014	104.3	128.64
Camanche North Shore_Well 2	RMW-WL17	3/26/2014	109	123.94
Camanche North Shore_Well 2	RMW-WL17	4/23/2014	105	127.94
Camanche North Shore_Well 2	RMW-WL17	5/27/2014	125	107.94
Camanche North Shore_Well 2	RMW-WL17	6/12/2014	124.9	108.04
Camanche North Shore_Well 2	RMW-WL17	6/26/2014	148	84.94
Camanche North Shore_Well 2	RMW-WL17	7/23/2014	132	100.94
Camanche North Shore_Well 2	RMW-WL17	8/8/2014	129.2	103.74
Camanche North Shore_Well 2	RMW-WL17	8/27/2014	136	96.94
Camanche North Shore_Well 2	RMW-WL17	9/17/2014	132.5	100.44
Camanche North Shore_Well 2	RMW-WL17	10/15/2014	125	107.94
Camanche North Shore_Well 2	RMW-WL17	11/26/2014	79	153.94
Camanche North Shore_Well 2	RMW-WL17	12/8/2014	118.6	114.34
Camanche North Shore_Well 2	RMW-WL17	1/15/2015	111	121.94
Camanche North Shore_Well 2	RMW-WL17	2/19/2015	109.9	123.04
Camanche North Shore_Well 2	RMW-WL17	2/23/2015	118	114.94
Camanche North Shore_Well 2	RMW-WL17	3/19/2015	109.4	123.54
Camanche North Shore_Well 2	RMW-WL17	4/28/2015	109	123.94
Camanche North Shore_Well 2	RMW-WL17	5/20/2015	108.3	124.64
Camanche North Shore_Well 2	RMW-WL17	6/10/2015	119.9	113.04
Camanche North Shore_Well 2	RMW-WL17	9/3/2015	130	102.94
Camanche North Shore_Well 2	RMW-WL17	9/17/2015	120	112.94
Camanche North Shore_Well 2	RMW-WL17	10/28/2015	117	115.94
Camanche North Shore_Well 2	RMW-WL17	12/8/2015	110.5	122.44
Camanche North Shore_Well 2	RMW-WL17	1/2/2016	110	122.94
Camanche North Shore_Well 2	RMW-WL17	1/28/2016	114	118.94
Camanche North Shore_Well 2	RMW-WL17	2/26/2016	114.1	118.84
Camanche North Shore_Well 2	RMW-WL17	3/23/2016	111.3	121.64
Camanche North Shore_Well 2	RMW-WL17	4/12/2016	100	132.94
Camanche North Shore_Well 2	RMW-WL17	5/5/2016	105	127.94
Camanche North Shore_Well 2	RMW-WL17	6/4/2016	115	117.94
Camanche North Shore_Well 2	RMW-WL17	7/25/2016	114.3	118.64
Camanche North Shore_Well 2	RMW-WL17	8/10/2016	104	128.94
Camanche North Shore_Well 2	RMW-WL17	9/12/2016	118	114.94
Camanche North Shore_Well 2	RMW-WL17	10/6/2016	119	113.94

Camanche North Shore_Well 2	RMW-WL17	11/7/2016	101	131.94
Camanche North Shore_Well 2	RMW-WL17	12/8/2016	105.7	127.24
Camanche North Shore_Well 2	RMW-WL17	1/10/2017	119	113.94
Camanche North Shore_Well 2	RMW-WL17	2/11/2017	69	163.94
Camanche North Shore_Well 2	RMW-WL17	3/7/2017	82	150.94
Camanche North Shore_Well 2	RMW-WL17	4/17/2017	94.1	138.84
Camanche North Shore_Well 2	RMW-WL17	5/6/2017	101.9	131.04
Camanche North Shore_Well 2	RMW-WL17	6/27/2017	113.4	119.54
Camanche North Shore_Well 2	RMW-WL17	7/25/2017	108.1	124.84
Camanche North Shore_Well 2	RMW-WL17	8/14/2017	115.8	117.14
Camanche North Shore_Well 2	RMW-WL17	9/26/2017	103.7	129.24
Camanche North Shore_Well 2	RMW-WL17	10/13/2017	114.2	118.74
Camanche North Shore_Well 2	RMW-WL17	11/27/2017	102.55	130.39
Camanche North Shore_Well 2	RMW-WL17	12/11/2017	100.6	132.34
Camanche North Shore_Well 2	RMW-WL17	2/7/2018	96	136.94
Camanche North Shore_Well 2	RMW-WL17	3/21/2018	93.6	139.34
Camanche North Shore_Well 2	RMW-WL17	4/17/2018	90.6	142.34
Camanche North Shore_Well 2	RMW-WL17	5/30/2018	96.6	136.34
Camanche North Shore_Well 2	RMW-WL17	8/9/2018	117	115.94
Camanche North Shore_Well 2	RMW-WL17	9/16/2018	121.5	111.44
Camanche North Shore_Well 2	RMW-WL17	11/10/2018	100.5	132.44
Camanche North Shore_Well 2	RMW-WL17	11/13/2018	93.2	139.74
Camanche North Shore_Well 2	RMW-WL17	12/28/2018	99	133.94
Camanche North Shore_Well 2	RMW-WL17	3/11/2019	86	146.94
Camanche North Shore_Well 2	RMW-WL17	3/21/2019	86.5	146.44
Camanche North Shore_Well 2	RMW-WL17	3/15/2022	23.94	209
		10/1/2022	24.5	208.44
Camanche North Shore_Well 2	RMW-WL17a	10/13/2022	#VALUE!	NM
		3/22/2022	23.6	209.34
Camanche North Shore_Well 2	RMW-WL17a	3/17/2023	39.4	193.54
		6/14/2023	37.11	195.83
Camanche North Shore_Well 2	RMW-WL17a	11/30/2023	38.5	194.44

Site Code: 383969N1210078W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

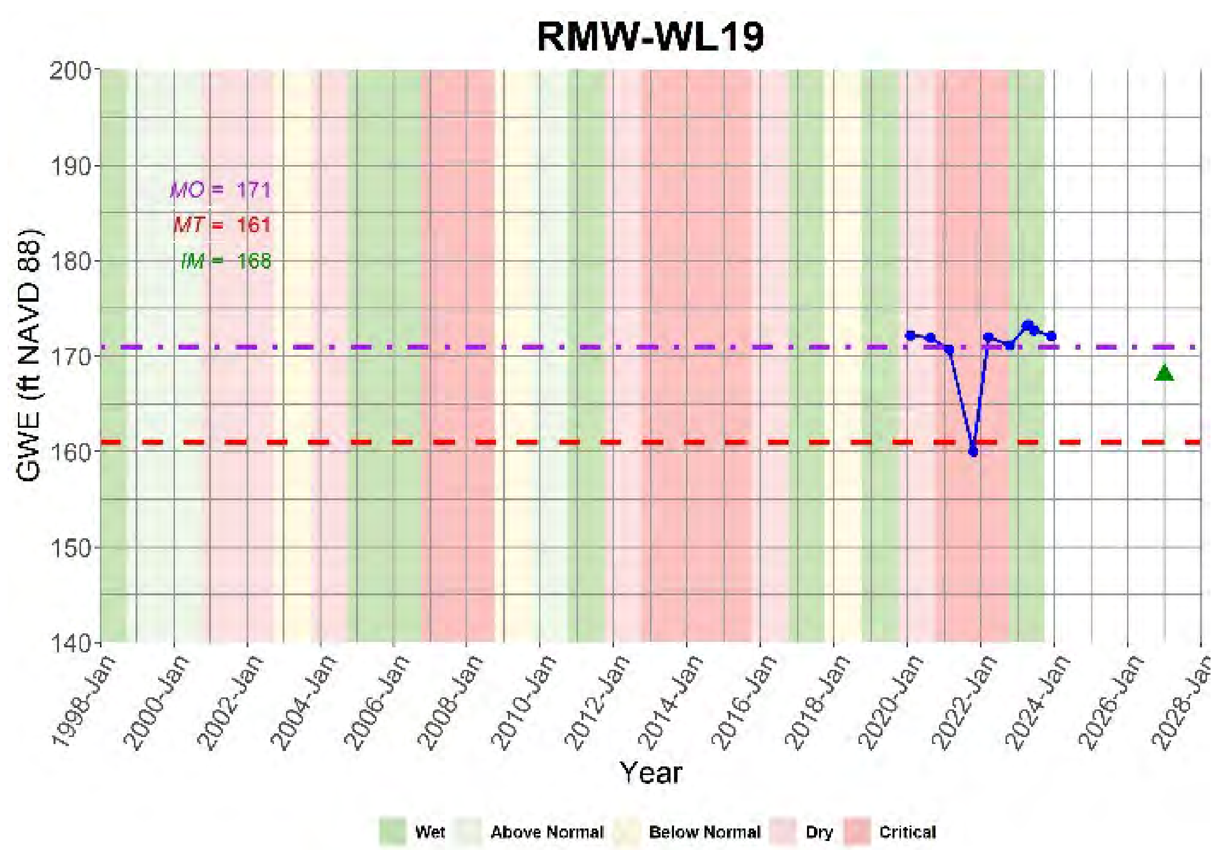
Site Code:	383969N1210078W001
Local Well Name:	ACGMA Carbondale
Monitoring Network Type:	SGMA Representative
Station ID:	57671
Latitude:	38.3969
Longitude:	-121.008
Well Depth (feet bgs):	215.0
Top Perforation (feet bgs):	
Bottom Perforation (feet bgs):	
Ground Surface Elevation:	222.2
Reference Point Elevation:	222.2
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
ACGMA Carbondale	RMW-WL18	1/27/2020	25.69	196.51
ACGMA Carbondale	RMW-WL18	8/13/2020	24.27	197.93
ACGMA Carbondale	RMW-WL18	2/17/2021	24.1	198.1
ACGMA Carbondale	RMW-WL18	3/15/2022	24.2	198
ACGMA Carbondale	RMW-WL18	10/13/2022	24.4	197.8
ACGMA Carbondale	RMW-WL18	3/30/2023	24.4	197.8
ACGMA Carbondale	RMW-WL18	4/14/2023	24.25	197.95
ACGMA Carbondale	RMW-WL18	4/17/2023	25.67	196.53
ACGMA Carbondale	RMW-WL18	6/14/2023	24.2	198
ACGMA Carbondale	RMW-WL18	11/30/2023	24.5	197.7

Site Code: 383037N1209872W001 - Sloughhouse Resource Conservation District GSA - Cosumnes

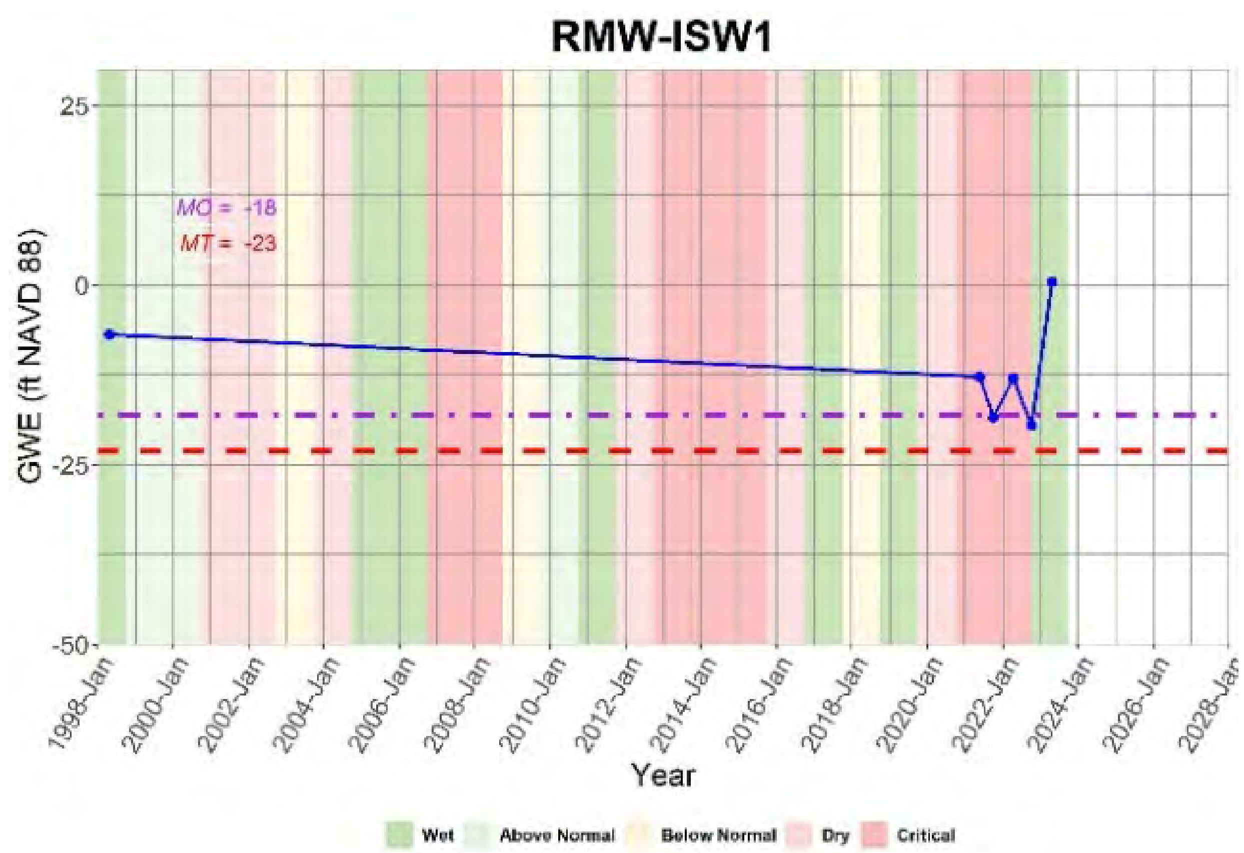
Site Code:	383037N1209872W001
Local Well Name:	ACGMA Bamert Rd MW D
Monitoring Network Type:	SGMA Representative
Station ID:	57672
Latitude:	38.3038
Longitude:	-120.987
Well Depth (feet bgs):	163.0
Top Perforation (feet bgs):	148.0
Bottom Perforation (feet bgs):	153.0
Ground Surface Elevation:	184.2
Reference Point Elevation:	184.2
Sustainability Indicators:	Groundwater Levels,Groundwater Storage,Water Quality



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
ACGMA Bamert Rd MW D	RMW-WL19	1/27/2020	12.03	172.17
ACGMA Bamert Rd MW D	RMW-WL19	8/13/2020	12.28	171.92
ACGMA Bamert Rd MW D	RMW-WL19	2/17/2021	13.5	170.7
ACGMA Bamert Rd MW D	RMW-WL19	10/15/2021	24.2	160
ACGMA Bamert Rd MW D	RMW-WL19	3/15/2022	12.2	172
ACGMA Bamert Rd MW D	RMW-WL19	10/13/2022	13.1	171.1
ACGMA Bamert Rd MW D	RMW-WL19	3/30/2023	11.1	173.1
ACGMA Bamert Rd MW D	RMW-WL19	4/14/2023	10.95	173.25
ACGMA Bamert Rd MW D	RMW-WL19	4/17/2023	10.92	173.28
ACGMA Bamert Rd MW D	RMW-WL19	6/14/2023	11.5	172.7
ACGMA Bamert Rd MW D	RMW-WL19	11/30/2023	12.1	172.1

Site Code: 382402N1213700W001 **State Well Number:** 05N06E31E003M **Local Well Name:** 05N06E31E003M

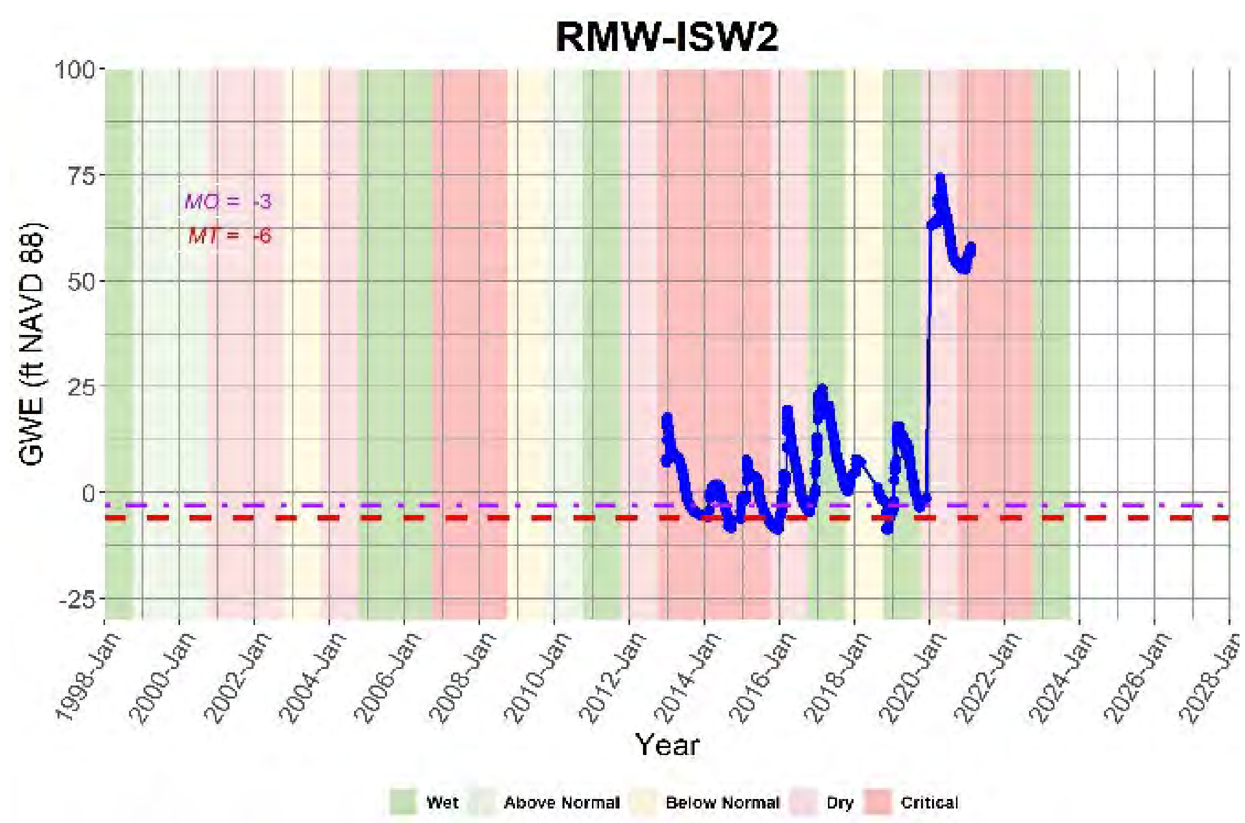
Site Code: 382402N1213700W001
Local Well Name: 05N06E31E003M
State Well Number: 05N06E31E003M
Station ID: 4830
WCR Number:
Latitude: 38.24020
Longitude: -121.37000
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Unknown
Well Completion Type: Single Well
Well Depth (feet bgs): 105
Top Perforation (feet bgs):
Bottom Perforation (feet bgs):
Ground Surface Elevation: 22.26
Reference Point Elevation: 24.76
Reference Point Description: None Provided
Station Comments: Network ID: RMW-ISW1 - Included in CASGEM Migration, Not intended for GWL SI



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
05N06E31E003M	RMW-ISW1	3/15/1990	37.9	-13.14
05N06E31E003M	RMW-ISW1	9/24/1990	47.7	-22.94
05N06E31E003M	RMW-ISW1	2/20/1991	49	-24.24
05N06E31E003M	RMW-ISW1	9/26/1991	50.2	-25.44
05N06E31E003M	RMW-ISW1	3/24/1992	48.2	-23.44
05N06E31E003M	RMW-ISW1	9/29/1992	50.9	-26.14
05N06E31E003M	RMW-ISW1	10/20/1993	49	-24.24
05N06E31E003M	RMW-ISW1	3/10/1994	35.5	-10.74
05N06E31E003M	RMW-ISW1	10/4/1994	44.3	-19.54
05N06E31E003M	RMW-ISW1	10/11/1995	50.2	-25.44
05N06E31E003M	RMW-ISW1	10/30/1997	37.7	-12.94
05N06E31E003M	RMW-ISW1	4/23/1998	31.6	-6.84
05N06E31E003M	RMW-ISW1	5/24/2021	37.51	-12.75
05N06E31E003M	RMW-ISW1	10/4/2021	43.15	-18.39
05N06E31E003M	RMW-ISW1	4/13/2022	37.7	-12.94
05N06E31E003M	RMW-ISW1	10/5/2022	44.32	-19.56
05N06E31E003M	RMW-ISW1	4/25/2023	24.32	0.44
05N06E31E003M	RMW-ISW1	10/1/2023		

Site Code: 382967N1213790W001 **State Well Number:** **Local Well Name:** UCW_MW-19

Site Code: 382967N1213790W001
Local Well Name: UCW_MW-19
State Well Number:
Station ID: 57719
WCR Number:
Latitude: 38.29670
Longitude: -121.37900
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Observation
Well Completion Type: Single Well
Well Depth (feet bgs): 60
Top Perforation (feet bgs): 55
Bottom Perforation (feet bgs): 60
Ground Surface Elevation: 18
Reference Point Elevation: 18
Reference Point Description: top of casing
Station Comments: Network ID: RMW-ISW2



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
UCW_MW-19	RMW-ISW2	12/14/2012	10.14	7.86
UCW_MW-19	RMW-ISW2	12/15/2012	10.28	7.72
UCW_MW-19	RMW-ISW2	12/16/2012	10.51	7.49
UCW_MW-19	RMW-ISW2	12/17/2012	10.66	7.34
UCW_MW-19	RMW-ISW2	12/18/2012	10.76	7.24
UCW_MW-19	RMW-ISW2	12/19/2012	10.83	7.17
UCW_MW-19	RMW-ISW2	12/20/2012	10.83	7.17
UCW_MW-19	RMW-ISW2	12/21/2012	10.7	7.3
UCW_MW-19	RMW-ISW2	12/22/2012	10.63	7.37
UCW_MW-19	RMW-ISW2	12/23/2012	10.64	7.36
UCW_MW-19	RMW-ISW2	12/24/2012	9.91	8.09
UCW_MW-19	RMW-ISW2	12/25/2012	5.52	12.48
UCW_MW-19	RMW-ISW2	12/26/2012	2.25	15.75
UCW_MW-19	RMW-ISW2	12/27/2012	1.49	16.51
UCW_MW-19	RMW-ISW2	12/28/2012	0.23	17.77
UCW_MW-19	RMW-ISW2	12/29/2012	0.32	17.68
UCW_MW-19	RMW-ISW2	12/30/2012	0.79	17.21
UCW_MW-19	RMW-ISW2	12/31/2012	1.08	16.92
UCW_MW-19	RMW-ISW2	1/1/2013	1.42	16.58
UCW_MW-19	RMW-ISW2	1/2/2013	1.69	16.31
UCW_MW-19	RMW-ISW2	1/3/2013	1.96	16.04
UCW_MW-19	RMW-ISW2	1/4/2013	2.25	15.75
UCW_MW-19	RMW-ISW2	1/5/2013	2.51	15.49
UCW_MW-19	RMW-ISW2	1/6/2013	2.72	15.28
UCW_MW-19	RMW-ISW2	1/7/2013	2.6	15.4
UCW_MW-19	RMW-ISW2	1/8/2013	2.3	15.7
UCW_MW-19	RMW-ISW2	1/9/2013	2.27	15.73
UCW_MW-19	RMW-ISW2	1/10/2013	2.3	15.7
UCW_MW-19	RMW-ISW2	1/11/2013	2.52	15.48
UCW_MW-19	RMW-ISW2	1/12/2013	2.77	15.23
UCW_MW-19	RMW-ISW2	1/13/2013	2.98	15.02
UCW_MW-19	RMW-ISW2	1/14/2013	3.43	14.57
UCW_MW-19	RMW-ISW2	1/15/2013	3.58	14.42
UCW_MW-19	RMW-ISW2	1/16/2013	3.79	14.21
UCW_MW-19	RMW-ISW2	1/17/2013	3.93	14.07
UCW_MW-19	RMW-ISW2	1/18/2013	4.05	13.95
UCW_MW-19	RMW-ISW2	1/19/2013	4.28	13.72
UCW_MW-19	RMW-ISW2	1/20/2013	4.55	13.45

UCW_MW-19	RMW-ISW2	1/21/2013	4.8	13.2
UCW_MW-19	RMW-ISW2	1/22/2013	5.03	12.97
UCW_MW-19	RMW-ISW2	1/23/2013	5.24	12.76
UCW_MW-19	RMW-ISW2	1/24/2013	5.46	12.54
UCW_MW-19	RMW-ISW2	1/25/2013	5.76	12.24
UCW_MW-19	RMW-ISW2	1/26/2013	5.96	12.04
UCW_MW-19	RMW-ISW2	1/27/2013	6.04	11.96
UCW_MW-19	RMW-ISW2	1/28/2013	6.27	11.73
UCW_MW-19	RMW-ISW2	1/29/2013	6.45	11.55
UCW_MW-19	RMW-ISW2	1/30/2013	6.62	11.38
UCW_MW-19	RMW-ISW2	1/31/2013	6.74	11.26
UCW_MW-19	RMW-ISW2	2/1/2013	6.81	11.19
UCW_MW-19	RMW-ISW2	2/2/2013	6.88	11.12
UCW_MW-19	RMW-ISW2	2/3/2013	7.03	10.97
UCW_MW-19	RMW-ISW2	2/4/2013	7.1	10.9
UCW_MW-19	RMW-ISW2	2/5/2013	7.17	10.83
UCW_MW-19	RMW-ISW2	2/6/2013	7.26	10.74
UCW_MW-19	RMW-ISW2	2/7/2013	7.4	10.6
UCW_MW-19	RMW-ISW2	2/8/2013	7.47	10.53
UCW_MW-19	RMW-ISW2	2/9/2013	7.49	10.51
UCW_MW-19	RMW-ISW2	2/10/2013	7.63	10.37
UCW_MW-19	RMW-ISW2	2/11/2013	7.74	10.26
UCW_MW-19	RMW-ISW2	2/12/2013	7.87	10.13
UCW_MW-19	RMW-ISW2	2/13/2013	8.03	9.97
UCW_MW-19	RMW-ISW2	2/14/2013	8.08	9.92
UCW_MW-19	RMW-ISW2	2/15/2013	8.11	9.89
UCW_MW-19	RMW-ISW2	2/16/2013	8.21	9.79
UCW_MW-19	RMW-ISW2	2/17/2013	8.23	9.77
UCW_MW-19	RMW-ISW2	2/18/2013	8.22	9.78
UCW_MW-19	RMW-ISW2	2/19/2013	8.31	9.69
UCW_MW-19	RMW-ISW2	2/20/2013	8.31	9.69
UCW_MW-19	RMW-ISW2	2/21/2013	8.44	9.56
UCW_MW-19	RMW-ISW2	2/22/2013	8.58	9.42
UCW_MW-19	RMW-ISW2	2/23/2013	8.66	9.34
UCW_MW-19	RMW-ISW2	2/24/2013	8.69	9.31
UCW_MW-19	RMW-ISW2	2/25/2013	8.75	9.25
UCW_MW-19	RMW-ISW2	2/26/2013	8.8	9.2
UCW_MW-19	RMW-ISW2	2/27/2013	8.82	9.18
UCW_MW-19	RMW-ISW2	2/28/2013	8.92	9.08
UCW_MW-19	RMW-ISW2	3/1/2013	9.01	8.99
UCW_MW-19	RMW-ISW2	3/2/2013	9.01	8.99
UCW_MW-19	RMW-ISW2	3/3/2013	8.97	9.03
UCW_MW-19	RMW-ISW2	3/4/2013	8.97	9.03
UCW_MW-19	RMW-ISW2	3/5/2013	9.05	8.95
UCW_MW-19	RMW-ISW2	3/6/2013	9.03	8.97
UCW_MW-19	RMW-ISW2	3/7/2013	9.08	8.92
UCW_MW-19	RMW-ISW2	3/8/2013	9.07	8.93
UCW_MW-19	RMW-ISW2	3/9/2013	9.04	8.96
UCW_MW-19	RMW-ISW2	3/10/2013	9.24	8.76
UCW_MW-19	RMW-ISW2	3/11/2013	9.28	8.72
UCW_MW-19	RMW-ISW2	3/12/2013	9.23	8.77
UCW_MW-19	RMW-ISW2	3/13/2013	9.22	8.78
UCW_MW-19	RMW-ISW2	3/14/2013	9.26	8.74
UCW_MW-19	RMW-ISW2	3/15/2013	9.28	8.72
UCW_MW-19	RMW-ISW2	3/16/2013	9.3	8.7
UCW_MW-19	RMW-ISW2	3/17/2013	9.33	8.67
UCW_MW-19	RMW-ISW2	3/18/2013	9.4	8.6
UCW_MW-19	RMW-ISW2	3/19/2013	9.43	8.57
UCW_MW-19	RMW-ISW2	3/20/2013	9.5	8.5
UCW_MW-19	RMW-ISW2	3/21/2013	9.54	8.46
UCW_MW-19	RMW-ISW2	3/22/2013	9.55	8.45
UCW_MW-19	RMW-ISW2	3/23/2013	9.51	8.49
UCW_MW-19	RMW-ISW2	3/24/2013	9.52	8.48
UCW_MW-19	RMW-ISW2	3/25/2013	9.5	8.5
UCW_MW-19	RMW-ISW2	3/26/2013	9.5	8.5
UCW_MW-19	RMW-ISW2	3/27/2013	9.54	8.46
UCW_MW-19	RMW-ISW2	3/28/2013	9.58	8.42
UCW_MW-19	RMW-ISW2	3/29/2013	9.65	8.35
UCW_MW-19	RMW-ISW2	3/30/2013	9.68	8.32
UCW_MW-19	RMW-ISW2	3/31/2013	9.7	8.3
UCW_MW-19	RMW-ISW2	4/1/2013	9.73	8.27
UCW_MW-19	RMW-ISW2	4/2/2013	9.76	8.24
UCW_MW-19	RMW-ISW2	4/3/2013	9.73	8.27
UCW_MW-19	RMW-ISW2	4/4/2013	9.69	8.31
UCW_MW-19	RMW-ISW2	4/5/2013	9.7	8.3
UCW_MW-19	RMW-ISW2	4/6/2013	9.74	8.26
UCW_MW-19	RMW-ISW2	4/7/2013	9.73	8.27
UCW_MW-19	RMW-ISW2	4/8/2013	9.67	8.33
UCW_MW-19	RMW-ISW2	4/9/2013	9.62	8.38

UCW_MW-19	RMW-ISW2	4/10/2013	9.72	8.28
UCW_MW-19	RMW-ISW2	4/11/2013	9.71	8.29
UCW_MW-19	RMW-ISW2	4/12/2013	9.62	8.38
UCW_MW-19	RMW-ISW2	4/13/2013	9.62	8.38
UCW_MW-19	RMW-ISW2	4/14/2013	9.65	8.35
UCW_MW-19	RMW-ISW2	4/15/2013	9.7	8.3
UCW_MW-19	RMW-ISW2	4/16/2013	9.74	8.26
UCW_MW-19	RMW-ISW2	4/17/2013	9.86	8.14
UCW_MW-19	RMW-ISW2	4/18/2013	9.95	8.05
UCW_MW-19	RMW-ISW2	4/19/2013	9.98	8.02
UCW_MW-19	RMW-ISW2	4/20/2013	9.99	8.01
UCW_MW-19	RMW-ISW2	4/21/2013	10	8
UCW_MW-19	RMW-ISW2	4/22/2013	10.07	7.93
UCW_MW-19	RMW-ISW2	4/23/2013	10.12	7.88
UCW_MW-19	RMW-ISW2	4/24/2013	10.18	7.82
UCW_MW-19	RMW-ISW2	4/25/2013	10.21	7.79
UCW_MW-19	RMW-ISW2	4/26/2013	10.34	7.66
UCW_MW-19	RMW-ISW2	4/27/2013	10.42	7.58
UCW_MW-19	RMW-ISW2	4/28/2013	10.43	7.57
UCW_MW-19	RMW-ISW2	4/29/2013	10.4	7.6
UCW_MW-19	RMW-ISW2	4/30/2013	10.43	7.57
UCW_MW-19	RMW-ISW2	5/1/2013	10.5	7.5
UCW_MW-19	RMW-ISW2	5/2/2013	10.64	7.36
UCW_MW-19	RMW-ISW2	5/3/2013	10.76	7.24
UCW_MW-19	RMW-ISW2	5/4/2013	10.76	7.24
UCW_MW-19	RMW-ISW2	5/5/2013	10.77	7.23
UCW_MW-19	RMW-ISW2	5/6/2013	10.94	7.06
UCW_MW-19	RMW-ISW2	5/7/2013	11.13	6.87
UCW_MW-19	RMW-ISW2	5/8/2013	11.28	6.72
UCW_MW-19	RMW-ISW2	5/9/2013	11.52	6.48
UCW_MW-19	RMW-ISW2	5/10/2013	11.64	6.36
UCW_MW-19	RMW-ISW2	5/11/2013	11.68	6.32
UCW_MW-19	RMW-ISW2	5/12/2013	11.74	6.26
UCW_MW-19	RMW-ISW2	5/13/2013	11.73	6.27
UCW_MW-19	RMW-ISW2	5/14/2013	11.78	6.22
UCW_MW-19	RMW-ISW2	5/15/2013	11.99	6.01
UCW_MW-19	RMW-ISW2	5/16/2013	12.15	5.85
UCW_MW-19	RMW-ISW2	5/17/2013	12.23	5.77
UCW_MW-19	RMW-ISW2	5/18/2013	12.31	5.69
UCW_MW-19	RMW-ISW2	5/19/2013	12.37	5.63
UCW_MW-19	RMW-ISW2	5/20/2013	12.45	5.55
UCW_MW-19	RMW-ISW2	5/21/2013	12.58	5.42
UCW_MW-19	RMW-ISW2	5/22/2013	12.71	5.29
UCW_MW-19	RMW-ISW2	5/23/2013	12.89	5.11
UCW_MW-19	RMW-ISW2	5/24/2013	13.03	4.97
UCW_MW-19	RMW-ISW2	5/25/2013	13.11	4.89
UCW_MW-19	RMW-ISW2	5/26/2013	13.1	4.9
UCW_MW-19	RMW-ISW2	5/27/2013	13.11	4.89
UCW_MW-19	RMW-ISW2	5/28/2013	13.09	4.91
UCW_MW-19	RMW-ISW2	5/29/2013	13.03	4.97
UCW_MW-19	RMW-ISW2	5/30/2013	13.04	4.96
UCW_MW-19	RMW-ISW2	5/31/2013	13.33	4.67
UCW_MW-19	RMW-ISW2	6/1/2013	13.62	4.38
UCW_MW-19	RMW-ISW2	6/2/2013	13.8	4.2
UCW_MW-19	RMW-ISW2	6/3/2013	13.91	4.09
UCW_MW-19	RMW-ISW2	6/4/2013	14.11	3.89
UCW_MW-19	RMW-ISW2	6/5/2013	14.37	3.63
UCW_MW-19	RMW-ISW2	6/6/2013	14.46	3.54
UCW_MW-19	RMW-ISW2	6/7/2013	14.53	3.47
UCW_MW-19	RMW-ISW2	6/8/2013	14.61	3.39
UCW_MW-19	RMW-ISW2	6/9/2013	14.71	3.29
UCW_MW-19	RMW-ISW2	6/10/2013	14.75	3.25
UCW_MW-19	RMW-ISW2	6/11/2013	14.75	3.25
UCW_MW-19	RMW-ISW2	6/12/2013	14.8	3.2
UCW_MW-19	RMW-ISW2	6/13/2013	14.92	3.08
UCW_MW-19	RMW-ISW2	6/14/2013	15.15	2.85
UCW_MW-19	RMW-ISW2	6/15/2013	15.4	2.6
UCW_MW-19	RMW-ISW2	6/16/2013	15.6	2.4
UCW_MW-19	RMW-ISW2	6/17/2013	15.64	2.36
UCW_MW-19	RMW-ISW2	6/18/2013	15.82	2.18
UCW_MW-19	RMW-ISW2	6/19/2013	16.25	1.75
UCW_MW-19	RMW-ISW2	6/20/2013	16.42	1.58
UCW_MW-19	RMW-ISW2	6/21/2013	16.56	1.44
UCW_MW-19	RMW-ISW2	6/22/2013	16.74	1.26
UCW_MW-19	RMW-ISW2	6/23/2013	17.04	0.96
UCW_MW-19	RMW-ISW2	6/24/2013	17.31	0.69
UCW_MW-19	RMW-ISW2	6/25/2013	17.43	0.57
UCW_MW-19	RMW-ISW2	6/26/2013	17.49	0.51
UCW_MW-19	RMW-ISW2	6/27/2013	17.5	0.5

UCW_MW-19	RMW-ISW2	6/28/2013	17.47	0.53
UCW_MW-19	RMW-ISW2	6/29/2013	17.52	0.48
UCW_MW-19	RMW-ISW2	6/30/2013	17.58	0.42
UCW_MW-19	RMW-ISW2	7/1/2013	17.63	0.37
UCW_MW-19	RMW-ISW2	7/2/2013	17.79	0.21
UCW_MW-19	RMW-ISW2	7/3/2013	18.14	-0.14
UCW_MW-19	RMW-ISW2	7/4/2013	18.35	-0.35
UCW_MW-19	RMW-ISW2	7/5/2013	18.37	-0.37
UCW_MW-19	RMW-ISW2	7/6/2013	18.42	-0.42
UCW_MW-19	RMW-ISW2	7/7/2013	18.53	-0.53
UCW_MW-19	RMW-ISW2	7/8/2013	18.49	-0.49
UCW_MW-19	RMW-ISW2	7/9/2013	18.59	-0.59
UCW_MW-19	RMW-ISW2	7/10/2013	19	-1
UCW_MW-19	RMW-ISW2	7/11/2013	19.28	-1.28
UCW_MW-19	RMW-ISW2	7/12/2013	19.44	-1.44
UCW_MW-19	RMW-ISW2	7/13/2013	19.54	-1.54
UCW_MW-19	RMW-ISW2	7/14/2013	19.7	-1.7
UCW_MW-19	RMW-ISW2	7/15/2013	19.76	-1.76
UCW_MW-19	RMW-ISW2	7/16/2013	19.84	-1.84
UCW_MW-19	RMW-ISW2	7/17/2013	20.02	-2.02
UCW_MW-19	RMW-ISW2	7/18/2013	20.01	-2.01
UCW_MW-19	RMW-ISW2	7/19/2013	20.07	-2.07
UCW_MW-19	RMW-ISW2	7/20/2013	19.99	-1.99
UCW_MW-19	RMW-ISW2	7/21/2013	19.94	-1.94
UCW_MW-19	RMW-ISW2	7/22/2013	19.91	-1.91
UCW_MW-19	RMW-ISW2	7/23/2013	19.99	-1.99
UCW_MW-19	RMW-ISW2	7/24/2013	20.09	-2.09
UCW_MW-19	RMW-ISW2	7/25/2013	20.15	-2.15
UCW_MW-19	RMW-ISW2	7/26/2013	20.23	-2.23
UCW_MW-19	RMW-ISW2	7/27/2013	20.28	-2.28
UCW_MW-19	RMW-ISW2	7/28/2013	20.33	-2.33
UCW_MW-19	RMW-ISW2	7/29/2013	20.34	-2.34
UCW_MW-19	RMW-ISW2	7/30/2013	20.35	-2.35
UCW_MW-19	RMW-ISW2	7/31/2013	20.43	-2.43
UCW_MW-19	RMW-ISW2	8/1/2013	20.51	-2.51
UCW_MW-19	RMW-ISW2	8/2/2013	20.59	-2.59
UCW_MW-19	RMW-ISW2	8/3/2013	20.64	-2.64
UCW_MW-19	RMW-ISW2	8/4/2013	20.65	-2.65
UCW_MW-19	RMW-ISW2	8/5/2013	20.65	-2.65
UCW_MW-19	RMW-ISW2	8/6/2013	20.69	-2.69
UCW_MW-19	RMW-ISW2	8/7/2013	20.9	-2.9
UCW_MW-19	RMW-ISW2	8/8/2013	20.96	-2.96
UCW_MW-19	RMW-ISW2	8/9/2013	21.02	-3.02
UCW_MW-19	RMW-ISW2	8/10/2013	21.06	-3.06
UCW_MW-19	RMW-ISW2	8/11/2013	21.08	-3.08
UCW_MW-19	RMW-ISW2	8/12/2013	21.08	-3.08
UCW_MW-19	RMW-ISW2	8/13/2013	21.13	-3.13
UCW_MW-19	RMW-ISW2	8/14/2013	21.19	-3.19
UCW_MW-19	RMW-ISW2	8/15/2013	21.24	-3.24
UCW_MW-19	RMW-ISW2	8/16/2013	21.23	-3.23
UCW_MW-19	RMW-ISW2	8/17/2013	21.25	-3.25
UCW_MW-19	RMW-ISW2	8/18/2013	21.29	-3.29
UCW_MW-19	RMW-ISW2	8/19/2013	21.32	-3.32
UCW_MW-19	RMW-ISW2	8/20/2013	21.33	-3.33
UCW_MW-19	RMW-ISW2	8/21/2013	21.36	-3.36
UCW_MW-19	RMW-ISW2	8/22/2013	21.45	-3.45
UCW_MW-19	RMW-ISW2	8/23/2013	21.55	-3.55
UCW_MW-19	RMW-ISW2	8/24/2013	21.63	-3.63
UCW_MW-19	RMW-ISW2	8/25/2013	21.7	-3.7
UCW_MW-19	RMW-ISW2	8/26/2013	21.71	-3.71
UCW_MW-19	RMW-ISW2	8/27/2013	21.76	-3.76
UCW_MW-19	RMW-ISW2	8/28/2013	21.8	-3.8
UCW_MW-19	RMW-ISW2	8/29/2013	21.88	-3.88
UCW_MW-19	RMW-ISW2	8/30/2013	21.94	-3.94
UCW_MW-19	RMW-ISW2	8/31/2013	21.98	-3.98
UCW_MW-19	RMW-ISW2	9/1/2013	21.97	-3.97
UCW_MW-19	RMW-ISW2	9/2/2013	21.96	-3.96
UCW_MW-19	RMW-ISW2	9/3/2013	21.97	-3.97
UCW_MW-19	RMW-ISW2	9/4/2013	21.99	-3.99
UCW_MW-19	RMW-ISW2	9/5/2013	22	-4
UCW_MW-19	RMW-ISW2	9/6/2013	22.03	-4.03
UCW_MW-19	RMW-ISW2	9/7/2013	22.05	-4.05
UCW_MW-19	RMW-ISW2	9/8/2013	22.07	-4.07
UCW_MW-19	RMW-ISW2	9/9/2013	22.09	-4.09
UCW_MW-19	RMW-ISW2	9/10/2013	22.12	-4.12
UCW_MW-19	RMW-ISW2	9/11/2013	22.17	-4.17
UCW_MW-19	RMW-ISW2	9/12/2013	22.21	-4.21
UCW_MW-19	RMW-ISW2	9/13/2013	22.24	-4.24
UCW_MW-19	RMW-ISW2	9/14/2013	22.27	-4.27

UCW_MW-19	RMW-ISW2	9/15/2013	22.3	-4.3
UCW_MW-19	RMW-ISW2	9/16/2013	22.33	-4.33
UCW_MW-19	RMW-ISW2	9/17/2013	22.36	-4.36
UCW_MW-19	RMW-ISW2	9/18/2013	22.38	-4.38
UCW_MW-19	RMW-ISW2	9/19/2013	22.37	-4.37
UCW_MW-19	RMW-ISW2	9/20/2013	22.37	-4.37
UCW_MW-19	RMW-ISW2	9/21/2013	22.4	-4.4
UCW_MW-19	RMW-ISW2	9/22/2013	22.44	-4.44
UCW_MW-19	RMW-ISW2	9/23/2013	22.47	-4.47
UCW_MW-19	RMW-ISW2	9/24/2013	22.47	-4.47
UCW_MW-19	RMW-ISW2	9/25/2013	22.48	-4.48
UCW_MW-19	RMW-ISW2	9/26/2013	22.49	-4.49
UCW_MW-19	RMW-ISW2	9/27/2013	22.51	-4.51
UCW_MW-19	RMW-ISW2	9/28/2013	22.54	-4.54
UCW_MW-19	RMW-ISW2	9/29/2013	22.55	-4.55
UCW_MW-19	RMW-ISW2	9/30/2013	22.57	-4.57
UCW_MW-19	RMW-ISW2	10/1/2013	22.59	-4.59
UCW_MW-19	RMW-ISW2	10/2/2013	22.6	-4.6
UCW_MW-19	RMW-ISW2	10/3/2013	22.62	-4.62
UCW_MW-19	RMW-ISW2	10/4/2013	22.64	-4.64
UCW_MW-19	RMW-ISW2	10/5/2013	22.66	-4.66
UCW_MW-19	RMW-ISW2	10/6/2013	22.68	-4.68
UCW_MW-19	RMW-ISW2	10/7/2013	22.69	-4.69
UCW_MW-19	RMW-ISW2	10/8/2013	22.7	-4.7
UCW_MW-19	RMW-ISW2	10/9/2013	22.71	-4.71
UCW_MW-19	RMW-ISW2	10/10/2013	22.74	-4.74
UCW_MW-19	RMW-ISW2	10/11/2013	22.78	-4.78
UCW_MW-19	RMW-ISW2	10/12/2013	22.8	-4.8
UCW_MW-19	RMW-ISW2	10/13/2013	22.81	-4.81
UCW_MW-19	RMW-ISW2	10/14/2013	22.83	-4.83
UCW_MW-19	RMW-ISW2	10/15/2013	22.84	-4.84
UCW_MW-19	RMW-ISW2	10/16/2013	22.85	-4.85
UCW_MW-19	RMW-ISW2	10/17/2013	22.87	-4.87
UCW_MW-19	RMW-ISW2	10/18/2013	22.88	-4.88
UCW_MW-19	RMW-ISW2	10/19/2013	22.9	-4.9
UCW_MW-19	RMW-ISW2	10/20/2013	22.91	-4.91
UCW_MW-19	RMW-ISW2	10/21/2013	22.92	-4.92
UCW_MW-19	RMW-ISW2	10/22/2013	22.94	-4.94
UCW_MW-19	RMW-ISW2	10/23/2013	22.96	-4.96
UCW_MW-19	RMW-ISW2	10/24/2013	22.97	-4.97
UCW_MW-19	RMW-ISW2	10/25/2013	22.99	-4.99
UCW_MW-19	RMW-ISW2	10/26/2013	23.01	-5.01
UCW_MW-19	RMW-ISW2	10/27/2013	23.02	-5.02
UCW_MW-19	RMW-ISW2	10/28/2013	23.02	-5.02
UCW_MW-19	RMW-ISW2	10/29/2013	23.04	-5.04
UCW_MW-19	RMW-ISW2	10/30/2013	23.07	-5.07
UCW_MW-19	RMW-ISW2	10/31/2013	23.09	-5.09
UCW_MW-19	RMW-ISW2	11/1/2013	23.1	-5.1
UCW_MW-19	RMW-ISW2	11/2/2013	23.11	-5.11
UCW_MW-19	RMW-ISW2	11/3/2013	23.11	-5.11
UCW_MW-19	RMW-ISW2	11/4/2013	23.13	-5.13
UCW_MW-19	RMW-ISW2	11/5/2013	23.14	-5.14
UCW_MW-19	RMW-ISW2	11/6/2013	23.16	-5.16
UCW_MW-19	RMW-ISW2	11/7/2013	23.17	-5.17
UCW_MW-19	RMW-ISW2	11/8/2013	23.17	-5.17
UCW_MW-19	RMW-ISW2	11/9/2013	23.17	-5.17
UCW_MW-19	RMW-ISW2	11/10/2013	23.18	-5.18
UCW_MW-19	RMW-ISW2	11/11/2013	23.19	-5.19
UCW_MW-19	RMW-ISW2	11/12/2013	23.2	-5.2
UCW_MW-19	RMW-ISW2	11/13/2013	23.21	-5.21
UCW_MW-19	RMW-ISW2	11/14/2013	23.22	-5.22
UCW_MW-19	RMW-ISW2	11/15/2013	23.22	-5.22
UCW_MW-19	RMW-ISW2	11/16/2013	23.22	-5.22
UCW_MW-19	RMW-ISW2	11/17/2013	23.23	-5.23
UCW_MW-19	RMW-ISW2	11/18/2013	23.25	-5.25
UCW_MW-19	RMW-ISW2	11/19/2013	23.26	-5.26
UCW_MW-19	RMW-ISW2	11/20/2013	23.26	-5.26
UCW_MW-19	RMW-ISW2	11/21/2013	23.26	-5.26
UCW_MW-19	RMW-ISW2	11/22/2013	23.28	-5.28
UCW_MW-19	RMW-ISW2	11/23/2013	23.29	-5.29
UCW_MW-19	RMW-ISW2	11/24/2013	23.3	-5.3
UCW_MW-19	RMW-ISW2	11/25/2013	23.31	-5.31
UCW_MW-19	RMW-ISW2	11/26/2013	23.32	-5.32
UCW_MW-19	RMW-ISW2	11/27/2013	23.32	-5.32
UCW_MW-19	RMW-ISW2	11/28/2013	23.31	-5.31
UCW_MW-19	RMW-ISW2	11/29/2013	23.32	-5.32
UCW_MW-19	RMW-ISW2	11/30/2013	23.33	-5.33
UCW_MW-19	RMW-ISW2	12/1/2013	23.34	-5.34
UCW_MW-19	RMW-ISW2	12/2/2013	23.34	-5.34

UCW_MW-19	RMW-ISW2	12/3/2013	23.34	-5.34
UCW_MW-19	RMW-ISW2	12/4/2013	23.33	-5.33
UCW_MW-19	RMW-ISW2	12/5/2013	23.35	-5.35
UCW_MW-19	RMW-ISW2	12/6/2013	23.36	-5.36
UCW_MW-19	RMW-ISW2	12/7/2013	23.36	-5.36
UCW_MW-19	RMW-ISW2	12/8/2013	23.36	-5.36
UCW_MW-19	RMW-ISW2	12/9/2013	23.38	-5.38
UCW_MW-19	RMW-ISW2	12/10/2013	23.4	-5.4
UCW_MW-19	RMW-ISW2	12/11/2013	23.41	-5.41
UCW_MW-19	RMW-ISW2	12/12/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/13/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/14/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/15/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/16/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/17/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/18/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/19/2013	23.41	-5.41
UCW_MW-19	RMW-ISW2	12/20/2013	23.4	-5.4
UCW_MW-19	RMW-ISW2	12/21/2013	23.41	-5.41
UCW_MW-19	RMW-ISW2	12/22/2013	23.41	-5.41
UCW_MW-19	RMW-ISW2	12/23/2013	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/24/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/25/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/26/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/27/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/28/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/29/2013	23.43	-5.43
UCW_MW-19	RMW-ISW2	12/30/2013	23.44	-5.44
UCW_MW-19	RMW-ISW2	12/31/2013	23.45	-5.45
UCW_MW-19	RMW-ISW2	1/1/2014	23.45	-5.45
UCW_MW-19	RMW-ISW2	1/2/2014	23.46	-5.46
UCW_MW-19	RMW-ISW2	1/3/2014	23.46	-5.46
UCW_MW-19	RMW-ISW2	1/4/2014	23.46	-5.46
UCW_MW-19	RMW-ISW2	1/5/2014	23.46	-5.46
UCW_MW-19	RMW-ISW2	1/6/2014	23.48	-5.48
UCW_MW-19	RMW-ISW2	1/7/2014	23.48	-5.48
UCW_MW-19	RMW-ISW2	1/8/2014	23.49	-5.49
UCW_MW-19	RMW-ISW2	1/9/2014	23.5	-5.5
UCW_MW-19	RMW-ISW2	1/10/2014	23.51	-5.51
UCW_MW-19	RMW-ISW2	1/11/2014	23.52	-5.52
UCW_MW-19	RMW-ISW2	1/12/2014	23.52	-5.52
UCW_MW-19	RMW-ISW2	1/13/2014	23.54	-5.54
UCW_MW-19	RMW-ISW2	1/14/2014	23.55	-5.55
UCW_MW-19	RMW-ISW2	1/15/2014	23.55	-5.55
UCW_MW-19	RMW-ISW2	1/16/2014	23.55	-5.55
UCW_MW-19	RMW-ISW2	1/17/2014	23.55	-5.55
UCW_MW-19	RMW-ISW2	1/18/2014	23.56	-5.56
UCW_MW-19	RMW-ISW2	1/19/2014	23.57	-5.57
UCW_MW-19	RMW-ISW2	1/20/2014	23.57	-5.57
UCW_MW-19	RMW-ISW2	1/21/2014	23.58	-5.58
UCW_MW-19	RMW-ISW2	1/22/2014	23.59	-5.59
UCW_MW-19	RMW-ISW2	1/23/2014	23.59	-5.59
UCW_MW-19	RMW-ISW2	1/24/2014	23.61	-5.61
UCW_MW-19	RMW-ISW2	1/25/2014	23.64	-5.64
UCW_MW-19	RMW-ISW2	1/26/2014	23.64	-5.64
UCW_MW-19	RMW-ISW2	1/27/2014	23.64	-5.64
UCW_MW-19	RMW-ISW2	1/28/2014	23.66	-5.66
UCW_MW-19	RMW-ISW2	1/29/2014	23.67	-5.67
UCW_MW-19	RMW-ISW2	1/30/2014	23.67	-5.67
UCW_MW-19	RMW-ISW2	1/31/2014	23.67	-5.67
UCW_MW-19	RMW-ISW2	2/1/2014	23.68	-5.68
UCW_MW-19	RMW-ISW2	2/2/2014	23.68	-5.68
UCW_MW-19	RMW-ISW2	2/3/2014	23.68	-5.68
UCW_MW-19	RMW-ISW2	2/4/2014	23.7	-5.7
UCW_MW-19	RMW-ISW2	2/5/2014	23.7	-5.7
UCW_MW-19	RMW-ISW2	2/6/2014	23.71	-5.71
UCW_MW-19	RMW-ISW2	2/7/2014	23.71	-5.71
UCW_MW-19	RMW-ISW2	2/8/2014	23.72	-5.72
UCW_MW-19	RMW-ISW2	2/9/2014	23.72	-5.72
UCW_MW-19	RMW-ISW2	2/10/2014	23.62	-5.62
UCW_MW-19	RMW-ISW2	2/11/2014	22.01	-4.01
UCW_MW-19	RMW-ISW2	2/12/2014	18.87	-0.87
UCW_MW-19	RMW-ISW2	2/13/2014	18.05	-0.05
UCW_MW-19	RMW-ISW2	2/14/2014	18.58	-0.58
UCW_MW-19	RMW-ISW2	2/15/2014	19	-1
UCW_MW-19	RMW-ISW2	2/16/2014	19.15	-1.15
UCW_MW-19	RMW-ISW2	2/17/2014	19.24	-1.24
UCW_MW-19	RMW-ISW2	2/18/2014	19.24	-1.24
UCW_MW-19	RMW-ISW2	2/19/2014	19.22	-1.22

UCW_MW-19	RMW-ISW2	2/20/2014	19.2	-1.2
UCW_MW-19	RMW-ISW2	2/21/2014	19.22	-1.22
UCW_MW-19	RMW-ISW2	2/22/2014	19.2	-1.2
UCW_MW-19	RMW-ISW2	2/23/2014	19.16	-1.16
UCW_MW-19	RMW-ISW2	2/24/2014	19.15	-1.15
UCW_MW-19	RMW-ISW2	2/25/2014	19.12	-1.12
UCW_MW-19	RMW-ISW2	2/26/2014	19.09	-1.09
UCW_MW-19	RMW-ISW2	2/27/2014	19.06	-1.06
UCW_MW-19	RMW-ISW2	2/28/2014	19.03	-1.03
UCW_MW-19	RMW-ISW2	3/1/2014	18.9	-0.9
UCW_MW-19	RMW-ISW2	3/2/2014	18.67	-0.67
UCW_MW-19	RMW-ISW2	3/3/2014	18.12	-0.12
UCW_MW-19	RMW-ISW2	3/4/2014	17.63	0.37
UCW_MW-19	RMW-ISW2	3/5/2014	17.49	0.51
UCW_MW-19	RMW-ISW2	3/6/2014	17.35	0.65
UCW_MW-19	RMW-ISW2	3/7/2014	17.27	0.73
UCW_MW-19	RMW-ISW2	3/8/2014	17.03	0.97
UCW_MW-19	RMW-ISW2	3/9/2014	16.78	1.22
UCW_MW-19	RMW-ISW2	3/10/2014	16.68	1.32
UCW_MW-19	RMW-ISW2	3/11/2014	16.66	1.34
UCW_MW-19	RMW-ISW2	3/12/2014	16.62	1.38
UCW_MW-19	RMW-ISW2	3/13/2014	16.6	1.4
UCW_MW-19	RMW-ISW2	3/14/2014	16.6	1.4
UCW_MW-19	RMW-ISW2	3/15/2014	16.65	1.35
UCW_MW-19	RMW-ISW2	3/16/2014	16.69	1.31
UCW_MW-19	RMW-ISW2	3/17/2014	16.69	1.31
UCW_MW-19	RMW-ISW2	3/18/2014	16.66	1.34
UCW_MW-19	RMW-ISW2	3/19/2014	16.66	1.34
UCW_MW-19	RMW-ISW2	3/20/2014	16.71	1.29
UCW_MW-19	RMW-ISW2	3/21/2014	16.69	1.31
UCW_MW-19	RMW-ISW2	3/22/2014	16.68	1.32
UCW_MW-19	RMW-ISW2	3/23/2014	16.72	1.28
UCW_MW-19	RMW-ISW2	3/24/2014	16.74	1.26
UCW_MW-19	RMW-ISW2	3/25/2014	16.73	1.27
UCW_MW-19	RMW-ISW2	3/26/2014	16.7	1.3
UCW_MW-19	RMW-ISW2	3/27/2014	16.68	1.32
UCW_MW-19	RMW-ISW2	3/28/2014	16.73	1.27
UCW_MW-19	RMW-ISW2	3/29/2014	16.7	1.3
UCW_MW-19	RMW-ISW2	3/30/2014	16.63	1.37
UCW_MW-19	RMW-ISW2	3/31/2014	16.57	1.43
UCW_MW-19	RMW-ISW2	4/1/2014	16.38	1.62
UCW_MW-19	RMW-ISW2	4/2/2014	16.3	1.7
UCW_MW-19	RMW-ISW2	4/3/2014	16.19	1.81
UCW_MW-19	RMW-ISW2	4/4/2014	16.06	1.94
UCW_MW-19	RMW-ISW2	4/5/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	4/6/2014	16.04	1.96
UCW_MW-19	RMW-ISW2	4/7/2014	16.06	1.94
UCW_MW-19	RMW-ISW2	4/8/2014	16.06	1.94
UCW_MW-19	RMW-ISW2	4/9/2014	16.06	1.94
UCW_MW-19	RMW-ISW2	4/10/2014	16.05	1.95
UCW_MW-19	RMW-ISW2	4/11/2014	16.03	1.97
UCW_MW-19	RMW-ISW2	4/12/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	4/13/2014	16.02	1.98
UCW_MW-19	RMW-ISW2	4/14/2014	16.03	1.97
UCW_MW-19	RMW-ISW2	4/15/2014	16.03	1.97
UCW_MW-19	RMW-ISW2	4/16/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	4/17/2014	16	2
UCW_MW-19	RMW-ISW2	4/18/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	4/19/2014	16.05	1.95
UCW_MW-19	RMW-ISW2	4/20/2014	16.11	1.89
UCW_MW-19	RMW-ISW2	4/21/2014	16.1	1.9
UCW_MW-19	RMW-ISW2	4/22/2014	16.06	1.94
UCW_MW-19	RMW-ISW2	4/23/2014	16.08	1.92
UCW_MW-19	RMW-ISW2	4/24/2014	16.1	1.9
UCW_MW-19	RMW-ISW2	4/25/2014	16.09	1.91
UCW_MW-19	RMW-ISW2	4/26/2014	16.03	1.97
UCW_MW-19	RMW-ISW2	4/27/2014	16.05	1.95
UCW_MW-19	RMW-ISW2	4/28/2014	16	2
UCW_MW-19	RMW-ISW2	4/29/2014	15.98	2.02
UCW_MW-19	RMW-ISW2	4/30/2014	15.96	2.04
UCW_MW-19	RMW-ISW2	5/1/2014	15.95	2.05
UCW_MW-19	RMW-ISW2	5/2/2014	15.97	2.03
UCW_MW-19	RMW-ISW2	5/3/2014	15.99	2.01
UCW_MW-19	RMW-ISW2	5/4/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	5/5/2014	16.02	1.98
UCW_MW-19	RMW-ISW2	5/6/2014	16.01	1.99
UCW_MW-19	RMW-ISW2	5/7/2014	15.99	2.01
UCW_MW-19	RMW-ISW2	5/8/2014	16.03	1.97
UCW_MW-19	RMW-ISW2	5/9/2014	16.08	1.92

UCW_MW-19	RMW-ISW2	5/10/2014	16.09	1.91
UCW_MW-19	RMW-ISW2	5/11/2014	16.09	1.91
UCW_MW-19	RMW-ISW2	5/12/2014	16.12	1.88
UCW_MW-19	RMW-ISW2	5/13/2014	16.16	1.84
UCW_MW-19	RMW-ISW2	5/14/2014	16.2	1.8
UCW_MW-19	RMW-ISW2	5/15/2014	16.23	1.77
UCW_MW-19	RMW-ISW2	5/16/2014	16.28	1.72
UCW_MW-19	RMW-ISW2	5/17/2014	16.31	1.69
UCW_MW-19	RMW-ISW2	5/18/2014	16.33	1.67
UCW_MW-19	RMW-ISW2	5/19/2014	16.34	1.66
UCW_MW-19	RMW-ISW2	5/20/2014	16.37	1.63
UCW_MW-19	RMW-ISW2	5/21/2014	16.41	1.59
UCW_MW-19	RMW-ISW2	5/22/2014	16.42	1.58
UCW_MW-19	RMW-ISW2	5/23/2014	16.46	1.54
UCW_MW-19	RMW-ISW2	5/24/2014	16.52	1.48
UCW_MW-19	RMW-ISW2	5/25/2014	16.57	1.43
UCW_MW-19	RMW-ISW2	5/26/2014	16.61	1.39
UCW_MW-19	RMW-ISW2	5/27/2014	16.68	1.32
UCW_MW-19	RMW-ISW2	5/28/2014	16.77	1.23
UCW_MW-19	RMW-ISW2	5/29/2014	16.93	1.07
UCW_MW-19	RMW-ISW2	5/30/2014	17	1
UCW_MW-19	RMW-ISW2	5/31/2014	17.31	0.69
UCW_MW-19	RMW-ISW2	6/1/2014	17.61	0.39
UCW_MW-19	RMW-ISW2	6/2/2014	17.83	0.17
UCW_MW-19	RMW-ISW2	6/3/2014	18.02	-0.02
UCW_MW-19	RMW-ISW2	6/4/2014	18.22	-0.22
UCW_MW-19	RMW-ISW2	6/5/2014	18.21	-0.21
UCW_MW-19	RMW-ISW2	6/6/2014	18.23	-0.23
UCW_MW-19	RMW-ISW2	6/7/2014	18.32	-0.32
UCW_MW-19	RMW-ISW2	6/8/2014	18.43	-0.43
UCW_MW-19	RMW-ISW2	6/9/2014	18.53	-0.53
UCW_MW-19	RMW-ISW2	6/10/2014	18.65	-0.65
UCW_MW-19	RMW-ISW2	6/11/2014	18.8	-0.8
UCW_MW-19	RMW-ISW2	6/12/2014	18.95	-0.95
UCW_MW-19	RMW-ISW2	6/13/2014	19.05	-1.05
UCW_MW-19	RMW-ISW2	6/14/2014	19.11	-1.11
UCW_MW-19	RMW-ISW2	6/15/2014	19.16	-1.16
UCW_MW-19	RMW-ISW2	6/16/2014	19.21	-1.21
UCW_MW-19	RMW-ISW2	6/17/2014	19.33	-1.33
UCW_MW-19	RMW-ISW2	6/18/2014	19.46	-1.46
UCW_MW-19	RMW-ISW2	6/19/2014	19.55	-1.55
UCW_MW-19	RMW-ISW2	6/20/2014	19.67	-1.67
UCW_MW-19	RMW-ISW2	6/21/2014	19.92	-1.92
UCW_MW-19	RMW-ISW2	6/22/2014	20.03	-2.03
UCW_MW-19	RMW-ISW2	6/23/2014	20.14	-2.14
UCW_MW-19	RMW-ISW2	6/24/2014	20.12	-2.12
UCW_MW-19	RMW-ISW2	6/25/2014	20.06	-2.06
UCW_MW-19	RMW-ISW2	6/26/2014	20.08	-2.08
UCW_MW-19	RMW-ISW2	6/27/2014	20.14	-2.14
UCW_MW-19	RMW-ISW2	6/28/2014	20.27	-2.27
UCW_MW-19	RMW-ISW2	6/29/2014	20.43	-2.43
UCW_MW-19	RMW-ISW2	6/30/2014	20.45	-2.45
UCW_MW-19	RMW-ISW2	7/1/2014	20.44	-2.44
UCW_MW-19	RMW-ISW2	7/2/2014	20.55	-2.55
UCW_MW-19	RMW-ISW2	7/3/2014	20.76	-2.76
UCW_MW-19	RMW-ISW2	7/4/2014	20.88	-2.88
UCW_MW-19	RMW-ISW2	7/5/2014	20.88	-2.88
UCW_MW-19	RMW-ISW2	7/6/2014	20.89	-2.89
UCW_MW-19	RMW-ISW2	7/7/2014	21.04	-3.04
UCW_MW-19	RMW-ISW2	7/8/2014	21.09	-3.09
UCW_MW-19	RMW-ISW2	7/9/2014	21.21	-3.21
UCW_MW-19	RMW-ISW2	7/10/2014	21.2	-3.2
UCW_MW-19	RMW-ISW2	7/11/2014	21.23	-3.23
UCW_MW-19	RMW-ISW2	7/12/2014	21.35	-3.35
UCW_MW-19	RMW-ISW2	7/13/2014	21.44	-3.44
UCW_MW-19	RMW-ISW2	7/14/2014	21.46	-3.46
UCW_MW-19	RMW-ISW2	7/15/2014	21.46	-3.46
UCW_MW-19	RMW-ISW2	7/16/2014	21.5	-3.5
UCW_MW-19	RMW-ISW2	7/17/2014	21.63	-3.63
UCW_MW-19	RMW-ISW2	7/18/2014	21.67	-3.67
UCW_MW-19	RMW-ISW2	7/19/2014	21.65	-3.65
UCW_MW-19	RMW-ISW2	7/20/2014	21.8	-3.8
UCW_MW-19	RMW-ISW2	7/21/2014	21.93	-3.93
UCW_MW-19	RMW-ISW2	7/22/2014	21.99	-3.99
UCW_MW-19	RMW-ISW2	7/23/2014	22.02	-4.02
UCW_MW-19	RMW-ISW2	7/24/2014	22.14	-4.14
UCW_MW-19	RMW-ISW2	7/25/2014	22.16	-4.16
UCW_MW-19	RMW-ISW2	7/26/2014	22.25	-4.25
UCW_MW-19	RMW-ISW2	7/27/2014	22.34	-4.34

UCW_MW-19	RMW-ISW2	7/28/2014	22.37	-4.37
UCW_MW-19	RMW-ISW2	7/29/2014	22.44	-4.44
UCW_MW-19	RMW-ISW2	7/30/2014	22.49	-4.49
UCW_MW-19	RMW-ISW2	7/31/2014	22.54	-4.54
UCW_MW-19	RMW-ISW2	8/1/2014	22.6	-4.6
UCW_MW-19	RMW-ISW2	8/2/2014	22.67	-4.67
UCW_MW-19	RMW-ISW2	8/3/2014	22.81	-4.81
UCW_MW-19	RMW-ISW2	8/4/2014	22.92	-4.92
UCW_MW-19	RMW-ISW2	8/5/2014	22.98	-4.98
UCW_MW-19	RMW-ISW2	8/6/2014	23.06	-5.06
UCW_MW-19	RMW-ISW2	8/7/2014	23.14	-5.14
UCW_MW-19	RMW-ISW2	8/8/2014	23.14	-5.14
UCW_MW-19	RMW-ISW2	8/9/2014	23.18	-5.18
UCW_MW-19	RMW-ISW2	8/10/2014	23.28	-5.28
UCW_MW-19	RMW-ISW2	8/11/2014	23.3	-5.3
UCW_MW-19	RMW-ISW2	8/12/2014	24.65	-6.65
UCW_MW-19	RMW-ISW2	8/13/2014	25.82	-7.82
UCW_MW-19	RMW-ISW2	8/14/2014	25.95	-7.95
UCW_MW-19	RMW-ISW2	8/15/2014	25.71	-7.71
UCW_MW-19	RMW-ISW2	8/16/2014	25.59	-7.59
UCW_MW-19	RMW-ISW2	8/17/2014	25.53	-7.53
UCW_MW-19	RMW-ISW2	8/18/2014	25.51	-7.51
UCW_MW-19	RMW-ISW2	8/19/2014	25.51	-7.51
UCW_MW-19	RMW-ISW2	8/20/2014	25.49	-7.49
UCW_MW-19	RMW-ISW2	8/21/2014	25.67	-7.67
UCW_MW-19	RMW-ISW2	8/22/2014	25.83	-7.83
UCW_MW-19	RMW-ISW2	8/23/2014	26.01	-8.01
UCW_MW-19	RMW-ISW2	8/24/2014	26.05	-8.05
UCW_MW-19	RMW-ISW2	8/25/2014	25.86	-7.86
UCW_MW-19	RMW-ISW2	8/26/2014	25.88	-7.88
UCW_MW-19	RMW-ISW2	8/27/2014	25.93	-7.93
UCW_MW-19	RMW-ISW2	8/28/2014	25.95	-7.95
UCW_MW-19	RMW-ISW2	8/29/2014	25.84	-7.84
UCW_MW-19	RMW-ISW2	8/30/2014	25.65	-7.65
UCW_MW-19	RMW-ISW2	8/31/2014	25.71	-7.71
UCW_MW-19	RMW-ISW2	9/1/2014	25.8	-7.8
UCW_MW-19	RMW-ISW2	9/2/2014	25.75	-7.75
UCW_MW-19	RMW-ISW2	9/3/2014	25.78	-7.78
UCW_MW-19	RMW-ISW2	9/4/2014	25.68	-7.68
UCW_MW-19	RMW-ISW2	9/5/2014	25.59	-7.59
UCW_MW-19	RMW-ISW2	9/6/2014	25.6	-7.6
UCW_MW-19	RMW-ISW2	9/7/2014	25.57	-7.57
UCW_MW-19	RMW-ISW2	9/8/2014	25.55	-7.55
UCW_MW-19	RMW-ISW2	9/9/2014	25.75	-7.75
UCW_MW-19	RMW-ISW2	9/10/2014	26.03	-8.03
UCW_MW-19	RMW-ISW2	9/11/2014	26.18	-8.18
UCW_MW-19	RMW-ISW2	9/12/2014	26.24	-8.24
UCW_MW-19	RMW-ISW2	9/13/2014	26.01	-8.01
UCW_MW-19	RMW-ISW2	9/14/2014	25.94	-7.94
UCW_MW-19	RMW-ISW2	9/15/2014	26.22	-8.22
UCW_MW-19	RMW-ISW2	9/16/2014	26.17	-8.17
UCW_MW-19	RMW-ISW2	9/17/2014	25.95	-7.95
UCW_MW-19	RMW-ISW2	9/18/2014	25.5	-7.5
UCW_MW-19	RMW-ISW2	9/19/2014	24.89	-6.89
UCW_MW-19	RMW-ISW2	9/20/2014	24.68	-6.68
UCW_MW-19	RMW-ISW2	9/21/2014	24.55	-6.55
UCW_MW-19	RMW-ISW2	9/22/2014	24.53	-6.53
UCW_MW-19	RMW-ISW2	9/23/2014	24.6	-6.6
UCW_MW-19	RMW-ISW2	12/11/2014	24.2	-6.2
UCW_MW-19	RMW-ISW2	12/12/2014	24.05	-6.05
UCW_MW-19	RMW-ISW2	12/13/2014	23.82	-5.82
UCW_MW-19	RMW-ISW2	12/14/2014	22.49	-4.49
UCW_MW-19	RMW-ISW2	12/15/2014	21.25	-3.25
UCW_MW-19	RMW-ISW2	12/16/2014	21	-3
UCW_MW-19	RMW-ISW2	12/17/2014	21.01	-3.01
UCW_MW-19	RMW-ISW2	12/18/2014	20.78	-2.78
UCW_MW-19	RMW-ISW2	12/19/2014	20.43	-2.43
UCW_MW-19	RMW-ISW2	12/20/2014	20.24	-2.24
UCW_MW-19	RMW-ISW2	12/21/2014	20.09	-2.09
UCW_MW-19	RMW-ISW2	12/22/2014	19.38	-1.38
UCW_MW-19	RMW-ISW2	12/23/2014	18.9	-0.9
UCW_MW-19	RMW-ISW2	12/24/2014	18.91	-0.91
UCW_MW-19	RMW-ISW2	12/25/2014	19.08	-1.08
UCW_MW-19	RMW-ISW2	12/26/2014	19.35	-1.35
UCW_MW-19	RMW-ISW2	12/27/2014	19.54	-1.54
UCW_MW-19	RMW-ISW2	12/28/2014	19.68	-1.68
UCW_MW-19	RMW-ISW2	12/29/2014	19.74	-1.74
UCW_MW-19	RMW-ISW2	12/30/2014	19.77	-1.77
UCW_MW-19	RMW-ISW2	12/31/2014	19.83	-1.83

UCW_MW-19	RMW-ISW2	1/1/2015	19.86	-1.86
UCW_MW-19	RMW-ISW2	1/2/2015	19.89	-1.89
UCW_MW-19	RMW-ISW2	1/3/2015	19.92	-1.92
UCW_MW-19	RMW-ISW2	1/4/2015	19.95	-1.95
UCW_MW-19	RMW-ISW2	1/5/2015	19.98	-1.98
UCW_MW-19	RMW-ISW2	1/6/2015	19.96	-1.96
UCW_MW-19	RMW-ISW2	1/7/2015	19.94	-1.94
UCW_MW-19	RMW-ISW2	1/8/2015	19.93	-1.93
UCW_MW-19	RMW-ISW2	1/9/2015	19.91	-1.91
UCW_MW-19	RMW-ISW2	1/10/2015	19.9	-1.9
UCW_MW-19	RMW-ISW2	1/11/2015	19.9	-1.9
UCW_MW-19	RMW-ISW2	1/12/2015	19.92	-1.92
UCW_MW-19	RMW-ISW2	1/13/2015	19.89	-1.89
UCW_MW-19	RMW-ISW2	1/14/2015	19.83	-1.83
UCW_MW-19	RMW-ISW2	1/15/2015	19.82	-1.82
UCW_MW-19	RMW-ISW2	1/16/2015	19.81	-1.81
UCW_MW-19	RMW-ISW2	1/17/2015	19.78	-1.78
UCW_MW-19	RMW-ISW2	1/18/2015	19.76	-1.76
UCW_MW-19	RMW-ISW2	1/19/2015	19.75	-1.75
UCW_MW-19	RMW-ISW2	1/20/2015	19.72	-1.72
UCW_MW-19	RMW-ISW2	1/21/2015	19.67	-1.67
UCW_MW-19	RMW-ISW2	1/22/2015	19.67	-1.67
UCW_MW-19	RMW-ISW2	1/23/2015	19.68	-1.68
UCW_MW-19	RMW-ISW2	1/24/2015	19.65	-1.65
UCW_MW-19	RMW-ISW2	1/25/2015	19.6	-1.6
UCW_MW-19	RMW-ISW2	1/26/2015	19.55	-1.55
UCW_MW-19	RMW-ISW2	1/27/2015	19.52	-1.52
UCW_MW-19	RMW-ISW2	1/28/2015	19.55	-1.55
UCW_MW-19	RMW-ISW2	1/29/2015	19.51	-1.51
UCW_MW-19	RMW-ISW2	1/30/2015	19.46	-1.46
UCW_MW-19	RMW-ISW2	1/31/2015	19.4	-1.4
UCW_MW-19	RMW-ISW2	2/1/2015	19.4	-1.4
UCW_MW-19	RMW-ISW2	2/2/2015	19.43	-1.43
UCW_MW-19	RMW-ISW2	2/3/2015	19.39	-1.39
UCW_MW-19	RMW-ISW2	2/4/2015	19.35	-1.35
UCW_MW-19	RMW-ISW2	2/5/2015	19.32	-1.32
UCW_MW-19	RMW-ISW2	2/6/2015	19.29	-1.29
UCW_MW-19	RMW-ISW2	2/7/2015	19.25	-1.25
UCW_MW-19	RMW-ISW2	2/8/2015	19.27	-1.27
UCW_MW-19	RMW-ISW2	2/9/2015	18.63	-0.63
UCW_MW-19	RMW-ISW2	2/10/2015	15.01	2.99
UCW_MW-19	RMW-ISW2	2/11/2015	10.9	7.1
UCW_MW-19	RMW-ISW2	2/12/2015	10.26	7.74
UCW_MW-19	RMW-ISW2	2/13/2015	10.53	7.47
UCW_MW-19	RMW-ISW2	2/14/2015	10.93	7.07
UCW_MW-19	RMW-ISW2	2/15/2015	11.25	6.75
UCW_MW-19	RMW-ISW2	2/16/2015	11.51	6.49
UCW_MW-19	RMW-ISW2	2/17/2015	11.77	6.23
UCW_MW-19	RMW-ISW2	2/18/2015	12.06	5.94
UCW_MW-19	RMW-ISW2	2/19/2015	12.3	5.7
UCW_MW-19	RMW-ISW2	2/20/2015	12.45	5.55
UCW_MW-19	RMW-ISW2	2/21/2015	12.55	5.45
UCW_MW-19	RMW-ISW2	2/22/2015	12.65	5.35
UCW_MW-19	RMW-ISW2	2/23/2015	12.76	5.24
UCW_MW-19	RMW-ISW2	2/24/2015	12.96	5.04
UCW_MW-19	RMW-ISW2	2/25/2015	13.14	4.86
UCW_MW-19	RMW-ISW2	2/26/2015	13.17	4.83
UCW_MW-19	RMW-ISW2	2/27/2015	13.17	4.83
UCW_MW-19	RMW-ISW2	2/28/2015	13.18	4.82
UCW_MW-19	RMW-ISW2	3/1/2015	13.28	4.72
UCW_MW-19	RMW-ISW2	3/2/2015	13.4	4.6
UCW_MW-19	RMW-ISW2	3/3/2015	13.42	4.58
UCW_MW-19	RMW-ISW2	3/4/2015	13.52	4.48
UCW_MW-19	RMW-ISW2	3/5/2015	13.52	4.48
UCW_MW-19	RMW-ISW2	3/6/2015	13.51	4.49
UCW_MW-19	RMW-ISW2	3/7/2015	13.5	4.5
UCW_MW-19	RMW-ISW2	3/8/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/9/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/10/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/11/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/12/2015	13.5	4.5
UCW_MW-19	RMW-ISW2	3/13/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/14/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/15/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/16/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/17/2015	13.49	4.51
UCW_MW-19	RMW-ISW2	3/18/2015	13.48	4.52
UCW_MW-19	RMW-ISW2	3/19/2015	13.47	4.53
UCW_MW-19	RMW-ISW2	3/20/2015	13.51	4.49

UCW_MW-19	RMW-ISW2	3/21/2015	13.59	4.41
UCW_MW-19	RMW-ISW2	3/22/2015	13.64	4.36
UCW_MW-19	RMW-ISW2	3/23/2015	13.69	4.31
UCW_MW-19	RMW-ISW2	3/24/2015	13.76	4.24
UCW_MW-19	RMW-ISW2	3/25/2015	13.78	4.22
UCW_MW-19	RMW-ISW2	3/26/2015	13.77	4.23
UCW_MW-19	RMW-ISW2	3/27/2015	13.76	4.24
UCW_MW-19	RMW-ISW2	3/28/2015	13.77	4.23
UCW_MW-19	RMW-ISW2	3/29/2015	13.83	4.17
UCW_MW-19	RMW-ISW2	3/30/2015	14	4
UCW_MW-19	RMW-ISW2	3/31/2015	14.08	3.92
UCW_MW-19	RMW-ISW2	4/1/2015	14.12	3.88
UCW_MW-19	RMW-ISW2	4/2/2015	14.03	3.97
UCW_MW-19	RMW-ISW2	4/3/2015	14.07	3.93
UCW_MW-19	RMW-ISW2	4/4/2015	14.13	3.87
UCW_MW-19	RMW-ISW2	4/5/2015	14.11	3.89
UCW_MW-19	RMW-ISW2	4/6/2015	14.11	3.89
UCW_MW-19	RMW-ISW2	4/7/2015	14.14	3.86
UCW_MW-19	RMW-ISW2	4/8/2015	14.14	3.86
UCW_MW-19	RMW-ISW2	4/9/2015	14.22	3.78
UCW_MW-19	RMW-ISW2	4/10/2015	14.11	3.89
UCW_MW-19	RMW-ISW2	4/11/2015	14.07	3.93
UCW_MW-19	RMW-ISW2	4/12/2015	14.06	3.94
UCW_MW-19	RMW-ISW2	4/13/2015	14.05	3.95
UCW_MW-19	RMW-ISW2	4/14/2015	14.07	3.93
UCW_MW-19	RMW-ISW2	4/15/2015	14.17	3.83
UCW_MW-19	RMW-ISW2	4/16/2015	14.09	3.91
UCW_MW-19	RMW-ISW2	4/17/2015	14.08	3.92
UCW_MW-19	RMW-ISW2	4/18/2015	14.12	3.88
UCW_MW-19	RMW-ISW2	4/19/2015	14.12	3.88
UCW_MW-19	RMW-ISW2	4/20/2015	14.11	3.89
UCW_MW-19	RMW-ISW2	4/21/2015	14.12	3.88
UCW_MW-19	RMW-ISW2	4/22/2015	14.16	3.84
UCW_MW-19	RMW-ISW2	4/23/2015	14.21	3.79
UCW_MW-19	RMW-ISW2	4/24/2015	14.27	3.73
UCW_MW-19	RMW-ISW2	4/25/2015	14.4	3.6
UCW_MW-19	RMW-ISW2	4/26/2015	14.47	3.53
UCW_MW-19	RMW-ISW2	4/27/2015	14.56	3.44
UCW_MW-19	RMW-ISW2	4/28/2015	14.4	3.6
UCW_MW-19	RMW-ISW2	4/29/2015	14.32	3.68
UCW_MW-19	RMW-ISW2	4/30/2015	14.26	3.74
UCW_MW-19	RMW-ISW2	5/1/2015	14.2	3.8
UCW_MW-19	RMW-ISW2	5/2/2015	14.2	3.8
UCW_MW-19	RMW-ISW2	5/3/2015	14.21	3.79
UCW_MW-19	RMW-ISW2	5/4/2015	14.23	3.77
UCW_MW-19	RMW-ISW2	5/5/2015	14.26	3.74
UCW_MW-19	RMW-ISW2	5/6/2015	14.25	3.75
UCW_MW-19	RMW-ISW2	5/7/2015	14.23	3.77
UCW_MW-19	RMW-ISW2	5/8/2015	14.23	3.77
UCW_MW-19	RMW-ISW2	5/9/2015	14.33	3.67
UCW_MW-19	RMW-ISW2	5/10/2015	14.45	3.55
UCW_MW-19	RMW-ISW2	5/11/2015	14.5	3.5
UCW_MW-19	RMW-ISW2	5/12/2015	14.47	3.53
UCW_MW-19	RMW-ISW2	5/13/2015	14.49	3.51
UCW_MW-19	RMW-ISW2	5/14/2015	14.52	3.48
UCW_MW-19	RMW-ISW2	5/15/2015	14.5	3.5
UCW_MW-19	RMW-ISW2	5/16/2015	14.57	3.43
UCW_MW-19	RMW-ISW2	5/17/2015	14.61	3.39
UCW_MW-19	RMW-ISW2	5/18/2015	14.64	3.36
UCW_MW-19	RMW-ISW2	5/19/2015	14.68	3.32
UCW_MW-19	RMW-ISW2	5/20/2015	14.72	3.28
UCW_MW-19	RMW-ISW2	5/21/2015	14.71	3.29
UCW_MW-19	RMW-ISW2	5/22/2015	14.74	3.26
UCW_MW-19	RMW-ISW2	5/23/2015	14.78	3.22
UCW_MW-19	RMW-ISW2	5/24/2015	14.8	3.2
UCW_MW-19	RMW-ISW2	5/25/2015	14.77	3.23
UCW_MW-19	RMW-ISW2	5/26/2015	14.81	3.19
UCW_MW-19	RMW-ISW2	5/27/2015	14.9	3.1
UCW_MW-19	RMW-ISW2	5/28/2015	15.01	2.99
UCW_MW-19	RMW-ISW2	5/29/2015	15.11	2.89
UCW_MW-19	RMW-ISW2	5/30/2015	15.2	2.8
UCW_MW-19	RMW-ISW2	5/31/2015	15.3	2.7
UCW_MW-19	RMW-ISW2	6/1/2015	15.42	2.58
UCW_MW-19	RMW-ISW2	6/2/2015	16.31	1.69
UCW_MW-19	RMW-ISW2	6/3/2015	16.94	1.06
UCW_MW-19	RMW-ISW2	6/4/2015	17.24	0.76
UCW_MW-19	RMW-ISW2	6/5/2015	17.48	0.52
UCW_MW-19	RMW-ISW2	6/6/2015	17.68	0.32
UCW_MW-19	RMW-ISW2	6/7/2015	17.87	0.13

UCW_MW-19	RMW-ISW2	6/8/2015	18.02	-0.02
UCW_MW-19	RMW-ISW2	6/9/2015	18.16	-0.16
UCW_MW-19	RMW-ISW2	6/10/2015	18.33	-0.33
UCW_MW-19	RMW-ISW2	6/11/2015	18.49	-0.49
UCW_MW-19	RMW-ISW2	6/12/2015	18.59	-0.59
UCW_MW-19	RMW-ISW2	6/13/2015	18.68	-0.68
UCW_MW-19	RMW-ISW2	6/14/2015	18.62	-0.62
UCW_MW-19	RMW-ISW2	6/15/2015	18.57	-0.57
UCW_MW-19	RMW-ISW2	6/16/2015	18.62	-0.62
UCW_MW-19	RMW-ISW2	6/17/2015	18.78	-0.78
UCW_MW-19	RMW-ISW2	6/18/2015	18.86	-0.86
UCW_MW-19	RMW-ISW2	6/19/2015	19	-1
UCW_MW-19	RMW-ISW2	6/20/2015	19.08	-1.08
UCW_MW-19	RMW-ISW2	6/21/2015	19.1	-1.1
UCW_MW-19	RMW-ISW2	6/22/2015	19.27	-1.27
UCW_MW-19	RMW-ISW2	6/23/2015	19.33	-1.33
UCW_MW-19	RMW-ISW2	6/24/2015	19.62	-1.62
UCW_MW-19	RMW-ISW2	6/25/2015	19.83	-1.83
UCW_MW-19	RMW-ISW2	6/26/2015	19.98	-1.98
UCW_MW-19	RMW-ISW2	6/27/2015	20.14	-2.14
UCW_MW-19	RMW-ISW2	6/28/2015	20.26	-2.26
UCW_MW-19	RMW-ISW2	6/29/2015	20.42	-2.42
UCW_MW-19	RMW-ISW2	6/30/2015	20.58	-2.58
UCW_MW-19	RMW-ISW2	7/1/2015	20.67	-2.67
UCW_MW-19	RMW-ISW2	7/2/2015	20.75	-2.75
UCW_MW-19	RMW-ISW2	7/3/2015	20.7	-2.7
UCW_MW-19	RMW-ISW2	7/4/2015	20.56	-2.56
UCW_MW-19	RMW-ISW2	7/5/2015	20.53	-2.53
UCW_MW-19	RMW-ISW2	7/6/2015	20.58	-2.58
UCW_MW-19	RMW-ISW2	7/7/2015	20.62	-2.62
UCW_MW-19	RMW-ISW2	7/8/2015	20.63	-2.63
UCW_MW-19	RMW-ISW2	7/9/2015	20.69	-2.69
UCW_MW-19	RMW-ISW2	7/10/2015	20.78	-2.78
UCW_MW-19	RMW-ISW2	7/11/2015	20.84	-2.84
UCW_MW-19	RMW-ISW2	7/12/2015	20.9	-2.9
UCW_MW-19	RMW-ISW2	7/13/2015	20.94	-2.94
UCW_MW-19	RMW-ISW2	7/14/2015	20.93	-2.93
UCW_MW-19	RMW-ISW2	7/15/2015	21.13	-3.13
UCW_MW-19	RMW-ISW2	7/16/2015	21.33	-3.33
UCW_MW-19	RMW-ISW2	7/17/2015	21.45	-3.45
UCW_MW-19	RMW-ISW2	7/18/2015	21.53	-3.53
UCW_MW-19	RMW-ISW2	7/19/2015	21.65	-3.65
UCW_MW-19	RMW-ISW2	7/20/2015	21.74	-3.74
UCW_MW-19	RMW-ISW2	7/21/2015	21.78	-3.78
UCW_MW-19	RMW-ISW2	7/22/2015	21.85	-3.85
UCW_MW-19	RMW-ISW2	7/23/2015	21.95	-3.95
UCW_MW-19	RMW-ISW2	7/24/2015	22.22	-4.22
UCW_MW-19	RMW-ISW2	7/25/2015	22.35	-4.35
UCW_MW-19	RMW-ISW2	7/26/2015	22.26	-4.26
UCW_MW-19	RMW-ISW2	7/27/2015	22.27	-4.27
UCW_MW-19	RMW-ISW2	7/28/2015	22.34	-4.34
UCW_MW-19	RMW-ISW2	7/29/2015	22.38	-4.38
UCW_MW-19	RMW-ISW2	7/30/2015	22.43	-4.43
UCW_MW-19	RMW-ISW2	7/31/2015	22.54	-4.54
UCW_MW-19	RMW-ISW2	8/1/2015	22.62	-4.62
UCW_MW-19	RMW-ISW2	8/2/2015	22.73	-4.73
UCW_MW-19	RMW-ISW2	8/3/2015	22.72	-4.72
UCW_MW-19	RMW-ISW2	8/4/2015	22.69	-4.69
UCW_MW-19	RMW-ISW2	8/5/2015	22.71	-4.71
UCW_MW-19	RMW-ISW2	8/6/2015	22.72	-4.72
UCW_MW-19	RMW-ISW2	8/7/2015	22.73	-4.73
UCW_MW-19	RMW-ISW2	8/8/2015	22.78	-4.78
UCW_MW-19	RMW-ISW2	8/9/2015	22.83	-4.83
UCW_MW-19	RMW-ISW2	8/10/2015	22.84	-4.84
UCW_MW-19	RMW-ISW2	8/11/2015	22.84	-4.84
UCW_MW-19	RMW-ISW2	8/12/2015	22.87	-4.87
UCW_MW-19	RMW-ISW2	8/13/2015	22.92	-4.92
UCW_MW-19	RMW-ISW2	8/14/2015	22.95	-4.95
UCW_MW-19	RMW-ISW2	8/15/2015	22.99	-4.99
UCW_MW-19	RMW-ISW2	8/16/2015	23.02	-5.02
UCW_MW-19	RMW-ISW2	8/17/2015	23.06	-5.06
UCW_MW-19	RMW-ISW2	8/18/2015	23.08	-5.08
UCW_MW-19	RMW-ISW2	8/19/2015	23.12	-5.12
UCW_MW-19	RMW-ISW2	8/20/2015	23.16	-5.16
UCW_MW-19	RMW-ISW2	8/21/2015	23.2	-5.2
UCW_MW-19	RMW-ISW2	8/22/2015	23.26	-5.26
UCW_MW-19	RMW-ISW2	8/23/2015	23.31	-5.31
UCW_MW-19	RMW-ISW2	8/24/2015	23.39	-5.39
UCW_MW-19	RMW-ISW2	8/25/2015	23.43	-5.43

UCW_MW-19	RMW-ISW2	8/26/2015	23.46	-5.46
UCW_MW-19	RMW-ISW2	8/27/2015	23.5	-5.5
UCW_MW-19	RMW-ISW2	8/28/2015	23.53	-5.53
UCW_MW-19	RMW-ISW2	8/29/2015	23.55	-5.55
UCW_MW-19	RMW-ISW2	8/30/2015	23.61	-5.61
UCW_MW-19	RMW-ISW2	8/31/2015	23.65	-5.65
UCW_MW-19	RMW-ISW2	9/1/2015	23.68	-5.68
UCW_MW-19	RMW-ISW2	9/2/2015	23.71	-5.71
UCW_MW-19	RMW-ISW2	9/3/2015	23.76	-5.76
UCW_MW-19	RMW-ISW2	9/4/2015	23.81	-5.81
UCW_MW-19	RMW-ISW2	9/5/2015	23.86	-5.86
UCW_MW-19	RMW-ISW2	9/6/2015	23.93	-5.93
UCW_MW-19	RMW-ISW2	9/7/2015	23.98	-5.98
UCW_MW-19	RMW-ISW2	9/8/2015	24.02	-6.02
UCW_MW-19	RMW-ISW2	9/9/2015	24.03	-6.03
UCW_MW-19	RMW-ISW2	9/10/2015	24.07	-6.07
UCW_MW-19	RMW-ISW2	9/11/2015	24.23	-6.23
UCW_MW-19	RMW-ISW2	9/12/2015	24.28	-6.28
UCW_MW-19	RMW-ISW2	9/13/2015	24.41	-6.41
UCW_MW-19	RMW-ISW2	9/14/2015	24.44	-6.44
UCW_MW-19	RMW-ISW2	9/15/2015	24.55	-6.55
UCW_MW-19	RMW-ISW2	9/16/2015	24.63	-6.63
UCW_MW-19	RMW-ISW2	9/17/2015	24.7	-6.7
UCW_MW-19	RMW-ISW2	9/18/2015	24.77	-6.77
UCW_MW-19	RMW-ISW2	9/19/2015	24.86	-6.86
UCW_MW-19	RMW-ISW2	9/20/2015	24.93	-6.93
UCW_MW-19	RMW-ISW2	9/21/2015	24.99	-6.99
UCW_MW-19	RMW-ISW2	9/22/2015	25.04	-7.04
UCW_MW-19	RMW-ISW2	9/23/2015	25.09	-7.09
UCW_MW-19	RMW-ISW2	9/24/2015	25.11	-7.11
UCW_MW-19	RMW-ISW2	9/25/2015	25.05	-7.05
UCW_MW-19	RMW-ISW2	9/26/2015	25.05	-7.05
UCW_MW-19	RMW-ISW2	9/27/2015	25.05	-7.05
UCW_MW-19	RMW-ISW2	9/28/2015	25.06	-7.06
UCW_MW-19	RMW-ISW2	9/29/2015	25.09	-7.09
UCW_MW-19	RMW-ISW2	9/30/2015	25.14	-7.14
UCW_MW-19	RMW-ISW2	10/1/2015	25.19	-7.19
UCW_MW-19	RMW-ISW2	10/2/2015	25.22	-7.22
UCW_MW-19	RMW-ISW2	10/3/2015	25.23	-7.23
UCW_MW-19	RMW-ISW2	10/4/2015	25.23	-7.23
UCW_MW-19	RMW-ISW2	10/5/2015	25.26	-7.26
UCW_MW-19	RMW-ISW2	10/6/2015	25.29	-7.29
UCW_MW-19	RMW-ISW2	10/7/2015	25.32	-7.32
UCW_MW-19	RMW-ISW2	10/8/2015	25.35	-7.35
UCW_MW-19	RMW-ISW2	10/9/2015	25.37	-7.37
UCW_MW-19	RMW-ISW2	10/10/2015	25.44	-7.44
UCW_MW-19	RMW-ISW2	10/11/2015	25.49	-7.49
UCW_MW-19	RMW-ISW2	10/12/2015	25.51	-7.51
UCW_MW-19	RMW-ISW2	10/13/2015	25.54	-7.54
UCW_MW-19	RMW-ISW2	10/14/2015	25.57	-7.57
UCW_MW-19	RMW-ISW2	10/15/2015	25.59	-7.59
UCW_MW-19	RMW-ISW2	10/16/2015	25.61	-7.61
UCW_MW-19	RMW-ISW2	10/17/2015	25.63	-7.63
UCW_MW-19	RMW-ISW2	10/18/2015	25.66	-7.66
UCW_MW-19	RMW-ISW2	10/19/2015	25.69	-7.69
UCW_MW-19	RMW-ISW2	10/20/2015	25.72	-7.72
UCW_MW-19	RMW-ISW2	10/21/2015	25.74	-7.74
UCW_MW-19	RMW-ISW2	10/22/2015	25.76	-7.76
UCW_MW-19	RMW-ISW2	10/23/2015	25.78	-7.78
UCW_MW-19	RMW-ISW2	10/24/2015	25.8	-7.8
UCW_MW-19	RMW-ISW2	10/25/2015	25.83	-7.83
UCW_MW-19	RMW-ISW2	10/26/2015	25.85	-7.85
UCW_MW-19	RMW-ISW2	10/27/2015	25.87	-7.87
UCW_MW-19	RMW-ISW2	10/28/2015	25.89	-7.89
UCW_MW-19	RMW-ISW2	10/29/2015	25.92	-7.92
UCW_MW-19	RMW-ISW2	10/30/2015	25.94	-7.94
UCW_MW-19	RMW-ISW2	10/31/2015	25.96	-7.96
UCW_MW-19	RMW-ISW2	11/1/2015	26	-8
UCW_MW-19	RMW-ISW2	11/2/2015	26.04	-8.04
UCW_MW-19	RMW-ISW2	11/3/2015	26.06	-8.06
UCW_MW-19	RMW-ISW2	11/4/2015	26.08	-8.08
UCW_MW-19	RMW-ISW2	11/5/2015	26.11	-8.11
UCW_MW-19	RMW-ISW2	11/6/2015	26.14	-8.14
UCW_MW-19	RMW-ISW2	11/7/2015	26.16	-8.16
UCW_MW-19	RMW-ISW2	11/8/2015	26.18	-8.18
UCW_MW-19	RMW-ISW2	11/9/2015	26.2	-8.2
UCW_MW-19	RMW-ISW2	11/10/2015	26.22	-8.22
UCW_MW-19	RMW-ISW2	11/11/2015	26.25	-8.25
UCW_MW-19	RMW-ISW2	11/12/2015	26.27	-8.27

UCW_MW-19	RMW-ISW2	11/13/2015	26.28	-8.28
UCW_MW-19	RMW-ISW2	11/14/2015	26.3	-8.3
UCW_MW-19	RMW-ISW2	11/15/2015	26.31	-8.31
UCW_MW-19	RMW-ISW2	11/16/2015	26.32	-8.32
UCW_MW-19	RMW-ISW2	11/17/2015	26.34	-8.34
UCW_MW-19	RMW-ISW2	11/18/2015	26.36	-8.36
UCW_MW-19	RMW-ISW2	11/19/2015	26.37	-8.37
UCW_MW-19	RMW-ISW2	11/20/2015	26.38	-8.38
UCW_MW-19	RMW-ISW2	11/21/2015	26.39	-8.39
UCW_MW-19	RMW-ISW2	11/22/2015	26.4	-8.4
UCW_MW-19	RMW-ISW2	11/23/2015	26.41	-8.41
UCW_MW-19	RMW-ISW2	11/24/2015	26.42	-8.42
UCW_MW-19	RMW-ISW2	11/25/2015	26.44	-8.44
UCW_MW-19	RMW-ISW2	11/26/2015	26.45	-8.45
UCW_MW-19	RMW-ISW2	11/27/2015	26.46	-8.46
UCW_MW-19	RMW-ISW2	11/28/2015	26.48	-8.48
UCW_MW-19	RMW-ISW2	11/29/2015	26.49	-8.49
UCW_MW-19	RMW-ISW2	11/30/2015	26.5	-8.5
UCW_MW-19	RMW-ISW2	12/1/2015	26.51	-8.51
UCW_MW-19	RMW-ISW2	12/2/2015	26.53	-8.53
UCW_MW-19	RMW-ISW2	12/3/2015	26.54	-8.54
UCW_MW-19	RMW-ISW2	12/4/2015	26.54	-8.54
UCW_MW-19	RMW-ISW2	12/5/2015	26.56	-8.56
UCW_MW-19	RMW-ISW2	12/6/2015	26.57	-8.57
UCW_MW-19	RMW-ISW2	12/7/2015	26.58	-8.58
UCW_MW-19	RMW-ISW2	12/8/2015	26.59	-8.59
UCW_MW-19	RMW-ISW2	12/9/2015	26.6	-8.6
UCW_MW-19	RMW-ISW2	12/10/2015	26.61	-8.61
UCW_MW-19	RMW-ISW2	12/11/2015	26.61	-8.61
UCW_MW-19	RMW-ISW2	12/12/2015	26.61	-8.61
UCW_MW-19	RMW-ISW2	12/13/2015	26.62	-8.62
UCW_MW-19	RMW-ISW2	12/14/2015	26.63	-8.63
UCW_MW-19	RMW-ISW2	12/15/2015	26.64	-8.64
UCW_MW-19	RMW-ISW2	12/16/2015	26.65	-8.65
UCW_MW-19	RMW-ISW2	12/17/2015	26.32	-8.32
UCW_MW-19	RMW-ISW2	12/18/2015	25.85	-7.85
UCW_MW-19	RMW-ISW2	12/19/2015	25.63	-7.63
UCW_MW-19	RMW-ISW2	12/20/2015	25.5	-7.5
UCW_MW-19	RMW-ISW2	12/21/2015	25.44	-7.44
UCW_MW-19	RMW-ISW2	12/22/2015	25.38	-7.38
UCW_MW-19	RMW-ISW2	12/23/2015	25.21	-7.21
UCW_MW-19	RMW-ISW2	12/24/2015	24.01	-6.01
UCW_MW-19	RMW-ISW2	12/25/2015	23.27	-5.27
UCW_MW-19	RMW-ISW2	12/26/2015	23.22	-5.22
UCW_MW-19	RMW-ISW2	12/27/2015	23.26	-5.26
UCW_MW-19	RMW-ISW2	12/28/2015	23.24	-5.24
UCW_MW-19	RMW-ISW2	12/29/2015	23.23	-5.23
UCW_MW-19	RMW-ISW2	12/30/2015	23.23	-5.23
UCW_MW-19	RMW-ISW2	12/31/2015	23.24	-5.24
UCW_MW-19	RMW-ISW2	1/1/2016	23.23	-5.23
UCW_MW-19	RMW-ISW2	1/2/2016	23.22	-5.22
UCW_MW-19	RMW-ISW2	1/3/2016	23.2	-5.2
UCW_MW-19	RMW-ISW2	1/4/2016	23.18	-5.18
UCW_MW-19	RMW-ISW2	1/5/2016	23.15	-5.15
UCW_MW-19	RMW-ISW2	1/6/2016	23.12	-5.12
UCW_MW-19	RMW-ISW2	1/7/2016	23.07	-5.07
UCW_MW-19	RMW-ISW2	1/8/2016	22.85	-4.85
UCW_MW-19	RMW-ISW2	1/9/2016	22.7	-4.7
UCW_MW-19	RMW-ISW2	1/10/2016	22.62	-4.62
UCW_MW-19	RMW-ISW2	1/11/2016	22.59	-4.59
UCW_MW-19	RMW-ISW2	1/12/2016	22.57	-4.57
UCW_MW-19	RMW-ISW2	1/13/2016	22.53	-4.53
UCW_MW-19	RMW-ISW2	1/16/2016	22.43	-4.43
UCW_MW-19	RMW-ISW2	1/17/2016	22.35	-4.35
UCW_MW-19	RMW-ISW2	1/18/2016	22.18	-4.18
UCW_MW-19	RMW-ISW2	1/19/2016	22	-4
UCW_MW-19	RMW-ISW2	1/20/2016	21.46	-3.46
UCW_MW-19	RMW-ISW2	1/21/2016	20.37	-2.37
UCW_MW-19	RMW-ISW2	1/22/2016	19.45	-1.45
UCW_MW-19	RMW-ISW2	1/23/2016	19.36	-1.36
UCW_MW-19	RMW-ISW2	1/24/2016	19.44	-1.44
UCW_MW-19	RMW-ISW2	1/25/2016	18.69	-0.69
UCW_MW-19	RMW-ISW2	1/26/2016	17.73	0.27
UCW_MW-19	RMW-ISW2	1/27/2016	17.66	0.34
UCW_MW-19	RMW-ISW2	1/28/2016	17.75	0.25
UCW_MW-19	RMW-ISW2	1/29/2016	17.93	0.07
UCW_MW-19	RMW-ISW2	1/30/2016	18.11	-0.11
UCW_MW-19	RMW-ISW2	1/31/2016	18.16	-0.16
UCW_MW-19	RMW-ISW2	2/1/2016	15.15	2.85

UCW_MW-19	RMW-ISW2	2/2/2016	13.56	4.44
UCW_MW-19	RMW-ISW2	2/3/2016	13.65	4.35
UCW_MW-19	RMW-ISW2	2/4/2016	14.04	3.96
UCW_MW-19	RMW-ISW2	2/5/2016	14.38	3.62
UCW_MW-19	RMW-ISW2	2/6/2016	14.63	3.37
UCW_MW-19	RMW-ISW2	2/7/2016	14.82	3.18
UCW_MW-19	RMW-ISW2	2/8/2016	14.98	3.02
UCW_MW-19	RMW-ISW2	2/9/2016	15.14	2.86
UCW_MW-19	RMW-ISW2	2/10/2016	15.23	2.77
UCW_MW-19	RMW-ISW2	2/11/2016	15.36	2.64
UCW_MW-19	RMW-ISW2	2/12/2016	15.45	2.55
UCW_MW-19	RMW-ISW2	2/13/2016	15.53	2.47
UCW_MW-19	RMW-ISW2	2/14/2016	15.6	2.4
UCW_MW-19	RMW-ISW2	2/15/2016	15.63	2.37
UCW_MW-19	RMW-ISW2	2/16/2016	15.64	2.36
UCW_MW-19	RMW-ISW2	2/17/2016	15.61	2.39
UCW_MW-19	RMW-ISW2	2/18/2016	15.55	2.45
UCW_MW-19	RMW-ISW2	2/19/2016	15.67	2.33
UCW_MW-19	RMW-ISW2	2/20/2016	15.57	2.43
UCW_MW-19	RMW-ISW2	2/21/2016	15.44	2.56
UCW_MW-19	RMW-ISW2	2/22/2016	15.36	2.64
UCW_MW-19	RMW-ISW2	2/23/2016	15.3	2.7
UCW_MW-19	RMW-ISW2	2/24/2016	15.24	2.76
UCW_MW-19	RMW-ISW2	2/25/2016	15.24	2.76
UCW_MW-19	RMW-ISW2	2/26/2016	15.23	2.77
UCW_MW-19	RMW-ISW2	2/27/2016	15.22	2.78
UCW_MW-19	RMW-ISW2	2/28/2016	15.24	2.76
UCW_MW-19	RMW-ISW2	2/29/2016	15.23	2.77
UCW_MW-19	RMW-ISW2	3/1/2016	15.22	2.78
UCW_MW-19	RMW-ISW2	3/2/2016	15.2	2.8
UCW_MW-19	RMW-ISW2	3/3/2016	15.19	2.81
UCW_MW-19	RMW-ISW2	3/4/2016	15.21	2.79
UCW_MW-19	RMW-ISW2	3/5/2016	15.18	2.82
UCW_MW-19	RMW-ISW2	3/6/2016	15.1	2.9
UCW_MW-19	RMW-ISW2	3/7/2016	14.1	3.9
UCW_MW-19	RMW-ISW2	3/8/2016	7.25	10.75
UCW_MW-19	RMW-ISW2	3/9/2016	3.48	14.52
UCW_MW-19	RMW-ISW2	3/10/2016	2.3	15.7
UCW_MW-19	RMW-ISW2	3/11/2016	2.28	15.72
UCW_MW-19	RMW-ISW2	3/12/2016	2.19	15.81
UCW_MW-19	RMW-ISW2	3/13/2016	1.71	16.29
UCW_MW-19	RMW-ISW2	3/14/2016	0.34	17.66
UCW_MW-19	RMW-ISW2	3/15/2016	-0.77	18.77
UCW_MW-19	RMW-ISW2	3/16/2016	-1.66	19.66
UCW_MW-19	RMW-ISW2	3/17/2016	-1.49	19.49
UCW_MW-19	RMW-ISW2	3/18/2016	-0.78	18.78
UCW_MW-19	RMW-ISW2	3/19/2016	-0.31	18.31
UCW_MW-19	RMW-ISW2	3/20/2016	-0.04	18.04
UCW_MW-19	RMW-ISW2	3/21/2016	0.21	17.79
UCW_MW-19	RMW-ISW2	3/22/2016	0.4	17.6
UCW_MW-19	RMW-ISW2	3/23/2016	0.53	17.47
UCW_MW-19	RMW-ISW2	3/24/2016	0.51	17.49
UCW_MW-19	RMW-ISW2	3/25/2016	0.66	17.34
UCW_MW-19	RMW-ISW2	3/26/2016	0.81	17.19
UCW_MW-19	RMW-ISW2	3/27/2016	1.03	16.97
UCW_MW-19	RMW-ISW2	3/28/2016	1.3	16.7
UCW_MW-19	RMW-ISW2	3/29/2016	1.45	16.55
UCW_MW-19	RMW-ISW2	3/30/2016	1.67	16.33
UCW_MW-19	RMW-ISW2	3/31/2016	1.96	16.04
UCW_MW-19	RMW-ISW2	4/1/2016	2.24	15.76
UCW_MW-19	RMW-ISW2	4/2/2016	2.46	15.54
UCW_MW-19	RMW-ISW2	4/3/2016	2.65	15.35
UCW_MW-19	RMW-ISW2	4/4/2016	2.8	15.2
UCW_MW-19	RMW-ISW2	4/5/2016	3.06	14.94
UCW_MW-19	RMW-ISW2	4/6/2016	3.25	14.75
UCW_MW-19	RMW-ISW2	4/7/2016	3.41	14.59
UCW_MW-19	RMW-ISW2	4/8/2016	3.54	14.46
UCW_MW-19	RMW-ISW2	4/9/2016	3.76	14.24
UCW_MW-19	RMW-ISW2	4/10/2016	3.99	14.01
UCW_MW-19	RMW-ISW2	4/11/2016	4.12	13.88
UCW_MW-19	RMW-ISW2	4/12/2016	4.31	13.69
UCW_MW-19	RMW-ISW2	4/13/2016	4.48	13.52
UCW_MW-19	RMW-ISW2	4/14/2016	4.57	13.43
UCW_MW-19	RMW-ISW2	4/15/2016	4.68	13.32
UCW_MW-19	RMW-ISW2	4/16/2016	4.86	13.14
UCW_MW-19	RMW-ISW2	4/17/2016	5.03	12.97
UCW_MW-19	RMW-ISW2	4/18/2016	5.21	12.79
UCW_MW-19	RMW-ISW2	4/19/2016	5.43	12.57
UCW_MW-19	RMW-ISW2	4/20/2016	5.6	12.4

UCW_MW-19	RMW-ISW2	4/21/2016	5.8	12.2
UCW_MW-19	RMW-ISW2	4/22/2016	5.98	12.02
UCW_MW-19	RMW-ISW2	4/23/2016	6.15	11.85
UCW_MW-19	RMW-ISW2	4/24/2016	6.43	11.57
UCW_MW-19	RMW-ISW2	4/25/2016	6.37	11.63
UCW_MW-19	RMW-ISW2	4/26/2016	6.46	11.54
UCW_MW-19	RMW-ISW2	4/27/2016	6.64	11.36
UCW_MW-19	RMW-ISW2	4/28/2016	6.72	11.28
UCW_MW-19	RMW-ISW2	4/29/2016	6.83	11.17
UCW_MW-19	RMW-ISW2	4/30/2016	7.03	10.97
UCW_MW-19	RMW-ISW2	5/1/2016	7.12	10.88
UCW_MW-19	RMW-ISW2	5/2/2016	7.26	10.74
UCW_MW-19	RMW-ISW2	5/3/2016	7.5	10.5
UCW_MW-19	RMW-ISW2	5/4/2016	7.6	10.4
UCW_MW-19	RMW-ISW2	5/5/2016	7.67	10.33
UCW_MW-19	RMW-ISW2	5/6/2016	7.83	10.17
UCW_MW-19	RMW-ISW2	5/7/2016	7.94	10.06
UCW_MW-19	RMW-ISW2	5/8/2016	8.07	9.93
UCW_MW-19	RMW-ISW2	5/9/2016	8.14	9.86
UCW_MW-19	RMW-ISW2	5/10/2016	8.21	9.79
UCW_MW-19	RMW-ISW2	5/11/2016	8.31	9.69
UCW_MW-19	RMW-ISW2	5/12/2016	8.45	9.55
UCW_MW-19	RMW-ISW2	5/13/2016	8.62	9.38
UCW_MW-19	RMW-ISW2	5/14/2016	8.87	9.13
UCW_MW-19	RMW-ISW2	5/15/2016	9.1	8.9
UCW_MW-19	RMW-ISW2	5/16/2016	9.31	8.69
UCW_MW-19	RMW-ISW2	5/17/2016	9.52	8.48
UCW_MW-19	RMW-ISW2	5/18/2016	9.7	8.3
UCW_MW-19	RMW-ISW2	5/19/2016	9.75	8.25
UCW_MW-19	RMW-ISW2	5/20/2016	9.8	8.2
UCW_MW-19	RMW-ISW2	5/21/2016	10	8
UCW_MW-19	RMW-ISW2	5/22/2016	10.12	7.88
UCW_MW-19	RMW-ISW2	5/23/2016	10.11	7.89
UCW_MW-19	RMW-ISW2	5/24/2016	10.03	7.97
UCW_MW-19	RMW-ISW2	5/25/2016	10.09	7.91
UCW_MW-19	RMW-ISW2	5/26/2016	10.19	7.81
UCW_MW-19	RMW-ISW2	5/27/2016	10.3	7.7
UCW_MW-19	RMW-ISW2	5/28/2016	10.37	7.63
UCW_MW-19	RMW-ISW2	5/29/2016	10.45	7.55
UCW_MW-19	RMW-ISW2	5/30/2016	10.46	7.54
UCW_MW-19	RMW-ISW2	5/31/2016	10.56	7.44
UCW_MW-19	RMW-ISW2	6/1/2016	10.81	7.19
UCW_MW-19	RMW-ISW2	6/2/2016	10.95	7.05
UCW_MW-19	RMW-ISW2	6/3/2016	11.09	6.91
UCW_MW-19	RMW-ISW2	6/4/2016	11.2	6.8
UCW_MW-19	RMW-ISW2	6/5/2016	11.36	6.64
UCW_MW-19	RMW-ISW2	6/6/2016	11.63	6.37
UCW_MW-19	RMW-ISW2	6/7/2016	11.81	6.19
UCW_MW-19	RMW-ISW2	6/8/2016	11.97	6.03
UCW_MW-19	RMW-ISW2	6/9/2016	11.97	6.03
UCW_MW-19	RMW-ISW2	6/10/2016	12.02	5.98
UCW_MW-19	RMW-ISW2	6/11/2016	12.12	5.88
UCW_MW-19	RMW-ISW2	6/12/2016	12.13	5.87
UCW_MW-19	RMW-ISW2	6/13/2016	12.18	5.82
UCW_MW-19	RMW-ISW2	6/14/2016	12.3	5.7
UCW_MW-19	RMW-ISW2	6/15/2016	12.4	5.6
UCW_MW-19	RMW-ISW2	6/16/2016	12.54	5.46
UCW_MW-19	RMW-ISW2	6/17/2016	12.71	5.29
UCW_MW-19	RMW-ISW2	6/18/2016	12.74	5.26
UCW_MW-19	RMW-ISW2	6/19/2016	12.81	5.19
UCW_MW-19	RMW-ISW2	6/20/2016	12.83	5.17
UCW_MW-19	RMW-ISW2	6/21/2016	12.89	5.11
UCW_MW-19	RMW-ISW2	6/22/2016	13.13	4.87
UCW_MW-19	RMW-ISW2	6/23/2016	13.32	4.68
UCW_MW-19	RMW-ISW2	6/24/2016	13.53	4.47
UCW_MW-19	RMW-ISW2	6/25/2016	13.71	4.29
UCW_MW-19	RMW-ISW2	6/26/2016	13.86	4.14
UCW_MW-19	RMW-ISW2	6/27/2016	14.06	3.94
UCW_MW-19	RMW-ISW2	6/28/2016	14.27	3.73
UCW_MW-19	RMW-ISW2	6/29/2016	14.49	3.51
UCW_MW-19	RMW-ISW2	6/30/2016	14.69	3.31
UCW_MW-19	RMW-ISW2	7/1/2016	14.85	3.15
UCW_MW-19	RMW-ISW2	7/2/2016	14.87	3.13
UCW_MW-19	RMW-ISW2	7/3/2016	14.93	3.07
UCW_MW-19	RMW-ISW2	7/4/2016	15.09	2.91
UCW_MW-19	RMW-ISW2	7/5/2016	15.25	2.75
UCW_MW-19	RMW-ISW2	7/6/2016	15.36	2.64
UCW_MW-19	RMW-ISW2	7/7/2016	15.55	2.45
UCW_MW-19	RMW-ISW2	7/8/2016	15.87	2.13

UCW_MW-19	RMW-ISW2	7/9/2016	16.12	1.88
UCW_MW-19	RMW-ISW2	7/10/2016	16.26	1.74
UCW_MW-19	RMW-ISW2	7/11/2016	16.32	1.68
UCW_MW-19	RMW-ISW2	7/12/2016	16.42	1.58
UCW_MW-19	RMW-ISW2	7/13/2016	16.45	1.55
UCW_MW-19	RMW-ISW2	7/14/2016	16.85	1.15
UCW_MW-19	RMW-ISW2	7/15/2016	17.23	0.77
UCW_MW-19	RMW-ISW2	7/16/2016	17.37	0.63
UCW_MW-19	RMW-ISW2	7/17/2016	17.52	0.48
UCW_MW-19	RMW-ISW2	7/18/2016	17.79	0.21
UCW_MW-19	RMW-ISW2	7/19/2016	17.99	0.01
UCW_MW-19	RMW-ISW2	7/20/2016	18.17	-0.17
UCW_MW-19	RMW-ISW2	7/21/2016	18.31	-0.31
UCW_MW-19	RMW-ISW2	7/22/2016	18.43	-0.43
UCW_MW-19	RMW-ISW2	7/23/2016	18.48	-0.48
UCW_MW-19	RMW-ISW2	7/24/2016	18.36	-0.36
UCW_MW-19	RMW-ISW2	7/25/2016	18.35	-0.35
UCW_MW-19	RMW-ISW2	7/26/2016	18.32	-0.32
UCW_MW-19	RMW-ISW2	7/27/2016	18.29	-0.29
UCW_MW-19	RMW-ISW2	7/28/2016	18.34	-0.34
UCW_MW-19	RMW-ISW2	7/29/2016	18.41	-0.41
UCW_MW-19	RMW-ISW2	7/30/2016	18.62	-0.62
UCW_MW-19	RMW-ISW2	7/31/2016	18.81	-0.81
UCW_MW-19	RMW-ISW2	8/1/2016	18.97	-0.97
UCW_MW-19	RMW-ISW2	8/2/2016	18.98	-0.98
UCW_MW-19	RMW-ISW2	8/3/2016	18.97	-0.97
UCW_MW-19	RMW-ISW2	8/4/2016	19	-1
UCW_MW-19	RMW-ISW2	8/5/2016	19.07	-1.07
UCW_MW-19	RMW-ISW2	8/6/2016	19.14	-1.14
UCW_MW-19	RMW-ISW2	8/7/2016	19.21	-1.21
UCW_MW-19	RMW-ISW2	8/8/2016	19.32	-1.32
UCW_MW-19	RMW-ISW2	8/9/2016	19.4	-1.4
UCW_MW-19	RMW-ISW2	8/10/2016	19.6	-1.6
UCW_MW-19	RMW-ISW2	8/11/2016	19.74	-1.74
UCW_MW-19	RMW-ISW2	8/12/2016	19.98	-1.98
UCW_MW-19	RMW-ISW2	8/13/2016	20.16	-2.16
UCW_MW-19	RMW-ISW2	8/14/2016	20.27	-2.27
UCW_MW-19	RMW-ISW2	8/15/2016	20.37	-2.37
UCW_MW-19	RMW-ISW2	8/16/2016	20.4	-2.4
UCW_MW-19	RMW-ISW2	8/17/2016	20.55	-2.55
UCW_MW-19	RMW-ISW2	8/18/2016	20.55	-2.55
UCW_MW-19	RMW-ISW2	8/19/2016	20.63	-2.63
UCW_MW-19	RMW-ISW2	8/20/2016	20.66	-2.66
UCW_MW-19	RMW-ISW2	8/21/2016	20.55	-2.55
UCW_MW-19	RMW-ISW2	8/22/2016	20.53	-2.53
UCW_MW-19	RMW-ISW2	8/23/2016	20.54	-2.54
UCW_MW-19	RMW-ISW2	8/24/2016	20.72	-2.72
UCW_MW-19	RMW-ISW2	8/25/2016	20.78	-2.78
UCW_MW-19	RMW-ISW2	8/26/2016	20.83	-2.83
UCW_MW-19	RMW-ISW2	8/27/2016	20.95	-2.95
UCW_MW-19	RMW-ISW2	8/28/2016	21.03	-3.03
UCW_MW-19	RMW-ISW2	8/29/2016	21.02	-3.02
UCW_MW-19	RMW-ISW2	8/30/2016	21.17	-3.17
UCW_MW-19	RMW-ISW2	8/31/2016	21.25	-3.25
UCW_MW-19	RMW-ISW2	9/1/2016	21.22	-3.22
UCW_MW-19	RMW-ISW2	9/2/2016	21.18	-3.18
UCW_MW-19	RMW-ISW2	9/3/2016	21.16	-3.16
UCW_MW-19	RMW-ISW2	9/4/2016	21.17	-3.17
UCW_MW-19	RMW-ISW2	9/5/2016	21.21	-3.21
UCW_MW-19	RMW-ISW2	9/6/2016	21.25	-3.25
UCW_MW-19	RMW-ISW2	9/7/2016	21.29	-3.29
UCW_MW-19	RMW-ISW2	9/8/2016	21.34	-3.34
UCW_MW-19	RMW-ISW2	9/9/2016	21.39	-3.39
UCW_MW-19	RMW-ISW2	9/10/2016	21.42	-3.42
UCW_MW-19	RMW-ISW2	9/11/2016	21.46	-3.46
UCW_MW-19	RMW-ISW2	9/12/2016	21.49	-3.49
UCW_MW-19	RMW-ISW2	9/13/2016	21.49	-3.49
UCW_MW-19	RMW-ISW2	9/14/2016	21.53	-3.53
UCW_MW-19	RMW-ISW2	9/15/2016	21.59	-3.59
UCW_MW-19	RMW-ISW2	9/16/2016	21.63	-3.63
UCW_MW-19	RMW-ISW2	9/17/2016	21.67	-3.67
UCW_MW-19	RMW-ISW2	9/18/2016	21.71	-3.71
UCW_MW-19	RMW-ISW2	9/19/2016	21.73	-3.73
UCW_MW-19	RMW-ISW2	9/20/2016	21.74	-3.74
UCW_MW-19	RMW-ISW2	9/21/2016	21.77	-3.77
UCW_MW-19	RMW-ISW2	9/22/2016	21.81	-3.81
UCW_MW-19	RMW-ISW2	9/23/2016	21.87	-3.87
UCW_MW-19	RMW-ISW2	9/24/2016	21.91	-3.91
UCW_MW-19	RMW-ISW2	9/25/2016	21.94	-3.94

UCW_MW-19	RMW-ISW2	9/26/2016	21.95	-3.95
UCW_MW-19	RMW-ISW2	9/27/2016	21.96	-3.96
UCW_MW-19	RMW-ISW2	9/28/2016	21.98	-3.98
UCW_MW-19	RMW-ISW2	9/29/2016	22.02	-4.02
UCW_MW-19	RMW-ISW2	9/30/2016	22.07	-4.07
UCW_MW-19	RMW-ISW2	10/1/2016	22.11	-4.11
UCW_MW-19	RMW-ISW2	10/2/2016	22.14	-4.14
UCW_MW-19	RMW-ISW2	10/3/2016	22.17	-4.17
UCW_MW-19	RMW-ISW2	10/4/2016	22.21	-4.21
UCW_MW-19	RMW-ISW2	10/5/2016	22.23	-4.23
UCW_MW-19	RMW-ISW2	10/6/2016	22.26	-4.26
UCW_MW-19	RMW-ISW2	10/7/2016	22.28	-4.28
UCW_MW-19	RMW-ISW2	10/8/2016	22.31	-4.31
UCW_MW-19	RMW-ISW2	10/9/2016	22.33	-4.33
UCW_MW-19	RMW-ISW2	10/10/2016	22.36	-4.36
UCW_MW-19	RMW-ISW2	10/11/2016	22.39	-4.39
UCW_MW-19	RMW-ISW2	10/12/2016	22.43	-4.43
UCW_MW-19	RMW-ISW2	10/13/2016	22.46	-4.46
UCW_MW-19	RMW-ISW2	10/14/2016	22.48	-4.48
UCW_MW-19	RMW-ISW2	10/15/2016	22.51	-4.51
UCW_MW-19	RMW-ISW2	10/16/2016	22.53	-4.53
UCW_MW-19	RMW-ISW2	10/17/2016	22.55	-4.55
UCW_MW-19	RMW-ISW2	10/18/2016	22.61	-4.61
UCW_MW-19	RMW-ISW2	10/19/2016	22.13	-4.13
UCW_MW-19	RMW-ISW2	10/20/2016	21.61	-3.61
UCW_MW-19	RMW-ISW2	10/21/2016	21.38	-3.38
UCW_MW-19	RMW-ISW2	10/22/2016	21.22	-3.22
UCW_MW-19	RMW-ISW2	10/23/2016	21.12	-3.12
UCW_MW-19	RMW-ISW2	10/24/2016	21.05	-3.05
UCW_MW-19	RMW-ISW2	10/25/2016	21.01	-3.01
UCW_MW-19	RMW-ISW2	10/26/2016	21	-3
UCW_MW-19	RMW-ISW2	10/27/2016	21	-3
UCW_MW-19	RMW-ISW2	10/28/2016	20.95	-2.95
UCW_MW-19	RMW-ISW2	10/29/2016	20.78	-2.78
UCW_MW-19	RMW-ISW2	10/30/2016	20.65	-2.65
UCW_MW-19	RMW-ISW2	10/31/2016	20.46	-2.46
UCW_MW-19	RMW-ISW2	11/1/2016	20.35	-2.35
UCW_MW-19	RMW-ISW2	11/2/2016	20.11	-2.11
UCW_MW-19	RMW-ISW2	11/3/2016	19.95	-1.95
UCW_MW-19	RMW-ISW2	11/4/2016	19.81	-1.81
UCW_MW-19	RMW-ISW2	11/5/2016	19.72	-1.72
UCW_MW-19	RMW-ISW2	11/6/2016	19.65	-1.65
UCW_MW-19	RMW-ISW2	11/7/2016	19.62	-1.62
UCW_MW-19	RMW-ISW2	11/8/2016	19.6	-1.6
UCW_MW-19	RMW-ISW2	11/9/2016	19.57	-1.57
UCW_MW-19	RMW-ISW2	11/10/2016	19.54	-1.54
UCW_MW-19	RMW-ISW2	11/11/2016	19.52	-1.52
UCW_MW-19	RMW-ISW2	11/12/2016	19.51	-1.51
UCW_MW-19	RMW-ISW2	11/13/2016	19.51	-1.51
UCW_MW-19	RMW-ISW2	11/14/2016	19.5	-1.5
UCW_MW-19	RMW-ISW2	11/15/2016	19.47	-1.47
UCW_MW-19	RMW-ISW2	11/16/2016	19.44	-1.44
UCW_MW-19	RMW-ISW2	11/17/2016	19.43	-1.43
UCW_MW-19	RMW-ISW2	11/18/2016	19.43	-1.43
UCW_MW-19	RMW-ISW2	11/19/2016	19.38	-1.38
UCW_MW-19	RMW-ISW2	11/20/2016	19.35	-1.35
UCW_MW-19	RMW-ISW2	11/21/2016	19.34	-1.34
UCW_MW-19	RMW-ISW2	11/22/2016	19.26	-1.26
UCW_MW-19	RMW-ISW2	11/23/2016	19.11	-1.11
UCW_MW-19	RMW-ISW2	11/24/2016	19.05	-1.05
UCW_MW-19	RMW-ISW2	11/25/2016	18.99	-0.99
UCW_MW-19	RMW-ISW2	11/26/2016	18.91	-0.91
UCW_MW-19	RMW-ISW2	11/27/2016	18.86	-0.86
UCW_MW-19	RMW-ISW2	11/28/2016	18.87	-0.87
UCW_MW-19	RMW-ISW2	11/29/2016	18.46	-0.46
UCW_MW-19	RMW-ISW2	11/30/2016	18.2	-0.2
UCW_MW-19	RMW-ISW2	12/1/2016	18.11	-0.11
UCW_MW-19	RMW-ISW2	12/2/2016	18.06	-0.06
UCW_MW-19	RMW-ISW2	12/3/2016	18.06	-0.06
UCW_MW-19	RMW-ISW2	12/4/2016	18.04	-0.04
UCW_MW-19	RMW-ISW2	12/5/2016	18	0
UCW_MW-19	RMW-ISW2	12/6/2016	17.98	0.02
UCW_MW-19	RMW-ISW2	12/7/2016	18	0
UCW_MW-19	RMW-ISW2	12/8/2016	18.04	-0.04
UCW_MW-19	RMW-ISW2	12/9/2016	18.03	-0.03
UCW_MW-19	RMW-ISW2	12/10/2016	18.04	-0.04
UCW_MW-19	RMW-ISW2	12/11/2016	17.98	0.02
UCW_MW-19	RMW-ISW2	12/12/2016	17	1
UCW_MW-19	RMW-ISW2	12/13/2016	13.43	4.57

UCW_MW-19	RMW-ISW2	12/14/2016	12.23	5.77
UCW_MW-19	RMW-ISW2	12/15/2016	12.13	5.87
UCW_MW-19	RMW-ISW2	12/16/2016	12.21	5.79
UCW_MW-19	RMW-ISW2	12/17/2016	11.15	6.85
UCW_MW-19	RMW-ISW2	12/18/2016	7.19	10.81
UCW_MW-19	RMW-ISW2	12/19/2016	5.41	12.59
UCW_MW-19	RMW-ISW2	12/20/2016	5	13
UCW_MW-19	RMW-ISW2	12/21/2016	5.17	12.83
UCW_MW-19	RMW-ISW2	12/22/2016	5.62	12.38
UCW_MW-19	RMW-ISW2	12/23/2016	6.1	11.9
UCW_MW-19	RMW-ISW2	12/24/2016	6.41	11.59
UCW_MW-19	RMW-ISW2	12/25/2016	6.61	11.39
UCW_MW-19	RMW-ISW2	12/26/2016	6.91	11.09
UCW_MW-19	RMW-ISW2	12/27/2016	7.21	10.79
UCW_MW-19	RMW-ISW2	12/28/2016	7.42	10.58
UCW_MW-19	RMW-ISW2	12/29/2016	7.58	10.42
UCW_MW-19	RMW-ISW2	12/30/2016	7.75	10.25
UCW_MW-19	RMW-ISW2	12/31/2016	7.85	10.15
UCW_MW-19	RMW-ISW2	1/1/2017	8.03	9.97
UCW_MW-19	RMW-ISW2	1/2/2017	8.22	9.78
UCW_MW-19	RMW-ISW2	1/3/2017	8.45	9.55
UCW_MW-19	RMW-ISW2	1/4/2017	8.58	9.42
UCW_MW-19	RMW-ISW2	1/5/2017	8.49	9.51
UCW_MW-19	RMW-ISW2	1/6/2017	5	13
UCW_MW-19	RMW-ISW2	1/7/2017	0.68	17.32
UCW_MW-19	RMW-ISW2	1/8/2017	-0.01	18.01
UCW_MW-19	RMW-ISW2	1/9/2017	-0.09	18.09
UCW_MW-19	RMW-ISW2	1/10/2017	-1.89	19.89
UCW_MW-19	RMW-ISW2	1/11/2017	-4.25	22.25
UCW_MW-19	RMW-ISW2	1/12/2017	-5.23	23.23
UCW_MW-19	RMW-ISW2	1/13/2017	-4.95	22.95
UCW_MW-19	RMW-ISW2	1/14/2017	-3.49	21.49
UCW_MW-19	RMW-ISW2	1/15/2017	-2.75	20.75
UCW_MW-19	RMW-ISW2	1/16/2017	-2.14	20.14
UCW_MW-19	RMW-ISW2	1/17/2017	-1.63	19.63
UCW_MW-19	RMW-ISW2	1/18/2017	-1.3	19.3
UCW_MW-19	RMW-ISW2	1/19/2017	-1.17	19.17
UCW_MW-19	RMW-ISW2	1/20/2017	-1.35	19.35
UCW_MW-19	RMW-ISW2	1/21/2017	-2.56	20.56
UCW_MW-19	RMW-ISW2	1/22/2017	-3.05	21.05
UCW_MW-19	RMW-ISW2	1/23/2017	-3.23	21.23
UCW_MW-19	RMW-ISW2	1/24/2017	-3.31	21.31
UCW_MW-19	RMW-ISW2	1/25/2017	-3.53	21.53
UCW_MW-19	RMW-ISW2	1/26/2017	-2.95	20.95
UCW_MW-19	RMW-ISW2	1/27/2017	-2.24	20.24
UCW_MW-19	RMW-ISW2	1/28/2017	-1.78	19.78
UCW_MW-19	RMW-ISW2	1/29/2017	-1.55	19.55
UCW_MW-19	RMW-ISW2	1/30/2017	-1.41	19.41
UCW_MW-19	RMW-ISW2	1/31/2017	-1.31	19.31
UCW_MW-19	RMW-ISW2	2/1/2017	-1.16	19.16
UCW_MW-19	RMW-ISW2	2/2/2017	-1.05	19.05
UCW_MW-19	RMW-ISW2	2/3/2017	-0.91	18.91
UCW_MW-19	RMW-ISW2	2/4/2017	-0.92	18.92
UCW_MW-19	RMW-ISW2	2/5/2017	-1.15	19.15
UCW_MW-19	RMW-ISW2	2/6/2017	-1.81	19.81
UCW_MW-19	RMW-ISW2	2/7/2017	-1.87	19.87
UCW_MW-19	RMW-ISW2	2/8/2017	-2.65	20.65
UCW_MW-19	RMW-ISW2	2/9/2017	-4.37	22.37
UCW_MW-19	RMW-ISW2	2/10/2017	-5.35	23.35
UCW_MW-19	RMW-ISW2	2/11/2017	-5.77	23.77
UCW_MW-19	RMW-ISW2	2/12/2017	-6.56	24.56
UCW_MW-19	RMW-ISW2	2/13/2017	-5.11	23.11
UCW_MW-19	RMW-ISW2	2/14/2017	-4.13	22.13
UCW_MW-19	RMW-ISW2	2/15/2017	-3.55	21.55
UCW_MW-19	RMW-ISW2	2/16/2017	-3	21
UCW_MW-19	RMW-ISW2	2/17/2017	-2.6	20.6
UCW_MW-19	RMW-ISW2	2/18/2017	-2.55	20.55
UCW_MW-19	RMW-ISW2	2/19/2017	-2.22	20.22
UCW_MW-19	RMW-ISW2	2/20/2017	-2.08	20.08
UCW_MW-19	RMW-ISW2	2/21/2017	-2.1	20.1
UCW_MW-19	RMW-ISW2	2/22/2017	-3.55	21.55
UCW_MW-19	RMW-ISW2	2/23/2017	-5.19	23.19
UCW_MW-19	RMW-ISW2	2/24/2017	-4.4	22.4
UCW_MW-19	RMW-ISW2	2/25/2017	-3.76	21.76
UCW_MW-19	RMW-ISW2	2/26/2017	-3.26	21.26
UCW_MW-19	RMW-ISW2	2/27/2017	-2.79	20.79
UCW_MW-19	RMW-ISW2	2/28/2017	-2.41	20.41
UCW_MW-19	RMW-ISW2	3/1/2017	-2.09	20.09
UCW_MW-19	RMW-ISW2	3/2/2017	-1.88	19.88

UCW_MW-19	RMW-ISW2	3/3/2017	-1.8	19.8
UCW_MW-19	RMW-ISW2	3/4/2017	-1.75	19.75
UCW_MW-19	RMW-ISW2	3/5/2017	-1.65	19.65
UCW_MW-19	RMW-ISW2	3/6/2017	-1.58	19.58
UCW_MW-19	RMW-ISW2	3/7/2017	-1.56	19.56
UCW_MW-19	RMW-ISW2	3/8/2017	-1.5	19.5
UCW_MW-19	RMW-ISW2	3/9/2017	-1.41	19.41
UCW_MW-19	RMW-ISW2	3/10/2017	-1.32	19.32
UCW_MW-19	RMW-ISW2	3/11/2017	-1.21	19.21
UCW_MW-19	RMW-ISW2	3/12/2017	-1.1	19.1
UCW_MW-19	RMW-ISW2	3/13/2017	-0.99	18.99
UCW_MW-19	RMW-ISW2	3/14/2017	-0.92	18.92
UCW_MW-19	RMW-ISW2	3/15/2017	-0.84	18.84
UCW_MW-19	RMW-ISW2	3/16/2017	-0.72	18.72
UCW_MW-19	RMW-ISW2	3/17/2017	-0.63	18.63
UCW_MW-19	RMW-ISW2	3/18/2017	-0.64	18.64
UCW_MW-19	RMW-ISW2	3/19/2017	-0.56	18.56
UCW_MW-19	RMW-ISW2	3/20/2017	-0.5	18.5
UCW_MW-19	RMW-ISW2	3/21/2017	-0.46	18.46
UCW_MW-19	RMW-ISW2	3/22/2017	-0.6	18.6
UCW_MW-19	RMW-ISW2	3/23/2017	-1.12	19.12
UCW_MW-19	RMW-ISW2	3/24/2017	-1.98	19.98
UCW_MW-19	RMW-ISW2	3/25/2017	-2	20
UCW_MW-19	RMW-ISW2	3/26/2017	-1.89	19.89
UCW_MW-19	RMW-ISW2	3/27/2017	-1.81	19.81
UCW_MW-19	RMW-ISW2	3/28/2017	-1.64	19.64
UCW_MW-19	RMW-ISW2	3/29/2017	-1.55	19.55
UCW_MW-19	RMW-ISW2	3/30/2017	-1.39	19.39
UCW_MW-19	RMW-ISW2	3/31/2017	-1.26	19.26
UCW_MW-19	RMW-ISW2	4/1/2017	-1.13	19.13
UCW_MW-19	RMW-ISW2	4/2/2017	-0.94	18.94
UCW_MW-19	RMW-ISW2	4/3/2017	-0.8	18.8
UCW_MW-19	RMW-ISW2	4/4/2017	-0.65	18.65
UCW_MW-19	RMW-ISW2	4/5/2017	-0.47	18.47
UCW_MW-19	RMW-ISW2	4/6/2017	-0.35	18.35
UCW_MW-19	RMW-ISW2	4/7/2017	-0.34	18.34
UCW_MW-19	RMW-ISW2	4/8/2017	-0.6	18.6
UCW_MW-19	RMW-ISW2	4/9/2017	-1.46	19.46
UCW_MW-19	RMW-ISW2	4/10/2017	-2.34	20.34
UCW_MW-19	RMW-ISW2	4/11/2017	-2.18	20.18
UCW_MW-19	RMW-ISW2	4/12/2017	-1.95	19.95
UCW_MW-19	RMW-ISW2	4/13/2017	-1.76	19.76
UCW_MW-19	RMW-ISW2	4/14/2017	-1.59	19.59
UCW_MW-19	RMW-ISW2	4/15/2017	-2.05	20.05
UCW_MW-19	RMW-ISW2	4/16/2017	-2.15	20.15
UCW_MW-19	RMW-ISW2	4/17/2017	-1.97	19.97
UCW_MW-19	RMW-ISW2	4/18/2017	-1.86	19.86
UCW_MW-19	RMW-ISW2	4/19/2017	-2.02	20.02
UCW_MW-19	RMW-ISW2	4/20/2017	-2.62	20.62
UCW_MW-19	RMW-ISW2	4/21/2017	-2.5	20.5
UCW_MW-19	RMW-ISW2	4/22/2017	-2.27	20.27
UCW_MW-19	RMW-ISW2	4/23/2017	-2.03	20.03
UCW_MW-19	RMW-ISW2	4/24/2017	-1.83	19.83
UCW_MW-19	RMW-ISW2	4/25/2017	-1.61	19.61
UCW_MW-19	RMW-ISW2	4/26/2017	-1.42	19.42
UCW_MW-19	RMW-ISW2	4/27/2017	-1.24	19.24
UCW_MW-19	RMW-ISW2	4/28/2017	-1.09	19.09
UCW_MW-19	RMW-ISW2	4/29/2017	-0.89	18.89
UCW_MW-19	RMW-ISW2	4/30/2017	-0.63	18.63
UCW_MW-19	RMW-ISW2	5/1/2017	-0.43	18.43
UCW_MW-19	RMW-ISW2	5/2/2017	-0.3	18.3
UCW_MW-19	RMW-ISW2	5/3/2017	-0.1	18.1
UCW_MW-19	RMW-ISW2	5/4/2017	0.07	17.93
UCW_MW-19	RMW-ISW2	5/5/2017	0.19	17.81
UCW_MW-19	RMW-ISW2	5/6/2017	0.45	17.55
UCW_MW-19	RMW-ISW2	5/7/2017	0.83	17.17
UCW_MW-19	RMW-ISW2	5/8/2017	0.99	17.01
UCW_MW-19	RMW-ISW2	5/9/2017	1.2	16.8
UCW_MW-19	RMW-ISW2	5/10/2017	1.34	16.66
UCW_MW-19	RMW-ISW2	5/11/2017	1.63	16.37
UCW_MW-19	RMW-ISW2	5/12/2017	1.84	16.16
UCW_MW-19	RMW-ISW2	5/13/2017	1.91	16.09
UCW_MW-19	RMW-ISW2	5/14/2017	1.97	16.03
UCW_MW-19	RMW-ISW2	5/15/2017	2.01	15.99
UCW_MW-19	RMW-ISW2	5/16/2017	2.15	15.85
UCW_MW-19	RMW-ISW2	5/17/2017	2.38	15.62
UCW_MW-19	RMW-ISW2	5/18/2017	2.49	15.51
UCW_MW-19	RMW-ISW2	5/19/2017	2.6	15.4
UCW_MW-19	RMW-ISW2	5/20/2017	2.75	15.25

UCW_MW-19	RMW-ISW2	5/21/2017	2.9	15.1
UCW_MW-19	RMW-ISW2	5/22/2017	3.06	14.94
UCW_MW-19	RMW-ISW2	5/23/2017	3.22	14.78
UCW_MW-19	RMW-ISW2	5/24/2017	3.36	14.64
UCW_MW-19	RMW-ISW2	5/25/2017	3.43	14.57
UCW_MW-19	RMW-ISW2	5/26/2017	3.54	14.46
UCW_MW-19	RMW-ISW2	5/27/2017	3.75	14.25
UCW_MW-19	RMW-ISW2	5/28/2017	3.87	14.13
UCW_MW-19	RMW-ISW2	5/29/2017	3.91	14.09
UCW_MW-19	RMW-ISW2	5/30/2017	3.94	14.06
UCW_MW-19	RMW-ISW2	5/31/2017	4.06	13.94
UCW_MW-19	RMW-ISW2	6/1/2017	4.21	13.79
UCW_MW-19	RMW-ISW2	6/2/2017	4.33	13.67
UCW_MW-19	RMW-ISW2	6/3/2017	4.47	13.53
UCW_MW-19	RMW-ISW2	6/4/2017	4.59	13.41
UCW_MW-19	RMW-ISW2	6/5/2017	4.74	13.26
UCW_MW-19	RMW-ISW2	6/6/2017	4.88	13.12
UCW_MW-19	RMW-ISW2	6/7/2017	5.03	12.97
UCW_MW-19	RMW-ISW2	6/8/2017	5.18	12.82
UCW_MW-19	RMW-ISW2	6/9/2017	5.36	12.64
UCW_MW-19	RMW-ISW2	6/10/2017	5.38	12.62
UCW_MW-19	RMW-ISW2	6/11/2017	5.46	12.54
UCW_MW-19	RMW-ISW2	6/12/2017	5.53	12.47
UCW_MW-19	RMW-ISW2	6/13/2017	5.69	12.31
UCW_MW-19	RMW-ISW2	6/14/2017	5.71	12.29
UCW_MW-19	RMW-ISW2	6/15/2017	5.78	12.22
UCW_MW-19	RMW-ISW2	6/16/2017	5.94	12.06
UCW_MW-19	RMW-ISW2	6/17/2017	6.05	11.95
UCW_MW-19	RMW-ISW2	6/18/2017	6.18	11.82
UCW_MW-19	RMW-ISW2	6/19/2017	6.29	11.71
UCW_MW-19	RMW-ISW2	6/20/2017	6.45	11.55
UCW_MW-19	RMW-ISW2	6/21/2017	6.62	11.38
UCW_MW-19	RMW-ISW2	6/22/2017	6.74	11.26
UCW_MW-19	RMW-ISW2	6/23/2017	6.92	11.08
UCW_MW-19	RMW-ISW2	6/24/2017	7.38	10.62
UCW_MW-19	RMW-ISW2	6/25/2017	7.69	10.31
UCW_MW-19	RMW-ISW2	6/26/2017	7.91	10.09
UCW_MW-19	RMW-ISW2	6/27/2017	8.1	9.9
UCW_MW-19	RMW-ISW2	6/28/2017	8.24	9.76
UCW_MW-19	RMW-ISW2	6/29/2017	8.41	9.59
UCW_MW-19	RMW-ISW2	6/30/2017	8.6	9.4
UCW_MW-19	RMW-ISW2	7/1/2017	8.76	9.24
UCW_MW-19	RMW-ISW2	7/2/2017	8.9	9.1
UCW_MW-19	RMW-ISW2	7/3/2017	9.01	8.99
UCW_MW-19	RMW-ISW2	7/4/2017	8.98	9.02
UCW_MW-19	RMW-ISW2	7/5/2017	8.98	9.02
UCW_MW-19	RMW-ISW2	7/6/2017	9.05	8.95
UCW_MW-19	RMW-ISW2	7/7/2017	9.14	8.86
UCW_MW-19	RMW-ISW2	7/8/2017	9.22	8.78
UCW_MW-19	RMW-ISW2	7/9/2017	9.32	8.68
UCW_MW-19	RMW-ISW2	7/10/2017	9.44	8.56
UCW_MW-19	RMW-ISW2	7/11/2017	9.56	8.44
UCW_MW-19	RMW-ISW2	7/12/2017	9.88	8.12
UCW_MW-19	RMW-ISW2	7/13/2017	10.12	7.88
UCW_MW-19	RMW-ISW2	7/14/2017	10.3	7.7
UCW_MW-19	RMW-ISW2	7/15/2017	10.43	7.57
UCW_MW-19	RMW-ISW2	7/16/2017	10.57	7.43
UCW_MW-19	RMW-ISW2	7/17/2017	10.68	7.32
UCW_MW-19	RMW-ISW2	7/18/2017	10.79	7.21
UCW_MW-19	RMW-ISW2	7/19/2017	10.96	7.04
UCW_MW-19	RMW-ISW2	7/20/2017	11.06	6.94
UCW_MW-19	RMW-ISW2	7/21/2017	11.02	6.98
UCW_MW-19	RMW-ISW2	7/22/2017	10.98	7.02
UCW_MW-19	RMW-ISW2	7/23/2017	11.01	6.99
UCW_MW-19	RMW-ISW2	7/24/2017	11.05	6.95
UCW_MW-19	RMW-ISW2	7/25/2017	10.9	7.1
UCW_MW-19	RMW-ISW2	7/26/2017	10.76	7.24
UCW_MW-19	RMW-ISW2	7/27/2017	10.81	7.19
UCW_MW-19	RMW-ISW2	7/28/2017	10.86	7.14
UCW_MW-19	RMW-ISW2	7/29/2017	10.93	7.07
UCW_MW-19	RMW-ISW2	7/30/2017	11.04	6.96
UCW_MW-19	RMW-ISW2	7/31/2017	11.12	6.88
UCW_MW-19	RMW-ISW2	8/1/2017	11.15	6.85
UCW_MW-19	RMW-ISW2	8/2/2017	11.16	6.84
UCW_MW-19	RMW-ISW2	8/3/2017	11.26	6.74
UCW_MW-19	RMW-ISW2	8/4/2017	11.6	6.4
UCW_MW-19	RMW-ISW2	8/5/2017	11.83	6.17
UCW_MW-19	RMW-ISW2	8/6/2017	11.99	6.01
UCW_MW-19	RMW-ISW2	8/7/2017	12.11	5.89

UCW_MW-19	RMW-ISW2	8/8/2017	12.23	5.77
UCW_MW-19	RMW-ISW2	8/9/2017	12.32	5.68
UCW_MW-19	RMW-ISW2	8/10/2017	12.39	5.61
UCW_MW-19	RMW-ISW2	8/11/2017	12.46	5.54
UCW_MW-19	RMW-ISW2	8/12/2017	12.4	5.6
UCW_MW-19	RMW-ISW2	8/13/2017	12.34	5.66
UCW_MW-19	RMW-ISW2	8/14/2017	12.32	5.68
UCW_MW-19	RMW-ISW2	8/15/2017	12.3	5.7
UCW_MW-19	RMW-ISW2	8/16/2017	12.34	5.66
UCW_MW-19	RMW-ISW2	8/17/2017	12.44	5.56
UCW_MW-19	RMW-ISW2	8/18/2017	12.54	5.46
UCW_MW-19	RMW-ISW2	8/19/2017	12.64	5.36
UCW_MW-19	RMW-ISW2	8/20/2017	12.73	5.27
UCW_MW-19	RMW-ISW2	8/21/2017	12.85	5.15
UCW_MW-19	RMW-ISW2	8/22/2017	13.01	4.99
UCW_MW-19	RMW-ISW2	8/23/2017	13.13	4.87
UCW_MW-19	RMW-ISW2	8/24/2017	13.24	4.76
UCW_MW-19	RMW-ISW2	8/25/2017	13.38	4.62
UCW_MW-19	RMW-ISW2	8/26/2017	13.51	4.49
UCW_MW-19	RMW-ISW2	8/27/2017	13.65	4.35
UCW_MW-19	RMW-ISW2	8/28/2017	13.79	4.21
UCW_MW-19	RMW-ISW2	8/29/2017	13.91	4.09
UCW_MW-19	RMW-ISW2	8/30/2017	14.06	3.94
UCW_MW-19	RMW-ISW2	8/31/2017	14.21	3.79
UCW_MW-19	RMW-ISW2	9/1/2017	14.35	3.65
UCW_MW-19	RMW-ISW2	9/2/2017	14.49	3.51
UCW_MW-19	RMW-ISW2	9/3/2017	14.63	3.37
UCW_MW-19	RMW-ISW2	9/4/2017	14.77	3.23
UCW_MW-19	RMW-ISW2	9/5/2017	14.87	3.13
UCW_MW-19	RMW-ISW2	9/6/2017	15	3
UCW_MW-19	RMW-ISW2	9/7/2017	15.1	2.9
UCW_MW-19	RMW-ISW2	9/8/2017	15.2	2.8
UCW_MW-19	RMW-ISW2	9/9/2017	15.27	2.73
UCW_MW-19	RMW-ISW2	9/10/2017	15.41	2.59
UCW_MW-19	RMW-ISW2	9/11/2017	15.49	2.51
UCW_MW-19	RMW-ISW2	9/12/2017	15.57	2.43
UCW_MW-19	RMW-ISW2	9/13/2017	15.66	2.34
UCW_MW-19	RMW-ISW2	9/14/2017	15.73	2.27
UCW_MW-19	RMW-ISW2	9/15/2017	15.81	2.19
UCW_MW-19	RMW-ISW2	9/16/2017	15.89	2.11
UCW_MW-19	RMW-ISW2	9/17/2017	15.96	2.04
UCW_MW-19	RMW-ISW2	9/18/2017	16.05	1.95
UCW_MW-19	RMW-ISW2	9/19/2017	16.12	1.88
UCW_MW-19	RMW-ISW2	9/20/2017	16.19	1.81
UCW_MW-19	RMW-ISW2	9/21/2017	16.22	1.78
UCW_MW-19	RMW-ISW2	9/22/2017	16.3	1.7
UCW_MW-19	RMW-ISW2	9/23/2017	16.4	1.6
UCW_MW-19	RMW-ISW2	9/24/2017	16.48	1.52
UCW_MW-19	RMW-ISW2	9/25/2017	16.56	1.44
UCW_MW-19	RMW-ISW2	9/26/2017	16.59	1.41
UCW_MW-19	RMW-ISW2	9/27/2017	16.63	1.37
UCW_MW-19	RMW-ISW2	9/28/2017	16.73	1.27
UCW_MW-19	RMW-ISW2	9/29/2017	16.75	1.25
UCW_MW-19	RMW-ISW2	9/30/2017	16.56	1.44
UCW_MW-19	RMW-ISW2	10/1/2017	16.47	1.53
UCW_MW-19	RMW-ISW2	10/2/2017	16.44	1.56
UCW_MW-19	RMW-ISW2	10/3/2017	16.48	1.52
UCW_MW-19	RMW-ISW2	10/4/2017	16.57	1.43
UCW_MW-19	RMW-ISW2	10/5/2017	16.72	1.28
UCW_MW-19	RMW-ISW2	10/6/2017	16.77	1.23
UCW_MW-19	RMW-ISW2	10/7/2017	16.84	1.16
UCW_MW-19	RMW-ISW2	10/8/2017	16.88	1.12
UCW_MW-19	RMW-ISW2	10/9/2017	16.95	1.05
UCW_MW-19	RMW-ISW2	10/10/2017	17.07	0.93
UCW_MW-19	RMW-ISW2	10/11/2017	17.11	0.89
UCW_MW-19	RMW-ISW2	10/12/2017	17.19	0.81
UCW_MW-19	RMW-ISW2	10/13/2017	17.26	0.74
UCW_MW-19	RMW-ISW2	10/14/2017	17.31	0.69
UCW_MW-19	RMW-ISW2	10/15/2017	17.37	0.63
UCW_MW-19	RMW-ISW2	10/16/2017	17.43	0.57
UCW_MW-19	RMW-ISW2	10/17/2017	17.46	0.54
UCW_MW-19	RMW-ISW2	10/18/2017	17.49	0.51
UCW_MW-19	RMW-ISW2	10/19/2017	17.51	0.49
UCW_MW-19	RMW-ISW2	10/20/2017	17.53	0.47
UCW_MW-19	RMW-ISW2	10/21/2017	17.62	0.38
UCW_MW-19	RMW-ISW2	10/22/2017	17.67	0.33
UCW_MW-19	RMW-ISW2	10/23/2017	17.69	0.31
UCW_MW-19	RMW-ISW2	10/24/2017	17.68	0.32
UCW_MW-19	RMW-ISW2	10/25/2017	17.69	0.31

UCW_MW-19	RMW-ISW2	10/26/2017	17.36	0.64
UCW_MW-19	RMW-ISW2	10/27/2017	16.83	1.17
UCW_MW-19	RMW-ISW2	10/28/2017	16.54	1.46
UCW_MW-19	RMW-ISW2	10/29/2017	16.35	1.65
UCW_MW-19	RMW-ISW2	10/30/2017	16.25	1.75
UCW_MW-19	RMW-ISW2	10/31/2017	16.22	1.78
UCW_MW-19	RMW-ISW2	11/1/2017	16.27	1.73
UCW_MW-19	RMW-ISW2	11/2/2017	16.33	1.67
UCW_MW-19	RMW-ISW2	11/3/2017	16.42	1.58
UCW_MW-19	RMW-ISW2	11/4/2017	16.5	1.5
UCW_MW-19	RMW-ISW2	11/5/2017	16.58	1.42
UCW_MW-19	RMW-ISW2	11/6/2017	16.5	1.5
UCW_MW-19	RMW-ISW2	11/7/2017	16.14	1.86
UCW_MW-19	RMW-ISW2	11/8/2017	15.92	2.08
UCW_MW-19	RMW-ISW2	11/9/2017	15.73	2.27
UCW_MW-19	RMW-ISW2	11/10/2017	15.64	2.36
UCW_MW-19	RMW-ISW2	11/11/2017	15.56	2.44
UCW_MW-19	RMW-ISW2	11/12/2017	15.48	2.52
UCW_MW-19	RMW-ISW2	11/13/2017	15.38	2.62
UCW_MW-19	RMW-ISW2	11/14/2017	15.33	2.67
UCW_MW-19	RMW-ISW2	11/15/2017	15.27	2.73
UCW_MW-19	RMW-ISW2	11/16/2017	15.15	2.85
UCW_MW-19	RMW-ISW2	11/17/2017	15.04	2.96
UCW_MW-19	RMW-ISW2	11/18/2017	14.91	3.09
UCW_MW-19	RMW-ISW2	11/19/2017	14.56	3.44
UCW_MW-19	RMW-ISW2	11/20/2017	14.42	3.58
UCW_MW-19	RMW-ISW2	11/21/2017	14.34	3.66
UCW_MW-19	RMW-ISW2	11/22/2017	14.3	3.7
UCW_MW-19	RMW-ISW2	11/23/2017	14.24	3.76
UCW_MW-19	RMW-ISW2	11/24/2017	14.18	3.82
UCW_MW-19	RMW-ISW2	11/25/2017	14.11	3.89
UCW_MW-19	RMW-ISW2	11/26/2017	14.06	3.94
UCW_MW-19	RMW-ISW2	11/27/2017	14.01	3.99
UCW_MW-19	RMW-ISW2	11/28/2017	14	4
UCW_MW-19	RMW-ISW2	11/29/2017	13.82	4.18
UCW_MW-19	RMW-ISW2	11/30/2017	13.7	4.3
UCW_MW-19	RMW-ISW2	12/1/2017	13.66	4.34
UCW_MW-19	RMW-ISW2	12/2/2017	13.63	4.37
UCW_MW-19	RMW-ISW2	12/3/2017	13.6	4.4
UCW_MW-19	RMW-ISW2	12/4/2017	13.63	4.37
UCW_MW-19	RMW-ISW2	12/5/2017	13.61	4.39
UCW_MW-19	RMW-ISW2	12/6/2017	13.6	4.4
UCW_MW-19	RMW-ISW2	12/7/2017	13.58	4.42
UCW_MW-19	RMW-ISW2	12/8/2017	13.59	4.41
UCW_MW-19	RMW-ISW2	12/9/2017	13.56	4.44
UCW_MW-19	RMW-ISW2	12/10/2017	13.51	4.49
UCW_MW-19	RMW-ISW2	12/11/2017	13.48	4.52
UCW_MW-19	RMW-ISW2	12/12/2017	13.52	4.48
UCW_MW-19	RMW-ISW2	12/13/2017	13.53	4.47
UCW_MW-19	RMW-ISW2	12/14/2017	13.47	4.53
UCW_MW-19	RMW-ISW2	12/15/2017	13.48	4.52
UCW_MW-19	RMW-ISW2	12/16/2017	13.46	4.54
UCW_MW-19	RMW-ISW2	12/17/2017	13.39	4.61
UCW_MW-19	RMW-ISW2	12/18/2017	13.45	4.55
UCW_MW-19	RMW-ISW2	12/19/2017	13.48	4.52
UCW_MW-19	RMW-ISW2	12/20/2017	13.43	4.57
UCW_MW-19	RMW-ISW2	12/21/2017	13.43	4.57
UCW_MW-19	RMW-ISW2	12/22/2017	13.43	4.57
UCW_MW-19	RMW-ISW2	12/23/2017	13.42	4.58
UCW_MW-19	RMW-ISW2	12/24/2017	13.36	4.64
UCW_MW-19	RMW-ISW2	12/25/2017	13.33	4.67
UCW_MW-19	RMW-ISW2	12/26/2017	13.32	4.68
UCW_MW-19	RMW-ISW2	12/27/2017	13.31	4.69
UCW_MW-19	RMW-ISW2	12/28/2017	13.31	4.69
UCW_MW-19	RMW-ISW2	12/29/2017	13.27	4.73
UCW_MW-19	RMW-ISW2	12/30/2017	13.24	4.76
UCW_MW-19	RMW-ISW2	12/31/2017	13.2	4.8
UCW_MW-19	RMW-ISW2	1/1/2018	13.2	4.8
UCW_MW-19	RMW-ISW2	1/2/2018	13.22	4.78
UCW_MW-19	RMW-ISW2	1/3/2018	13.18	4.82
UCW_MW-19	RMW-ISW2	1/4/2018	13.13	4.87
UCW_MW-19	RMW-ISW2	1/5/2018	13.14	4.86
UCW_MW-19	RMW-ISW2	1/6/2018	13.14	4.86
UCW_MW-19	RMW-ISW2	1/7/2018	13.11	4.89
UCW_MW-19	RMW-ISW2	1/8/2018	13.03	4.97
UCW_MW-19	RMW-ISW2	1/9/2018	12.84	5.16
UCW_MW-19	RMW-ISW2	1/10/2018	12.61	5.39
UCW_MW-19	RMW-ISW2	1/11/2018	11.32	6.68
UCW_MW-19	RMW-ISW2	1/12/2018	10.06	7.94

UCW_MW-19	RMW-ISW2	1/13/2018	9.96	8.04
UCW_MW-19	RMW-ISW2	1/14/2018	10.05	7.95
UCW_MW-19	RMW-ISW2	1/15/2018	10.17	7.83
UCW_MW-19	RMW-ISW2	1/16/2018	10.31	7.69
UCW_MW-19	RMW-ISW2	1/17/2018	10.48	7.52
UCW_MW-19	RMW-ISW2	1/18/2018	10.57	7.43
UCW_MW-19	RMW-ISW2	1/19/2018	10.57	7.43
UCW_MW-19	RMW-ISW2	1/20/2018	10.63	7.37
UCW_MW-19	RMW-ISW2	1/21/2018	10.63	7.37
UCW_MW-19	RMW-ISW2	1/22/2018	10.67	7.33
UCW_MW-19	RMW-ISW2	1/23/2018	10.67	7.33
UCW_MW-19	RMW-ISW2	1/24/2018	10.64	7.36
UCW_MW-19	RMW-ISW2	1/25/2018	10.57	7.43
UCW_MW-19	RMW-ISW2	1/26/2018	10.63	7.37
UCW_MW-19	RMW-ISW2	1/27/2018	10.62	7.38
UCW_MW-19	RMW-ISW2	1/28/2018	10.52	7.48
UCW_MW-19	RMW-ISW2	1/29/2018	10.45	7.55
UCW_MW-19	RMW-ISW2	1/30/2018	10.41	7.59
UCW_MW-19	RMW-ISW2	1/31/2018	10.39	7.61
UCW_MW-19	RMW-ISW2	2/1/2018	10.4	7.6
UCW_MW-19	RMW-ISW2	2/2/2018	10.45	7.55
UCW_MW-19	RMW-ISW2	2/3/2018	10.49	7.51
UCW_MW-19	RMW-ISW2	2/4/2018	10.49	7.51
UCW_MW-19	RMW-ISW2	2/5/2018	10.49	7.51
UCW_MW-19	RMW-ISW2	2/6/2018	10.48	7.52
UCW_MW-19	RMW-ISW2	2/7/2018	10.53	7.47
UCW_MW-19	RMW-ISW2	2/8/2018	10.61	7.39
UCW_MW-19	RMW-ISW2	2/9/2018	10.57	7.43
UCW_MW-19	RMW-ISW2	2/10/2018	10.53	7.47
UCW_MW-19	RMW-ISW2	2/11/2018	10.52	7.48
UCW_MW-19	RMW-ISW2	2/12/2018	10.53	7.47
UCW_MW-19	RMW-ISW2	2/13/2018	10.57	7.43
UCW_MW-19	RMW-ISW2	2/14/2018	10.7	7.3
UCW_MW-19	RMW-ISW2	2/15/2018	10.69	7.31
UCW_MW-19	RMW-ISW2	2/16/2018	10.73	7.27
UCW_MW-19	RMW-ISW2	2/17/2018	10.71	7.29
UCW_MW-19	RMW-ISW2	2/18/2018	10.66	7.34
UCW_MW-19	RMW-ISW2	2/19/2018	10.61	7.39
UCW_MW-19	RMW-ISW2	2/20/2018	10.69	7.31
UCW_MW-19	RMW-ISW2	2/21/2018	10.78	7.22
UCW_MW-19	RMW-ISW2	2/22/2018	10.76	7.24
UCW_MW-19	RMW-ISW2	2/23/2018	10.76	7.24
UCW_MW-19	RMW-ISW2	8/10/2018	16.85	1.15
UCW_MW-19	RMW-ISW2	8/11/2018	16.79	1.21
UCW_MW-19	RMW-ISW2	8/12/2018	16.9	1.1
UCW_MW-19	RMW-ISW2	8/13/2018	16.95	1.05
UCW_MW-19	RMW-ISW2	8/14/2018	17.05	0.95
UCW_MW-19	RMW-ISW2	8/15/2018	17.23	0.77
UCW_MW-19	RMW-ISW2	8/16/2018	17.37	0.63
UCW_MW-19	RMW-ISW2	8/17/2018	17.45	0.55
UCW_MW-19	RMW-ISW2	8/18/2018	17.65	0.35
UCW_MW-19	RMW-ISW2	8/19/2018	17.8	0.2
UCW_MW-19	RMW-ISW2	8/20/2018	17.92	0.08
UCW_MW-19	RMW-ISW2	8/21/2018	17.98	0.02
UCW_MW-19	RMW-ISW2	8/22/2018	18.03	-0.03
UCW_MW-19	RMW-ISW2	8/23/2018	18.09	-0.09
UCW_MW-19	RMW-ISW2	8/24/2018	18.21	-0.21
UCW_MW-19	RMW-ISW2	8/25/2018	18.29	-0.29
UCW_MW-19	RMW-ISW2	8/26/2018	18.37	-0.37
UCW_MW-19	RMW-ISW2	8/27/2018	18.39	-0.39
UCW_MW-19	RMW-ISW2	8/28/2018	18.42	-0.42
UCW_MW-19	RMW-ISW2	8/29/2018	18.55	-0.55
UCW_MW-19	RMW-ISW2	8/30/2018	18.6	-0.6
UCW_MW-19	RMW-ISW2	8/31/2018	18.62	-0.62
UCW_MW-19	RMW-ISW2	9/1/2018	18.66	-0.66
UCW_MW-19	RMW-ISW2	9/2/2018	18.72	-0.72
UCW_MW-19	RMW-ISW2	9/3/2018	18.66	-0.66
UCW_MW-19	RMW-ISW2	9/4/2018	18.66	-0.66
UCW_MW-19	RMW-ISW2	9/5/2018	18.77	-0.77
UCW_MW-19	RMW-ISW2	9/6/2018	18.84	-0.84
UCW_MW-19	RMW-ISW2	9/7/2018	18.85	-0.85
UCW_MW-19	RMW-ISW2	9/8/2018	18.86	-0.86
UCW_MW-19	RMW-ISW2	9/9/2018	18.88	-0.88
UCW_MW-19	RMW-ISW2	9/10/2018	18.95	-0.95
UCW_MW-19	RMW-ISW2	9/11/2018	19.1	-1.1
UCW_MW-19	RMW-ISW2	9/12/2018	19.09	-1.09
UCW_MW-19	RMW-ISW2	9/13/2018	19.08	-1.08
UCW_MW-19	RMW-ISW2	9/14/2018	19.08	-1.08
UCW_MW-19	RMW-ISW2	9/15/2018	19.07	-1.07

UCW_MW-19	RMW-ISW2	9/16/2018	19.11	-1.11
UCW_MW-19	RMW-ISW2	9/17/2018	19.26	-1.26
UCW_MW-19	RMW-ISW2	9/18/2018	19.33	-1.33
UCW_MW-19	RMW-ISW2	9/19/2018	19.4	-1.4
UCW_MW-19	RMW-ISW2	9/20/2018	19.45	-1.45
UCW_MW-19	RMW-ISW2	9/21/2018	19.56	-1.56
UCW_MW-19	RMW-ISW2	9/22/2018	19.62	-1.62
UCW_MW-19	RMW-ISW2	9/23/2018	19.68	-1.68
UCW_MW-19	RMW-ISW2	9/24/2018	19.68	-1.68
UCW_MW-19	RMW-ISW2	9/25/2018	19.72	-1.72
UCW_MW-19	RMW-ISW2	9/26/2018	19.78	-1.78
UCW_MW-19	RMW-ISW2	9/27/2018	19.8	-1.8
UCW_MW-19	RMW-ISW2	9/28/2018	19.85	-1.85
UCW_MW-19	RMW-ISW2	9/29/2018	19.85	-1.85
UCW_MW-19	RMW-ISW2	9/30/2018	19.86	-1.86
UCW_MW-19	RMW-ISW2	10/1/2018	19.83	-1.83
UCW_MW-19	RMW-ISW2	10/2/2018	19.82	-1.82
UCW_MW-19	RMW-ISW2	10/3/2018	19.83	-1.83
UCW_MW-19	RMW-ISW2	10/4/2018	19.86	-1.86
UCW_MW-19	RMW-ISW2	10/5/2018	19.89	-1.89
UCW_MW-19	RMW-ISW2	10/6/2018	19.89	-1.89
UCW_MW-19	RMW-ISW2	10/7/2018	19.87	-1.87
UCW_MW-19	RMW-ISW2	10/8/2018	19.89	-1.89
UCW_MW-19	RMW-ISW2	10/9/2018	19.9	-1.9
UCW_MW-19	RMW-ISW2	10/10/2018	19.92	-1.92
UCW_MW-19	RMW-ISW2	10/11/2018	19.93	-1.93
UCW_MW-19	RMW-ISW2	10/12/2018	19.95	-1.95
UCW_MW-19	RMW-ISW2	10/13/2018	19.94	-1.94
UCW_MW-19	RMW-ISW2	10/14/2018	19.92	-1.92
UCW_MW-19	RMW-ISW2	10/15/2018	19.97	-1.97
UCW_MW-19	RMW-ISW2	10/16/2018	20	-2
UCW_MW-19	RMW-ISW2	10/17/2018	20.01	-2.01
UCW_MW-19	RMW-ISW2	10/18/2018	20.03	-2.03
UCW_MW-19	RMW-ISW2	10/19/2018	20.05	-2.05
UCW_MW-19	RMW-ISW2	10/20/2018	20.07	-2.07
UCW_MW-19	RMW-ISW2	10/21/2018	20.08	-2.08
UCW_MW-19	RMW-ISW2	10/22/2018	20.11	-2.11
UCW_MW-19	RMW-ISW2	10/23/2018	20.13	-2.13
UCW_MW-19	RMW-ISW2	10/24/2018	20.15	-2.15
UCW_MW-19	RMW-ISW2	10/25/2018	20.18	-2.18
UCW_MW-19	RMW-ISW2	10/26/2018	20.19	-2.19
UCW_MW-19	RMW-ISW2	10/27/2018	20.19	-2.19
UCW_MW-19	RMW-ISW2	10/28/2018	20.19	-2.19
UCW_MW-19	RMW-ISW2	10/29/2018	20.22	-2.22
UCW_MW-19	RMW-ISW2	10/30/2018	22.55	-4.55
UCW_MW-19	RMW-ISW2	10/31/2018	26.45	-8.45
UCW_MW-19	RMW-ISW2	11/1/2018	26.48	-8.48
UCW_MW-19	RMW-ISW2	11/2/2018	26.49	-8.49
UCW_MW-19	RMW-ISW2	11/3/2018	26.51	-8.51
UCW_MW-19	RMW-ISW2	11/4/2018	26.51	-8.51
UCW_MW-19	RMW-ISW2	11/5/2018	26.52	-8.52
UCW_MW-19	RMW-ISW2	11/6/2018	26.52	-8.52
UCW_MW-19	RMW-ISW2	11/7/2018	26.54	-8.54
UCW_MW-19	RMW-ISW2	11/8/2018	26.57	-8.57
UCW_MW-19	RMW-ISW2	11/9/2018	26.58	-8.58
UCW_MW-19	RMW-ISW2	11/10/2018	26.58	-8.58
UCW_MW-19	RMW-ISW2	11/11/2018	26.58	-8.58
UCW_MW-19	RMW-ISW2	11/12/2018	26.6	-8.6
UCW_MW-19	RMW-ISW2	11/13/2018	26.62	-8.62
UCW_MW-19	RMW-ISW2	11/14/2018	26.62	-8.62
UCW_MW-19	RMW-ISW2	11/15/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/16/2018	26.57	-8.57
UCW_MW-19	RMW-ISW2	11/17/2018	26.55	-8.55
UCW_MW-19	RMW-ISW2	11/18/2018	26.57	-8.57
UCW_MW-19	RMW-ISW2	11/19/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/20/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/21/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/22/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/23/2018	26.61	-8.61
UCW_MW-19	RMW-ISW2	11/24/2018	26.62	-8.62
UCW_MW-19	RMW-ISW2	11/25/2018	26.59	-8.59
UCW_MW-19	RMW-ISW2	11/26/2018	26.55	-8.55
UCW_MW-19	RMW-ISW2	11/27/2018	25.88	-7.88
UCW_MW-19	RMW-ISW2	11/28/2018	25.38	-7.38
UCW_MW-19	RMW-ISW2	11/29/2018	25.01	-7.01
UCW_MW-19	RMW-ISW2	11/30/2018	24.71	-6.71
UCW_MW-19	RMW-ISW2	12/1/2018	24.64	-6.64
UCW_MW-19	RMW-ISW2	12/2/2018	24.37	-6.37
UCW_MW-19	RMW-ISW2	12/3/2018	24.21	-6.21

UCW_MW-19	RMW-ISW2	12/4/2018	24.08	-6.08
UCW_MW-19	RMW-ISW2	12/5/2018	23.9	-5.9
UCW_MW-19	RMW-ISW2	12/6/2018	23.8	-5.8
UCW_MW-19	RMW-ISW2	12/7/2018	23.74	-5.74
UCW_MW-19	RMW-ISW2	12/8/2018	23.72	-5.72
UCW_MW-19	RMW-ISW2	12/9/2018	23.67	-5.67
UCW_MW-19	RMW-ISW2	12/10/2018	23.59	-5.59
UCW_MW-19	RMW-ISW2	12/11/2018	23.49	-5.49
UCW_MW-19	RMW-ISW2	12/12/2018	23.42	-5.42
UCW_MW-19	RMW-ISW2	12/13/2018	23.4	-5.4
UCW_MW-19	RMW-ISW2	12/14/2018	23.33	-5.33
UCW_MW-19	RMW-ISW2	12/15/2018	23.23	-5.23
UCW_MW-19	RMW-ISW2	12/16/2018	23.19	-5.19
UCW_MW-19	RMW-ISW2	12/17/2018	23.14	-5.14
UCW_MW-19	RMW-ISW2	12/18/2018	23.11	-5.11
UCW_MW-19	RMW-ISW2	12/19/2018	23.06	-5.06
UCW_MW-19	RMW-ISW2	12/20/2018	22.94	-4.94
UCW_MW-19	RMW-ISW2	12/21/2018	22.84	-4.84
UCW_MW-19	RMW-ISW2	12/22/2018	22.78	-4.78
UCW_MW-19	RMW-ISW2	12/23/2018	22.76	-4.76
UCW_MW-19	RMW-ISW2	12/24/2018	22.74	-4.74
UCW_MW-19	RMW-ISW2	12/25/2018	22.67	-4.67
UCW_MW-19	RMW-ISW2	12/26/2018	22.58	-4.58
UCW_MW-19	RMW-ISW2	12/27/2018	22.49	-4.49
UCW_MW-19	RMW-ISW2	12/28/2018	22.32	-4.32
UCW_MW-19	RMW-ISW2	12/29/2018	22.29	-4.29
UCW_MW-19	RMW-ISW2	12/30/2018	22.3	-4.3
UCW_MW-19	RMW-ISW2	12/31/2018	22.21	-4.21
UCW_MW-19	RMW-ISW2	1/1/2019	22.13	-4.13
UCW_MW-19	RMW-ISW2	1/2/2019	22.18	-4.18
UCW_MW-19	RMW-ISW2	1/3/2019	22.13	-4.13
UCW_MW-19	RMW-ISW2	1/4/2019	22.09	-4.09
UCW_MW-19	RMW-ISW2	1/5/2019	22	-4
UCW_MW-19	RMW-ISW2	1/6/2019	21.91	-3.91
UCW_MW-19	RMW-ISW2	1/7/2019	21.95	-3.95
UCW_MW-19	RMW-ISW2	1/8/2019	21.93	-3.93
UCW_MW-19	RMW-ISW2	1/9/2019	21.35	-3.35
UCW_MW-19	RMW-ISW2	1/10/2019	21.01	-3.01
UCW_MW-19	RMW-ISW2	1/11/2019	20.92	-2.92
UCW_MW-19	RMW-ISW2	1/12/2019	20.64	-2.64
UCW_MW-19	RMW-ISW2	1/13/2019	20.55	-2.55
UCW_MW-19	RMW-ISW2	1/14/2019	20.51	-2.51
UCW_MW-19	RMW-ISW2	1/15/2019	20.45	-2.45
UCW_MW-19	RMW-ISW2	1/16/2019	20.41	-2.41
UCW_MW-19	RMW-ISW2	1/17/2019	20.38	-2.38
UCW_MW-19	RMW-ISW2	1/18/2019	19.9	-1.9
UCW_MW-19	RMW-ISW2	1/19/2019	14.99	3.01
UCW_MW-19	RMW-ISW2	1/20/2019	12.85	5.15
UCW_MW-19	RMW-ISW2	1/21/2019	12.19	5.81
UCW_MW-19	RMW-ISW2	1/22/2019	12.15	5.85
UCW_MW-19	RMW-ISW2	1/23/2019	11.57	6.43
UCW_MW-19	RMW-ISW2	1/24/2019	11.26	6.74
UCW_MW-19	RMW-ISW2	1/25/2019	11.44	6.56
UCW_MW-19	RMW-ISW2	1/26/2019	11.68	6.32
UCW_MW-19	RMW-ISW2	1/27/2019	11.91	6.09
UCW_MW-19	RMW-ISW2	1/28/2019	12.03	5.97
UCW_MW-19	RMW-ISW2	1/29/2019	12.09	5.91
UCW_MW-19	RMW-ISW2	1/30/2019	12.24	5.76
UCW_MW-19	RMW-ISW2	1/31/2019	12.35	5.65
UCW_MW-19	RMW-ISW2	2/1/2019	12.47	5.53
UCW_MW-19	RMW-ISW2	2/2/2019	12.56	5.44
UCW_MW-19	RMW-ISW2	2/3/2019	12.41	5.59
UCW_MW-19	RMW-ISW2	2/4/2019	12.24	5.76
UCW_MW-19	RMW-ISW2	2/5/2019	10.09	7.91
UCW_MW-19	RMW-ISW2	2/6/2019	6.02	11.98
UCW_MW-19	RMW-ISW2	2/7/2019	5.45	12.55
UCW_MW-19	RMW-ISW2	2/8/2019	5.88	12.12
UCW_MW-19	RMW-ISW2	2/9/2019	6.05	11.95
UCW_MW-19	RMW-ISW2	2/10/2019	6.12	11.88
UCW_MW-19	RMW-ISW2	2/11/2019	5.98	12.02
UCW_MW-19	RMW-ISW2	2/12/2019	5.04	12.96
UCW_MW-19	RMW-ISW2	2/13/2019	5.19	12.81
UCW_MW-19	RMW-ISW2	2/14/2019	5.32	12.68
UCW_MW-19	RMW-ISW2	2/15/2019	3.96	14.04
UCW_MW-19	RMW-ISW2	2/16/2019	2.82	15.18
UCW_MW-19	RMW-ISW2	2/17/2019	2.24	15.76
UCW_MW-19	RMW-ISW2	2/18/2019	2.73	15.27
UCW_MW-19	RMW-ISW2	2/19/2019	3.35	14.65
UCW_MW-19	RMW-ISW2	2/20/2019	3.91	14.09

UCW_MW-19	RMW-ISW2	2/21/2019	4.3	13.7
UCW_MW-19	RMW-ISW2	2/22/2019	4.63	13.37
UCW_MW-19	RMW-ISW2	2/23/2019	5.04	12.96
UCW_MW-19	RMW-ISW2	2/24/2019	5.27	12.73
UCW_MW-19	RMW-ISW2	2/25/2019	5.34	12.66
UCW_MW-19	RMW-ISW2	2/26/2019	5.39	12.61
UCW_MW-19	RMW-ISW2	2/27/2019	5.21	12.79
UCW_MW-19	RMW-ISW2	2/28/2019	4.2	13.8
UCW_MW-19	RMW-ISW2	3/1/2019	3.3	14.7
UCW_MW-19	RMW-ISW2	3/2/2019	3.2	14.8
UCW_MW-19	RMW-ISW2	3/3/2019	3.64	14.36
UCW_MW-19	RMW-ISW2	3/4/2019	3.6	14.4
UCW_MW-19	RMW-ISW2	3/5/2019	2.75	15.25
UCW_MW-19	RMW-ISW2	3/6/2019	2.34	15.66
UCW_MW-19	RMW-ISW2	3/7/2019	2.68	15.32
UCW_MW-19	RMW-ISW2	3/8/2019	2.78	15.22
UCW_MW-19	RMW-ISW2	3/9/2019	2.4	15.6
UCW_MW-19	RMW-ISW2	3/10/2019	2.45	15.55
UCW_MW-19	RMW-ISW2	3/11/2019	2.98	15.02
UCW_MW-19	RMW-ISW2	3/12/2019	3.56	14.44
UCW_MW-19	RMW-ISW2	3/13/2019	3.92	14.08
UCW_MW-19	RMW-ISW2	3/14/2019	4.35	13.65
UCW_MW-19	RMW-ISW2	3/15/2019	4.57	13.43
UCW_MW-19	RMW-ISW2	3/16/2019	4.73	13.27
UCW_MW-19	RMW-ISW2	3/17/2019	4.87	13.13
UCW_MW-19	RMW-ISW2	3/18/2019	5	13
UCW_MW-19	RMW-ISW2	3/19/2019	5.08	12.92
UCW_MW-19	RMW-ISW2	3/20/2019	5.18	12.82
UCW_MW-19	RMW-ISW2	3/21/2019	5.3	12.7
UCW_MW-19	RMW-ISW2	3/22/2019	5.37	12.63
UCW_MW-19	RMW-ISW2	3/23/2019	5.44	12.56
UCW_MW-19	RMW-ISW2	3/24/2019	5.22	12.78
UCW_MW-19	RMW-ISW2	3/25/2019	4.52	13.48
UCW_MW-19	RMW-ISW2	3/26/2019	4.55	13.45
UCW_MW-19	RMW-ISW2	3/27/2019	4.73	13.27
UCW_MW-19	RMW-ISW2	3/28/2019	4.88	13.12
UCW_MW-19	RMW-ISW2	3/29/2019	4.84	13.16
UCW_MW-19	RMW-ISW2	3/30/2019	4.51	13.49
UCW_MW-19	RMW-ISW2	3/31/2019	4.56	13.44
UCW_MW-19	RMW-ISW2	4/1/2019	4.71	13.29
UCW_MW-19	RMW-ISW2	4/2/2019	4.85	13.15
UCW_MW-19	RMW-ISW2	4/3/2019	4.92	13.08
UCW_MW-19	RMW-ISW2	4/4/2019	4.56	13.44
UCW_MW-19	RMW-ISW2	4/5/2019	4.17	13.83
UCW_MW-19	RMW-ISW2	4/6/2019	4.2	13.8
UCW_MW-19	RMW-ISW2	4/7/2019	4.33	13.67
UCW_MW-19	RMW-ISW2	4/8/2019	4.5	13.5
UCW_MW-19	RMW-ISW2	4/9/2019	4.6	13.4
UCW_MW-19	RMW-ISW2	4/10/2019	4.73	13.27
UCW_MW-19	RMW-ISW2	4/11/2019	4.79	13.21
UCW_MW-19	RMW-ISW2	4/12/2019	4.83	13.17
UCW_MW-19	RMW-ISW2	4/13/2019	4.96	13.04
UCW_MW-19	RMW-ISW2	4/14/2019	5.24	12.76
UCW_MW-19	RMW-ISW2	4/15/2019	5.44	12.56
UCW_MW-19	RMW-ISW2	4/16/2019	5.58	12.42
UCW_MW-19	RMW-ISW2	4/17/2019	5.62	12.38
UCW_MW-19	RMW-ISW2	4/18/2019	5.79	12.21
UCW_MW-19	RMW-ISW2	4/19/2019	5.85	12.15
UCW_MW-19	RMW-ISW2	4/20/2019	5.91	12.09
UCW_MW-19	RMW-ISW2	4/21/2019	6	12
UCW_MW-19	RMW-ISW2	4/22/2019	6.2	11.8
UCW_MW-19	RMW-ISW2	4/23/2019	6.28	11.72
UCW_MW-19	RMW-ISW2	4/24/2019	6.4	11.6
UCW_MW-19	RMW-ISW2	4/25/2019	6.54	11.46
UCW_MW-19	RMW-ISW2	4/26/2019	6.72	11.28
UCW_MW-19	RMW-ISW2	4/27/2019	6.87	11.13
UCW_MW-19	RMW-ISW2	4/29/2019	6.99	11.01
UCW_MW-19	RMW-ISW2	4/30/2019	7.04	10.96
UCW_MW-19	RMW-ISW2	5/2/2019	7.41	10.59
UCW_MW-19	RMW-ISW2	5/3/2019	7.55	10.45
UCW_MW-19	RMW-ISW2	5/4/2019	7.7	10.3
UCW_MW-19	RMW-ISW2	5/5/2019	7.84	10.16
UCW_MW-19	RMW-ISW2	5/6/2019	7.99	10.01
UCW_MW-19	RMW-ISW2	5/7/2019	8.08	9.92
UCW_MW-19	RMW-ISW2	5/8/2019	8.25	9.75
UCW_MW-19	RMW-ISW2	5/9/2019	8.3	9.7
UCW_MW-19	RMW-ISW2	5/11/2019	8.38	9.62
UCW_MW-19	RMW-ISW2	5/12/2019	8.64	9.36
UCW_MW-19	RMW-ISW2	5/13/2019	8.73	9.27

UCW_MW-19	RMW-ISW2	5/14/2019	8.88	9.12
UCW_MW-19	RMW-ISW2	5/15/2019	9.04	8.96
UCW_MW-19	RMW-ISW2	5/17/2019	9.03	8.97
UCW_MW-19	RMW-ISW2	5/18/2019	9.18	8.82
UCW_MW-19	RMW-ISW2	5/19/2019	8.94	9.06
UCW_MW-19	RMW-ISW2	5/20/2019	8.7	9.3
UCW_MW-19	RMW-ISW2	5/21/2019	8.61	9.39
UCW_MW-19	RMW-ISW2	5/22/2019	8.3	9.7
UCW_MW-19	RMW-ISW2	5/23/2019	8.27	9.73
UCW_MW-19	RMW-ISW2	5/25/2019	6.31	11.69
UCW_MW-19	RMW-ISW2	5/26/2019	6.39	11.61
UCW_MW-19	RMW-ISW2	5/27/2019	6.58	11.42
UCW_MW-19	RMW-ISW2	5/28/2019	6.85	11.15
UCW_MW-19	RMW-ISW2	5/29/2019	6.84	11.16
UCW_MW-19	RMW-ISW2	5/30/2019	6.94	11.06
UCW_MW-19	RMW-ISW2	5/31/2019	7.11	10.89
UCW_MW-19	RMW-ISW2	6/1/2019	7.28	10.72
UCW_MW-19	RMW-ISW2	6/2/2019	7.44	10.56
UCW_MW-19	RMW-ISW2	6/3/2019	7.62	10.38
UCW_MW-19	RMW-ISW2	6/4/2019	7.78	10.22
UCW_MW-19	RMW-ISW2	6/5/2019	7.91	10.09
UCW_MW-19	RMW-ISW2	6/6/2019	8.04	9.96
UCW_MW-19	RMW-ISW2	6/7/2019	8.24	9.76
UCW_MW-19	RMW-ISW2	6/9/2019	8.59	9.41
UCW_MW-19	RMW-ISW2	6/11/2019	8.98	9.02
UCW_MW-19	RMW-ISW2	6/12/2019	9.18	8.82
UCW_MW-19	RMW-ISW2	6/13/2019	9.32	8.68
UCW_MW-19	RMW-ISW2	6/14/2019	9.53	8.47
UCW_MW-19	RMW-ISW2	6/15/2019	9.73	8.27
UCW_MW-19	RMW-ISW2	6/16/2019	9.93	8.07
UCW_MW-19	RMW-ISW2	6/18/2019	10.16	7.84
UCW_MW-19	RMW-ISW2	6/19/2019	10.41	7.59
UCW_MW-19	RMW-ISW2	6/21/2019	10.78	7.22
UCW_MW-19	RMW-ISW2	6/22/2019	10.94	7.06
UCW_MW-19	RMW-ISW2	6/24/2019	11.39	6.61
UCW_MW-19	RMW-ISW2	6/25/2019	11.53	6.47
UCW_MW-19	RMW-ISW2	6/26/2019	11.74	6.26
UCW_MW-19	RMW-ISW2	6/27/2019	11.99	6.01
UCW_MW-19	RMW-ISW2	6/28/2019	12.19	5.81
UCW_MW-19	RMW-ISW2	6/29/2019	12.29	5.71
UCW_MW-19	RMW-ISW2	6/30/2019	12.42	5.58
UCW_MW-19	RMW-ISW2	7/1/2019	12.56	5.44
UCW_MW-19	RMW-ISW2	7/2/2019	12.68	5.32
UCW_MW-19	RMW-ISW2	7/3/2019	12.77	5.23
UCW_MW-19	RMW-ISW2	7/4/2019	12.86	5.14
UCW_MW-19	RMW-ISW2	7/5/2019	13	5
UCW_MW-19	RMW-ISW2	7/6/2019	13.17	4.83
UCW_MW-19	RMW-ISW2	7/7/2019	13.29	4.71
UCW_MW-19	RMW-ISW2	7/8/2019	13.37	4.63
UCW_MW-19	RMW-ISW2	7/9/2019	13.52	4.48
UCW_MW-19	RMW-ISW2	7/10/2019	13.74	4.26
UCW_MW-19	RMW-ISW2	7/11/2019	14.11	3.89
UCW_MW-19	RMW-ISW2	7/12/2019	14.34	3.66
UCW_MW-19	RMW-ISW2	7/13/2019	14.5	3.5
UCW_MW-19	RMW-ISW2	7/14/2019	14.65	3.35
UCW_MW-19	RMW-ISW2	7/15/2019	14.85	3.15
UCW_MW-19	RMW-ISW2	7/16/2019	14.98	3.02
UCW_MW-19	RMW-ISW2	7/17/2019	15.08	2.92
UCW_MW-19	RMW-ISW2	7/18/2019	15.06	2.94
UCW_MW-19	RMW-ISW2	7/19/2019	15.07	2.93
UCW_MW-19	RMW-ISW2	7/20/2019	15.15	2.85
UCW_MW-19	RMW-ISW2	7/21/2019	15.15	2.85
UCW_MW-19	RMW-ISW2	7/22/2019	15.19	2.81
UCW_MW-19	RMW-ISW2	7/23/2019	15.33	2.67
UCW_MW-19	RMW-ISW2	7/24/2019	15.51	2.49
UCW_MW-19	RMW-ISW2	7/25/2019	15.57	2.43
UCW_MW-19	RMW-ISW2	7/26/2019	15.7	2.3
UCW_MW-19	RMW-ISW2	7/27/2019	15.84	2.16
UCW_MW-19	RMW-ISW2	7/28/2019	16.14	1.86
UCW_MW-19	RMW-ISW2	7/29/2019	16.43	1.57
UCW_MW-19	RMW-ISW2	7/30/2019	16.7	1.3
UCW_MW-19	RMW-ISW2	7/31/2019	16.85	1.15
UCW_MW-19	RMW-ISW2	8/1/2019	16.86	1.14
UCW_MW-19	RMW-ISW2	8/2/2019	17.12	0.88
UCW_MW-19	RMW-ISW2	8/3/2019	17.31	0.69
UCW_MW-19	RMW-ISW2	8/4/2019	17.31	0.69
UCW_MW-19	RMW-ISW2	8/5/2019	17.41	0.59
UCW_MW-19	RMW-ISW2	8/6/2019	17.45	0.55
UCW_MW-19	RMW-ISW2	8/7/2019	17.61	0.39

UCW_MW-19	RMW-ISW2	8/8/2019	17.74	0.26
UCW_MW-19	RMW-ISW2	8/9/2019	17.86	0.14
UCW_MW-19	RMW-ISW2	8/10/2019	17.97	0.03
UCW_MW-19	RMW-ISW2	8/11/2019	18.08	-0.08
UCW_MW-19	RMW-ISW2	8/12/2019	18.16	-0.16
UCW_MW-19	RMW-ISW2	8/13/2019	18.13	-0.13
UCW_MW-19	RMW-ISW2	8/14/2019	18.26	-0.26
UCW_MW-19	RMW-ISW2	8/15/2019	18.28	-0.28
UCW_MW-19	RMW-ISW2	8/16/2019	18.29	-0.29
UCW_MW-19	RMW-ISW2	8/17/2019	18.26	-0.26
UCW_MW-19	RMW-ISW2	8/18/2019	18.27	-0.27
UCW_MW-19	RMW-ISW2	8/19/2019	18.3	-0.3
UCW_MW-19	RMW-ISW2	8/20/2019	18.31	-0.31
UCW_MW-19	RMW-ISW2	8/21/2019	18.51	-0.51
UCW_MW-19	RMW-ISW2	8/22/2019	18.63	-0.63
UCW_MW-19	RMW-ISW2	8/23/2019	18.69	-0.69
UCW_MW-19	RMW-ISW2	8/24/2019	18.78	-0.78
UCW_MW-19	RMW-ISW2	8/25/2019	18.86	-0.86
UCW_MW-19	RMW-ISW2	8/26/2019	18.93	-0.93
UCW_MW-19	RMW-ISW2	8/27/2019	18.94	-0.94
UCW_MW-19	RMW-ISW2	8/28/2019	18.81	-0.81
UCW_MW-19	RMW-ISW2	8/29/2019	18.86	-0.86
UCW_MW-19	RMW-ISW2	8/30/2019	19.01	-1.01
UCW_MW-19	RMW-ISW2	8/31/2019	19.01	-1.01
UCW_MW-19	RMW-ISW2	9/1/2019	19.07	-1.07
UCW_MW-19	RMW-ISW2	9/2/2019	19.26	-1.26
UCW_MW-19	RMW-ISW2	9/3/2019	19.37	-1.37
UCW_MW-19	RMW-ISW2	9/4/2019	19.49	-1.49
UCW_MW-19	RMW-ISW2	9/5/2019	19.81	-1.81
UCW_MW-19	RMW-ISW2	9/6/2019	20.14	-2.14
UCW_MW-19	RMW-ISW2	9/7/2019	20.42	-2.42
UCW_MW-19	RMW-ISW2	9/8/2019	20.64	-2.64
UCW_MW-19	RMW-ISW2	9/9/2019	20.77	-2.77
UCW_MW-19	RMW-ISW2	9/10/2019	20.85	-2.85
UCW_MW-19	RMW-ISW2	9/11/2019	20.91	-2.91
UCW_MW-19	RMW-ISW2	9/12/2019	21.02	-3.02
UCW_MW-19	RMW-ISW2	9/13/2019	21.09	-3.09
UCW_MW-19	RMW-ISW2	9/14/2019	21.15	-3.15
UCW_MW-19	RMW-ISW2	9/15/2019	21.16	-3.16
UCW_MW-19	RMW-ISW2	9/16/2019	21.21	-3.21
UCW_MW-19	RMW-ISW2	9/17/2019	21.3	-3.3
UCW_MW-19	RMW-ISW2	9/18/2019	21.36	-3.36
UCW_MW-19	RMW-ISW2	9/19/2019	21.39	-3.39
UCW_MW-19	RMW-ISW2	9/20/2019	21.46	-3.46
UCW_MW-19	RMW-ISW2	9/21/2019	21.33	-3.33
UCW_MW-19	RMW-ISW2	9/22/2019	20.95	-2.95
UCW_MW-19	RMW-ISW2	9/23/2019	20.77	-2.77
UCW_MW-19	RMW-ISW2	9/24/2019	20.7	-2.7
UCW_MW-19	RMW-ISW2	9/25/2019	20.57	-2.57
UCW_MW-19	RMW-ISW2	9/26/2019	20.44	-2.44
UCW_MW-19	RMW-ISW2	9/27/2019	20.37	-2.37
UCW_MW-19	RMW-ISW2	9/28/2019	20.31	-2.31
UCW_MW-19	RMW-ISW2	9/29/2019	20.24	-2.24
UCW_MW-19	RMW-ISW2	9/30/2019	20.27	-2.27
UCW_MW-19	RMW-ISW2	10/1/2019	20.25	-2.25
UCW_MW-19	RMW-ISW2	10/2/2019	20.29	-2.29
UCW_MW-19	RMW-ISW2	10/3/2019	20.24	-2.24
UCW_MW-19	RMW-ISW2	10/4/2019	20.22	-2.22
UCW_MW-19	RMW-ISW2	10/5/2019	20.26	-2.26
UCW_MW-19	RMW-ISW2	10/6/2019	20.24	-2.24
UCW_MW-19	RMW-ISW2	10/7/2019	20.17	-2.17
UCW_MW-19	RMW-ISW2	10/8/2019	20.14	-2.14
UCW_MW-19	RMW-ISW2	10/9/2019	20.13	-2.13
UCW_MW-19	RMW-ISW2	10/10/2019	20.16	-2.16
UCW_MW-19	RMW-ISW2	10/11/2019	20.17	-2.17
UCW_MW-19	RMW-ISW2	10/12/2019	20.13	-2.13
UCW_MW-19	RMW-ISW2	10/13/2019	20.02	-2.02
UCW_MW-19	RMW-ISW2	10/14/2019	19.96	-1.96
UCW_MW-19	RMW-ISW2	10/15/2019	19.96	-1.96
UCW_MW-19	RMW-ISW2	10/16/2019	19.96	-1.96
UCW_MW-19	RMW-ISW2	10/17/2019	19.88	-1.88
UCW_MW-19	RMW-ISW2	10/18/2019	19.86	-1.86
UCW_MW-19	RMW-ISW2	10/19/2019	19.89	-1.89
UCW_MW-19	RMW-ISW2	10/20/2019	19.85	-1.85
UCW_MW-19	RMW-ISW2	10/21/2019	19.8	-1.8
UCW_MW-19	RMW-ISW2	10/22/2019	19.79	-1.79
UCW_MW-19	RMW-ISW2	10/23/2019	19.76	-1.76
UCW_MW-19	RMW-ISW2	10/24/2019	19.69	-1.69
UCW_MW-19	RMW-ISW2	10/25/2019	19.73	-1.73

UCW_MW-19	RMW-ISW2	10/26/2019	19.74	-1.74
UCW_MW-19	RMW-ISW2	10/27/2019	19.66	-1.66
UCW_MW-19	RMW-ISW2	10/28/2019	19.66	-1.66
UCW_MW-19	RMW-ISW2	10/29/2019	19.7	-1.7
UCW_MW-19	RMW-ISW2	10/30/2019	19.62	-1.62
UCW_MW-19	RMW-ISW2	10/31/2019	19.68	-1.68
UCW_MW-19	RMW-ISW2	11/1/2019	19.66	-1.66
UCW_MW-19	RMW-ISW2	11/2/2019	19.61	-1.61
UCW_MW-19	RMW-ISW2	11/3/2019	19.58	-1.58
UCW_MW-19	RMW-ISW2	11/4/2019	19.53	-1.53
UCW_MW-19	RMW-ISW2	11/5/2019	19.52	-1.52
UCW_MW-19	RMW-ISW2	11/6/2019	19.52	-1.52
UCW_MW-19	RMW-ISW2	11/7/2019	19.48	-1.48
UCW_MW-19	RMW-ISW2	11/8/2019	19.5	-1.5
UCW_MW-19	RMW-ISW2	11/9/2019	19.5	-1.5
UCW_MW-19	RMW-ISW2	11/10/2019	19.45	-1.45
UCW_MW-19	RMW-ISW2	11/11/2019	19.41	-1.41
UCW_MW-19	RMW-ISW2	11/12/2019	19.42	-1.42
UCW_MW-19	RMW-ISW2	11/13/2019	19.42	-1.42
UCW_MW-19	RMW-ISW2	11/14/2019	19.4	-1.4
UCW_MW-19	RMW-ISW2	11/15/2019	19.43	-1.43
UCW_MW-19	RMW-ISW2	11/16/2019	19.47	-1.47
UCW_MW-19	RMW-ISW2	11/17/2019	19.41	-1.41
UCW_MW-19	RMW-ISW2	11/18/2019	19.41	-1.41
UCW_MW-19	RMW-ISW2	11/19/2019	19.34	-1.34
UCW_MW-19	RMW-ISW2	11/20/2019	19.25	-1.25
UCW_MW-19	RMW-ISW2	11/21/2019	19.21	-1.21
UCW_MW-19	RMW-ISW2	11/22/2019	19.34	-1.34
UCW_MW-19	RMW-ISW2	11/23/2019	19.39	-1.39
UCW_MW-19	RMW-ISW2	11/24/2019	19.34	-1.34
UCW_MW-19	RMW-ISW2	11/25/2019	19.26	-1.26
UCW_MW-19	RMW-ISW2	11/26/2019	19.2	-1.2
UCW_MW-19	RMW-ISW2	1/11/2020	-45.05	63.05
UCW_MW-19	RMW-ISW2	1/12/2020	-45.09	63.09
UCW_MW-19	RMW-ISW2	1/13/2020	-45.13	63.13
UCW_MW-19	RMW-ISW2	1/14/2020	-45.13	63.13
UCW_MW-19	RMW-ISW2	1/15/2020	-45.14	63.14
UCW_MW-19	RMW-ISW2	1/16/2020	-45.19	63.19
UCW_MW-19	RMW-ISW2	1/17/2020	-45.27	63.27
UCW_MW-19	RMW-ISW2	1/18/2020	-45.11	63.11
UCW_MW-19	RMW-ISW2	1/19/2020	-45.16	63.16
UCW_MW-19	RMW-ISW2	1/20/2020	-45.27	63.27
UCW_MW-19	RMW-ISW2	1/21/2020	-45.34	63.34
UCW_MW-19	RMW-ISW2	1/22/2020	-45.33	63.33
UCW_MW-19	RMW-ISW2	1/23/2020	-45.29	63.29
UCW_MW-19	RMW-ISW2	1/24/2020	-45.31	63.31
UCW_MW-19	RMW-ISW2	1/25/2020	-45.36	63.36
UCW_MW-19	RMW-ISW2	1/26/2020	-45.38	63.38
UCW_MW-19	RMW-ISW2	1/27/2020	-45.37	63.37
UCW_MW-19	RMW-ISW2	1/28/2020	-45.38	63.38
UCW_MW-19	RMW-ISW2	1/29/2020	-45.52	63.52
UCW_MW-19	RMW-ISW2	1/30/2020	-45.61	63.61
UCW_MW-19	RMW-ISW2	1/31/2020	-45.62	63.62
UCW_MW-19	RMW-ISW2	2/1/2020	-45.61	63.61
UCW_MW-19	RMW-ISW2	2/2/2020	-45.63	63.63
UCW_MW-19	RMW-ISW2	2/3/2020	-45.71	63.71
UCW_MW-19	RMW-ISW2	2/4/2020	-45.68	63.68
UCW_MW-19	RMW-ISW2	2/5/2020	-45.65	63.65
UCW_MW-19	RMW-ISW2	2/6/2020	-45.66	63.66
UCW_MW-19	RMW-ISW2	2/7/2020	-45.69	63.69
UCW_MW-19	RMW-ISW2	2/8/2020	-45.7	63.7
UCW_MW-19	RMW-ISW2	2/9/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	2/10/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	2/11/2020	-45.73	63.73
UCW_MW-19	RMW-ISW2	2/12/2020	-45.7	63.7
UCW_MW-19	RMW-ISW2	2/13/2020	-45.72	63.72
UCW_MW-19	RMW-ISW2	2/14/2020	-45.72	63.72
UCW_MW-19	RMW-ISW2	2/15/2020	-45.71	63.71
UCW_MW-19	RMW-ISW2	2/16/2020	-45.68	63.68
UCW_MW-19	RMW-ISW2	2/17/2020	-45.69	63.69
UCW_MW-19	RMW-ISW2	2/18/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	2/19/2020	-45.75	63.75
UCW_MW-19	RMW-ISW2	2/20/2020	-45.71	63.71
UCW_MW-19	RMW-ISW2	2/21/2020	-45.71	63.71
UCW_MW-19	RMW-ISW2	2/22/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	2/23/2020	-45.77	63.77
UCW_MW-19	RMW-ISW2	2/24/2020	-45.65	63.65
UCW_MW-19	RMW-ISW2	2/25/2020	-45.66	63.66
UCW_MW-19	RMW-ISW2	2/26/2020	-45.7	63.7

UCW_MW-19	RMW-ISW2	2/27/2020	-45.7	63.7
UCW_MW-19	RMW-ISW2	2/28/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	2/29/2020	-45.77	63.77
UCW_MW-19	RMW-ISW2	3/1/2020	-45.79	63.79
UCW_MW-19	RMW-ISW2	3/2/2020	-45.79	63.79
UCW_MW-19	RMW-ISW2	3/3/2020	-45.76	63.76
UCW_MW-19	RMW-ISW2	3/4/2020	-45.76	63.76
UCW_MW-19	RMW-ISW2	3/5/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	3/6/2020	-45.72	63.72
UCW_MW-19	RMW-ISW2	3/7/2020	-45.75	63.75
UCW_MW-19	RMW-ISW2	3/8/2020	-45.76	63.76
UCW_MW-19	RMW-ISW2	3/9/2020	-45.73	63.73
UCW_MW-19	RMW-ISW2	3/10/2020	-45.71	63.71
UCW_MW-19	RMW-ISW2	3/11/2020	-45.77	63.77
UCW_MW-19	RMW-ISW2	3/12/2020	-45.76	63.76
UCW_MW-19	RMW-ISW2	3/13/2020	-45.82	63.82
UCW_MW-19	RMW-ISW2	3/14/2020	-45.85	63.85
UCW_MW-19	RMW-ISW2	3/15/2020	-45.74	63.74
UCW_MW-19	RMW-ISW2	3/16/2020	-45.8	63.8
UCW_MW-19	RMW-ISW2	3/17/2020	-46.65	64.65
UCW_MW-19	RMW-ISW2	3/18/2020	-49.77	67.77
UCW_MW-19	RMW-ISW2	3/19/2020	-51.27	69.27
UCW_MW-19	RMW-ISW2	3/20/2020	-51.49	69.49
UCW_MW-19	RMW-ISW2	3/21/2020	-51.32	69.32
UCW_MW-19	RMW-ISW2	3/22/2020	-51.15	69.15
UCW_MW-19	RMW-ISW2	3/23/2020	-50.97	68.97
UCW_MW-19	RMW-ISW2	3/24/2020	-50.75	68.75
UCW_MW-19	RMW-ISW2	3/25/2020	-50.53	68.53
UCW_MW-19	RMW-ISW2	3/26/2020	-50.42	68.42
UCW_MW-19	RMW-ISW2	3/27/2020	-50.35	68.35
UCW_MW-19	RMW-ISW2	3/28/2020	-50.2	68.2
UCW_MW-19	RMW-ISW2	3/29/2020	-50.02	68.02
UCW_MW-19	RMW-ISW2	3/30/2020	-49.93	67.93
UCW_MW-19	RMW-ISW2	3/31/2020	-49.72	67.72
UCW_MW-19	RMW-ISW2	4/1/2020	-49.69	67.69
UCW_MW-19	RMW-ISW2	4/2/2020	-49.68	67.68
UCW_MW-19	RMW-ISW2	4/3/2020	-49.52	67.52
UCW_MW-19	RMW-ISW2	4/4/2020	-49.45	67.45
UCW_MW-19	RMW-ISW2	4/5/2020	-49.46	67.46
UCW_MW-19	RMW-ISW2	4/6/2020	-49.55	67.55
UCW_MW-19	RMW-ISW2	4/7/2020	-51.76	69.76
UCW_MW-19	RMW-ISW2	4/8/2020	-56.08	74.08
UCW_MW-19	RMW-ISW2	4/9/2020	-56.36	74.36
UCW_MW-19	RMW-ISW2	4/10/2020	-56.23	74.23
UCW_MW-19	RMW-ISW2	4/11/2020	-56.07	74.07
UCW_MW-19	RMW-ISW2	4/12/2020	-55.77	73.77
UCW_MW-19	RMW-ISW2	4/13/2020	-55.47	73.47
UCW_MW-19	RMW-ISW2	4/14/2020	-55.14	73.14
UCW_MW-19	RMW-ISW2	4/15/2020	-54.86	72.86
UCW_MW-19	RMW-ISW2	4/16/2020	-54.67	72.67
UCW_MW-19	RMW-ISW2	4/17/2020	-54.51	72.51
UCW_MW-19	RMW-ISW2	4/18/2020	-54.25	72.25
UCW_MW-19	RMW-ISW2	4/19/2020	-54.01	72.01
UCW_MW-19	RMW-ISW2	4/20/2020	-53.86	71.86
UCW_MW-19	RMW-ISW2	4/21/2020	-53.68	71.68
UCW_MW-19	RMW-ISW2	4/22/2020	-53.48	71.48
UCW_MW-19	RMW-ISW2	4/23/2020	-53.33	71.33
UCW_MW-19	RMW-ISW2	4/24/2020	-53.22	71.22
UCW_MW-19	RMW-ISW2	4/25/2020	-53.08	71.08
UCW_MW-19	RMW-ISW2	4/26/2020	-52.9	70.9
UCW_MW-19	RMW-ISW2	4/27/2020	-52.72	70.72
UCW_MW-19	RMW-ISW2	4/28/2020	-52.47	70.47
UCW_MW-19	RMW-ISW2	4/29/2020	-52.29	70.29
UCW_MW-19	RMW-ISW2	4/30/2020	-52.11	70.11
UCW_MW-19	RMW-ISW2	5/1/2020	-51.9	69.9
UCW_MW-19	RMW-ISW2	5/2/2020	-51.71	69.71
UCW_MW-19	RMW-ISW2	5/3/2020	-51.49	69.49
UCW_MW-19	RMW-ISW2	5/4/2020	-51.26	69.26
UCW_MW-19	RMW-ISW2	5/5/2020	-51.06	69.06
UCW_MW-19	RMW-ISW2	5/6/2020	-50.89	68.89
UCW_MW-19	RMW-ISW2	5/7/2020	-50.65	68.65
UCW_MW-19	RMW-ISW2	5/8/2020	-50.55	68.55
UCW_MW-19	RMW-ISW2	5/9/2020	-50.38	68.38
UCW_MW-19	RMW-ISW2	5/10/2020	-50.18	68.18
UCW_MW-19	RMW-ISW2	5/11/2020	-50	68
UCW_MW-19	RMW-ISW2	5/12/2020	-49.85	67.85
UCW_MW-19	RMW-ISW2	5/13/2020	-49.73	67.73
UCW_MW-19	RMW-ISW2	5/14/2020	-49.6	67.6
UCW_MW-19	RMW-ISW2	5/15/2020	-49.52	67.52

UCW_MW-19	RMW-ISW2	5/16/2020	-49.44	67.44
UCW_MW-19	RMW-ISW2	5/17/2020	-49.37	67.37
UCW_MW-19	RMW-ISW2	5/18/2020	-49.27	67.27
UCW_MW-19	RMW-ISW2	5/19/2020	-49.13	67.13
UCW_MW-19	RMW-ISW2	5/20/2020	-49.14	67.14
UCW_MW-19	RMW-ISW2	5/21/2020	-49.1	67.1
UCW_MW-19	RMW-ISW2	5/22/2020	-49.07	67.07
UCW_MW-19	RMW-ISW2	5/23/2020	-49	67
UCW_MW-19	RMW-ISW2	5/24/2020	-48.84	66.84
UCW_MW-19	RMW-ISW2	5/25/2020	-48.7	66.7
UCW_MW-19	RMW-ISW2	5/26/2020	-48.6	66.6
UCW_MW-19	RMW-ISW2	5/27/2020	-48.47	66.47
UCW_MW-19	RMW-ISW2	5/28/2020	-48.34	66.34
UCW_MW-19	RMW-ISW2	5/29/2020	-48.2	66.2
UCW_MW-19	RMW-ISW2	5/30/2020	-48.09	66.09
UCW_MW-19	RMW-ISW2	5/31/2020	-47.95	65.95
UCW_MW-19	RMW-ISW2	6/1/2020	-47.84	65.84
UCW_MW-19	RMW-ISW2	6/2/2020	-47.74	65.74
UCW_MW-19	RMW-ISW2	6/3/2020	-47.66	65.66
UCW_MW-19	RMW-ISW2	6/4/2020	-47.56	65.56
UCW_MW-19	RMW-ISW2	6/5/2020	-47.49	65.49
UCW_MW-19	RMW-ISW2	6/6/2020	-47.36	65.36
UCW_MW-19	RMW-ISW2	6/7/2020	-47.31	65.31
UCW_MW-19	RMW-ISW2	6/8/2020	-47.31	65.31
UCW_MW-19	RMW-ISW2	6/9/2020	-47.28	65.28
UCW_MW-19	RMW-ISW2	6/10/2020	-47.19	65.19
UCW_MW-19	RMW-ISW2	6/11/2020	-47.01	65.01
UCW_MW-19	RMW-ISW2	6/12/2020	-46.86	64.86
UCW_MW-19	RMW-ISW2	6/13/2020	-46.8	64.8
UCW_MW-19	RMW-ISW2	6/14/2020	-46.75	64.75
UCW_MW-19	RMW-ISW2	6/15/2020	-46.62	64.62
UCW_MW-19	RMW-ISW2	6/16/2020	-46.52	64.52
UCW_MW-19	RMW-ISW2	6/17/2020	-46.45	64.45
UCW_MW-19	RMW-ISW2	6/18/2020	-46.13	64.13
UCW_MW-19	RMW-ISW2	6/19/2020	-45.81	63.81
UCW_MW-19	RMW-ISW2	6/20/2020	-45.59	63.59
UCW_MW-19	RMW-ISW2	6/21/2020	-45.52	63.52
UCW_MW-19	RMW-ISW2	6/22/2020	-45.39	63.39
UCW_MW-19	RMW-ISW2	6/23/2020	-45.26	63.26
UCW_MW-19	RMW-ISW2	6/24/2020	-45.05	63.05
UCW_MW-19	RMW-ISW2	6/25/2020	-44.83	62.83
UCW_MW-19	RMW-ISW2	6/26/2020	-44.81	62.81
UCW_MW-19	RMW-ISW2	6/27/2020	-44.97	62.97
UCW_MW-19	RMW-ISW2	6/28/2020	-44.93	62.93
UCW_MW-19	RMW-ISW2	6/29/2020	-44.8	62.8
UCW_MW-19	RMW-ISW2	6/30/2020	-44.77	62.77
UCW_MW-19	RMW-ISW2	7/1/2020	-44.75	62.75
UCW_MW-19	RMW-ISW2	7/2/2020	-44.66	62.66
UCW_MW-19	RMW-ISW2	7/3/2020	-44.67	62.67
UCW_MW-19	RMW-ISW2	7/4/2020	-44.48	62.48
UCW_MW-19	RMW-ISW2	7/5/2020	-44.13	62.13
UCW_MW-19	RMW-ISW2	7/6/2020	-43.76	61.76
UCW_MW-19	RMW-ISW2	7/7/2020	-43.42	61.42
UCW_MW-19	RMW-ISW2	7/8/2020	-43.19	61.19
UCW_MW-19	RMW-ISW2	7/9/2020	-42.9	60.9
UCW_MW-19	RMW-ISW2	7/10/2020	-42.73	60.73
UCW_MW-19	RMW-ISW2	7/11/2020	-42.75	60.75
UCW_MW-19	RMW-ISW2	7/12/2020	-42.58	60.58
UCW_MW-19	RMW-ISW2	7/13/2020	-42.35	60.35
UCW_MW-19	RMW-ISW2	7/14/2020	-42.16	60.16
UCW_MW-19	RMW-ISW2	7/15/2020	-42	60
UCW_MW-19	RMW-ISW2	7/16/2020	-41.82	59.82
UCW_MW-19	RMW-ISW2	7/17/2020	-41.65	59.65
UCW_MW-19	RMW-ISW2	7/18/2020	-41.53	59.53
UCW_MW-19	RMW-ISW2	7/19/2020	-41.34	59.34
UCW_MW-19	RMW-ISW2	7/20/2020	-41.18	59.18
UCW_MW-19	RMW-ISW2	7/21/2020	-41	59
UCW_MW-19	RMW-ISW2	7/22/2020	-40.56	58.56
UCW_MW-19	RMW-ISW2	7/23/2020	-40.29	58.29
UCW_MW-19	RMW-ISW2	7/24/2020	-40.11	58.11
UCW_MW-19	RMW-ISW2	7/25/2020	-39.95	57.95
UCW_MW-19	RMW-ISW2	7/26/2020	-39.81	57.81
UCW_MW-19	RMW-ISW2	7/27/2020	-39.71	57.71
UCW_MW-19	RMW-ISW2	7/28/2020	-39.63	57.63
UCW_MW-19	RMW-ISW2	7/29/2020	-39.6	57.6
UCW_MW-19	RMW-ISW2	7/30/2020	-39.56	57.56
UCW_MW-19	RMW-ISW2	7/31/2020	-39.53	57.53
UCW_MW-19	RMW-ISW2	8/1/2020	-39.43	57.43
UCW_MW-19	RMW-ISW2	8/2/2020	-39.36	57.36

UCW_MW-19	RMW-ISW2	8/3/2020	-39.27	57.27
UCW_MW-19	RMW-ISW2	8/4/2020	-39.22	57.22
UCW_MW-19	RMW-ISW2	8/5/2020	-39.06	57.06
UCW_MW-19	RMW-ISW2	8/6/2020	-38.91	56.91
UCW_MW-19	RMW-ISW2	8/7/2020	-38.76	56.76
UCW_MW-19	RMW-ISW2	8/8/2020	-38.6	56.6
UCW_MW-19	RMW-ISW2	8/9/2020	-38.54	56.54
UCW_MW-19	RMW-ISW2	8/10/2020	-38.44	56.44
UCW_MW-19	RMW-ISW2	8/11/2020	-38.32	56.32
UCW_MW-19	RMW-ISW2	8/12/2020	-38.07	56.07
UCW_MW-19	RMW-ISW2	8/13/2020	-37.86	55.86
UCW_MW-19	RMW-ISW2	8/14/2020	-37.7	55.7
UCW_MW-19	RMW-ISW2	8/15/2020	-37.56	55.56
UCW_MW-19	RMW-ISW2	8/16/2020	-37.43	55.43
UCW_MW-19	RMW-ISW2	8/17/2020	-37.44	55.44
UCW_MW-19	RMW-ISW2	8/18/2020	-37.38	55.38
UCW_MW-19	RMW-ISW2	8/19/2020	-37.41	55.41
UCW_MW-19	RMW-ISW2	8/20/2020	-37.44	55.44
UCW_MW-19	RMW-ISW2	8/21/2020	-37.36	55.36
UCW_MW-19	RMW-ISW2	8/22/2020	-37.27	55.27
UCW_MW-19	RMW-ISW2	8/23/2020	-37.22	55.22
UCW_MW-19	RMW-ISW2	8/24/2020	-37.17	55.17
UCW_MW-19	RMW-ISW2	8/25/2020	-37.1	55.1
UCW_MW-19	RMW-ISW2	8/26/2020	-37.02	55.02
UCW_MW-19	RMW-ISW2	8/27/2020	-36.94	54.94
UCW_MW-19	RMW-ISW2	8/28/2020	-36.87	54.87
UCW_MW-19	RMW-ISW2	8/29/2020	-36.8	54.8
UCW_MW-19	RMW-ISW2	8/30/2020	-36.81	54.81
UCW_MW-19	RMW-ISW2	8/31/2020	-36.77	54.77
UCW_MW-19	RMW-ISW2	9/1/2020	-36.92429489	54.92429489
UCW_MW-19	RMW-ISW2	9/2/2020	-36.90121445	54.90121445
UCW_MW-19	RMW-ISW2	9/3/2020	-36.98876261	54.98876261
UCW_MW-19	RMW-ISW2	9/4/2020	-36.93943777	54.93943777
UCW_MW-19	RMW-ISW2	9/5/2020	-36.79183597	54.79183597
UCW_MW-19	RMW-ISW2	9/6/2020	-36.72899613	54.72899613
UCW_MW-19	RMW-ISW2	9/7/2020	-36.70169272	54.70169272
UCW_MW-19	RMW-ISW2	9/8/2020	-36.47480488	54.47480488
UCW_MW-19	RMW-ISW2	9/9/2020	-36.25065107	54.25065107
UCW_MW-19	RMW-ISW2	9/10/2020	-36.3914958	54.3914958
UCW_MW-19	RMW-ISW2	9/11/2020	-36.59385719	54.59385719
UCW_MW-19	RMW-ISW2	9/12/2020	-36.62123445	54.62123445
UCW_MW-19	RMW-ISW2	9/13/2020	-36.52968126	54.52968126
UCW_MW-19	RMW-ISW2	9/14/2020	-36.48734067	54.48734067
UCW_MW-19	RMW-ISW2	9/15/2020	-36.54615931	54.54615931
UCW_MW-19	RMW-ISW2	9/16/2020	-36.5844727	54.5844727
UCW_MW-19	RMW-ISW2	9/17/2020	-36.52572791	54.52572791
UCW_MW-19	RMW-ISW2	9/18/2020	-36.41777052	54.41777052
UCW_MW-19	RMW-ISW2	9/19/2020	-36.40272039	54.40272039
UCW_MW-19	RMW-ISW2	9/20/2020	-36.36994891	54.36994891
UCW_MW-19	RMW-ISW2	9/21/2020	-36.27703425	54.27703425
UCW_MW-19	RMW-ISW2	9/22/2020	-36.25656592	54.25656592
UCW_MW-19	RMW-ISW2	9/23/2020	-36.32495368	54.32495368
UCW_MW-19	RMW-ISW2	9/24/2020	-36.34686841	54.34686841
UCW_MW-19	RMW-ISW2	9/25/2020	-36.274459	54.274459
UCW_MW-19	RMW-ISW2	9/26/2020	-36.24578857	54.24578857
UCW_MW-19	RMW-ISW2	9/27/2020	-36.20754903	54.20754903
UCW_MW-19	RMW-ISW2	9/28/2020	-36.07718734	54.07718734
UCW_MW-19	RMW-ISW2	9/29/2020	-36.06492112	54.06492112
UCW_MW-19	RMW-ISW2	9/30/2020	-36.10389955	54.10389955
UCW_MW-19	RMW-ISW2	10/1/2020	-36.09053233	54.09053233
UCW_MW-19	RMW-ISW2	10/2/2020	-35.99473954	53.99473954
UCW_MW-19	RMW-ISW2	10/3/2020	-35.94802634	53.94802634
UCW_MW-19	RMW-ISW2	10/4/2020	-35.87424436	53.87424436
UCW_MW-19	RMW-ISW2	10/5/2020	-35.887957	53.887957
UCW_MW-19	RMW-ISW2	10/6/2020	-35.91670681	53.91670681
UCW_MW-19	RMW-ISW2	10/7/2020	-35.85386097	53.85386097
UCW_MW-19	RMW-ISW2	10/8/2020	-35.76354179	53.76354179
UCW_MW-19	RMW-ISW2	10/9/2020	-35.77451485	53.77451485
UCW_MW-19	RMW-ISW2	10/10/2020	-35.78275387	53.78275387
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UCW_MW-19	RMW-ISW2	10/12/2020	-35.84690016	53.84690016
UCW_MW-19	RMW-ISW2	10/13/2020	-35.83873499	53.83873499
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UCW_MW-19	RMW-ISW2	10/16/2020	-35.66483054	53.66483054
UCW_MW-19	RMW-ISW2	10/17/2020	-35.61006996	53.61006996
UCW_MW-19	RMW-ISW2	10/18/2020	-35.54859113	53.54859113
UCW_MW-19	RMW-ISW2	10/19/2020	-35.55977846	53.55977846
UCW_MW-19	RMW-ISW2	10/20/2020	-35.51703884	53.51703884

UCW_MW-19	RMW-ISW2	10/21/2020	-35.39510834	53.39510834
UCW_MW-19	RMW-ISW2	10/22/2020	-35.29447373	53.29447373
UCW_MW-19	RMW-ISW2	10/23/2020	-35.30271276	53.30271276
UCW_MW-19	RMW-ISW2	10/24/2020	-35.36836649	53.36836649
UCW_MW-19	RMW-ISW2	10/25/2020	-35.36840341	53.36840341
UCW_MW-19	RMW-ISW2	10/26/2020	-35.33973299	53.33973299
UCW_MW-19	RMW-ISW2	10/27/2020	-35.50517893	53.50517893
UCW_MW-19	RMW-ISW2	10/28/2020	-35.48198258	53.48198258
UCW_MW-19	RMW-ISW2	10/29/2020	-35.45101548	53.45101548
UCW_MW-19	RMW-ISW2	10/30/2020	-35.4017733	53.4017733
UCW_MW-19	RMW-ISW2	10/31/2020	-35.364535	53.364535
UCW_MW-19	RMW-ISW2	11/1/2020	-35.38781121	53.38781121
UCW_MW-19	RMW-ISW2	11/2/2020	-35.4261246	53.4261246
UCW_MW-19	RMW-ISW2	11/3/2020	-35.34687456	53.34687456
UCW_MW-19	RMW-ISW2	11/4/2020	-35.29218648	53.29218648
UCW_MW-19	RMW-ISW2	11/5/2020	-35.39885071	53.39885071
UCW_MW-19	RMW-ISW2	11/6/2020	-35.25124983	53.25124983
UCW_MW-19	RMW-ISW2	11/7/2020	-34.86168701	52.86168701
UCW_MW-19	RMW-ISW2	11/8/2020	-34.8179794	52.8179794
UCW_MW-19	RMW-ISW2	11/9/2020	-34.88636716	52.88636716
UCW_MW-19	RMW-ISW2	11/10/2020	-35.27206443	53.27206443
UCW_MW-19	RMW-ISW2	11/11/2020	-35.33221037	53.33221037
UCW_MW-19	RMW-ISW2	11/12/2020	-35.19816882	53.19816882
UCW_MW-19	RMW-ISW2	11/13/2020	-35.16676436	53.16676436
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UCW_MW-19	RMW-ISW2	11/15/2020	-35.32267812	53.32267812
UCW_MW-19	RMW-ISW2	11/16/2020	-35.32407559	53.32407559
UCW_MW-19	RMW-ISW2	11/17/2020	-35.10811927	53.10811927
UCW_MW-19	RMW-ISW2	11/18/2020	-34.91130579	52.91130579
UCW_MW-19	RMW-ISW2	11/19/2020	-35.05153119	53.05153119
UCW_MW-19	RMW-ISW2	11/20/2020	-35.27047275	53.27047275
UCW_MW-19	RMW-ISW2	11/21/2020	-35.24634674	53.24634674
UCW_MW-19	RMW-ISW2	11/22/2020	-35.18213388	53.18213388
UCW_MW-19	RMW-ISW2	11/23/2020	-35.01691696	53.01691696
UCW_MW-19	RMW-ISW2	11/24/2020	-34.96496292	52.96496292
UCW_MW-19	RMW-ISW2	11/25/2020	-35.03460685	53.03460685
UCW_MW-19	RMW-ISW2	11/26/2020	-35.10709566	53.10709566
UCW_MW-19	RMW-ISW2	11/27/2020	-35.11943574	53.11943574
UCW_MW-19	RMW-ISW2	11/28/2020	-35.146813	53.146813
UCW_MW-19	RMW-ISW2	11/29/2020	-35.15915954	53.15915954
UCW_MW-19	RMW-ISW2	11/30/2020	-35.10862147	53.10862147
UCW_MW-19	RMW-ISW2	12/1/2020	-35.14966889	53.14966889
UCW_MW-19	RMW-ISW2	12/2/2020	-35.07725393	53.07725393
UCW_MW-19	RMW-ISW2	12/3/2020	-34.98839044	52.98839044
UCW_MW-19	RMW-ISW2	12/4/2020	-35.09642168	53.09642168
UCW_MW-19	RMW-ISW2	12/5/2020	-35.08278844	53.08278844
UCW_MW-19	RMW-ISW2	12/6/2020	-35.06626183	53.06626183
UCW_MW-19	RMW-ISW2	12/7/2020	-35.07303824	53.07303824
UCW_MW-19	RMW-ISW2	12/8/2020	-34.96370691	52.96370691
UCW_MW-19	RMW-ISW2	12/9/2020	-34.95281047	52.95281047
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UCW_MW-19	RMW-ISW2	12/15/2020	-34.99663343	52.99663343
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UCW_MW-19	RMW-ISW2	12/17/2020	-34.95486132	52.95486132
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UCW_MW-19	RMW-ISW2	12/19/2020	-36.02720412	54.02720412
UCW_MW-19	RMW-ISW2	12/20/2020	-36.46632357	54.46632357
UCW_MW-19	RMW-ISW2	12/21/2020	-36.64177091	54.64177091
UCW_MW-19	RMW-ISW2	12/22/2020	-36.64610839	54.64610839
UCW_MW-19	RMW-ISW2	12/23/2020	-36.83906093	54.83906093
UCW_MW-19	RMW-ISW2	12/24/2020	-37.07586469	55.07586469
UCW_MW-19	RMW-ISW2	12/25/2020	-37.1896411	55.1896411
UCW_MW-19	RMW-ISW2	12/26/2020	-37.12296438	55.12296438
UCW_MW-19	RMW-ISW2	12/27/2020	-37.25450093	55.25450093
UCW_MW-19	RMW-ISW2	12/28/2020	-37.08119275	55.08119275
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UCW_MW-19	RMW-ISW2	12/30/2020	-37.47822932	55.47822932
UCW_MW-19	RMW-ISW2	12/31/2020	-37.65624166	55.65624166
UCW_MW-19	RMW-ISW2	1/1/2021	-37.58819654	55.58819654
UCW_MW-19	RMW-ISW2	1/2/2021	-37.65273957	55.65273957
UCW_MW-19	RMW-ISW2	1/3/2021	-37.78154069	55.78154069
UCW_MW-19	RMW-ISW2	1/4/2021	-37.81875724	55.81875724
UCW_MW-19	RMW-ISW2	1/5/2021	-37.79035284	55.79035284
UCW_MW-19	RMW-ISW2	1/6/2021	-37.96016585	55.96016585
UCW_MW-19	RMW-ISW2	1/7/2021	-37.99737824	55.99737824

UCW_MW-19	RMW-ISW2	1/8/2021	-38.07833517	56.07833517
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UCW_MW-19	RMW-ISW2	1/11/2021	-38.2760944	56.2760944
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UCW_MW-19	RMW-ISW2	1/14/2021	-38.47121935	56.47121935
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UCW_MW-19	RMW-ISW2	1/16/2021	-38.50179985	56.50179985
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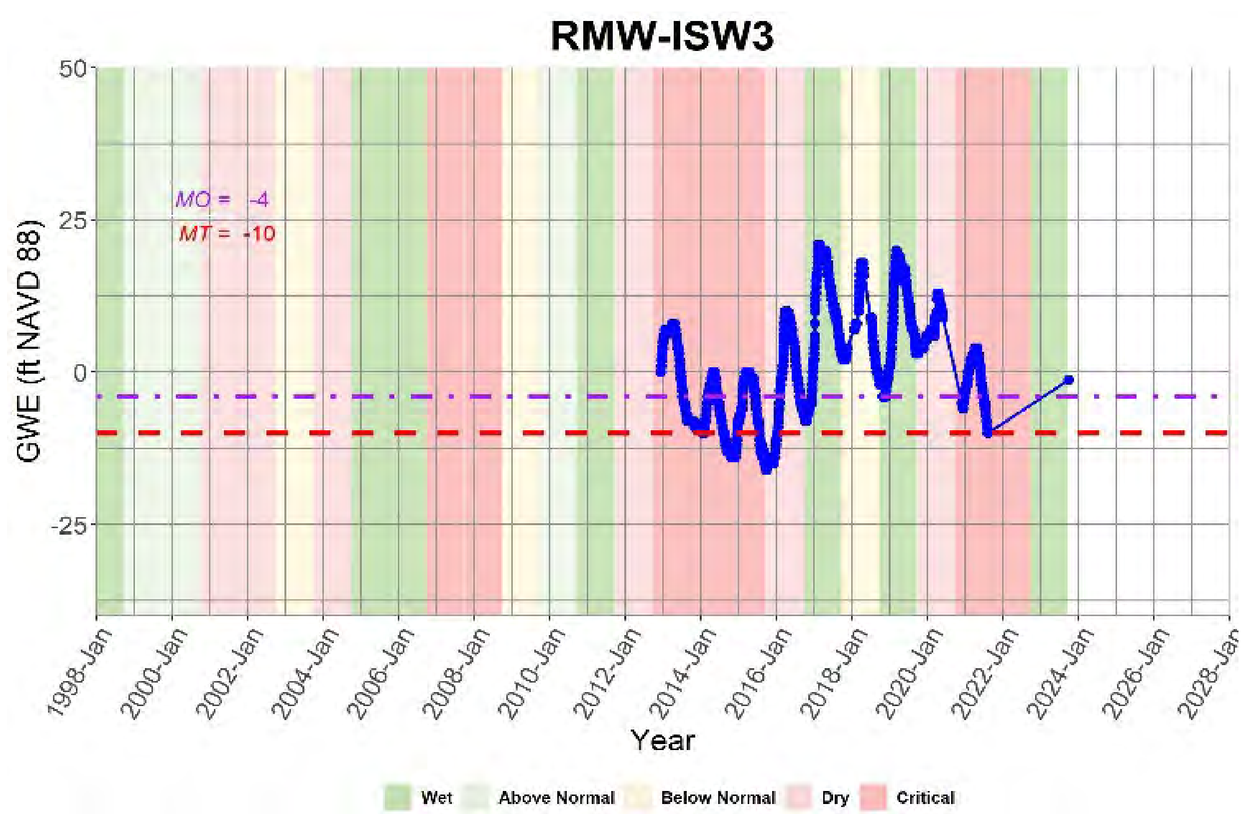
UCW_MW-19	RMW-ISW2	1/18/2021	-38.36707802	56.36707802
UCW_MW-19	RMW-ISW2	1/19/2021	-38.25545601	56.25545601
UCW_MW-19	RMW-ISW2	1/20/2021	-38.32404328	56.32404328
UCW_MW-19	RMW-ISW2	1/21/2021	-38.4582141	56.4582141
UCW_MW-19	RMW-ISW2	1/22/2021	-38.45987714	56.45987714
UCW_MW-19	RMW-ISW2	1/23/2021	-38.36175073	56.36175073
UCW_MW-19	RMW-ISW2	1/24/2021	-38.43310528	56.43310528
UCW_MW-19	RMW-ISW2	1/25/2021	-38.41700403	56.41700403
UCW_MW-19	RMW-ISW2	1/26/2021	-38.37047371	56.37047371
UCW_MW-19	RMW-ISW2	1/27/2021	-38.50920003	56.50920003
UCW_MW-19	RMW-ISW2	1/28/2021	-38.47815765	56.47815765
UCW_MW-19	RMW-ISW2	1/29/2021	-38.52758822	56.52758822
UCW_MW-19	RMW-ISW2	1/30/2021	-39.15535181	57.15535181
UCW_MW-19	RMW-ISW2	1/31/2021	-39.97511845	57.97511845
UCW_MW-19	RMW-ISW2	4/13/2022		NM
UCW_MW-19	RMW-ISW2	10/5/2022	#VALUE!	NM
UCW_MW-19	RMW-ISW2	4/25/2023	#VALUE!	NM
UCW_MW-19	RMW-ISW2	11/10/2023		

Site Code: 383096N1213760W001 **State Well Number:** **Local Well Name:** UCW_MW-5

Site Code: 383096N1213760W001
Local Well Name: UCW_MW-5
State Well Number:
Station ID: 57720
WCR Number:
Latitude: 38.30965
Longitude: -121.37600
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Observation
Well Completion Type: Single Well
Well Depth (feet bgs): 64
Top Perforation (feet bgs): 54
Bottom Perforation (feet bgs): 64
Ground Surface Elevation: 26
Reference Point Elevation: 26
Reference Point Description: top of casing
Station Comments: Network ID: RMW-ISW3



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
UCW_MW-5	RMW-ISW3	12/14/2012	26	0
UCW_MW-5	RMW-ISW3	12/15/2012	26	0
UCW_MW-5	RMW-ISW3	12/16/2012	25	1
UCW_MW-5	RMW-ISW3	12/17/2012	25	1
UCW_MW-5	RMW-ISW3	12/18/2012	25	1
UCW_MW-5	RMW-ISW3	12/19/2012	25	1
UCW_MW-5	RMW-ISW3	12/20/2012	25	1
UCW_MW-5	RMW-ISW3	12/21/2012	25	1
UCW_MW-5	RMW-ISW3	12/22/2012	24	2
UCW_MW-5	RMW-ISW3	12/23/2012	24	2
UCW_MW-5	RMW-ISW3	12/24/2012	24	2
UCW_MW-5	RMW-ISW3	12/25/2012	24	2
UCW_MW-5	RMW-ISW3	12/26/2012	23	3
UCW_MW-5	RMW-ISW3	12/27/2012	23	3
UCW_MW-5	RMW-ISW3	12/28/2012	22	4
UCW_MW-5	RMW-ISW3	12/29/2012	22	4
UCW_MW-5	RMW-ISW3	12/30/2012	22	4
UCW_MW-5	RMW-ISW3	12/31/2012	22	4
UCW_MW-5	RMW-ISW3	1/1/2013	21	5
UCW_MW-5	RMW-ISW3	1/2/2013	21	5
UCW_MW-5	RMW-ISW3	1/3/2013	21	5
UCW_MW-5	RMW-ISW3	1/4/2013	21	5
UCW_MW-5	RMW-ISW3	1/5/2013	21	5
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UCW_MW-5	RMW-ISW3	1/11/2013	20	6
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UCW_MW-5	RMW-ISW3	1/18/2013	20	6
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UCW_MW-5	RMW-ISW3	2/7/2013	19	7
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UCW_MW-5	RMW-ISW3	6/2/2013	22	4
UCW_MW-5	RMW-ISW3	6/3/2013	22	4
UCW_MW-5	RMW-ISW3	6/4/2013	22	4
UCW_MW-5	RMW-ISW3	6/5/2013	23	3
UCW_MW-5	RMW-ISW3	6/6/2013	23	3
UCW_MW-5	RMW-ISW3	6/7/2013	23	3
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UCW_MW-5	RMW-ISW3	6/9/2013	23	3
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UCW_MW-5	RMW-ISW3	6/21/2013	25	1
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UCW_MW-5	RMW-ISW3	6/24/2013	26	0
UCW_MW-5	RMW-ISW3	6/25/2013	26	0
UCW_MW-5	RMW-ISW3	6/26/2013	26	0
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UCW_MW-5	RMW-ISW3	6/28/2013	27	-1
UCW_MW-5	RMW-ISW3	6/29/2013	27	-1
UCW_MW-5	RMW-ISW3	6/30/2013	27	-1
UCW_MW-5	RMW-ISW3	7/1/2013	27	-1
UCW_MW-5	RMW-ISW3	7/2/2013	27	-1
UCW_MW-5	RMW-ISW3	7/3/2013	28	-2
UCW_MW-5	RMW-ISW3	7/4/2013	28	-2
UCW_MW-5	RMW-ISW3	7/5/2013	28	-2
UCW_MW-5	RMW-ISW3	7/6/2013	28	-2
UCW_MW-5	RMW-ISW3	7/7/2013	28	-2
UCW_MW-5	RMW-ISW3	7/8/2013	28	-2
UCW_MW-5	RMW-ISW3	7/9/2013	28	-2
UCW_MW-5	RMW-ISW3	7/10/2013	29	-3
UCW_MW-5	RMW-ISW3	7/11/2013	29	-3
UCW_MW-5	RMW-ISW3	7/12/2013	29	-3
UCW_MW-5	RMW-ISW3	7/13/2013	29	-3
UCW_MW-5	RMW-ISW3	7/14/2013	29	-3
UCW_MW-5	RMW-ISW3	7/15/2013	29	-3
UCW_MW-5	RMW-ISW3	7/16/2013	30	-4
UCW_MW-5	RMW-ISW3	7/17/2013	30	-4
UCW_MW-5	RMW-ISW3	7/18/2013	30	-4
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UCW_MW-5	RMW-ISW3	7/21/2013	30	-4
UCW_MW-5	RMW-ISW3	7/22/2013	30	-4
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UCW_MW-5	RMW-ISW3	7/26/2013	31	-5
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UCW_MW-5	RMW-ISW3	8/3/2013	32	-6
UCW_MW-5	RMW-ISW3	8/4/2013	32	-6
UCW_MW-5	RMW-ISW3	8/5/2013	32	-6
UCW_MW-5	RMW-ISW3	8/6/2013	32	-6
UCW_MW-5	RMW-ISW3	8/7/2013	32	-6
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UCW_MW-5	RMW-ISW3	8/15/2013	33	-7
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UCW_MW-5	RMW-ISW3	9/14/2013	34	-8

UCW_MW-5	RMW-ISW3	9/15/2013	34	-8
UCW_MW-5	RMW-ISW3	9/16/2013	34	-8
UCW_MW-5	RMW-ISW3	9/17/2013	34	-8
UCW_MW-5	RMW-ISW3	9/18/2013	34	-8
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UCW_MW-5	RMW-ISW3	11/16/2013	35	-9
UCW_MW-5	RMW-ISW3	11/17/2013	35	-9
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UCW_MW-5	RMW-ISW3	11/19/2013	35	-9
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UCW_MW-5	RMW-ISW3	12/2/2013	35	-9

UCW_MW-5	RMW-ISW3	12/3/2013	35	-9
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UCW_MW-5	RMW-ISW3	12/5/2013	35	-9
UCW_MW-5	RMW-ISW3	12/6/2013	35	-9
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UCW_MW-5	RMW-ISW3	12/16/2013	35	-9
UCW_MW-5	RMW-ISW3	12/17/2013	35	-9
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UCW_MW-5	RMW-ISW3	12/23/2013	35	-9
UCW_MW-5	RMW-ISW3	12/24/2013	35	-9
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UCW_MW-5	RMW-ISW3	2/22/2014	33	-7
UCW_MW-5	RMW-ISW3	2/23/2014	33	-7
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UCW_MW-5	RMW-ISW3	4/27/2014	27	-1
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UCW_MW-5	RMW-ISW3	4/29/2014	26	0
UCW_MW-5	RMW-ISW3	4/30/2014	26	0
UCW_MW-5	RMW-ISW3	5/1/2014	26	0
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UCW_MW-5	RMW-ISW3	5/7/2014	26	0
UCW_MW-5	RMW-ISW3	5/8/2014	26	0
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UCW_MW-5	RMW-ISW3	5/10/2014	26	0
UCW_MW-5	RMW-ISW3	5/11/2014	26	0
UCW_MW-5	RMW-ISW3	5/12/2014	26	0
UCW_MW-5	RMW-ISW3	5/13/2014	26	0
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UCW_MW-5	RMW-ISW3	6/2/2014	28	-2
UCW_MW-5	RMW-ISW3	6/3/2014	28	-2
UCW_MW-5	RMW-ISW3	6/4/2014	28	-2
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UCW_MW-5	RMW-ISW3	6/6/2014	29	-3
UCW_MW-5	RMW-ISW3	6/7/2014	29	-3
UCW_MW-5	RMW-ISW3	6/8/2014	29	-3
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UCW_MW-5	RMW-ISW3	6/14/2014	30	-4
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UCW_MW-5	RMW-ISW3	6/23/2014	31	-5
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UCW_MW-5	RMW-ISW3	7/24/2014	34	-8
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UCW_MW-5	RMW-ISW3	7/27/2014	34	-8

UCW_MW-5	RMW-ISW3	7/28/2014	34	-8
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UCW_MW-5	RMW-ISW3	7/30/2014	35	-9
UCW_MW-5	RMW-ISW3	7/31/2014	35	-9
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UCW_MW-5	RMW-ISW3	8/4/2014	35	-9
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UCW_MW-5	RMW-ISW3	8/6/2014	35	-9
UCW_MW-5	RMW-ISW3	8/7/2014	35	-9
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UCW_MW-5	RMW-ISW3	8/24/2014	37	-11
UCW_MW-5	RMW-ISW3	8/25/2014	37	-11
UCW_MW-5	RMW-ISW3	8/26/2014	37	-11
UCW_MW-5	RMW-ISW3	8/27/2014	37	-11
UCW_MW-5	RMW-ISW3	8/28/2014	37	-11
UCW_MW-5	RMW-ISW3	8/29/2014	37	-11
UCW_MW-5	RMW-ISW3	8/30/2014	37	-11
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UCW_MW-5	RMW-ISW3	9/1/2014	38	-12
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UCW_MW-5	RMW-ISW3	9/3/2014	38	-12
UCW_MW-5	RMW-ISW3	9/4/2014	38	-12
UCW_MW-5	RMW-ISW3	9/5/2014	38	-12
UCW_MW-5	RMW-ISW3	9/6/2014	38	-12
UCW_MW-5	RMW-ISW3	9/7/2014	38	-12
UCW_MW-5	RMW-ISW3	9/8/2014	38	-12
UCW_MW-5	RMW-ISW3	9/9/2014	38	-12
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UCW_MW-5	RMW-ISW3	9/19/2014	39	-13
UCW_MW-5	RMW-ISW3	9/20/2014	39	-13
UCW_MW-5	RMW-ISW3	9/21/2014	39	-13
UCW_MW-5	RMW-ISW3	9/22/2014	39	-13
UCW_MW-5	RMW-ISW3	9/23/2014	39	-13
UCW_MW-5	RMW-ISW3	9/24/2014	39	-13
UCW_MW-5	RMW-ISW3	9/25/2014	39	-13
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UCW_MW-5	RMW-ISW3	9/28/2014	39	-13
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UCW_MW-5	RMW-ISW3	10/12/2014	39	-13
UCW_MW-5	RMW-ISW3	10/13/2014	39	-13
UCW_MW-5	RMW-ISW3	10/14/2014	39	-13

UCW_MW-5	RMW-ISW3	10/15/2014	39	-13
UCW_MW-5	RMW-ISW3	10/16/2014	39	-13
UCW_MW-5	RMW-ISW3	10/17/2014	39	-13
UCW_MW-5	RMW-ISW3	10/18/2014	39	-13
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UCW_MW-5	RMW-ISW3	1/1/2015	34	-8

UCW_MW-5	RMW-ISW3	1/2/2015	34	-8
UCW_MW-5	RMW-ISW3	1/3/2015	34	-8
UCW_MW-5	RMW-ISW3	1/4/2015	34	-8
UCW_MW-5	RMW-ISW3	1/5/2015	34	-8
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UCW_MW-5	RMW-ISW3	2/9/2015	32	-6
UCW_MW-5	RMW-ISW3	2/10/2015	31	-5
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UCW_MW-5	RMW-ISW3	3/6/2015	27	-1
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UCW_MW-5	RMW-ISW3	3/14/2015	26	0
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UCW_MW-5	RMW-ISW3	3/17/2015	26	0
UCW_MW-5	RMW-ISW3	3/18/2015	26	0
UCW_MW-5	RMW-ISW3	3/19/2015	26	0
UCW_MW-5	RMW-ISW3	3/20/2015	26	0
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UCW_MW-5	RMW-ISW3	3/22/2015	26	0
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UCW_MW-5	RMW-ISW3	7/12/2015	34	-8
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UCW_MW-5	RMW-ISW3	8/5/2015	39	-13
UCW_MW-5	RMW-ISW3	8/6/2015	39	-13
UCW_MW-5	RMW-ISW3	8/7/2015	39	-13
UCW_MW-5	RMW-ISW3	8/8/2015	39	-13
UCW_MW-5	RMW-ISW3	8/9/2015	39	-13
UCW_MW-5	RMW-ISW3	8/10/2015	39	-13
UCW_MW-5	RMW-ISW3	8/11/2015	39	-13
UCW_MW-5	RMW-ISW3	8/12/2015	39	-13
UCW_MW-5	RMW-ISW3	8/13/2015	38	-12
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UCW_MW-5	RMW-ISW3	8/15/2015	38	-12
UCW_MW-5	RMW-ISW3	8/16/2015	38	-12
UCW_MW-5	RMW-ISW3	8/17/2015	38	-12
UCW_MW-5	RMW-ISW3	8/18/2015	38	-12
UCW_MW-5	RMW-ISW3	8/19/2015	38	-12
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UCW_MW-5	RMW-ISW3	8/21/2015	38	-12
UCW_MW-5	RMW-ISW3	8/22/2015	39	-13
UCW_MW-5	RMW-ISW3	8/23/2015	39	-13
UCW_MW-5	RMW-ISW3	8/24/2015	39	-13
UCW_MW-5	RMW-ISW3	8/25/2015	40	-14
UCW_MW-5	RMW-ISW3	8/26/2015	40	-14

UCW_MW-5	RMW-ISW3	8/27/2015	40	-14
UCW_MW-5	RMW-ISW3	8/28/2015	40	-14
UCW_MW-5	RMW-ISW3	8/29/2015	39	-13
UCW_MW-5	RMW-ISW3	8/30/2015	39	-13
UCW_MW-5	RMW-ISW3	8/31/2015	39	-13
UCW_MW-5	RMW-ISW3	9/1/2015	39	-13
UCW_MW-5	RMW-ISW3	9/2/2015	39	-13
UCW_MW-5	RMW-ISW3	9/3/2015	39	-13
UCW_MW-5	RMW-ISW3	9/4/2015	39	-13
UCW_MW-5	RMW-ISW3	9/5/2015	39	-13
UCW_MW-5	RMW-ISW3	9/6/2015	39	-13
UCW_MW-5	RMW-ISW3	9/7/2015	39	-13
UCW_MW-5	RMW-ISW3	9/8/2015	39	-13
UCW_MW-5	RMW-ISW3	9/9/2015	39	-13
UCW_MW-5	RMW-ISW3	9/10/2015	39	-13
UCW_MW-5	RMW-ISW3	9/11/2015	40	-14
UCW_MW-5	RMW-ISW3	9/12/2015	40	-14
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UCW_MW-5	RMW-ISW3	9/20/2015	41	-15
UCW_MW-5	RMW-ISW3	9/21/2015	41	-15
UCW_MW-5	RMW-ISW3	9/22/2015	41	-15
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UCW_MW-5	RMW-ISW3	9/24/2015	41	-15
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UCW_MW-5	RMW-ISW3	11/3/2015	40	-14
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UCW_MW-5	RMW-ISW3	11/11/2015	41	-15
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UCW_MW-5	RMW-ISW3	11/13/2015	41	-15

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UCW_MW-5	RMW-ISW3	11/16/2015	41	-15
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UCW_MW-5	RMW-ISW3	12/29/2015	38	-12
UCW_MW-5	RMW-ISW3	12/30/2015	38	-12
UCW_MW-5	RMW-ISW3	12/31/2015	38	-12
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UCW_MW-5	RMW-ISW3	1/2/2016	37	-11
UCW_MW-5	RMW-ISW3	1/3/2016	37	-11
UCW_MW-5	RMW-ISW3	1/4/2016	37	-11
UCW_MW-5	RMW-ISW3	1/5/2016	37	-11
UCW_MW-5	RMW-ISW3	1/6/2016	37	-11
UCW_MW-5	RMW-ISW3	1/7/2016	37	-11
UCW_MW-5	RMW-ISW3	1/8/2016	37	-11
UCW_MW-5	RMW-ISW3	1/9/2016	36	-10
UCW_MW-5	RMW-ISW3	1/10/2016	36	-10
UCW_MW-5	RMW-ISW3	1/11/2016	36	-10
UCW_MW-5	RMW-ISW3	1/12/2016	36	-10
UCW_MW-5	RMW-ISW3	1/13/2016	36	-10
UCW_MW-5	RMW-ISW3	1/14/2016	36	-10
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UCW_MW-5	RMW-ISW3	1/16/2016	36	-10
UCW_MW-5	RMW-ISW3	1/17/2016	36	-10
UCW_MW-5	RMW-ISW3	1/18/2016	36	-10
UCW_MW-5	RMW-ISW3	1/19/2016	36	-10
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UCW_MW-5	RMW-ISW3	1/23/2016	35	-9
UCW_MW-5	RMW-ISW3	1/24/2016	35	-9
UCW_MW-5	RMW-ISW3	1/25/2016	34	-8
UCW_MW-5	RMW-ISW3	1/26/2016	34	-8
UCW_MW-5	RMW-ISW3	1/27/2016	34	-8
UCW_MW-5	RMW-ISW3	1/28/2016	33	-7
UCW_MW-5	RMW-ISW3	1/29/2016	33	-7
UCW_MW-5	RMW-ISW3	1/30/2016	33	-7
UCW_MW-5	RMW-ISW3	1/31/2016	32	-6
UCW_MW-5	RMW-ISW3	2/1/2016	32	-6
UCW_MW-5	RMW-ISW3	2/2/2016	32	-6

UCW_MW-5	RMW-ISW3	2/3/2016	32	-6
UCW_MW-5	RMW-ISW3	2/4/2016	31	-5
UCW_MW-5	RMW-ISW3	2/5/2016	31	-5
UCW_MW-5	RMW-ISW3	2/6/2016	31	-5
UCW_MW-5	RMW-ISW3	2/7/2016	30	-4
UCW_MW-5	RMW-ISW3	2/8/2016	30	-4
UCW_MW-5	RMW-ISW3	2/9/2016	29	-3
UCW_MW-5	RMW-ISW3	2/10/2016	29	-3
UCW_MW-5	RMW-ISW3	2/11/2016	29	-3
UCW_MW-5	RMW-ISW3	2/12/2016	29	-3
UCW_MW-5	RMW-ISW3	2/13/2016	29	-3
UCW_MW-5	RMW-ISW3	2/14/2016	28	-2
UCW_MW-5	RMW-ISW3	2/15/2016	28	-2
UCW_MW-5	RMW-ISW3	2/16/2016	28	-2
UCW_MW-5	RMW-ISW3	2/17/2016	28	-2
UCW_MW-5	RMW-ISW3	2/18/2016	28	-2
UCW_MW-5	RMW-ISW3	2/19/2016	27	-1
UCW_MW-5	RMW-ISW3	2/20/2016	27	-1
UCW_MW-5	RMW-ISW3	2/21/2016	27	-1
UCW_MW-5	RMW-ISW3	2/22/2016	27	-1
UCW_MW-5	RMW-ISW3	2/23/2016	27	-1
UCW_MW-5	RMW-ISW3	2/24/2016	27	-1
UCW_MW-5	RMW-ISW3	2/25/2016	26	0
UCW_MW-5	RMW-ISW3	2/26/2016	26	0
UCW_MW-5	RMW-ISW3	2/27/2016	26	0
UCW_MW-5	RMW-ISW3	2/28/2016	26	0
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UCW_MW-5	RMW-ISW3	3/1/2016	26	0
UCW_MW-5	RMW-ISW3	3/2/2016	26	0
UCW_MW-5	RMW-ISW3	3/3/2016	26	0
UCW_MW-5	RMW-ISW3	3/4/2016	26	0
UCW_MW-5	RMW-ISW3	3/5/2016	26	0
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UCW_MW-5	RMW-ISW3	3/7/2016	25	1
UCW_MW-5	RMW-ISW3	3/8/2016	25	1
UCW_MW-5	RMW-ISW3	3/9/2016	25	1
UCW_MW-5	RMW-ISW3	3/10/2016	25	1
UCW_MW-5	RMW-ISW3	3/11/2016	25	1
UCW_MW-5	RMW-ISW3	3/12/2016	24	2
UCW_MW-5	RMW-ISW3	3/13/2016	23	3
UCW_MW-5	RMW-ISW3	3/14/2016	23	3
UCW_MW-5	RMW-ISW3	3/15/2016	22	4
UCW_MW-5	RMW-ISW3	3/16/2016	22	4
UCW_MW-5	RMW-ISW3	3/17/2016	21	5
UCW_MW-5	RMW-ISW3	3/18/2016	21	5
UCW_MW-5	RMW-ISW3	3/19/2016	20	6
UCW_MW-5	RMW-ISW3	3/20/2016	19	7
UCW_MW-5	RMW-ISW3	3/21/2016	18	8
UCW_MW-5	RMW-ISW3	3/22/2016	18	8
UCW_MW-5	RMW-ISW3	3/23/2016	18	8
UCW_MW-5	RMW-ISW3	3/24/2016	17	9
UCW_MW-5	RMW-ISW3	3/25/2016	17	9
UCW_MW-5	RMW-ISW3	3/26/2016	17	9
UCW_MW-5	RMW-ISW3	3/27/2016	17	9
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UCW_MW-5	RMW-ISW3	3/29/2016	16	10
UCW_MW-5	RMW-ISW3	3/30/2016	16	10
UCW_MW-5	RMW-ISW3	3/31/2016	16	10
UCW_MW-5	RMW-ISW3	4/1/2016	16	10
UCW_MW-5	RMW-ISW3	4/2/2016	16	10
UCW_MW-5	RMW-ISW3	4/3/2016	16	10
UCW_MW-5	RMW-ISW3	4/4/2016	16	10
UCW_MW-5	RMW-ISW3	4/5/2016	16	10
UCW_MW-5	RMW-ISW3	4/6/2016	16	10
UCW_MW-5	RMW-ISW3	4/7/2016	16	10
UCW_MW-5	RMW-ISW3	4/8/2016	16	10
UCW_MW-5	RMW-ISW3	4/9/2016	16	10
UCW_MW-5	RMW-ISW3	4/10/2016	16	10
UCW_MW-5	RMW-ISW3	4/11/2016	16	10
UCW_MW-5	RMW-ISW3	4/12/2016	16	10
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UCW_MW-5	RMW-ISW3	4/14/2016	16	10
UCW_MW-5	RMW-ISW3	4/15/2016	16	10
UCW_MW-5	RMW-ISW3	4/16/2016	16	10
UCW_MW-5	RMW-ISW3	4/17/2016	16	10
UCW_MW-5	RMW-ISW3	4/18/2016	16	10
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UCW_MW-5	RMW-ISW3	4/21/2016	16	10

UCW_MW-5	RMW-ISW3	4/22/2016	16	10
UCW_MW-5	RMW-ISW3	4/23/2016	16	10
UCW_MW-5	RMW-ISW3	4/24/2016	16	10
UCW_MW-5	RMW-ISW3	4/25/2016	16	10
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UCW_MW-5	RMW-ISW3	4/29/2016	17	9
UCW_MW-5	RMW-ISW3	4/30/2016	17	9
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UCW_MW-5	RMW-ISW3	5/2/2016	17	9
UCW_MW-5	RMW-ISW3	5/3/2016	17	9
UCW_MW-5	RMW-ISW3	5/4/2016	17	9
UCW_MW-5	RMW-ISW3	5/5/2016	17	9
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UCW_MW-5	RMW-ISW3	5/7/2016	17	9
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UCW_MW-5	RMW-ISW3	5/23/2016	18	8
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UCW_MW-5	RMW-ISW3	6/5/2016	19	7
UCW_MW-5	RMW-ISW3	6/6/2016	19	7
UCW_MW-5	RMW-ISW3	6/7/2016	19	7
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UCW_MW-5	RMW-ISW3	6/11/2016	20	6
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UCW_MW-5	RMW-ISW3	6/15/2016	21	5
UCW_MW-5	RMW-ISW3	6/16/2016	21	5
UCW_MW-5	RMW-ISW3	6/17/2016	21	5
UCW_MW-5	RMW-ISW3	6/18/2016	21	5
UCW_MW-5	RMW-ISW3	6/19/2016	21	5
UCW_MW-5	RMW-ISW3	6/20/2016	21	5
UCW_MW-5	RMW-ISW3	6/21/2016	21	5
UCW_MW-5	RMW-ISW3	6/22/2016	21	5
UCW_MW-5	RMW-ISW3	6/23/2016	21	5
UCW_MW-5	RMW-ISW3	6/24/2016	21	5
UCW_MW-5	RMW-ISW3	6/25/2016	21	5
UCW_MW-5	RMW-ISW3	6/26/2016	21	5
UCW_MW-5	RMW-ISW3	6/27/2016	22	4
UCW_MW-5	RMW-ISW3	6/28/2016	22	4
UCW_MW-5	RMW-ISW3	6/29/2016	22	4
UCW_MW-5	RMW-ISW3	6/30/2016	22	4
UCW_MW-5	RMW-ISW3	7/1/2016	22	4
UCW_MW-5	RMW-ISW3	7/2/2016	23	3
UCW_MW-5	RMW-ISW3	7/3/2016	23	3
UCW_MW-5	RMW-ISW3	7/4/2016	23	3
UCW_MW-5	RMW-ISW3	7/5/2016	23	3
UCW_MW-5	RMW-ISW3	7/6/2016	23	3
UCW_MW-5	RMW-ISW3	7/7/2016	24	2
UCW_MW-5	RMW-ISW3	7/8/2016	24	2
UCW_MW-5	RMW-ISW3	7/9/2016	24	2

UCW_MW-5	RMW-ISW3	7/10/2016	25	1
UCW_MW-5	RMW-ISW3	7/11/2016	25	1
UCW_MW-5	RMW-ISW3	7/12/2016	25	1
UCW_MW-5	RMW-ISW3	7/13/2016	25	1
UCW_MW-5	RMW-ISW3	7/14/2016	25	1
UCW_MW-5	RMW-ISW3	7/15/2016	25	1
UCW_MW-5	RMW-ISW3	7/16/2016	25	1
UCW_MW-5	RMW-ISW3	7/17/2016	26	0
UCW_MW-5	RMW-ISW3	7/18/2016	26	0
UCW_MW-5	RMW-ISW3	7/19/2016	26	0
UCW_MW-5	RMW-ISW3	7/20/2016	26	0
UCW_MW-5	RMW-ISW3	7/21/2016	26	0
UCW_MW-5	RMW-ISW3	7/22/2016	27	-1
UCW_MW-5	RMW-ISW3	7/23/2016	27	-1
UCW_MW-5	RMW-ISW3	7/24/2016	27	-1
UCW_MW-5	RMW-ISW3	7/25/2016	27	-1
UCW_MW-5	RMW-ISW3	7/26/2016	27	-1
UCW_MW-5	RMW-ISW3	7/27/2016	27	-1
UCW_MW-5	RMW-ISW3	7/28/2016	27	-1
UCW_MW-5	RMW-ISW3	7/29/2016	27	-1
UCW_MW-5	RMW-ISW3	7/30/2016	27	-1
UCW_MW-5	RMW-ISW3	7/31/2016	27	-1
UCW_MW-5	RMW-ISW3	8/1/2016	28	-2
UCW_MW-5	RMW-ISW3	8/2/2016	28	-2
UCW_MW-5	RMW-ISW3	8/3/2016	28	-2
UCW_MW-5	RMW-ISW3	8/4/2016	28	-2
UCW_MW-5	RMW-ISW3	8/5/2016	28	-2
UCW_MW-5	RMW-ISW3	8/6/2016	28	-2
UCW_MW-5	RMW-ISW3	8/7/2016	28	-2
UCW_MW-5	RMW-ISW3	8/8/2016	28	-2
UCW_MW-5	RMW-ISW3	8/9/2016	28	-2
UCW_MW-5	RMW-ISW3	8/10/2016	28	-2
UCW_MW-5	RMW-ISW3	8/11/2016	29	-3
UCW_MW-5	RMW-ISW3	8/12/2016	29	-3
UCW_MW-5	RMW-ISW3	8/13/2016	29	-3
UCW_MW-5	RMW-ISW3	8/14/2016	29	-3
UCW_MW-5	RMW-ISW3	8/15/2016	29	-3
UCW_MW-5	RMW-ISW3	8/16/2016	30	-4
UCW_MW-5	RMW-ISW3	8/17/2016	30	-4
UCW_MW-5	RMW-ISW3	8/18/2016	30	-4
UCW_MW-5	RMW-ISW3	8/19/2016	30	-4
UCW_MW-5	RMW-ISW3	8/20/2016	30	-4
UCW_MW-5	RMW-ISW3	8/21/2016	30	-4
UCW_MW-5	RMW-ISW3	8/22/2016	30	-4
UCW_MW-5	RMW-ISW3	8/23/2016	30	-4
UCW_MW-5	RMW-ISW3	8/24/2016	31	-5
UCW_MW-5	RMW-ISW3	8/25/2016	31	-5
UCW_MW-5	RMW-ISW3	8/26/2016	31	-5
UCW_MW-5	RMW-ISW3	8/27/2016	31	-5
UCW_MW-5	RMW-ISW3	8/28/2016	31	-5
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UCW_MW-5	RMW-ISW3	8/30/2016	31	-5
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UCW_MW-5	RMW-ISW3	9/3/2016	31	-5
UCW_MW-5	RMW-ISW3	9/4/2016	31	-5
UCW_MW-5	RMW-ISW3	9/5/2016	32	-6
UCW_MW-5	RMW-ISW3	9/6/2016	32	-6
UCW_MW-5	RMW-ISW3	9/7/2016	32	-6
UCW_MW-5	RMW-ISW3	9/8/2016	32	-6
UCW_MW-5	RMW-ISW3	9/9/2016	32	-6
UCW_MW-5	RMW-ISW3	9/10/2016	32	-6
UCW_MW-5	RMW-ISW3	9/11/2016	32	-6
UCW_MW-5	RMW-ISW3	9/12/2016	32	-6
UCW_MW-5	RMW-ISW3	9/13/2016	32	-6
UCW_MW-5	RMW-ISW3	9/14/2016	32	-6
UCW_MW-5	RMW-ISW3	9/15/2016	32	-6
UCW_MW-5	RMW-ISW3	9/16/2016	32	-6
UCW_MW-5	RMW-ISW3	9/17/2016	32	-6
UCW_MW-5	RMW-ISW3	9/18/2016	32	-6
UCW_MW-5	RMW-ISW3	9/19/2016	32	-6
UCW_MW-5	RMW-ISW3	9/20/2016	33	-7
UCW_MW-5	RMW-ISW3	9/21/2016	33	-7
UCW_MW-5	RMW-ISW3	9/22/2016	33	-7
UCW_MW-5	RMW-ISW3	9/23/2016	33	-7
UCW_MW-5	RMW-ISW3	9/24/2016	33	-7
UCW_MW-5	RMW-ISW3	9/25/2016	33	-7
UCW_MW-5	RMW-ISW3	9/26/2016	33	-7

UCW_MW-5	RMW-ISW3	9/27/2016	33	-7
UCW_MW-5	RMW-ISW3	9/28/2016	33	-7
UCW_MW-5	RMW-ISW3	9/29/2016	33	-7
UCW_MW-5	RMW-ISW3	9/30/2016	33	-7
UCW_MW-5	RMW-ISW3	10/1/2016	33	-7
UCW_MW-5	RMW-ISW3	10/2/2016	33	-7
UCW_MW-5	RMW-ISW3	10/3/2016	33	-7
UCW_MW-5	RMW-ISW3	10/4/2016	33	-7
UCW_MW-5	RMW-ISW3	10/5/2016	33	-7
UCW_MW-5	RMW-ISW3	10/6/2016	33	-7
UCW_MW-5	RMW-ISW3	10/7/2016	33	-7
UCW_MW-5	RMW-ISW3	10/8/2016	33	-7
UCW_MW-5	RMW-ISW3	10/9/2016	33	-7
UCW_MW-5	RMW-ISW3	10/10/2016	33	-7
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UCW_MW-5	RMW-ISW3	10/12/2016	34	-8
UCW_MW-5	RMW-ISW3	10/13/2016	34	-8
UCW_MW-5	RMW-ISW3	10/14/2016	34	-8
UCW_MW-5	RMW-ISW3	10/15/2016	34	-8
UCW_MW-5	RMW-ISW3	10/16/2016	34	-8
UCW_MW-5	RMW-ISW3	10/17/2016	34	-8
UCW_MW-5	RMW-ISW3	10/18/2016	34	-8
UCW_MW-5	RMW-ISW3	10/19/2016	34	-8
UCW_MW-5	RMW-ISW3	10/20/2016	34	-8
UCW_MW-5	RMW-ISW3	10/21/2016	34	-8
UCW_MW-5	RMW-ISW3	10/22/2016	34	-8
UCW_MW-5	RMW-ISW3	10/23/2016	34	-8
UCW_MW-5	RMW-ISW3	10/24/2016	33	-7
UCW_MW-5	RMW-ISW3	10/25/2016	33	-7
UCW_MW-5	RMW-ISW3	10/26/2016	33	-7
UCW_MW-5	RMW-ISW3	10/27/2016	33	-7
UCW_MW-5	RMW-ISW3	10/28/2016	33	-7
UCW_MW-5	RMW-ISW3	10/29/2016	33	-7
UCW_MW-5	RMW-ISW3	10/30/2016	33	-7
UCW_MW-5	RMW-ISW3	10/31/2016	33	-7
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UCW_MW-5	RMW-ISW3	11/2/2016	33	-7
UCW_MW-5	RMW-ISW3	11/3/2016	33	-7
UCW_MW-5	RMW-ISW3	11/4/2016	33	-7
UCW_MW-5	RMW-ISW3	11/5/2016	32	-6
UCW_MW-5	RMW-ISW3	11/6/2016	32	-6
UCW_MW-5	RMW-ISW3	11/7/2016	32	-6
UCW_MW-5	RMW-ISW3	11/8/2016	32	-6
UCW_MW-5	RMW-ISW3	11/9/2016	32	-6
UCW_MW-5	RMW-ISW3	11/10/2016	32	-6
UCW_MW-5	RMW-ISW3	11/11/2016	32	-6
UCW_MW-5	RMW-ISW3	11/12/2016	32	-6
UCW_MW-5	RMW-ISW3	11/13/2016	32	-6
UCW_MW-5	RMW-ISW3	11/14/2016	32	-6
UCW_MW-5	RMW-ISW3	11/15/2016	32	-6
UCW_MW-5	RMW-ISW3	11/16/2016	32	-6
UCW_MW-5	RMW-ISW3	11/17/2016	32	-6
UCW_MW-5	RMW-ISW3	11/18/2016	32	-6
UCW_MW-5	RMW-ISW3	11/19/2016	32	-6
UCW_MW-5	RMW-ISW3	11/20/2016	32	-6
UCW_MW-5	RMW-ISW3	11/21/2016	32	-6
UCW_MW-5	RMW-ISW3	11/22/2016	32	-6
UCW_MW-5	RMW-ISW3	11/23/2016	32	-6
UCW_MW-5	RMW-ISW3	11/24/2016	32	-6
UCW_MW-5	RMW-ISW3	11/25/2016	32	-6
UCW_MW-5	RMW-ISW3	11/26/2016	31	-5
UCW_MW-5	RMW-ISW3	11/27/2016	31	-5
UCW_MW-5	RMW-ISW3	11/28/2016	31	-5
UCW_MW-5	RMW-ISW3	11/29/2016	31	-5
UCW_MW-5	RMW-ISW3	11/30/2016	31	-5
UCW_MW-5	RMW-ISW3	12/1/2016	31	-5
UCW_MW-5	RMW-ISW3	12/2/2016	31	-5
UCW_MW-5	RMW-ISW3	12/3/2016	31	-5
UCW_MW-5	RMW-ISW3	12/4/2016	31	-5
UCW_MW-5	RMW-ISW3	12/5/2016	31	-5
UCW_MW-5	RMW-ISW3	12/6/2016	31	-5
UCW_MW-5	RMW-ISW3	12/7/2016	31	-5
UCW_MW-5	RMW-ISW3	12/8/2016	31	-5
UCW_MW-5	RMW-ISW3	12/9/2016	31	-5
UCW_MW-5	RMW-ISW3	12/10/2016	31	-5
UCW_MW-5	RMW-ISW3	12/11/2016	31	-5
UCW_MW-5	RMW-ISW3	12/12/2016	31	-5
UCW_MW-5	RMW-ISW3	12/13/2016	30	-4
UCW_MW-5	RMW-ISW3	12/14/2016	30	-4

UCW_MW-5	RMW-ISW3	12/15/2016	29	-3
UCW_MW-5	RMW-ISW3	12/16/2016	29	-3
UCW_MW-5	RMW-ISW3	12/17/2016	28	-2
UCW_MW-5	RMW-ISW3	12/18/2016	28	-2
UCW_MW-5	RMW-ISW3	12/19/2016	27	-1
UCW_MW-5	RMW-ISW3	12/20/2016	26	0
UCW_MW-5	RMW-ISW3	12/21/2016	26	0
UCW_MW-5	RMW-ISW3	12/22/2016	26	0
UCW_MW-5	RMW-ISW3	12/23/2016	25	1
UCW_MW-5	RMW-ISW3	12/24/2016	25	1
UCW_MW-5	RMW-ISW3	12/25/2016	25	1
UCW_MW-5	RMW-ISW3	12/26/2016	25	1
UCW_MW-5	RMW-ISW3	12/27/2016	25	1
UCW_MW-5	RMW-ISW3	12/28/2016	25	1
UCW_MW-5	RMW-ISW3	12/29/2016	24	2
UCW_MW-5	RMW-ISW3	12/30/2016	24	2
UCW_MW-5	RMW-ISW3	12/31/2016	24	2
UCW_MW-5	RMW-ISW3	1/1/2017	24	2
UCW_MW-5	RMW-ISW3	1/2/2017	24	2
UCW_MW-5	RMW-ISW3	1/3/2017	24	2
UCW_MW-5	RMW-ISW3	1/4/2017	24	2
UCW_MW-5	RMW-ISW3	1/5/2017	23	3
UCW_MW-5	RMW-ISW3	1/6/2017	23	3
UCW_MW-5	RMW-ISW3	1/7/2017	22	4
UCW_MW-5	RMW-ISW3	1/8/2017	21	5
UCW_MW-5	RMW-ISW3	1/9/2017	20	6
UCW_MW-5	RMW-ISW3	1/10/2017	20	6
UCW_MW-5	RMW-ISW3	1/11/2017	18	8
UCW_MW-5	RMW-ISW3	1/12/2017	16	10
UCW_MW-5	RMW-ISW3	1/13/2017	15	11
UCW_MW-5	RMW-ISW3	1/14/2017	15	11
UCW_MW-5	RMW-ISW3	1/15/2017	14	12
UCW_MW-5	RMW-ISW3	1/16/2017	14	12
UCW_MW-5	RMW-ISW3	1/17/2017	14	12
UCW_MW-5	RMW-ISW3	1/18/2017	13	13
UCW_MW-5	RMW-ISW3	1/19/2017	13	13
UCW_MW-5	RMW-ISW3	1/20/2017	13	13
UCW_MW-5	RMW-ISW3	1/21/2017	12	14
UCW_MW-5	RMW-ISW3	1/22/2017	12	14
UCW_MW-5	RMW-ISW3	1/23/2017	11	15
UCW_MW-5	RMW-ISW3	1/24/2017	10	16
UCW_MW-5	RMW-ISW3	1/25/2017	10	16
UCW_MW-5	RMW-ISW3	1/26/2017	10	16
UCW_MW-5	RMW-ISW3	1/27/2017	10	16
UCW_MW-5	RMW-ISW3	1/28/2017	10	16
UCW_MW-5	RMW-ISW3	1/29/2017	10	16
UCW_MW-5	RMW-ISW3	1/30/2017	10	16
UCW_MW-5	RMW-ISW3	1/31/2017	10	16
UCW_MW-5	RMW-ISW3	2/1/2017	10	16
UCW_MW-5	RMW-ISW3	2/2/2017	10	16
UCW_MW-5	RMW-ISW3	2/3/2017	10	16
UCW_MW-5	RMW-ISW3	2/4/2017	10	16
UCW_MW-5	RMW-ISW3	2/5/2017	10	16
UCW_MW-5	RMW-ISW3	2/6/2017	9	17
UCW_MW-5	RMW-ISW3	2/7/2017	9	17
UCW_MW-5	RMW-ISW3	2/8/2017	9	17
UCW_MW-5	RMW-ISW3	2/9/2017	8	18
UCW_MW-5	RMW-ISW3	2/10/2017	7	19
UCW_MW-5	RMW-ISW3	2/11/2017	6	20
UCW_MW-5	RMW-ISW3	2/12/2017	5	21
UCW_MW-5	RMW-ISW3	2/13/2017	5	21
UCW_MW-5	RMW-ISW3	2/14/2017	5	21
UCW_MW-5	RMW-ISW3	2/15/2017	5	21
UCW_MW-5	RMW-ISW3	2/16/2017	6	20
UCW_MW-5	RMW-ISW3	2/17/2017	6	20
UCW_MW-5	RMW-ISW3	2/18/2017	6	20
UCW_MW-5	RMW-ISW3	2/19/2017	6	20
UCW_MW-5	RMW-ISW3	2/20/2017	6	20
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UCW_MW-5	RMW-ISW3	2/24/2017	5	21
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UCW_MW-5	RMW-ISW3	2/26/2017	5	21
UCW_MW-5	RMW-ISW3	2/27/2017	5	21
UCW_MW-5	RMW-ISW3	2/28/2017	5	21
UCW_MW-5	RMW-ISW3	3/1/2017	6	20
UCW_MW-5	RMW-ISW3	3/2/2017	6	20
UCW_MW-5	RMW-ISW3	3/3/2017	6	20

UCW_MW-5	RMW-ISW3	3/4/2017	6	20
UCW_MW-5	RMW-ISW3	3/5/2017	6	20
UCW_MW-5	RMW-ISW3	3/6/2017	6	20
UCW_MW-5	RMW-ISW3	3/7/2017	6	20
UCW_MW-5	RMW-ISW3	3/8/2017	7	19
UCW_MW-5	RMW-ISW3	3/9/2017	6	20
UCW_MW-5	RMW-ISW3	3/10/2017	7	19
UCW_MW-5	RMW-ISW3	3/11/2017	7	19
UCW_MW-5	RMW-ISW3	3/12/2017	7	19
UCW_MW-5	RMW-ISW3	3/13/2017	7	19
UCW_MW-5	RMW-ISW3	3/14/2017	7	19
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UCW_MW-5	RMW-ISW3	3/16/2017	7	19
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UCW_MW-5	RMW-ISW3	3/25/2017	7	19
UCW_MW-5	RMW-ISW3	3/26/2017	6	20
UCW_MW-5	RMW-ISW3	3/27/2017	6	20
UCW_MW-5	RMW-ISW3	3/28/2017	7	19
UCW_MW-5	RMW-ISW3	3/29/2017	7	19
UCW_MW-5	RMW-ISW3	3/30/2017	7	19
UCW_MW-5	RMW-ISW3	3/31/2017	7	19
UCW_MW-5	RMW-ISW3	4/1/2017	7	19
UCW_MW-5	RMW-ISW3	4/2/2017	7	19
UCW_MW-5	RMW-ISW3	4/3/2017	7	19
UCW_MW-5	RMW-ISW3	4/4/2017	7	19
UCW_MW-5	RMW-ISW3	4/5/2017	7	19
UCW_MW-5	RMW-ISW3	4/6/2017	7	19
UCW_MW-5	RMW-ISW3	4/7/2017	7	19
UCW_MW-5	RMW-ISW3	4/8/2017	7	19
UCW_MW-5	RMW-ISW3	4/9/2017	7	19
UCW_MW-5	RMW-ISW3	4/10/2017	7	19
UCW_MW-5	RMW-ISW3	4/11/2017	7	19
UCW_MW-5	RMW-ISW3	4/12/2017	6	20
UCW_MW-5	RMW-ISW3	4/13/2017	6	20
UCW_MW-5	RMW-ISW3	4/14/2017	7	19
UCW_MW-5	RMW-ISW3	4/15/2017	7	19
UCW_MW-5	RMW-ISW3	4/16/2017	6	20
UCW_MW-5	RMW-ISW3	4/17/2017	6	20
UCW_MW-5	RMW-ISW3	4/18/2017	6	20
UCW_MW-5	RMW-ISW3	4/19/2017	6	20
UCW_MW-5	RMW-ISW3	4/20/2017	6	20
UCW_MW-5	RMW-ISW3	4/21/2017	6	20
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UCW_MW-5	RMW-ISW3	4/24/2017	6	20
UCW_MW-5	RMW-ISW3	4/25/2017	6	20
UCW_MW-5	RMW-ISW3	4/26/2017	6	20
UCW_MW-5	RMW-ISW3	4/27/2017	6	20
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UCW_MW-5	RMW-ISW3	4/29/2017	7	19
UCW_MW-5	RMW-ISW3	4/30/2017	7	19
UCW_MW-5	RMW-ISW3	5/1/2017	7	19
UCW_MW-5	RMW-ISW3	5/2/2017	7	19
UCW_MW-5	RMW-ISW3	5/3/2017	7	19
UCW_MW-5	RMW-ISW3	5/4/2017	7	19
UCW_MW-5	RMW-ISW3	5/5/2017	7	19
UCW_MW-5	RMW-ISW3	5/6/2017	7	19
UCW_MW-5	RMW-ISW3	5/7/2017	7	19
UCW_MW-5	RMW-ISW3	5/8/2017	7	19
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UCW_MW-5	RMW-ISW3	5/11/2017	8	18
UCW_MW-5	RMW-ISW3	5/12/2017	8	18
UCW_MW-5	RMW-ISW3	5/13/2017	8	18
UCW_MW-5	RMW-ISW3	5/14/2017	9	17
UCW_MW-5	RMW-ISW3	5/15/2017	9	17
UCW_MW-5	RMW-ISW3	5/16/2017	9	17
UCW_MW-5	RMW-ISW3	5/17/2017	9	17
UCW_MW-5	RMW-ISW3	5/18/2017	9	17
UCW_MW-5	RMW-ISW3	5/19/2017	9	17
UCW_MW-5	RMW-ISW3	5/20/2017	10	16
UCW_MW-5	RMW-ISW3	5/21/2017	10	16

UCW_MW-5	RMW-ISW3	5/22/2017	10	16
UCW_MW-5	RMW-ISW3	5/23/2017	10	16
UCW_MW-5	RMW-ISW3	5/24/2017	10	16
UCW_MW-5	RMW-ISW3	5/25/2017	10	16
UCW_MW-5	RMW-ISW3	5/26/2017	10	16
UCW_MW-5	RMW-ISW3	5/27/2017	11	15
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UCW_MW-5	RMW-ISW3	5/29/2017	11	15
UCW_MW-5	RMW-ISW3	5/30/2017	11	15
UCW_MW-5	RMW-ISW3	5/31/2017	11	15
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UCW_MW-5	RMW-ISW3	6/2/2017	11	15
UCW_MW-5	RMW-ISW3	6/3/2017	11	15
UCW_MW-5	RMW-ISW3	6/4/2017	11	15
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UCW_MW-5	RMW-ISW3	8/8/2017	17	9

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UCW_MW-5	RMW-ISW3	10/16/2017	24	2
UCW_MW-5	RMW-ISW3	10/17/2017	24	2
UCW_MW-5	RMW-ISW3	10/18/2017	24	2
UCW_MW-5	RMW-ISW3	10/19/2017	24	2
UCW_MW-5	RMW-ISW3	10/20/2017	24	2
UCW_MW-5	RMW-ISW3	10/21/2017	24	2
UCW_MW-5	RMW-ISW3	10/22/2017	24	2
UCW_MW-5	RMW-ISW3	10/23/2017	24	2
UCW_MW-5	RMW-ISW3	10/24/2017	24	2
UCW_MW-5	RMW-ISW3	10/25/2017	24	2
UCW_MW-5	RMW-ISW3	10/26/2017	24	2

UCW_MW-5	RMW-ISW3	10/27/2017	23	3
UCW_MW-5	RMW-ISW3	10/28/2017	23	3
UCW_MW-5	RMW-ISW3	10/29/2017	23	3
UCW_MW-5	RMW-ISW3	10/30/2017	23	3
UCW_MW-5	RMW-ISW3	10/31/2017	23	3
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UCW_MW-5	RMW-ISW3	11/2/2017	23	3
UCW_MW-5	RMW-ISW3	11/3/2017	24	2
UCW_MW-5	RMW-ISW3	11/4/2017	24	2
UCW_MW-5	RMW-ISW3	11/5/2017	24	2
UCW_MW-5	RMW-ISW3	11/6/2017	23	3
UCW_MW-5	RMW-ISW3	11/7/2017	23	3
UCW_MW-5	RMW-ISW3	11/8/2017	23	3
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UCW_MW-5	RMW-ISW3	11/16/2017	23	3
UCW_MW-5	RMW-ISW3	11/17/2017	23	3
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UCW_MW-5	RMW-ISW3	2/7/2018	18	8
UCW_MW-5	RMW-ISW3	2/8/2018	18	8
UCW_MW-5	RMW-ISW3	2/9/2018	18	8
UCW_MW-5	RMW-ISW3	2/10/2018	18	8
UCW_MW-5	RMW-ISW3	2/11/2018	18	8
UCW_MW-5	RMW-ISW3	2/12/2018	18	8
UCW_MW-5	RMW-ISW3	2/13/2018	18	8
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UCW_MW-5	RMW-ISW3	3/19/2018	13	13
UCW_MW-5	RMW-ISW3	3/20/2018	12	14
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UCW_MW-5	RMW-ISW3	4/23/2018	9	17

UCW_MW-5	RMW-ISW3	4/24/2018	9	17
UCW_MW-5	RMW-ISW3	4/25/2018	9	17
UCW_MW-5	RMW-ISW3	4/26/2018	9	17
UCW_MW-5	RMW-ISW3	4/27/2018	10	16
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UCW_MW-5	RMW-ISW3	7/26/2018	20	6
UCW_MW-5	RMW-ISW3	7/27/2018	20	6
UCW_MW-5	RMW-ISW3	7/28/2018	21	5
UCW_MW-5	RMW-ISW3	7/29/2018	21	5
UCW_MW-5	RMW-ISW3	7/30/2018	21	5
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UCW_MW-5	RMW-ISW3	8/29/2018	25	1
UCW_MW-5	RMW-ISW3	8/30/2018	25	1
UCW_MW-5	RMW-ISW3	8/31/2018	26	0
UCW_MW-5	RMW-ISW3	9/1/2018	26	0
UCW_MW-5	RMW-ISW3	9/2/2018	26	0
UCW_MW-5	RMW-ISW3	9/3/2018	26	0
UCW_MW-5	RMW-ISW3	9/4/2018	26	0
UCW_MW-5	RMW-ISW3	9/5/2018	26	0
UCW_MW-5	RMW-ISW3	9/6/2018	26	0
UCW_MW-5	RMW-ISW3	9/7/2018	26	0
UCW_MW-5	RMW-ISW3	9/8/2018	26	0
UCW_MW-5	RMW-ISW3	9/9/2018	26	0
UCW_MW-5	RMW-ISW3	9/10/2018	26	0
UCW_MW-5	RMW-ISW3	9/11/2018	26	0
UCW_MW-5	RMW-ISW3	9/12/2018	26	0
UCW_MW-5	RMW-ISW3	9/13/2018	26	0

UCW_MW-5	RMW-ISW3	9/14/2018	26	0
UCW_MW-5	RMW-ISW3	9/15/2018	26	0
UCW_MW-5	RMW-ISW3	9/16/2018	26	0
UCW_MW-5	RMW-ISW3	9/17/2018	26	0
UCW_MW-5	RMW-ISW3	9/18/2018	27	-1
UCW_MW-5	RMW-ISW3	9/19/2018	27	-1
UCW_MW-5	RMW-ISW3	9/20/2018	27	-1
UCW_MW-5	RMW-ISW3	9/21/2018	27	-1
UCW_MW-5	RMW-ISW3	9/22/2018	27	-1
UCW_MW-5	RMW-ISW3	9/23/2018	27	-1
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UCW_MW-5	RMW-ISW3	9/29/2018	28	-2
UCW_MW-5	RMW-ISW3	9/30/2018	28	-2
UCW_MW-5	RMW-ISW3	10/1/2018	28	-2
UCW_MW-5	RMW-ISW3	10/2/2018	28	-2
UCW_MW-5	RMW-ISW3	10/3/2018	28	-2
UCW_MW-5	RMW-ISW3	10/4/2018	28	-2
UCW_MW-5	RMW-ISW3	10/5/2018	28	-2
UCW_MW-5	RMW-ISW3	10/6/2018	28	-2
UCW_MW-5	RMW-ISW3	10/7/2018	28	-2
UCW_MW-5	RMW-ISW3	10/8/2018	28	-2
UCW_MW-5	RMW-ISW3	10/9/2018	28	-2
UCW_MW-5	RMW-ISW3	10/10/2018	28	-2
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UCW_MW-5	RMW-ISW3	12/1/2018	29	-3

UCW_MW-5	RMW-ISW3	12/2/2018	29	-3
UCW_MW-5	RMW-ISW3	12/3/2018	28	-2
UCW_MW-5	RMW-ISW3	12/4/2018	28	-2
UCW_MW-5	RMW-ISW3	12/5/2018	28	-2
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UCW_MW-5	RMW-ISW3	12/20/2018	27	-1
UCW_MW-5	RMW-ISW3	12/21/2018	26	0
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UCW_MW-5	RMW-ISW3	12/24/2018	26	0
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UCW_MW-5	RMW-ISW3	1/29/2019	19	7
UCW_MW-5	RMW-ISW3	1/30/2019	19	7
UCW_MW-5	RMW-ISW3	1/31/2019	19	7
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UCW_MW-5	RMW-ISW3	2/18/2019	10	16

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UCW_MW-5	RMW-ISW3	2/21/2019	9	17
UCW_MW-5	RMW-ISW3	2/22/2019	10	16
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UCW_MW-5	RMW-ISW3	3/7/2019	7	19
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UCW_MW-5	RMW-ISW3	3/9/2019	7	19
UCW_MW-5	RMW-ISW3	3/10/2019	6	20
UCW_MW-5	RMW-ISW3	3/11/2019	7	19
UCW_MW-5	RMW-ISW3	3/12/2019	7	19
UCW_MW-5	RMW-ISW3	3/13/2019	7	19
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UCW_MW-5	RMW-ISW3	5/7/2019	10	16
UCW_MW-5	RMW-ISW3	5/8/2019	10	16
UCW_MW-5	RMW-ISW3	5/9/2019	10	16

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UCW_MW-5	RMW-ISW3	7/24/2019	17	9
UCW_MW-5	RMW-ISW3	7/25/2019	17	9
UCW_MW-5	RMW-ISW3	7/26/2019	17	9
UCW_MW-5	RMW-ISW3	7/27/2019	17	9

UCW_MW-5	RMW-ISW3	7/28/2019	18	8
UCW_MW-5	RMW-ISW3	7/29/2019	18	8
UCW_MW-5	RMW-ISW3	7/30/2019	18	8
UCW_MW-5	RMW-ISW3	7/31/2019	18	8
UCW_MW-5	RMW-ISW3	8/1/2019	18	8
UCW_MW-5	RMW-ISW3	8/2/2019	18	8
UCW_MW-5	RMW-ISW3	8/3/2019	18	8
UCW_MW-5	RMW-ISW3	8/4/2019	18	8
UCW_MW-5	RMW-ISW3	8/5/2019	18	8
UCW_MW-5	RMW-ISW3	8/6/2019	18	8
UCW_MW-5	RMW-ISW3	8/7/2019	18	8
UCW_MW-5	RMW-ISW3	8/8/2019	18	8
UCW_MW-5	RMW-ISW3	8/9/2019	18	8
UCW_MW-5	RMW-ISW3	8/10/2019	18	8
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UCW_MW-5	RMW-ISW3	8/17/2019	19	7
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UCW_MW-5	RMW-ISW3	8/23/2019	19	7
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UCW_MW-5	RMW-ISW3	8/30/2019	19	7
UCW_MW-5	RMW-ISW3	8/31/2019	20	6
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UCW_MW-5	RMW-ISW3	9/2/2019	20	6
UCW_MW-5	RMW-ISW3	9/3/2019	20	6
UCW_MW-5	RMW-ISW3	9/4/2019	20	6
UCW_MW-5	RMW-ISW3	9/5/2019	21	5
UCW_MW-5	RMW-ISW3	9/6/2019	21	5
UCW_MW-5	RMW-ISW3	9/7/2019	21	5
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UCW_MW-5	RMW-ISW3	10/13/2019	22	4
UCW_MW-5	RMW-ISW3	10/14/2019	22	4

UCW_MW-5	RMW-ISW3	10/15/2019	22	4
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UCW_MW-5	RMW-ISW3	12/21/2019	21	5
UCW_MW-5	RMW-ISW3	12/22/2019	20	6
UCW_MW-5	RMW-ISW3	12/23/2019	20	6
UCW_MW-5	RMW-ISW3	12/24/2019	20	6
UCW_MW-5	RMW-ISW3	12/25/2019	20	6
UCW_MW-5	RMW-ISW3	12/26/2019	20	6
UCW_MW-5	RMW-ISW3	12/27/2019	20	6
UCW_MW-5	RMW-ISW3	12/28/2019	20	6
UCW_MW-5	RMW-ISW3	12/29/2019	20	6
UCW_MW-5	RMW-ISW3	12/30/2019	20	6
UCW_MW-5	RMW-ISW3	12/31/2019	20	6
UCW_MW-5	RMW-ISW3	1/1/2020	20	6

UCW_MW-5	RMW-ISW3	1/2/2020	20	6
UCW_MW-5	RMW-ISW3	1/3/2020	20	6
UCW_MW-5	RMW-ISW3	1/4/2020	20	6
UCW_MW-5	RMW-ISW3	1/5/2020	20	6
UCW_MW-5	RMW-ISW3	1/6/2020	20	6
UCW_MW-5	RMW-ISW3	1/7/2020	20	6
UCW_MW-5	RMW-ISW3	1/8/2020	20	6
UCW_MW-5	RMW-ISW3	1/9/2020	20	6
UCW_MW-5	RMW-ISW3	1/10/2020	20	6
UCW_MW-5	RMW-ISW3	1/11/2020	20	6
UCW_MW-5	RMW-ISW3	1/12/2020	20	6
UCW_MW-5	RMW-ISW3	1/13/2020	20	6
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UCW_MW-5	RMW-ISW3	1/19/2020	20	6
UCW_MW-5	RMW-ISW3	1/20/2020	20	6
UCW_MW-5	RMW-ISW3	1/21/2020	20	6
UCW_MW-5	RMW-ISW3	1/22/2020	20	6
UCW_MW-5	RMW-ISW3	1/23/2020	20	6
UCW_MW-5	RMW-ISW3	1/24/2020	20	6
UCW_MW-5	RMW-ISW3	1/25/2020	20	6
UCW_MW-5	RMW-ISW3	1/26/2020	20	6
UCW_MW-5	RMW-ISW3	1/27/2020	20	6
UCW_MW-5	RMW-ISW3	1/28/2020	20	6
UCW_MW-5	RMW-ISW3	1/29/2020	20	6
UCW_MW-5	RMW-ISW3	1/30/2020	20	6
UCW_MW-5	RMW-ISW3	1/31/2020	20	6
UCW_MW-5	RMW-ISW3	2/1/2020	20	6
UCW_MW-5	RMW-ISW3	2/2/2020	20	6
UCW_MW-5	RMW-ISW3	2/3/2020	19	7
UCW_MW-5	RMW-ISW3	2/4/2020	20	6
UCW_MW-5	RMW-ISW3	2/5/2020	20	6
UCW_MW-5	RMW-ISW3	2/6/2020	20	6
UCW_MW-5	RMW-ISW3	2/7/2020	19	7
UCW_MW-5	RMW-ISW3	2/8/2020	20	6
UCW_MW-5	RMW-ISW3	2/9/2020	19	7
UCW_MW-5	RMW-ISW3	2/10/2020	19	7
UCW_MW-5	RMW-ISW3	2/11/2020	19	7
UCW_MW-5	RMW-ISW3	2/12/2020	20	6
UCW_MW-5	RMW-ISW3	2/13/2020	19	7
UCW_MW-5	RMW-ISW3	2/14/2020	19	7
UCW_MW-5	RMW-ISW3	2/15/2020	20	6
UCW_MW-5	RMW-ISW3	2/16/2020	20	6
UCW_MW-5	RMW-ISW3	2/17/2020	19	7
UCW_MW-5	RMW-ISW3	2/18/2020	19	7
UCW_MW-5	RMW-ISW3	2/19/2020	19	7
UCW_MW-5	RMW-ISW3	2/20/2020	20	6
UCW_MW-5	RMW-ISW3	2/21/2020	20	6
UCW_MW-5	RMW-ISW3	2/22/2020	19	7
UCW_MW-5	RMW-ISW3	2/23/2020	19	7
UCW_MW-5	RMW-ISW3	2/24/2020	20	6
UCW_MW-5	RMW-ISW3	2/25/2020	20	6
UCW_MW-5	RMW-ISW3	2/26/2020	20	6
UCW_MW-5	RMW-ISW3	2/27/2020	20	6
UCW_MW-5	RMW-ISW3	2/28/2020	19	7
UCW_MW-5	RMW-ISW3	2/29/2020	19	7
UCW_MW-5	RMW-ISW3	3/1/2020	19	7
UCW_MW-5	RMW-ISW3	3/2/2020	20	6
UCW_MW-5	RMW-ISW3	3/3/2020	20	6
UCW_MW-5	RMW-ISW3	3/4/2020	20	6
UCW_MW-5	RMW-ISW3	3/5/2020	20	6
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UCW_MW-5	RMW-ISW3	3/18/2020	18	8
UCW_MW-5	RMW-ISW3	3/19/2020	17	9
UCW_MW-5	RMW-ISW3	3/20/2020	17	9

UCW_MW-5	RMW-ISW3	3/21/2020	17	9
UCW_MW-5	RMW-ISW3	3/22/2020	17	9
UCW_MW-5	RMW-ISW3	3/23/2020	17	9
UCW_MW-5	RMW-ISW3	3/24/2020	17	9
UCW_MW-5	RMW-ISW3	3/25/2020	17	9
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UCW_MW-5	RMW-ISW3	3/30/2020	17	9
UCW_MW-5	RMW-ISW3	3/31/2020	17	9
UCW_MW-5	RMW-ISW3	4/1/2020	17	9
UCW_MW-5	RMW-ISW3	4/2/2020	17	9
UCW_MW-5	RMW-ISW3	4/3/2020	17	9
UCW_MW-5	RMW-ISW3	4/4/2020	17	9
UCW_MW-5	RMW-ISW3	4/5/2020	17	9
UCW_MW-5	RMW-ISW3	4/6/2020	16	10
UCW_MW-5	RMW-ISW3	4/7/2020	16	10
UCW_MW-5	RMW-ISW3	4/8/2020	14	12
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UCW_MW-5	RMW-ISW3	4/19/2020	13	13
UCW_MW-5	RMW-ISW3	4/20/2020	13	13
UCW_MW-5	RMW-ISW3	4/21/2020	13	13
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UCW_MW-5	RMW-ISW3	5/4/2020	15	11
UCW_MW-5	RMW-ISW3	5/5/2020	15	11
UCW_MW-5	RMW-ISW3	5/6/2020	15	11
UCW_MW-5	RMW-ISW3	5/7/2020	15	11
UCW_MW-5	RMW-ISW3	5/8/2020	15	11
UCW_MW-5	RMW-ISW3	5/9/2020	15	11
UCW_MW-5	RMW-ISW3	5/10/2020	15	11
UCW_MW-5	RMW-ISW3	5/11/2020	15	11
UCW_MW-5	RMW-ISW3	5/12/2020	15	11
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UCW_MW-5	RMW-ISW3	5/18/2020	16	10
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UCW_MW-5	RMW-ISW3	6/5/2020	17	9
UCW_MW-5	RMW-ISW3	6/6/2020	17	9
UCW_MW-5	RMW-ISW3	6/7/2020	17	9

UCW_MW-5	RMW-ISW3	12/4/2020	31	-5
UCW_MW-5	RMW-ISW3	12/5/2020	31	-5
UCW_MW-5	RMW-ISW3	12/6/2020	31	-5
UCW_MW-5	RMW-ISW3	12/7/2020	31	-5
UCW_MW-5	RMW-ISW3	12/8/2020	31	-5
UCW_MW-5	RMW-ISW3	12/9/2020	31	-5
UCW_MW-5	RMW-ISW3	12/10/2020	31	-5
UCW_MW-5	RMW-ISW3	12/11/2020	31	-5
UCW_MW-5	RMW-ISW3	12/12/2020	31	-5
UCW_MW-5	RMW-ISW3	12/13/2020	31	-5
UCW_MW-5	RMW-ISW3	12/14/2020	31	-5
UCW_MW-5	RMW-ISW3	12/15/2020	32	-6
UCW_MW-5	RMW-ISW3	12/16/2020	32	-6
UCW_MW-5	RMW-ISW3	12/17/2020	31	-5
UCW_MW-5	RMW-ISW3	12/18/2020	31	-5
UCW_MW-5	RMW-ISW3	12/19/2020	31	-5
UCW_MW-5	RMW-ISW3	12/20/2020	31	-5
UCW_MW-5	RMW-ISW3	12/21/2020	31	-5
UCW_MW-5	RMW-ISW3	12/22/2020	31	-5
UCW_MW-5	RMW-ISW3	12/23/2020	30	-4
UCW_MW-5	RMW-ISW3	12/24/2020	30	-4
UCW_MW-5	RMW-ISW3	12/25/2020	30	-4
UCW_MW-5	RMW-ISW3	12/26/2020	30	-4
UCW_MW-5	RMW-ISW3	12/27/2020	30	-4
UCW_MW-5	RMW-ISW3	12/28/2020	30	-4
UCW_MW-5	RMW-ISW3	12/29/2020	30	-4
UCW_MW-5	RMW-ISW3	12/30/2020	30	-4
UCW_MW-5	RMW-ISW3	12/31/2020	30	-4
UCW_MW-5	RMW-ISW3	1/1/2021	30	-4
UCW_MW-5	RMW-ISW3	1/2/2021	29	-3
UCW_MW-5	RMW-ISW3	1/3/2021	29	-3
UCW_MW-5	RMW-ISW3	1/4/2021	29	-3
UCW_MW-5	RMW-ISW3	1/5/2021	29	-3
UCW_MW-5	RMW-ISW3	1/6/2021	29	-3
UCW_MW-5	RMW-ISW3	1/7/2021	29	-3
UCW_MW-5	RMW-ISW3	1/8/2021	29	-3
UCW_MW-5	RMW-ISW3	1/9/2021	29	-3
UCW_MW-5	RMW-ISW3	1/10/2021	29	-3
UCW_MW-5	RMW-ISW3	1/11/2021	29	-3
UCW_MW-5	RMW-ISW3	1/12/2021	29	-3
UCW_MW-5	RMW-ISW3	1/13/2021	29	-3
UCW_MW-5	RMW-ISW3	1/14/2021	29	-3
UCW_MW-5	RMW-ISW3	1/15/2021	28	-2
UCW_MW-5	RMW-ISW3	1/16/2021	28	-2
UCW_MW-5	RMW-ISW3	1/17/2021	28	-2
UCW_MW-5	RMW-ISW3	1/18/2021	28	-2
UCW_MW-5	RMW-ISW3	1/19/2021	28	-2
UCW_MW-5	RMW-ISW3	1/20/2021	28	-2
UCW_MW-5	RMW-ISW3	1/21/2021	28	-2
UCW_MW-5	RMW-ISW3	1/22/2021	28	-2
UCW_MW-5	RMW-ISW3	1/23/2021	28	-2
UCW_MW-5	RMW-ISW3	1/24/2021	28	-2
UCW_MW-5	RMW-ISW3	1/25/2021	28	-2
UCW_MW-5	RMW-ISW3	1/26/2021	28	-2
UCW_MW-5	RMW-ISW3	1/27/2021	28	-2
UCW_MW-5	RMW-ISW3	1/28/2021	28	-2
UCW_MW-5	RMW-ISW3	1/29/2021	28	-2
UCW_MW-5	RMW-ISW3	1/30/2021	27	-1
UCW_MW-5	RMW-ISW3	1/31/2021	27	-1
UCW_MW-5	RMW-ISW3	2/1/2021	27	-1
UCW_MW-5	RMW-ISW3	2/2/2021	26	0
UCW_MW-5	RMW-ISW3	2/3/2021	26	0
UCW_MW-5	RMW-ISW3	2/4/2021	26	0
UCW_MW-5	RMW-ISW3	2/5/2021	26	0
UCW_MW-5	RMW-ISW3	2/6/2021	26	0
UCW_MW-5	RMW-ISW3	2/7/2021	26	0
UCW_MW-5	RMW-ISW3	2/8/2021	26	0
UCW_MW-5	RMW-ISW3	2/9/2021	26	0
UCW_MW-5	RMW-ISW3	2/10/2021	26	0
UCW_MW-5	RMW-ISW3	2/11/2021	26	0
UCW_MW-5	RMW-ISW3	2/12/2021	26	0
UCW_MW-5	RMW-ISW3	2/13/2021	25	1
UCW_MW-5	RMW-ISW3	2/14/2021	25	1
UCW_MW-5	RMW-ISW3	2/15/2021	25	1
UCW_MW-5	RMW-ISW3	2/16/2021	25	1
UCW_MW-5	RMW-ISW3	2/17/2021	25	1
UCW_MW-5	RMW-ISW3	2/18/2021	25	1
UCW_MW-5	RMW-ISW3	2/19/2021	25	1
UCW_MW-5	RMW-ISW3	2/20/2021	25	1

UCW_MW-5	RMW-ISW3	2/21/2021	25	1
UCW_MW-5	RMW-ISW3	2/22/2021	25	1
UCW_MW-5	RMW-ISW3	2/23/2021	25	1
UCW_MW-5	RMW-ISW3	2/24/2021	24	2
UCW_MW-5	RMW-ISW3	2/25/2021	24	2
UCW_MW-5	RMW-ISW3	2/26/2021	24	2
UCW_MW-5	RMW-ISW3	2/27/2021	24	2
UCW_MW-5	RMW-ISW3	2/28/2021	24	2
UCW_MW-5	RMW-ISW3	3/1/2021	24	2
UCW_MW-5	RMW-ISW3	3/2/2021	24	2
UCW_MW-5	RMW-ISW3	3/3/2021	24	2
UCW_MW-5	RMW-ISW3	3/4/2021	24	2
UCW_MW-5	RMW-ISW3	3/5/2021	24	2
UCW_MW-5	RMW-ISW3	3/6/2021	24	2
UCW_MW-5	RMW-ISW3	3/7/2021	24	2
UCW_MW-5	RMW-ISW3	3/8/2021	24	2
UCW_MW-5	RMW-ISW3	3/9/2021	24	2
UCW_MW-5	RMW-ISW3	3/10/2021	24	2
UCW_MW-5	RMW-ISW3	3/11/2021	24	2
UCW_MW-5	RMW-ISW3	3/12/2021	24	2
UCW_MW-5	RMW-ISW3	3/13/2021	24	2
UCW_MW-5	RMW-ISW3	3/14/2021	24	2
UCW_MW-5	RMW-ISW3	3/15/2021	24	2
UCW_MW-5	RMW-ISW3	3/16/2021	24	2
UCW_MW-5	RMW-ISW3	3/17/2021	24	2
UCW_MW-5	RMW-ISW3	3/18/2021	24	2
UCW_MW-5	RMW-ISW3	3/19/2021	24	2
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UCW_MW-5	RMW-ISW3	3/25/2021	23	3
UCW_MW-5	RMW-ISW3	3/26/2021	23	3
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UCW_MW-5	RMW-ISW3	3/29/2021	23	3
UCW_MW-5	RMW-ISW3	3/30/2021	23	3
UCW_MW-5	RMW-ISW3	3/31/2021	23	3
UCW_MW-5	RMW-ISW3	4/1/2021	23	3
UCW_MW-5	RMW-ISW3	4/2/2021	23	3
UCW_MW-5	RMW-ISW3	4/3/2021	23	3
UCW_MW-5	RMW-ISW3	4/4/2021	23	3
UCW_MW-5	RMW-ISW3	4/5/2021	23	3
UCW_MW-5	RMW-ISW3	4/6/2021	23	3
UCW_MW-5	RMW-ISW3	4/7/2021	23	3
UCW_MW-5	RMW-ISW3	4/8/2021	23	3
UCW_MW-5	RMW-ISW3	4/9/2021	23	3
UCW_MW-5	RMW-ISW3	4/10/2021	23	3
UCW_MW-5	RMW-ISW3	4/11/2021	22	4
UCW_MW-5	RMW-ISW3	4/12/2021	22	4
UCW_MW-5	RMW-ISW3	4/13/2021	22	4
UCW_MW-5	RMW-ISW3	4/14/2021	22	4
UCW_MW-5	RMW-ISW3	4/15/2021	22	4
UCW_MW-5	RMW-ISW3	4/16/2021	22	4
UCW_MW-5	RMW-ISW3	4/17/2021	22	4
UCW_MW-5	RMW-ISW3	4/18/2021	22	4
UCW_MW-5	RMW-ISW3	4/19/2021	22	4
UCW_MW-5	RMW-ISW3	4/20/2021	22	4
UCW_MW-5	RMW-ISW3	4/21/2021	22	4
UCW_MW-5	RMW-ISW3	4/22/2021	22	4
UCW_MW-5	RMW-ISW3	4/23/2021	22	4
UCW_MW-5	RMW-ISW3	4/24/2021	22	4
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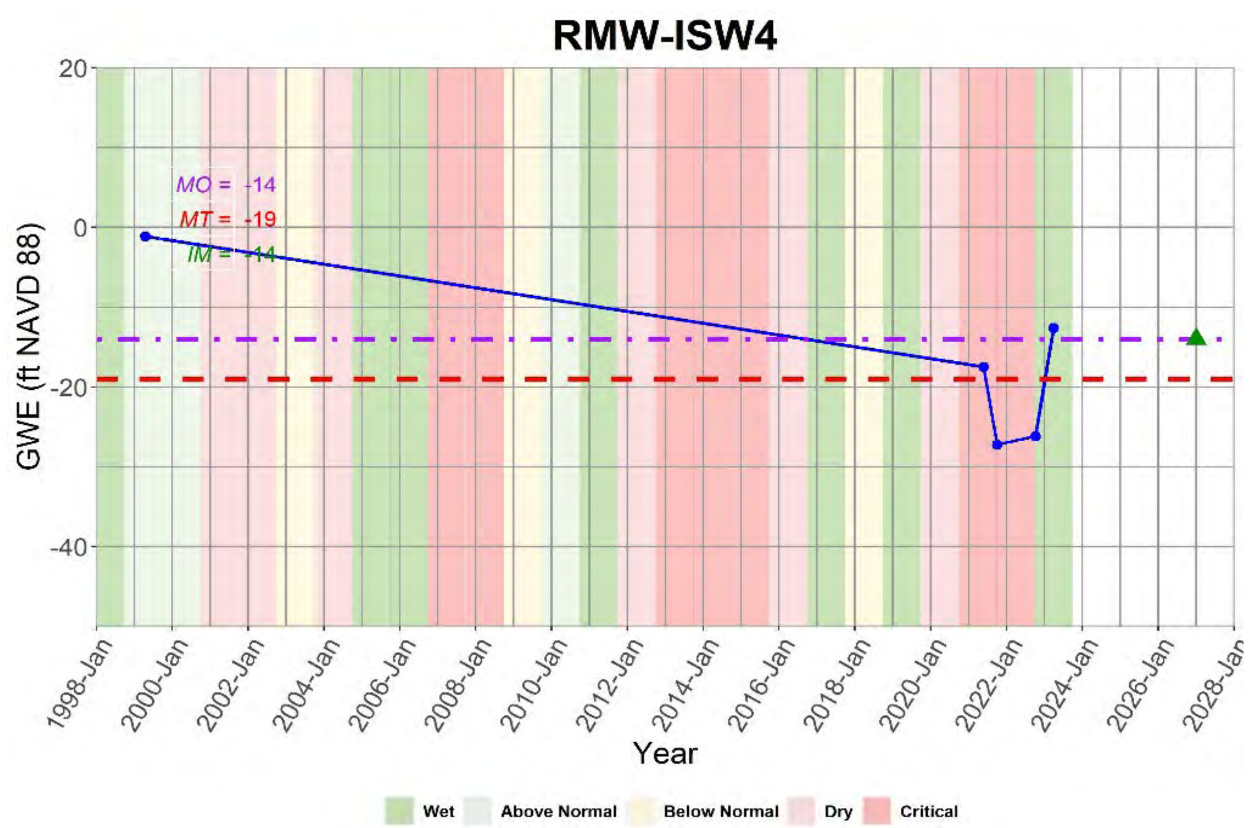
UCW_MW-5	RMW-ISW3	4/27/2021	22	4
UCW_MW-5	RMW-ISW3	4/28/2021	22	4
UCW_MW-5	RMW-ISW3	4/29/2021	22	4
UCW_MW-5	RMW-ISW3	4/30/2021	22	4
UCW_MW-5	RMW-ISW3	5/1/2021	22	4
UCW_MW-5	RMW-ISW3	5/2/2021	22	4
UCW_MW-5	RMW-ISW3	5/3/2021	22	4
UCW_MW-5	RMW-ISW3	5/4/2021	22	4
UCW_MW-5	RMW-ISW3	5/5/2021	23	3
UCW_MW-5	RMW-ISW3	5/6/2021	23	3
UCW_MW-5	RMW-ISW3	5/7/2021	23	3
UCW_MW-5	RMW-ISW3	5/8/2021	23	3
UCW_MW-5	RMW-ISW3	5/9/2021	23	3
UCW_MW-5	RMW-ISW3	5/10/2021	23	3

UCW_MW-5	RMW-ISW3	5/11/2021	23	3
UCW_MW-5	RMW-ISW3	5/12/2021	24	2
UCW_MW-5	RMW-ISW3	5/13/2021	24	2
UCW_MW-5	RMW-ISW3	5/14/2021	24	2
UCW_MW-5	RMW-ISW3	5/15/2021	24	2
UCW_MW-5	RMW-ISW3	5/16/2021	24	2
UCW_MW-5	RMW-ISW3	5/17/2021	24	2
UCW_MW-5	RMW-ISW3	5/18/2021	24	2
UCW_MW-5	RMW-ISW3	5/19/2021	24	2
UCW_MW-5	RMW-ISW3	5/20/2021	24	2
UCW_MW-5	RMW-ISW3	5/21/2021	24	2
UCW_MW-5	RMW-ISW3	5/22/2021	24	2
UCW_MW-5	RMW-ISW3	5/23/2021	25	1
UCW_MW-5	RMW-ISW3	5/24/2021	25	1
UCW_MW-5	RMW-ISW3	5/25/2021	25	1
UCW_MW-5	RMW-ISW3	5/26/2021	25	1
UCW_MW-5	RMW-ISW3	5/27/2021	25	1
UCW_MW-5	RMW-ISW3	5/28/2021	25	1
UCW_MW-5	RMW-ISW3	5/29/2021	25	1
UCW_MW-5	RMW-ISW3	5/30/2021	25	1
UCW_MW-5	RMW-ISW3	5/31/2021	25	1
UCW_MW-5	RMW-ISW3	6/1/2021	26	0
UCW_MW-5	RMW-ISW3	6/2/2021	26	0
UCW_MW-5	RMW-ISW3	6/3/2021	26	0
UCW_MW-5	RMW-ISW3	6/4/2021	26	0
UCW_MW-5	RMW-ISW3	6/5/2021	27	-1
UCW_MW-5	RMW-ISW3	6/6/2021	27	-1
UCW_MW-5	RMW-ISW3	6/7/2021	27	-1
UCW_MW-5	RMW-ISW3	6/8/2021	27	-1
UCW_MW-5	RMW-ISW3	6/9/2021	27	-1
UCW_MW-5	RMW-ISW3	6/10/2021	28	-2
UCW_MW-5	RMW-ISW3	6/11/2021	28	-2
UCW_MW-5	RMW-ISW3	6/12/2021	28	-2
UCW_MW-5	RMW-ISW3	6/13/2021	28	-2
UCW_MW-5	RMW-ISW3	6/14/2021	28	-2
UCW_MW-5	RMW-ISW3	6/15/2021	28	-2
UCW_MW-5	RMW-ISW3	6/16/2021	28	-2
UCW_MW-5	RMW-ISW3	6/17/2021	28	-2
UCW_MW-5	RMW-ISW3	6/18/2021	29	-3
UCW_MW-5	RMW-ISW3	6/19/2021	29	-3
UCW_MW-5	RMW-ISW3	6/20/2021	29	-3
UCW_MW-5	RMW-ISW3	6/21/2021	29	-3
UCW_MW-5	RMW-ISW3	6/22/2021	29	-3
UCW_MW-5	RMW-ISW3	6/23/2021	29	-3
UCW_MW-5	RMW-ISW3	6/24/2021	29	-3
UCW_MW-5	RMW-ISW3	6/25/2021	29	-3
UCW_MW-5	RMW-ISW3	6/26/2021	30	-4
UCW_MW-5	RMW-ISW3	6/27/2021	30	-4
UCW_MW-5	RMW-ISW3	6/28/2021	30	-4
UCW_MW-5	RMW-ISW3	6/29/2021	30	-4
UCW_MW-5	RMW-ISW3	6/30/2021	30	-4
UCW_MW-5	RMW-ISW3	7/1/2021	30	-4
UCW_MW-5	RMW-ISW3	7/2/2021	30	-4
UCW_MW-5	RMW-ISW3	7/3/2021	30	-4
UCW_MW-5	RMW-ISW3	7/4/2021	30	-4
UCW_MW-5	RMW-ISW3	7/5/2021	31	-5
UCW_MW-5	RMW-ISW3	7/6/2021	31	-5
UCW_MW-5	RMW-ISW3	7/7/2021	31	-5
UCW_MW-5	RMW-ISW3	7/8/2021	31	-5
UCW_MW-5	RMW-ISW3	7/9/2021	31	-5
UCW_MW-5	RMW-ISW3	7/10/2021	31	-5
UCW_MW-5	RMW-ISW3	7/11/2021	31	-5
UCW_MW-5	RMW-ISW3	7/12/2021	31	-5
UCW_MW-5	RMW-ISW3	7/13/2021	31	-5
UCW_MW-5	RMW-ISW3	7/14/2021	31	-5
UCW_MW-5	RMW-ISW3	7/15/2021	32	-6
UCW_MW-5	RMW-ISW3	7/16/2021	32	-6
UCW_MW-5	RMW-ISW3	7/17/2021	32	-6
UCW_MW-5	RMW-ISW3	7/18/2021	32	-6
UCW_MW-5	RMW-ISW3	7/19/2021	32	-6
UCW_MW-5	RMW-ISW3	7/20/2021	32	-6
UCW_MW-5	RMW-ISW3	7/21/2021	32	-6
UCW_MW-5	RMW-ISW3	7/22/2021	32	-6
UCW_MW-5	RMW-ISW3	7/23/2021	33	-7
UCW_MW-5	RMW-ISW3	7/24/2021	33	-7
UCW_MW-5	RMW-ISW3	7/25/2021	33	-7
UCW_MW-5	RMW-ISW3	7/26/2021	33	-7
UCW_MW-5	RMW-ISW3	7/27/2021	33	-7
UCW_MW-5	RMW-ISW3	7/28/2021	33	-7

UCW_MW-5	RMW-ISW3	7/29/2021	34	-8
UCW_MW-5	RMW-ISW3	7/30/2021	34	-8
UCW_MW-5	RMW-ISW3	7/31/2021	34	-8
UCW_MW-5	RMW-ISW3	8/1/2021	34	-8
UCW_MW-5	RMW-ISW3	8/2/2021	35	-9
UCW_MW-5	RMW-ISW3	8/3/2021	35	-9
UCW_MW-5	RMW-ISW3	8/4/2021	35	-9
UCW_MW-5	RMW-ISW3	8/5/2021	35	-9
UCW_MW-5	RMW-ISW3	8/6/2021	35	-9
UCW_MW-5	RMW-ISW3	8/7/2021	35	-9
UCW_MW-5	RMW-ISW3	8/8/2021	35	-9
UCW_MW-5	RMW-ISW3	8/9/2021	35	-9
UCW_MW-5	RMW-ISW3	8/10/2021	36	-10
UCW_MW-5	RMW-ISW3	4/13/2022		NM
UCW_MW-5	RMW-ISW3	10/5/2022	#VALUE!	NM
UCW_MW-5	RMW-ISW3	3/30/2023	#VALUE!	NM
UCW_MW-5	RMW-ISW3	10/2/2023	27.24	-1.24

Site Code: 383642N1213113W001 **State Well Number:** 06N06E22C001M **Local Well Name:** 06N06E22C001M

Site Code: 383642N1213113W001
Local Well Name: 06N06E22C001M
State Well Number: 06N06E22C001M
Station ID: 5607
WCR Number:
Latitude: 38.36420
Longitude: -121.31130
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Irrigation
Well Completion Type: Single Well
Well Depth (feet bgs): 141
Top Perforation (feet bgs):
Bottom Perforation (feet bgs):
Ground Surface Elevation: 52.36
Reference Point Elevation: 53.36
Reference Point Description: None Provided
Station Comments: Network ID: RMW-ISW4 - Included in CASGEM migration, Not intended for GWL SI

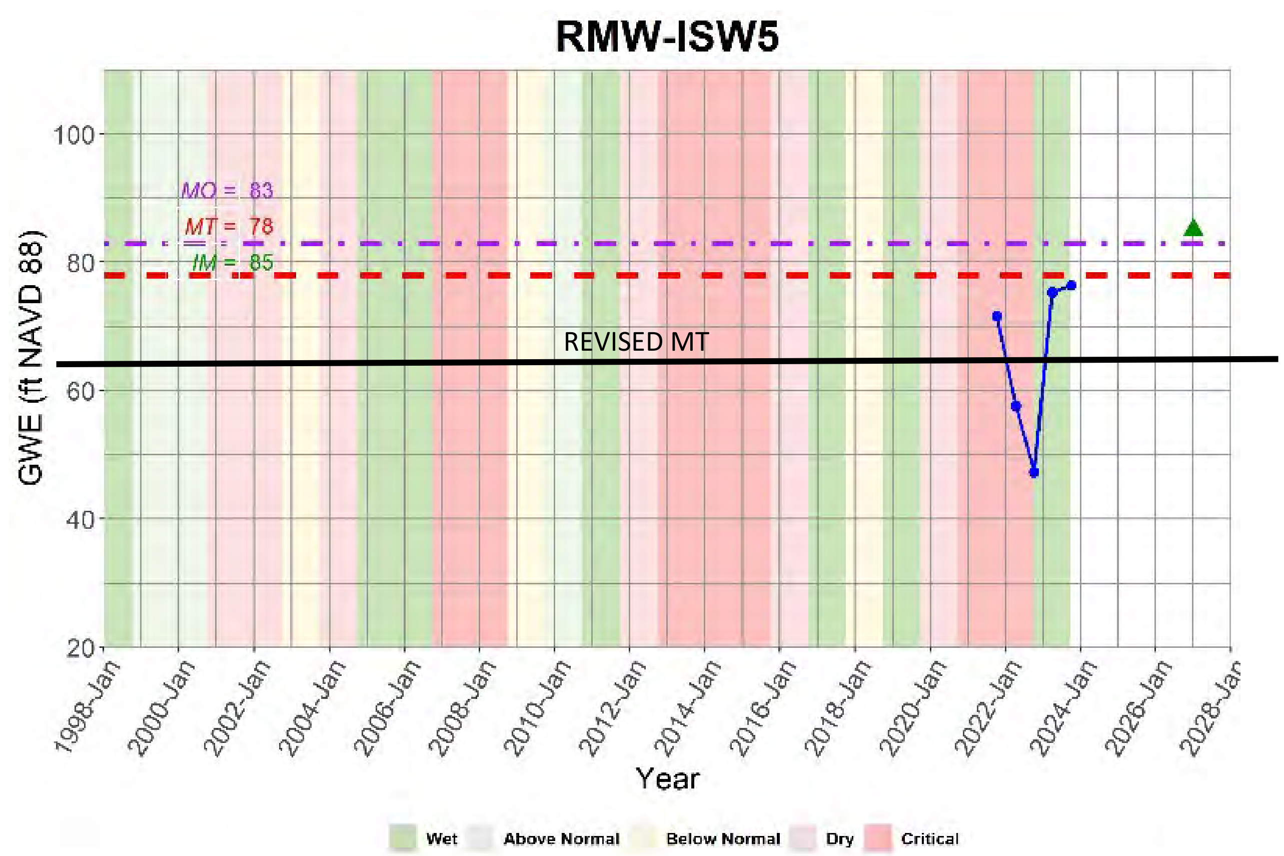


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
06N06E22C001M	RMW-ISW4	4/2/1963	43.5	8.86
06N06E22C001M	RMW-ISW4	10/23/1963	46.3	6.06
06N06E22C001M	RMW-ISW4	4/6/1964	43.4	8.96
06N06E22C001M	RMW-ISW4	10/10/1964	51	1.36
06N06E22C001M	RMW-ISW4	3/16/1965	42	10.36
06N06E22C001M	RMW-ISW4	10/7/1965	46.9	5.46
06N06E22C001M	RMW-ISW4	3/11/1966	44.5	7.86
06N06E22C001M	RMW-ISW4	10/6/1966	60.1	-7.74
06N06E22C001M	RMW-ISW4	3/9/1967	46.4	5.96
06N06E22C001M	RMW-ISW4	10/10/1967	47.6	4.76
06N06E22C001M	RMW-ISW4	3/13/1968	45.6	6.76
06N06E22C001M	RMW-ISW4	10/11/1968	52.9	-0.54
06N06E22C001M	RMW-ISW4	4/2/1969	41.7	10.66
06N06E22C001M	RMW-ISW4	10/17/1969	49.5	2.86
06N06E22C001M	RMW-ISW4	3/24/1970	42.1	10.26
06N06E22C001M	RMW-ISW4	10/16/1970	50.9	1.46
06N06E22C001M	RMW-ISW4	3/18/1971	46.1	6.26
06N06E22C001M	RMW-ISW4	10/18/1971	54.1	-1.74
06N06E22C001M	RMW-ISW4	3/10/1972	50.7	1.66
06N06E22C001M	RMW-ISW4	10/16/1972	57.2	-4.84
06N06E22C001M	RMW-ISW4	3/21/1973	47.7	4.66
06N06E22C001M	RMW-ISW4	10/16/1973	56.1	-3.74
06N06E22C001M	RMW-ISW4	4/17/1974	47.2	5.16
06N06E22C001M	RMW-ISW4	4/10/1975	49.3	3.06
06N06E22C001M	RMW-ISW4	10/29/1975	56.1	-3.74
06N06E22C001M	RMW-ISW4	3/18/1976	55.4	-3.04
06N06E22C001M	RMW-ISW4	3/9/1977	63.9	-11.54
06N06E22C001M	RMW-ISW4	10/12/1977	74.9	-22.54
06N06E22C001M	RMW-ISW4	10/16/1978	71.5	-19.14
06N06E22C001M	RMW-ISW4	3/23/1979	62.3	-9.94
06N06E22C001M	RMW-ISW4	10/30/1979	68.3	-15.94
06N06E22C001M	RMW-ISW4	4/1/1980	54.6	-2.24
06N06E22C001M	RMW-ISW4	11/6/1980	61.9	-9.54
06N06E22C001M	RMW-ISW4	3/24/1981	58.8	-6.44
06N06E22C001M	RMW-ISW4	10/20/1981	68.8	-16.44
06N06E22C001M	RMW-ISW4	4/23/1982	48.9	3.46
06N06E22C001M	RMW-ISW4	11/3/1982	55.9	-3.54

06N06E22C001M	RMW-ISW4	4/21/1983	41.3	11.06
06N06E22C001M	RMW-ISW4	12/20/1983	46.6	5.76
06N06E22C001M	RMW-ISW4	4/5/1984	43	9.36
06N06E22C001M	RMW-ISW4	3/22/1985	50.1	2.26
06N06E22C001M	RMW-ISW4	10/15/1985	60.6	-8.24
06N06E22C001M	RMW-ISW4	3/18/1986	51	1.36
06N06E22C001M	RMW-ISW4	10/20/1986	54.8	-2.44
06N06E22C001M	RMW-ISW4	3/2/1987	53.4	-1.04
06N06E22C001M	RMW-ISW4	10/16/1987	62	-9.64
06N06E22C001M	RMW-ISW4	3/14/1988	60.1	-7.74
06N06E22C001M	RMW-ISW4	10/14/1988	67.4	-15.04
06N06E22C001M	RMW-ISW4	3/13/1989	66.2	-13.84
06N06E22C001M	RMW-ISW4	10/2/1989	69.1	-16.74
06N06E22C001M	RMW-ISW4	3/22/1990	68.9	-16.54
06N06E22C001M	RMW-ISW4	10/15/1990	72.8	-20.44
06N06E22C001M	RMW-ISW4	3/29/1991	72.1	-19.74
06N06E22C001M	RMW-ISW4	4/22/1993	70	-17.64
06N06E22C001M	RMW-ISW4	4/29/1994	70.7	-18.34
06N06E22C001M	RMW-ISW4	5/8/1995	60.5	-8.14
06N06E22C001M	RMW-ISW4	12/19/1995	64.2	-11.84
06N06E22C001M	RMW-ISW4	5/2/1996	58.7	-6.34
06N06E22C001M	RMW-ISW4	11/12/1996	64.5	-12.14
06N06E22C001M	RMW-ISW4	4/14/1999	53.5	-1.14
06N06E22C001M	RMW-ISW4	5/24/2021	69.83	-17.47
06N06E22C001M	RMW-ISW4	10/4/2021	79.56	-27.2
06N06E22C001M	RMW-ISW4	10/5/2022	78.56	-26.2
06N06E22C001M	RMW-ISW4	3/30/2023	64.99	-12.63
06N06E22C001M	RMW-ISW4	10/1/2023		

Site Code: 384832N1211480W001 **State Well Number:** 07N08E06N001M **Local Well Name:** 07N08E06N001M

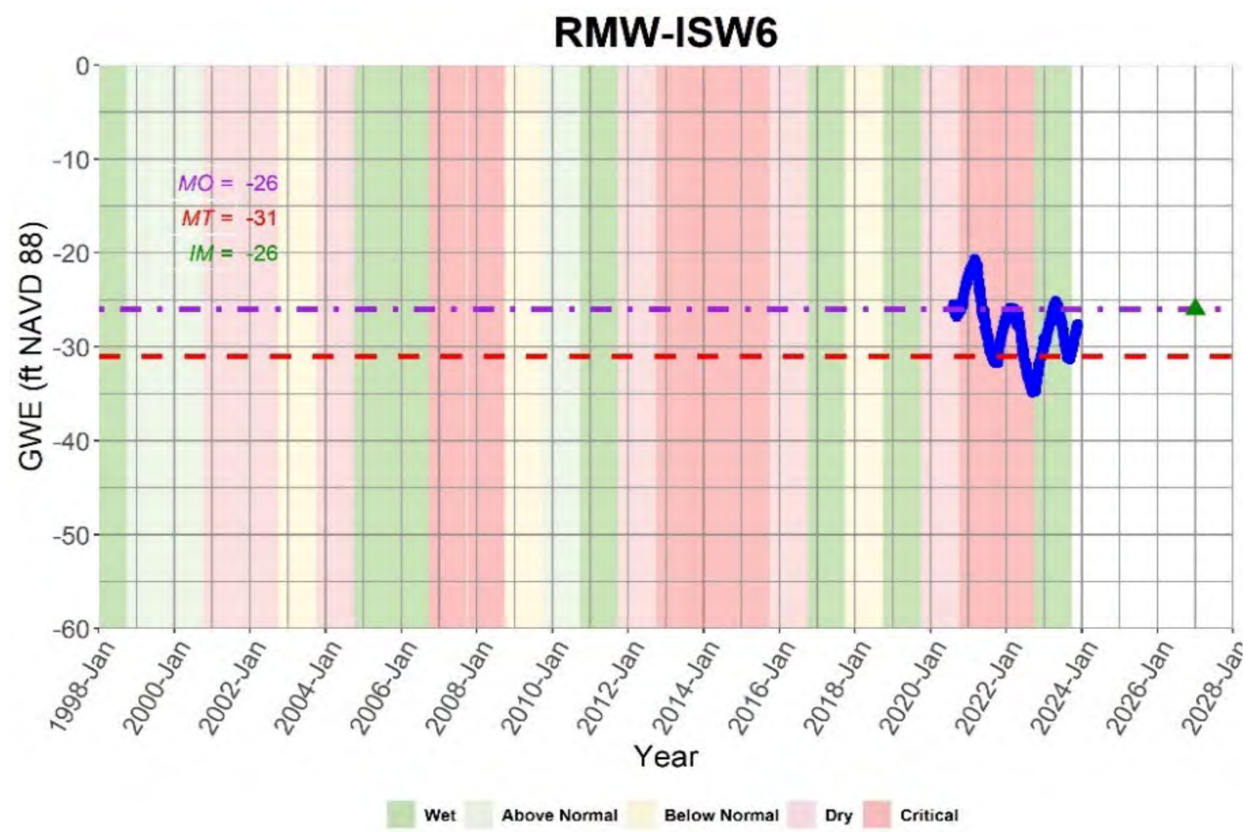
Site Code: 384832N1211480W001
Local Well Name: 07N08E06N001M
State Well Number: 07N08E06N001M
Station ID: 4948
WCR Number:
Latitude: 38.48320
Longitude: -121.14800
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Irrigation
Well Completion Type: Single Well
Well Depth (feet bgs): 135
Top Perforation (feet bgs):
Bottom Perforation (feet bgs):
Ground Surface Elevation: 119.89
Reference Point Elevation: 121.39
Reference Point Description: None Provided
Station Comments: Network ID: RMW-ISW5 and RMW-WQ8 - Included in CASGEM migration, Not intended for GWL SI



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
07N08E06N001M	RMW-ISW5	3/22/1990	37.7	83.69
07N08E06N001M	RMW-ISW5	9/27/1990	66	55.39
07N08E06N001M	RMW-ISW5	10/3/1991	68.1	53.29
07N08E06N001M	RMW-ISW5	10/2/1992	67	54.39
07N08E06N001M	RMW-ISW5	10/6/1993	50.2	71.19
07N08E06N001M	RMW-ISW5	3/8/1994	41.2	80.19
07N08E06N001M	RMW-ISW5	10/11/1994	53	68.39
07N08E06N001M	RMW-ISW5	4/17/1995	39.8	81.59
07N08E06N001M	RMW-ISW5	11/8/1996	41.5	79.89
07N08E06N001M	RMW-ISW5	11/5/1997	36.5	84.89
07N08E06N001M	RMW-ISW5	10/6/2021	49.81	71.58
07N08E06N001M	RMW-ISW5	4/13/2022	63.82	57.57
07N08E06N001M	RMW-ISW5	10/5/2022	74.09	47.3
07N08E06N001M	RMW-ISW5	4/7/2023	46.08	75.31
07N08E06N001M	RMW-ISW5	10/2/2023	45	76.39

Site Code: 384280N1212236W002 **State Well Number:** 07N07E28M500M **Local Well Name:** OHWD TSS Shallow

Site Code:	384280N1212236W002
Local Well Name:	OHWD TSS Shallow
State Well Number:	07N07E28M500M
Station ID:	57721
WCR Number:	WCR2020-010565
Latitude:	38.42807
Longitude:	-121.22362
Station Organization ID:	
Station Organization Name:	
Well Location Description:	
Well Use Type:	Observation
Well Completion Type:	Part of a nested/multi-completion well
Well Depth (feet bgs):	180
Top Perforation (feet bgs):	150
Bottom Perforation (feet bgs):	180
Ground Surface Elevation:	82.7
Reference Point Elevation:	85.35
Reference Point Description:	top of casing
Station Comments:	Network ID: RMW-ISW6



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
OHWD TSS Shallow	RMW-ISW6	9/5/2020	115.5379302	-30.18793022
OHWD TSS Shallow	RMW-ISW6	9/6/2020	115.5511474	-30.20114738
OHWD TSS Shallow	RMW-ISW6	9/7/2020	115.5940051	-30.2440051
OHWD TSS Shallow	RMW-ISW6	9/8/2020	116.2969132	-30.94691321
OHWD TSS Shallow	RMW-ISW6	9/9/2020	115.9011367	-30.55113671
OHWD TSS Shallow	RMW-ISW6	9/10/2020	115.6236687	-30.27366873
OHWD TSS Shallow	RMW-ISW6	9/11/2020	115.6529864	-30.30298636
OHWD TSS Shallow	RMW-ISW6	9/12/2020	114.7172672	-29.36726718
OHWD TSS Shallow	RMW-ISW6	9/13/2020	114.2406654	-28.89066535
OHWD TSS Shallow	RMW-ISW6	9/14/2020	114.0422235	-28.6922235
OHWD TSS Shallow	RMW-ISW6	9/15/2020	114.12727	-28.77727001
OHWD TSS Shallow	RMW-ISW6	9/16/2020	114.0139669	-28.66396693
OHWD TSS Shallow	RMW-ISW6	9/17/2020	114.5392393	-29.18923926
OHWD TSS Shallow	RMW-ISW6	9/18/2020	114.9542533	-29.6042533
OHWD TSS Shallow	RMW-ISW6	9/19/2020	114.9251433	-29.57514326
OHWD TSS Shallow	RMW-ISW6	9/20/2020	114.3868614	-29.03686138
OHWD TSS Shallow	RMW-ISW6	9/21/2020	114.491699	-29.14169902
OHWD TSS Shallow	RMW-ISW6	9/22/2020	115.150227	-29.80022702
OHWD TSS Shallow	RMW-ISW6	9/23/2020	115.6540705	-30.30407049
OHWD TSS Shallow	RMW-ISW6	9/24/2020	114.8940034	-29.54400337
OHWD TSS Shallow	RMW-ISW6	9/25/2020	114.9464107	-29.59641066
OHWD TSS Shallow	RMW-ISW6	9/26/2020	114.8214359	-29.47143589
OHWD TSS Shallow	RMW-ISW6	9/27/2020	114.471239	-29.12123896
OHWD TSS Shallow	RMW-ISW6	9/28/2020	114.2049352	-28.85493521
OHWD TSS Shallow	RMW-ISW6	9/29/2020	114.4963815	-29.14638154
OHWD TSS Shallow	RMW-ISW6	9/30/2020	114.8719979	-29.52199785
OHWD TSS Shallow	RMW-ISW6	10/1/2020	115.3155914	-29.96559139
OHWD TSS Shallow	RMW-ISW6	10/2/2020	114.5625596	-29.21255958
OHWD TSS Shallow	RMW-ISW6	10/3/2020	114.2220737	-28.87207368
OHWD TSS Shallow	RMW-ISW6	10/4/2020	113.9122663	-28.56226634
OHWD TSS Shallow	RMW-ISW6	10/5/2020	113.930858	-28.58085801
OHWD TSS Shallow	RMW-ISW6	10/6/2020	113.9858026	-28.63580263
OHWD TSS Shallow	RMW-ISW6	10/7/2020	113.879927	-28.52992699
OHWD TSS Shallow	RMW-ISW6	10/8/2020	113.7224514	-28.3724514
OHWD TSS Shallow	RMW-ISW6	10/9/2020	113.785354	-28.43535398
OHWD TSS Shallow	RMW-ISW6	10/10/2020	113.6761798	-28.32617982
OHWD TSS Shallow	RMW-ISW6	10/11/2020	113.5537193	-28.20371931
OHWD TSS Shallow	RMW-ISW6	10/12/2020	113.5192348	-28.16923476

OHWD TSS Shallow	RMW-ISW6	10/13/2020	114.0230321	-28.6730321
OHWD TSS Shallow	RMW-ISW6	10/14/2020	114.5887402	-29.23874015
OHWD TSS Shallow	RMW-ISW6	10/15/2020	114.2102405	-28.86024052
OHWD TSS Shallow	RMW-ISW6	10/16/2020	114.4994263	-29.14942633
OHWD TSS Shallow	RMW-ISW6	10/17/2020	114.9495477	-29.59954771
OHWD TSS Shallow	RMW-ISW6	10/18/2020	114.3827786	-29.03277859
OHWD TSS Shallow	RMW-ISW6	10/19/2020	114.5166801	-29.16668013
OHWD TSS Shallow	RMW-ISW6	10/20/2020	115.0931603	-29.74316029
OHWD TSS Shallow	RMW-ISW6	10/21/2020	114.5951296	-29.2451296
OHWD TSS Shallow	RMW-ISW6	10/22/2020	114.4205155	-29.07051553
OHWD TSS Shallow	RMW-ISW6	10/23/2020	114.0245084	-28.67450836
OHWD TSS Shallow	RMW-ISW6	10/24/2020	113.9432448	-28.59324477
OHWD TSS Shallow	RMW-ISW6	10/25/2020	113.6279245	-28.27792452
OHWD TSS Shallow	RMW-ISW6	10/26/2020	113.5893572	-28.23935719
OHWD TSS Shallow	RMW-ISW6	10/27/2020	114.1656759	-28.81567587
OHWD TSS Shallow	RMW-ISW6	10/28/2020	114.0224554	-28.67245543
OHWD TSS Shallow	RMW-ISW6	10/29/2020	113.9097521	-28.55975209
OHWD TSS Shallow	RMW-ISW6	10/30/2020	113.7752047	-28.42520468
OHWD TSS Shallow	RMW-ISW6	10/31/2020	113.5983993	-28.24839929
OHWD TSS Shallow	RMW-ISW6	11/1/2020	113.3791975	-28.02919751
OHWD TSS Shallow	RMW-ISW6	11/2/2020	113.4508423	-28.10084233
OHWD TSS Shallow	RMW-ISW6	11/3/2020	113.761111	-28.411111
OHWD TSS Shallow	RMW-ISW6	11/4/2020	113.8199308	-28.4699308
OHWD TSS Shallow	RMW-ISW6	11/5/2020	114.2717822	-28.92178218
OHWD TSS Shallow	RMW-ISW6	11/6/2020	113.5267083	-28.17670834
OHWD TSS Shallow	RMW-ISW6	11/7/2020	113.0392883	-27.68928828
OHWD TSS Shallow	RMW-ISW6	11/8/2020	112.8390934	-27.48909337
OHWD TSS Shallow	RMW-ISW6	11/9/2020	113.0509369	-27.70093691
OHWD TSS Shallow	RMW-ISW6	11/10/2020	113.2344316	-27.88443161
OHWD TSS Shallow	RMW-ISW6	11/11/2020	113.0889276	-27.73892758
OHWD TSS Shallow	RMW-ISW6	11/12/2020	112.9761781	-27.6261781
OHWD TSS Shallow	RMW-ISW6	11/13/2020	112.7707932	-27.4207932
OHWD TSS Shallow	RMW-ISW6	11/14/2020	112.7754065	-27.42540652
OHWD TSS Shallow	RMW-ISW6	11/15/2020	112.6628877	-27.31288771
OHWD TSS Shallow	RMW-ISW6	11/16/2020	112.462416	-27.112416
OHWD TSS Shallow	RMW-ISW6	11/17/2020	112.3069703	-26.95697026
OHWD TSS Shallow	RMW-ISW6	11/18/2020	112.3201413	-26.97014128
OHWD TSS Shallow	RMW-ISW6	11/19/2020	112.356425	-27.00642503
OHWD TSS Shallow	RMW-ISW6	11/20/2020	112.2605142	-26.91051416
OHWD TSS Shallow	RMW-ISW6	11/21/2020	112.1527009	-26.80270093
OHWD TSS Shallow	RMW-ISW6	11/22/2020	111.9457475	-26.59574751
OHWD TSS Shallow	RMW-ISW6	11/23/2020	111.8244634	-26.47446339
OHWD TSS Shallow	RMW-ISW6	11/24/2020	111.8365503	-26.48655028
OHWD TSS Shallow	RMW-ISW6	11/25/2020	111.8658449	-26.51584485
OHWD TSS Shallow	RMW-ISW6	11/26/2020	111.8889806	-26.53898063
OHWD TSS Shallow	RMW-ISW6	11/27/2020	111.8440931	-26.49409305
OHWD TSS Shallow	RMW-ISW6	11/28/2020	111.8098161	-26.45981611
OHWD TSS Shallow	RMW-ISW6	11/29/2020	111.6955673	-26.3455673
OHWD TSS Shallow	RMW-ISW6	11/30/2020	111.724908	-26.374908
OHWD TSS Shallow	RMW-ISW6	12/1/2020	111.6433445	-26.29334454
OHWD TSS Shallow	RMW-ISW6	12/2/2020	111.4919124	-26.1419124
OHWD TSS Shallow	RMW-ISW6	12/3/2020	111.5204688	-26.17046883
OHWD TSS Shallow	RMW-ISW6	12/4/2020	111.517424	-26.16742404
OHWD TSS Shallow	RMW-ISW6	12/5/2020	111.4568512	-26.10685119
OHWD TSS Shallow	RMW-ISW6	12/6/2020	111.4248809	-26.0748809
OHWD TSS Shallow	RMW-ISW6	12/7/2020	111.290864	-25.94086402
OHWD TSS Shallow	RMW-ISW6	12/8/2020	111.3168831	-25.96688313
OHWD TSS Shallow	RMW-ISW6	12/9/2020	111.268005	-25.91800504
OHWD TSS Shallow	RMW-ISW6	12/10/2020	111.1608607	-25.81086074
OHWD TSS Shallow	RMW-ISW6	12/11/2020	111.2749019	-25.92490194
OHWD TSS Shallow	RMW-ISW6	12/12/2020	111.1601226	-25.81012261
OHWD TSS Shallow	RMW-ISW6	12/13/2020	111.1074155	-25.75741545
OHWD TSS Shallow	RMW-ISW6	12/14/2020	111.1194332	-25.76943315
OHWD TSS Shallow	RMW-ISW6	12/15/2020	111.1237005	-25.77370046
OHWD TSS Shallow	RMW-ISW6	12/16/2020	111.0408914	-25.69089142
OHWD TSS Shallow	RMW-ISW6	12/17/2020	110.7343365	-25.38433647
OHWD TSS Shallow	RMW-ISW6	12/18/2020	110.8750427	-25.52504265
OHWD TSS Shallow	RMW-ISW6	12/19/2020	110.9656482	-25.61564821
OHWD TSS Shallow	RMW-ISW6	12/20/2020	110.889367	-25.539367
OHWD TSS Shallow	RMW-ISW6	12/21/2020	110.6705112	-25.32051122
OHWD TSS Shallow	RMW-ISW6	12/22/2020	110.6265002	-25.27650017
OHWD TSS Shallow	RMW-ISW6	12/23/2020	110.6832901	-25.33329011
OHWD TSS Shallow	RMW-ISW6	12/24/2020	110.6983987	-25.34839873
OHWD TSS Shallow	RMW-ISW6	12/25/2020	110.5139122	-25.16391216
OHWD TSS Shallow	RMW-ISW6	12/26/2020	110.5022405	-25.15224047
OHWD TSS Shallow	RMW-ISW6	12/27/2020	110.3498857	-24.99988566
OHWD TSS Shallow	RMW-ISW6	12/28/2020	110.1595633	-24.80956325
OHWD TSS Shallow	RMW-ISW6	12/29/2020	110.4542158	-25.10421583
OHWD TSS Shallow	RMW-ISW6	12/30/2020	110.5930075	-25.24300749

OHWD TSS Shallow	RMW-ISW6	12/31/2020	110.4367544	-25.08675443
OHWD TSS Shallow	RMW-ISW6	1/1/2021	110.3582819	-25.0082819
OHWD TSS Shallow	RMW-ISW6	1/2/2021	110.3980256	-25.04802563
OHWD TSS Shallow	RMW-ISW6	1/3/2021	110.3485247	-24.99852473
OHWD TSS Shallow	RMW-ISW6	1/4/2021	110.2023287	-24.8523287
OHWD TSS Shallow	RMW-ISW6	1/5/2021	110.2972246	-24.94722464
OHWD TSS Shallow	RMW-ISW6	1/6/2021	110.245025	-24.89502495
OHWD TSS Shallow	RMW-ISW6	1/7/2021	110.2430643	-24.89306429
OHWD TSS Shallow	RMW-ISW6	1/8/2021	110.1792852	-24.82928518
OHWD TSS Shallow	RMW-ISW6	1/9/2021	110.1549961	-24.80499606
OHWD TSS Shallow	RMW-ISW6	1/10/2021	110.1382497	-24.78824972
OHWD TSS Shallow	RMW-ISW6	1/11/2021	110.143901	-24.79390103
OHWD TSS Shallow	RMW-ISW6	1/12/2021	110.0992441	-24.74924412
OHWD TSS Shallow	RMW-ISW6	1/13/2021	110.1238792	-24.77387924
OHWD TSS Shallow	RMW-ISW6	1/14/2021	110.0722332	-24.72223315
OHWD TSS Shallow	RMW-ISW6	1/15/2021	110.0083387	-24.6583387
OHWD TSS Shallow	RMW-ISW6	1/16/2021	109.8706081	-24.52060811
OHWD TSS Shallow	RMW-ISW6	1/17/2021	109.7819171	-24.43191708
OHWD TSS Shallow	RMW-ISW6	1/18/2021	109.6552354	-24.30523538
OHWD TSS Shallow	RMW-ISW6	1/19/2021	109.779126	-24.42912602
OHWD TSS Shallow	RMW-ISW6	1/20/2021	110.0376563	-24.68765633
OHWD TSS Shallow	RMW-ISW6	1/21/2021	109.9747538	-24.62475375
OHWD TSS Shallow	RMW-ISW6	1/22/2021	109.7172384	-24.36723837
OHWD TSS Shallow	RMW-ISW6	1/23/2021	109.6965246	-24.34652457
OHWD TSS Shallow	RMW-ISW6	1/24/2021	109.6648311	-24.31483108
OHWD TSS Shallow	RMW-ISW6	1/25/2021	109.523802	-24.17380196
OHWD TSS Shallow	RMW-ISW6	1/26/2021	109.6374049	-24.28740491
OHWD TSS Shallow	RMW-ISW6	1/27/2021	109.5247246	-24.17472463
OHWD TSS Shallow	RMW-ISW6	1/28/2021	109.4337039	-24.08370387
OHWD TSS Shallow	RMW-ISW6	1/29/2021	109.4680039	-24.11800389
OHWD TSS Shallow	RMW-ISW6	1/30/2021	109.7433497	-24.39334974
OHWD TSS Shallow	RMW-ISW6	1/31/2021	109.7414122	-24.39141215
OHWD TSS Shallow	RMW-ISW6	2/1/2021	109.5738795	-24.22387953
OHWD TSS Shallow	RMW-ISW6	2/2/2021	109.5560029	-24.20600292
OHWD TSS Shallow	RMW-ISW6	2/3/2021	109.6297699	-24.27976987
OHWD TSS Shallow	RMW-ISW6	2/4/2021	109.6183058	-24.26830577
OHWD TSS Shallow	RMW-ISW6	2/5/2021	109.5741102	-24.22411019
OHWD TSS Shallow	RMW-ISW6	2/6/2021	109.4509577	-24.10095768
OHWD TSS Shallow	RMW-ISW6	2/7/2021	109.3309884	-23.98098836
OHWD TSS Shallow	RMW-ISW6	2/8/2021	109.2617425	-23.91174247
OHWD TSS Shallow	RMW-ISW6	2/9/2021	109.276805	-23.92680495
OHWD TSS Shallow	RMW-ISW6	2/10/2021	109.3985043	-24.04850426
OHWD TSS Shallow	RMW-ISW6	2/11/2021	109.4307052	-24.08070522
OHWD TSS Shallow	RMW-ISW6	2/12/2021	109.2950968	-23.94509675
OHWD TSS Shallow	RMW-ISW6	2/13/2021	109.2250666	-23.87506659
OHWD TSS Shallow	RMW-ISW6	2/14/2021	109.2430355	-23.89303546
OHWD TSS Shallow	RMW-ISW6	2/15/2021	109.2389065	-23.88890654
OHWD TSS Shallow	RMW-ISW6	2/16/2021	109.2578904	-23.90789035
OHWD TSS Shallow	RMW-ISW6	2/17/2021	109.2533462	-23.90334623
OHWD TSS Shallow	RMW-ISW6	2/18/2021	109.3364321	-23.98643208
OHWD TSS Shallow	RMW-ISW6	2/19/2021	109.2926056	-23.94260556
OHWD TSS Shallow	RMW-ISW6	2/20/2021	109.2026228	-23.8526228
OHWD TSS Shallow	RMW-ISW6	2/21/2021	109.2772894	-23.92728935
OHWD TSS Shallow	RMW-ISW6	2/22/2021	109.1590962	-23.80909615
OHWD TSS Shallow	RMW-ISW6	2/23/2021	108.9469989	-23.59699888
OHWD TSS Shallow	RMW-ISW6	2/24/2021	108.9158821	-23.56588205
OHWD TSS Shallow	RMW-ISW6	2/25/2021	108.9828674	-23.63286742
OHWD TSS Shallow	RMW-ISW6	2/26/2021	108.9238862	-23.57388616
OHWD TSS Shallow	RMW-ISW6	2/27/2021	108.9145673	-23.56456726
OHWD TSS Shallow	RMW-ISW6	2/28/2021	108.9590396	-23.60903964
OHWD TSS Shallow	RMW-ISW6	3/1/2021	108.8954451	-23.54544506
OHWD TSS Shallow	RMW-ISW6	3/2/2021	108.7976658	-23.44766579
OHWD TSS Shallow	RMW-ISW6	3/3/2021	108.668539	-23.31853904
OHWD TSS Shallow	RMW-ISW6	3/4/2021	109.1946418	-23.84464176
OHWD TSS Shallow	RMW-ISW6	3/5/2021	109.2639338	-23.91393379
OHWD TSS Shallow	RMW-ISW6	3/6/2021	109.1502617	-23.80026165
OHWD TSS Shallow	RMW-ISW6	3/7/2021	108.9631916	-23.61319163
OHWD TSS Shallow	RMW-ISW6	3/8/2021	108.9325592	-23.5825592
OHWD TSS Shallow	RMW-ISW6	3/9/2021	109.3174944	-23.96749441
OHWD TSS Shallow	RMW-ISW6	3/10/2021	108.9770085	-23.62700851
OHWD TSS Shallow	RMW-ISW6	3/11/2021	108.873947	-23.523947
OHWD TSS Shallow	RMW-ISW6	3/12/2021	108.0217019	-22.67170188
OHWD TSS Shallow	RMW-ISW6	3/13/2021	108.4244676	-23.07446756
OHWD TSS Shallow	RMW-ISW6	3/14/2021	108.8086877	-23.4586877
OHWD TSS Shallow	RMW-ISW6	3/15/2021	108.4343862	-23.08438619
OHWD TSS Shallow	RMW-ISW6	3/16/2021	108.7636848	-23.41368479
OHWD TSS Shallow	RMW-ISW6	3/17/2021	108.992044	-23.64204401
OHWD TSS Shallow	RMW-ISW6	3/18/2021	109.201973	-23.85197302
OHWD TSS Shallow	RMW-ISW6	3/19/2021	109.5262662	-24.17626617

OHWD TSS Shallow	RMW-ISW6	3/20/2021	109.4964641	-24.14646414
OHWD TSS Shallow	RMW-ISW6	3/21/2021	109.1664505	-23.81645047
OHWD TSS Shallow	RMW-ISW6	3/22/2021	108.7404106	-23.3904106
OHWD TSS Shallow	RMW-ISW6	3/23/2021	108.4662181	-23.11621808
OHWD TSS Shallow	RMW-ISW6	3/24/2021	108.7239641	-23.37396413
OHWD TSS Shallow	RMW-ISW6	3/25/2021	108.8438412	-23.49384118
OHWD TSS Shallow	RMW-ISW6	3/26/2021	109.3054728	-23.9554728
OHWD TSS Shallow	RMW-ISW6	3/27/2021	108.8928116	-23.54281155
OHWD TSS Shallow	RMW-ISW6	3/28/2021	108.6829517	-23.33295174
OHWD TSS Shallow	RMW-ISW6	3/29/2021	108.6348348	-23.28483483
OHWD TSS Shallow	RMW-ISW6	3/30/2021	110.1642188	-24.81421878
OHWD TSS Shallow	RMW-ISW6	3/31/2021	109.9835151	-24.63351513
OHWD TSS Shallow	RMW-ISW6	4/1/2021	109.8075171	-24.45751707
OHWD TSS Shallow	RMW-ISW6	4/2/2021	110.5508379	-25.20083785
OHWD TSS Shallow	RMW-ISW6	4/3/2021	110.4215958	-25.07159576
OHWD TSS Shallow	RMW-ISW6	4/4/2021	110.2766453	-24.92664532
OHWD TSS Shallow	RMW-ISW6	4/5/2021	109.7447529	-24.39475288
OHWD TSS Shallow	RMW-ISW6	4/6/2021	111.041395	-25.69139496
OHWD TSS Shallow	RMW-ISW6	4/7/2021	111.5339127	-26.18391273
OHWD TSS Shallow	RMW-ISW6	4/8/2021	111.6511602	-26.3011602
OHWD TSS Shallow	RMW-ISW6	4/9/2021	111.513222	-26.16322201
OHWD TSS Shallow	RMW-ISW6	4/10/2021	111.1478703	-25.79787033
OHWD TSS Shallow	RMW-ISW6	4/11/2021	110.7589677	-25.40896766
OHWD TSS Shallow	RMW-ISW6	4/12/2021	110.7075061	-25.35750611
OHWD TSS Shallow	RMW-ISW6	4/13/2021	111.0413719	-25.69137189
OHWD TSS Shallow	RMW-ISW6	4/14/2021	111.676026	-26.32602598
OHWD TSS Shallow	RMW-ISW6	4/15/2021	111.9914154	-26.64141543
OHWD TSS Shallow	RMW-ISW6	4/16/2021	112.3693615	-27.01936146
OHWD TSS Shallow	RMW-ISW6	4/17/2021	112.3571592	-27.00715924
OHWD TSS Shallow	RMW-ISW6	4/18/2021	112.1211419	-26.77114192
OHWD TSS Shallow	RMW-ISW6	4/19/2021	112.0235011	-26.67350105
OHWD TSS Shallow	RMW-ISW6	4/20/2021	112.695523	-27.34552301
OHWD TSS Shallow	RMW-ISW6	4/21/2021	112.5724397	-27.2224397
OHWD TSS Shallow	RMW-ISW6	4/22/2021	111.9632973	-26.61329726
OHWD TSS Shallow	RMW-ISW6	4/23/2021	112.5212319	-27.17123187
OHWD TSS Shallow	RMW-ISW6	4/24/2021	112.3486938	-26.9986938
OHWD TSS Shallow	RMW-ISW6	4/25/2021	111.7152853	-26.36528531
OHWD TSS Shallow	RMW-ISW6	4/26/2021	111.6765334	-26.32653344
OHWD TSS Shallow	RMW-ISW6	4/27/2021	111.9805972	-26.6305972
OHWD TSS Shallow	RMW-ISW6	4/28/2021	112.7394187	-27.38941872
OHWD TSS Shallow	RMW-ISW6	4/29/2021	113.1890326	-27.83903264
OHWD TSS Shallow	RMW-ISW6	4/30/2021	113.5446964	-28.19469635
OHWD TSS Shallow	RMW-ISW6	5/1/2021	113.8065713	-28.45657132
OHWD TSS Shallow	RMW-ISW6	5/2/2021	113.5293109	-28.17931094
OHWD TSS Shallow	RMW-ISW6	5/3/2021	113.2359501	-27.88595008
OHWD TSS Shallow	RMW-ISW6	5/4/2021	113.5338551	-28.18385506
OHWD TSS Shallow	RMW-ISW6	5/5/2021	113.5300029	-28.18000294
OHWD TSS Shallow	RMW-ISW6	5/6/2021	114.0854002	-28.73540023
OHWD TSS Shallow	RMW-ISW6	5/7/2021	114.6596199	-29.30961986
OHWD TSS Shallow	RMW-ISW6	5/8/2021	114.8807823	-29.5307823
OHWD TSS Shallow	RMW-ISW6	5/9/2021	114.9833825	-29.63338248
OHWD TSS Shallow	RMW-ISW6	5/10/2021	114.8811975	-29.53119749
OHWD TSS Shallow	RMW-ISW6	5/11/2021	114.5583806	-29.2083806
OHWD TSS Shallow	RMW-ISW6	5/12/2021	114.9387256	-29.58872556
OHWD TSS Shallow	RMW-ISW6	5/13/2021	115.0037964	-29.65379641
OHWD TSS Shallow	RMW-ISW6	5/14/2021	115.1278485	-29.77784851
OHWD TSS Shallow	RMW-ISW6	5/15/2021	114.8678419	-29.51784194
OHWD TSS Shallow	RMW-ISW6	5/16/2021	114.2047006	-28.85470062
OHWD TSS Shallow	RMW-ISW6	5/17/2021	113.7294136	-28.37941359
OHWD TSS Shallow	RMW-ISW6	5/18/2021	114.4176514	-29.06765135
OHWD TSS Shallow	RMW-ISW6	5/19/2021	114.263382	-28.91338202
OHWD TSS Shallow	RMW-ISW6	5/20/2021	114.6578207	-29.30782066
OHWD TSS Shallow	RMW-ISW6	5/21/2021	114.4495294	-29.09952938
OHWD TSS Shallow	RMW-ISW6	5/22/2021	114.4801157	-29.13011567
OHWD TSS Shallow	RMW-ISW6	5/23/2021	114.6461951	-29.2961951
OHWD TSS Shallow	RMW-ISW6	5/24/2021	114.475387	-29.12538702
OHWD TSS Shallow	RMW-ISW6	5/25/2021	115.1671078	-29.81710784
OHWD TSS Shallow	RMW-ISW6	5/26/2021	115.4368716	-30.08687158
OHWD TSS Shallow	RMW-ISW6	5/27/2021	115.342114	-29.99211404
OHWD TSS Shallow	RMW-ISW6	5/28/2021	115.0435632	-29.6935632
OHWD TSS Shallow	RMW-ISW6	5/29/2021	114.6625263	-29.31252625
OHWD TSS Shallow	RMW-ISW6	5/30/2021	114.4076866	-29.05768659
OHWD TSS Shallow	RMW-ISW6	5/31/2021	113.9464702	-28.59647017
OHWD TSS Shallow	RMW-ISW6	6/1/2021	114.6200376	-29.27003759
OHWD TSS Shallow	RMW-ISW6	6/2/2021	115.2875616	-29.93756156
OHWD TSS Shallow	RMW-ISW6	6/3/2021	115.6391886	-30.28918862
OHWD TSS Shallow	RMW-ISW6	6/4/2021	115.4859804	-30.13598035
OHWD TSS Shallow	RMW-ISW6	6/5/2021	115.0854983	-29.73549826
OHWD TSS Shallow	RMW-ISW6	6/6/2021	115.0895118	-29.73951184

OHWD TSS Shallow	RMW-ISW6	6/7/2021	115.1472475	-29.79724751
OHWD TSS Shallow	RMW-ISW6	6/8/2021	116.5392007	-31.18920073
OHWD TSS Shallow	RMW-ISW6	6/9/2021	116.3565134	-31.00651336
OHWD TSS Shallow	RMW-ISW6	6/10/2021	116.7996225	-31.4496225
OHWD TSS Shallow	RMW-ISW6	6/11/2021	116.4986035	-31.14860353
OHWD TSS Shallow	RMW-ISW6	6/12/2021	116.2621941	-30.91219408
OHWD TSS Shallow	RMW-ISW6	6/13/2021	115.6762566	-30.32625663
OHWD TSS Shallow	RMW-ISW6	6/14/2021	115.7978175	-30.44781754
OHWD TSS Shallow	RMW-ISW6	6/15/2021	116.9119107	-31.56191065
OHWD TSS Shallow	RMW-ISW6	6/16/2021	116.5208859	-31.17088586
OHWD TSS Shallow	RMW-ISW6	6/17/2021	115.8614813	-30.51148132
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OHWD TSS Shallow	RMW-ISW6	6/19/2021	115.6404804	-30.29048035
OHWD TSS Shallow	RMW-ISW6	6/20/2021	115.1392895	-29.78928954
OHWD TSS Shallow	RMW-ISW6	6/21/2021	115.4470901	-30.09709008
OHWD TSS Shallow	RMW-ISW6	6/22/2021	116.7578489	-31.40784891
OHWD TSS Shallow	RMW-ISW6	6/23/2021	117.3701284	-32.0201284
OHWD TSS Shallow	RMW-ISW6	6/24/2021	117.1640285	-31.81402845
OHWD TSS Shallow	RMW-ISW6	6/25/2021	117.7430229	-32.39302286
OHWD TSS Shallow	RMW-ISW6	6/26/2021	117.1998278	-31.84982779
OHWD TSS Shallow	RMW-ISW6	6/27/2021	116.6936546	-31.3436546
OHWD TSS Shallow	RMW-ISW6	6/28/2021	116.4292192	-31.07921924
OHWD TSS Shallow	RMW-ISW6	6/29/2021	117.1479972	-31.79799717
OHWD TSS Shallow	RMW-ISW6	6/30/2021	117.2164127	-31.86641267
OHWD TSS Shallow	RMW-ISW6	7/1/2021	117.1825509	-31.83255092
OHWD TSS Shallow	RMW-ISW6	7/2/2021	117.2541496	-31.9041496
OHWD TSS Shallow	RMW-ISW6	7/3/2021	116.7773171	-31.42731711
OHWD TSS Shallow	RMW-ISW6	7/4/2021	116.6721335	-31.32213347
OHWD TSS Shallow	RMW-ISW6	7/5/2021	116.4884312	-31.13843117
OHWD TSS Shallow	RMW-ISW6	7/6/2021	117.2716571	-31.92165714
OHWD TSS Shallow	RMW-ISW6	7/7/2021	117.2180273	-31.86802733
OHWD TSS Shallow	RMW-ISW6	7/8/2021	116.9874999	-31.63749985
OHWD TSS Shallow	RMW-ISW6	7/9/2021	117.6904772	-32.34047717
OHWD TSS Shallow	RMW-ISW6	7/10/2021	117.6405149	-32.29051494
OHWD TSS Shallow	RMW-ISW6	7/11/2021	117.0977812	-31.74778121
OHWD TSS Shallow	RMW-ISW6	7/12/2021	117.1831045	-31.83310451
OHWD TSS Shallow	RMW-ISW6	7/13/2021	118.4389879	-33.08898793
OHWD TSS Shallow	RMW-ISW6	7/14/2021	118.6632644	-33.31326436
OHWD TSS Shallow	RMW-ISW6	7/15/2021	117.9615788	-32.61157877
OHWD TSS Shallow	RMW-ISW6	7/16/2021	117.6630741	-32.31307406
OHWD TSS Shallow	RMW-ISW6	7/17/2021	117.5580058	-32.20800576
OHWD TSS Shallow	RMW-ISW6	7/18/2021	117.4454639	-32.09546388
OHWD TSS Shallow	RMW-ISW6	7/19/2021	117.6187632	-32.26876315
OHWD TSS Shallow	RMW-ISW6	7/20/2021	118.4822839	-33.13228391
OHWD TSS Shallow	RMW-ISW6	7/21/2021	118.2540631	-32.9040631
OHWD TSS Shallow	RMW-ISW6	7/22/2021	118.8097372	-33.45973719
OHWD TSS Shallow	RMW-ISW6	7/23/2021	119.1137548	-33.76375481
OHWD TSS Shallow	RMW-ISW6	7/24/2021	118.9004811	-33.55048114
OHWD TSS Shallow	RMW-ISW6	7/25/2021	118.5981474	-33.24814738
OHWD TSS Shallow	RMW-ISW6	7/26/2021	118.1926598	-32.84265984
OHWD TSS Shallow	RMW-ISW6	7/27/2021	118.7980886	-33.44808856
OHWD TSS Shallow	RMW-ISW6	7/28/2021	119.0615782	-33.71157819
OHWD TSS Shallow	RMW-ISW6	7/29/2021	118.7586678	-33.40866776
OHWD TSS Shallow	RMW-ISW6	7/30/2021	118.630579	-33.280579
OHWD TSS Shallow	RMW-ISW6	7/31/2021	118.5306084	-33.18060841
OHWD TSS Shallow	RMW-ISW6	8/1/2021	118.4141452	-33.06414521
OHWD TSS Shallow	RMW-ISW6	8/2/2021	118.117901	-32.76790103
OHWD TSS Shallow	RMW-ISW6	8/3/2021	118.6528613	-33.30286133
OHWD TSS Shallow	RMW-ISW6	8/4/2021	119.5780622	-34.22806215
OHWD TSS Shallow	RMW-ISW6	8/5/2021	118.9798994	-33.6298994
OHWD TSS Shallow	RMW-ISW6	8/6/2021	119.1781106	-33.82811059
OHWD TSS Shallow	RMW-ISW6	8/7/2021	119.1182989	-33.76829893
OHWD TSS Shallow	RMW-ISW6	8/8/2021	118.5944106	-33.2444106
OHWD TSS Shallow	RMW-ISW6	8/9/2021	118.6876688	-33.33766881
OHWD TSS Shallow	RMW-ISW6	8/10/2021	119.1396586	-33.78965859
OHWD TSS Shallow	RMW-ISW6	8/11/2021	119.0194817	-33.66948167
OHWD TSS Shallow	RMW-ISW6	8/12/2021	118.9625995	-33.61259946
OHWD TSS Shallow	RMW-ISW6	8/13/2021	119.1236734	-33.77367344
OHWD TSS Shallow	RMW-ISW6	8/14/2021	119.5396563	-34.18965628
OHWD TSS Shallow	RMW-ISW6	8/15/2021	119.0645307	-33.71453071
OHWD TSS Shallow	RMW-ISW6	8/16/2021	118.8454673	-33.49546733
OHWD TSS Shallow	RMW-ISW6	8/17/2021	119.1507306	-33.80073055
OHWD TSS Shallow	RMW-ISW6	8/18/2021	119.5170741	-34.16707409
OHWD TSS Shallow	RMW-ISW6	8/19/2021	119.5144906	-34.16449063
OHWD TSS Shallow	RMW-ISW6	8/20/2021	119.3003866	-33.95038657
OHWD TSS Shallow	RMW-ISW6	8/21/2021	119.358399	-34.00839904
OHWD TSS Shallow	RMW-ISW6	8/22/2021	119.0751875	-33.72518748
OHWD TSS Shallow	RMW-ISW6	8/23/2021	118.6049751	-33.25497509
OHWD TSS Shallow	RMW-ISW6	8/24/2021	119.2018461	-33.85184611

OHWD TSS Shallow	RMW-ISW6	8/25/2021	119.5344432	-34.18444323
OHWD TSS Shallow	RMW-ISW6	8/26/2021	119.0314071	-33.68140709
OHWD TSS Shallow	RMW-ISW6	8/27/2021	118.9826905	-33.63269046
OHWD TSS Shallow	RMW-ISW6	8/28/2021	118.8127128	-33.46271278
OHWD TSS Shallow	RMW-ISW6	8/29/2021	118.6520079	-33.30200786
OHWD TSS Shallow	RMW-ISW6	8/30/2021	118.4418251	-33.09182512
OHWD TSS Shallow	RMW-ISW6	8/31/2021	119.1079882	-33.75798816
OHWD TSS Shallow	RMW-ISW6	9/1/2021	120.0198796	-34.66987956
OHWD TSS Shallow	RMW-ISW6	9/2/2021	119.9499417	-34.59994167
OHWD TSS Shallow	RMW-ISW6	9/3/2021	119.5600933	-34.21009328
OHWD TSS Shallow	RMW-ISW6	9/4/2021	119.4905245	-34.14052445
OHWD TSS Shallow	RMW-ISW6	9/5/2021	118.934389	-33.58438903
OHWD TSS Shallow	RMW-ISW6	9/6/2021	118.8118593	-33.46185931
OHWD TSS Shallow	RMW-ISW6	9/7/2021	119.3296811	-33.97968113
OHWD TSS Shallow	RMW-ISW6	9/8/2021	119.2452344	-33.89523436
OHWD TSS Shallow	RMW-ISW6	9/9/2021	119.5482832	-34.19828318
OHWD TSS Shallow	RMW-ISW6	9/10/2021	119.4948379	-34.1448379
OHWD TSS Shallow	RMW-ISW6	9/11/2021	119.8722303	-34.52223034
OHWD TSS Shallow	RMW-ISW6	9/12/2021	119.3741535	-34.02415351
OHWD TSS Shallow	RMW-ISW6	9/13/2021	118.8961908	-33.54619076
OHWD TSS Shallow	RMW-ISW6	9/14/2021	118.9853662	-33.63536618
OHWD TSS Shallow	RMW-ISW6	9/15/2021	119.0345442	-33.68454415
OHWD TSS Shallow	RMW-ISW6	9/16/2021	119.552712	-34.20271197
OHWD TSS Shallow	RMW-ISW6	9/17/2021	119.1116788	-33.76167882
OHWD TSS Shallow	RMW-ISW6	9/18/2021	118.9741558	-33.62415582
OHWD TSS Shallow	RMW-ISW6	9/19/2021	118.7700857	-33.42008572
OHWD TSS Shallow	RMW-ISW6	9/20/2021	118.4379038	-33.0879038
OHWD TSS Shallow	RMW-ISW6	9/21/2021	118.7074599	-33.35745994
OHWD TSS Shallow	RMW-ISW6	9/22/2021	119.1032826	-33.75328258
OHWD TSS Shallow	RMW-ISW6	9/23/2021	119.0070026	-33.65700264
OHWD TSS Shallow	RMW-ISW6	9/24/2021	118.9650215	-33.61502145
OHWD TSS Shallow	RMW-ISW6	9/25/2021	118.9645601	-33.61456012
OHWD TSS Shallow	RMW-ISW6	9/26/2021	118.4141222	-33.06412215
OHWD TSS Shallow	RMW-ISW6	9/27/2021	118.3098612	-32.95986117
OHWD TSS Shallow	RMW-ISW6	9/28/2021	119.1097643	-33.75976429
OHWD TSS Shallow	RMW-ISW6	9/29/2021	118.909085	-33.55908498
OHWD TSS Shallow	RMW-ISW6	9/30/2021	119.0352823	-33.68528228
OHWD TSS Shallow	RMW-ISW6	10/1/2021	119.295681	-33.94568098
OHWD TSS Shallow	RMW-ISW6	10/2/2021	118.9637759	-33.61377586
OHWD TSS Shallow	RMW-ISW6	10/3/2021	118.7042537	-33.35425368
OHWD TSS Shallow	RMW-ISW6	10/4/2021	118.4495986	-33.09959856
OHWD TSS Shallow	RMW-ISW6	10/5/2021	119.1128783	-33.76287828
OHWD TSS Shallow	RMW-ISW6	10/6/2021	118.8792599	-33.52925988
OHWD TSS Shallow	RMW-ISW6	10/7/2021	118.7897154	-33.43971539
OHWD TSS Shallow	RMW-ISW6	10/8/2021	118.4415714	-33.09157139
OHWD TSS Shallow	RMW-ISW6	10/9/2021	118.5280019	-33.17800189
OHWD TSS Shallow	RMW-ISW6	10/10/2021	118.215934	-32.86593403
OHWD TSS Shallow	RMW-ISW6	10/11/2021	118.0519075	-32.70190753
OHWD TSS Shallow	RMW-ISW6	10/12/2021	118.7171248	-33.36712484
OHWD TSS Shallow	RMW-ISW6	10/13/2021	118.926408	-33.57640799
OHWD TSS Shallow	RMW-ISW6	10/14/2021	119.2841246	-33.93412462
OHWD TSS Shallow	RMW-ISW6	10/15/2021	119.866925	-34.51692502
OHWD TSS Shallow	RMW-ISW6	10/16/2021	119.3566921	-34.00669211
OHWD TSS Shallow	RMW-ISW6	10/17/2021	118.3356496	-32.98564962
OHWD TSS Shallow	RMW-ISW6	10/18/2021	118.1530084	-32.80300838
OHWD TSS Shallow	RMW-ISW6	10/19/2021	118.6224365	-33.2724365
OHWD TSS Shallow	RMW-ISW6	10/20/2021	118.8519721	-33.50197211
OHWD TSS Shallow	RMW-ISW6	10/21/2021	118.791653	-33.44165298
OHWD TSS Shallow	RMW-ISW6	10/22/2021	118.0359916	-32.68599158
OHWD TSS Shallow	RMW-ISW6	10/23/2021	117.6678258	-32.31782578
OHWD TSS Shallow	RMW-ISW6	10/24/2021	117.2007043	-31.85070432
OHWD TSS Shallow	RMW-ISW6	10/25/2021	116.9254277	-31.57542767
OHWD TSS Shallow	RMW-ISW6	10/26/2021	117.3141458	-31.9641458
OHWD TSS Shallow	RMW-ISW6	10/27/2021	117.4090187	-32.05901867
OHWD TSS Shallow	RMW-ISW6	10/28/2021	117.1830123	-31.83301225
OHWD TSS Shallow	RMW-ISW6	10/29/2021	116.8457557	-31.49575567
OHWD TSS Shallow	RMW-ISW6	10/30/2021	116.665029	-31.31502896
OHWD TSS Shallow	RMW-ISW6	10/31/2021	116.6357344	-31.2857344
OHWD TSS Shallow	RMW-ISW6	11/1/2021	116.6095308	-31.25953075
OHWD TSS Shallow	RMW-ISW6	11/2/2021	116.6836206	-31.33362063
OHWD TSS Shallow	RMW-ISW6	11/3/2021	116.5750923	-31.22509234
OHWD TSS Shallow	RMW-ISW6	11/4/2021	116.4563225	-31.10632248
OHWD TSS Shallow	RMW-ISW6	11/5/2021	116.3334006	-30.98340063
OHWD TSS Shallow	RMW-ISW6	11/6/2021	116.2774411	-30.92744109
OHWD TSS Shallow	RMW-ISW6	11/7/2021	116.2527829	-30.90278291
OHWD TSS Shallow	RMW-ISW6	11/8/2021	116.1484527	-30.79845274
OHWD TSS Shallow	RMW-ISW6	11/9/2021	116.0724483	-30.72244833
OHWD TSS Shallow	RMW-ISW6	11/10/2021	116.1711272	-30.82112719
OHWD TSS Shallow	RMW-ISW6	11/11/2021	116.1075557	-30.75755568

OHWD TSS Shallow	RMW-ISW6	11/12/2021	115.990216	-30.64021595
OHWD TSS Shallow	RMW-ISW6	11/13/2021	115.8893919	-30.53939189
OHWD TSS Shallow	RMW-ISW6	11/14/2021	115.8236752	-30.47367519
OHWD TSS Shallow	RMW-ISW6	11/15/2021	115.7305784	-30.38057844
OHWD TSS Shallow	RMW-ISW6	11/16/2021	115.6776868	-30.32768676
OHWD TSS Shallow	RMW-ISW6	11/17/2021	115.6327992	-30.28279918
OHWD TSS Shallow	RMW-ISW6	11/18/2021	115.5957773	-30.2457773
OHWD TSS Shallow	RMW-ISW6	11/19/2021	115.5983377	-30.24833769
OHWD TSS Shallow	RMW-ISW6	11/20/2021	115.6016593	-30.25165928
OHWD TSS Shallow	RMW-ISW6	11/21/2021	115.5712114	-30.22121139
OHWD TSS Shallow	RMW-ISW6	11/22/2021	115.4801445	-30.1301445
OHWD TSS Shallow	RMW-ISW6	11/23/2021	115.3341099	-29.98410994
OHWD TSS Shallow	RMW-ISW6	11/24/2021	115.3664493	-30.01644929
OHWD TSS Shallow	RMW-ISW6	11/25/2021	115.501458	-30.15145803
OHWD TSS Shallow	RMW-ISW6	11/26/2021	115.362205	-30.01220504
OHWD TSS Shallow	RMW-ISW6	11/27/2021	115.2041759	-29.85417585
OHWD TSS Shallow	RMW-ISW6	11/28/2021	115.2054907	-29.85549065
OHWD TSS Shallow	RMW-ISW6	11/29/2021	115.1499463	-29.7999463
OHWD TSS Shallow	RMW-ISW6	11/30/2021	115.0961089	-29.74610889
OHWD TSS Shallow	RMW-ISW6	12/1/2021	115.0371507	-29.68715069
OHWD TSS Shallow	RMW-ISW6	12/2/2021	114.9898411	-29.63984112
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OHWD TSS Shallow	RMW-ISW6	12/4/2021	114.9710649	-29.62106492
OHWD TSS Shallow	RMW-ISW6	12/5/2021	115.0051573	-29.65515733
OHWD TSS Shallow	RMW-ISW6	12/6/2021	114.881382	-29.53138203
OHWD TSS Shallow	RMW-ISW6	12/7/2021	114.7080597	-29.35805969
OHWD TSS Shallow	RMW-ISW6	12/8/2021	114.7284044	-29.37840442
OHWD TSS Shallow	RMW-ISW6	12/9/2021	114.5918964	-29.24189635
OHWD TSS Shallow	RMW-ISW6	12/10/2021	114.7454968	-29.39549676
OHWD TSS Shallow	RMW-ISW6	12/11/2021	114.7849406	-29.43494062
OHWD TSS Shallow	RMW-ISW6	12/12/2021	114.5590957	-29.20909567
OHWD TSS Shallow	RMW-ISW6	12/13/2021	114.307716	-28.957716
OHWD TSS Shallow	RMW-ISW6	12/14/2021	114.2509261	-28.90092606
OHWD TSS Shallow	RMW-ISW6	12/15/2021	114.584146	-29.23414598
OHWD TSS Shallow	RMW-ISW6	12/16/2021	114.5081185	-29.15811851
OHWD TSS Shallow	RMW-ISW6	12/17/2021	114.6078354	-29.25783537
OHWD TSS Shallow	RMW-ISW6	12/18/2021	114.6171312	-29.2671312
OHWD TSS Shallow	RMW-ISW6	12/19/2021	114.4128996	-29.06289964
OHWD TSS Shallow	RMW-ISW6	12/20/2021	114.3776078	-29.02760776
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OHWD TSS Shallow	RMW-ISW6	12/22/2021	114.2230616	-28.87306162
OHWD TSS Shallow	RMW-ISW6	12/23/2021	113.8536733	-28.50367329
OHWD TSS Shallow	RMW-ISW6	12/24/2021	113.79227	-28.44227004
OHWD TSS Shallow	RMW-ISW6	12/25/2021	113.959918	-28.60991799
OHWD TSS Shallow	RMW-ISW6	12/26/2021	114.0728751	-28.72287507
OHWD TSS Shallow	RMW-ISW6	12/27/2021	113.9770334	-28.6270334
OHWD TSS Shallow	RMW-ISW6	12/28/2021	113.9458243	-28.59582431
OHWD TSS Shallow	RMW-ISW6	12/29/2021	113.801266	-28.45126601
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OHWD TSS Shallow	RMW-ISW6	1/2/2022	114.191668	-28.841668
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OHWD TSS Shallow	RMW-ISW6	1/4/2022	114.0310554	-28.68105535
OHWD TSS Shallow	RMW-ISW6	1/5/2022	113.9854758	-28.63547577
OHWD TSS Shallow	RMW-ISW6	1/6/2022	113.8015659	-28.45156587
OHWD TSS Shallow	RMW-ISW6	1/7/2022	113.6086139	-28.25861387
OHWD TSS Shallow	RMW-ISW6	1/8/2022	113.6769371	-28.3269371
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OHWD TSS Shallow	RMW-ISW6	1/14/2022	113.5054832	-28.15548316
OHWD TSS Shallow	RMW-ISW6	1/15/2022	113.4958875	-28.14588746
OHWD TSS Shallow	RMW-ISW6	1/16/2022	113.3932181	-28.04321808
OHWD TSS Shallow	RMW-ISW6	1/17/2022	113.3037428	-27.95374278
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OHWD TSS Shallow	RMW-ISW6	1/20/2022	113.4469402	-28.09694016
OHWD TSS Shallow	RMW-ISW6	1/21/2022	113.3037889	-27.95378892
OHWD TSS Shallow	RMW-ISW6	1/22/2022	113.1927002	-27.84270023
OHWD TSS Shallow	RMW-ISW6	1/23/2022	113.2676436	-27.91764357
OHWD TSS Shallow	RMW-ISW6	1/24/2022	113.1899553	-27.83995531
OHWD TSS Shallow	RMW-ISW6	1/25/2022	113.0469886	-27.6969886
OHWD TSS Shallow	RMW-ISW6	1/26/2022	113.0892697	-27.73926965
OHWD TSS Shallow	RMW-ISW6	1/27/2022	113.1437991	-27.79379907
OHWD TSS Shallow	RMW-ISW6	1/28/2022	113.2029879	-27.85298793
OHWD TSS Shallow	RMW-ISW6	1/29/2022	113.1013796	-27.75137961

OHWD TSS Shallow	RMW-ISW6	1/30/2022	113.0707011	-27.72070105
OHWD TSS Shallow	RMW-ISW6	1/31/2022	113.0395381	-27.68953809
OHWD TSS Shallow	RMW-ISW6	2/1/2022	112.8669539	-27.51695388
OHWD TSS Shallow	RMW-ISW6	2/2/2022	113.1193716	-27.76937155
OHWD TSS Shallow	RMW-ISW6	2/3/2022	113.2571713	-27.90717134
OHWD TSS Shallow	RMW-ISW6	2/4/2022	113.2578864	-27.90788641
OHWD TSS Shallow	RMW-ISW6	2/5/2022	113.0800661	-27.73006609
OHWD TSS Shallow	RMW-ISW6	2/6/2022	112.9701307	-27.62013073
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OHWD TSS Shallow	RMW-ISW6	2/8/2022	113.1687341	-27.81873405
OHWD TSS Shallow	RMW-ISW6	2/9/2022	113.1306742	-27.78067418
OHWD TSS Shallow	RMW-ISW6	2/10/2022	112.9784578	-27.62845777
OHWD TSS Shallow	RMW-ISW6	2/11/2022	112.9729679	-27.62296792
OHWD TSS Shallow	RMW-ISW6	2/12/2022	112.8949567	-27.54495672
OHWD TSS Shallow	RMW-ISW6	2/13/2022	113.0472654	-27.6972654
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OHWD TSS Shallow	RMW-ISW6	2/15/2022	113.5588592	-28.20885924
OHWD TSS Shallow	RMW-ISW6	2/16/2022	113.2631225	-27.91312252
OHWD TSS Shallow	RMW-ISW6	2/17/2022	113.4992782	-28.14927824
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OHWD TSS Shallow	RMW-ISW6	2/19/2022	113.5668403	-28.21684028
OHWD TSS Shallow	RMW-ISW6	2/20/2022	113.1398547	-27.78985468
OHWD TSS Shallow	RMW-ISW6	2/21/2022	113.0005325	-27.65053249
OHWD TSS Shallow	RMW-ISW6	2/22/2022	113.1668195	-27.81681952
OHWD TSS Shallow	RMW-ISW6	2/23/2022	113.5894225	-28.23942247
OHWD TSS Shallow	RMW-ISW6	2/24/2022	114.0546986	-28.7046986
OHWD TSS Shallow	RMW-ISW6	2/25/2022	114.4001438	-29.05014381
OHWD TSS Shallow	RMW-ISW6	2/26/2022	113.8337207	-28.48372069
OHWD TSS Shallow	RMW-ISW6	2/27/2022	113.5688701	-28.21887014
OHWD TSS Shallow	RMW-ISW6	2/28/2022	113.400461	-28.05046098
OHWD TSS Shallow	RMW-ISW6	3/1/2022	113.6056844	-28.25568441
OHWD TSS Shallow	RMW-ISW6	3/2/2022	113.2604929	-27.91049293
OHWD TSS Shallow	RMW-ISW6	3/3/2022	113.4196755	-28.06967545
OHWD TSS Shallow	RMW-ISW6	3/4/2022	113.4858535	-28.13585349
OHWD TSS Shallow	RMW-ISW6	3/5/2022	113.6060996	-28.25609961
OHWD TSS Shallow	RMW-ISW6	3/6/2022	113.5106731	-28.16067314
OHWD TSS Shallow	RMW-ISW6	3/7/2022	113.3640388	-28.01403884
OHWD TSS Shallow	RMW-ISW6	3/8/2022	113.6729005	-28.32290045
OHWD TSS Shallow	RMW-ISW6	3/9/2022	113.4692456	-28.11924555
OHWD TSS Shallow	RMW-ISW6	3/10/2022	113.5661714	-28.21617135
OHWD TSS Shallow	RMW-ISW6	3/11/2022	113.9454091	-28.59540911
OHWD TSS Shallow	RMW-ISW6	3/12/2022	113.801958	-28.451958
OHWD TSS Shallow	RMW-ISW6	3/13/2022	113.80611	-28.45610999
OHWD TSS Shallow	RMW-ISW6	3/14/2022	113.4498466	-28.09984655
OHWD TSS Shallow	RMW-ISW6	3/15/2022	113.7907476	-28.44074764
OHWD TSS Shallow	RMW-ISW6	3/16/2022	113.5564834	-28.20648338
OHWD TSS Shallow	RMW-ISW6	3/17/2022	113.2863506	-27.93635058
OHWD TSS Shallow	RMW-ISW6	3/18/2022	113.5110422	-28.1610422
OHWD TSS Shallow	RMW-ISW6	3/19/2022	113.1211015	-27.77110154
OHWD TSS Shallow	RMW-ISW6	3/20/2022	113.1341342	-27.78413417
OHWD TSS Shallow	RMW-ISW6	3/21/2022	113.2760859	-27.92608594
OHWD TSS Shallow	RMW-ISW6	3/22/2022	114.0330391	-28.68303908
OHWD TSS Shallow	RMW-ISW6	3/23/2022	114.0138707	-28.66387074
OHWD TSS Shallow	RMW-ISW6	3/24/2022	114.3679429	-29.01794286
OHWD TSS Shallow	RMW-ISW6	3/25/2022	114.8864336	-29.53643361
OHWD TSS Shallow	RMW-ISW6	3/26/2022	114.8254225	-29.47542249
OHWD TSS Shallow	RMW-ISW6	3/27/2022	113.9958327	-28.64583267
OHWD TSS Shallow	RMW-ISW6	3/28/2022	113.7784993	-28.42849928
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OHWD TSS Shallow	RMW-ISW6	3/30/2022	113.7115601	-28.36156005
OHWD TSS Shallow	RMW-ISW6	3/31/2022	113.6475272	-28.2975272
OHWD TSS Shallow	RMW-ISW6	4/1/2022	113.5277655	-28.17776548
OHWD TSS Shallow	RMW-ISW6	4/2/2022	113.6234457	-28.27344568
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OHWD TSS Shallow	RMW-ISW6	4/8/2022	115.2781273	-29.92812733
OHWD TSS Shallow	RMW-ISW6	4/9/2022	114.8417767	-29.4917767
OHWD TSS Shallow	RMW-ISW6	4/10/2022	114.2867946	-28.9367946
OHWD TSS Shallow	RMW-ISW6	4/11/2022	113.9177292	-28.56772921
OHWD TSS Shallow	RMW-ISW6	4/12/2022	114.2038241	-28.85382409
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OHWD TSS Shallow	RMW-ISW6	4/16/2022	114.7461888	-29.39618876
OHWD TSS Shallow	RMW-ISW6	4/17/2022	114.7900383	-29.44003834
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OHWD TSS Shallow	RMW-ISW6	4/22/2022	114.0426117	-28.69261171
OHWD TSS Shallow	RMW-ISW6	4/23/2022	113.8830371	-28.53303706
OHWD TSS Shallow	RMW-ISW6	4/24/2022	113.712229	-28.36222898
OHWD TSS Shallow	RMW-ISW6	4/25/2022	113.5421129	-28.1921129
OHWD TSS Shallow	RMW-ISW6	4/26/2022	114.0037676	-28.65376758
OHWD TSS Shallow	RMW-ISW6	4/27/2022	114.3103225	-28.96032252
OHWD TSS Shallow	RMW-ISW6	4/28/2022	114.4053569	-29.05535686
OHWD TSS Shallow	RMW-ISW6	4/29/2022	115.0293081	-29.67930805
OHWD TSS Shallow	RMW-ISW6	4/30/2022	114.2148961	-28.86489605
OHWD TSS Shallow	RMW-ISW6	5/1/2022	113.8314602	-28.48146017
OHWD TSS Shallow	RMW-ISW6	5/2/2022	113.7287908	-28.37879079
OHWD TSS Shallow	RMW-ISW6	5/3/2022	114.6705073	-29.32050728
OHWD TSS Shallow	RMW-ISW6	5/4/2022	115.3321031	-29.98210314
OHWD TSS Shallow	RMW-ISW6	5/5/2022	115.5723186	-30.22231858
OHWD TSS Shallow	RMW-ISW6	5/6/2022	115.6750341	-30.3250341
OHWD TSS Shallow	RMW-ISW6	5/7/2022	115.788268	-30.43826798
OHWD TSS Shallow	RMW-ISW6	5/8/2022	114.9443077	-29.59430768
OHWD TSS Shallow	RMW-ISW6	5/9/2022	115.0503679	-29.70036785
OHWD TSS Shallow	RMW-ISW6	5/10/2022	115.5986606	-30.24866063
OHWD TSS Shallow	RMW-ISW6	5/11/2022	115.6243799	-30.27437987
OHWD TSS Shallow	RMW-ISW6	5/12/2022	115.7574741	-30.40747408
OHWD TSS Shallow	RMW-ISW6	5/13/2022	115.8686089	-30.5186089
OHWD TSS Shallow	RMW-ISW6	5/14/2022	116.1543347	-30.80433472
OHWD TSS Shallow	RMW-ISW6	5/15/2022	115.5330131	-30.18301312
OHWD TSS Shallow	RMW-ISW6	5/16/2022	115.6465007	-30.29650073
OHWD TSS Shallow	RMW-ISW6	5/17/2022	115.6355902	-30.28559023
OHWD TSS Shallow	RMW-ISW6	5/18/2022	115.9796284	-30.62962838
OHWD TSS Shallow	RMW-ISW6	5/19/2022	116.2952716	-30.94527157
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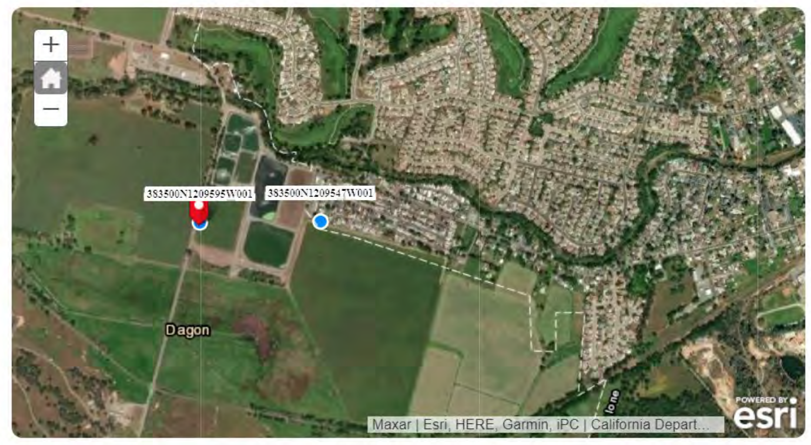
OHWD TSS Shallow	RMW-ISW6	5/21/2022	116.7600864	-31.41008637
OHWD TSS Shallow	RMW-ISW6	5/22/2022	117.1268451	-31.77684511
OHWD TSS Shallow	RMW-ISW6	5/23/2022	117.3051729	-31.95517289
OHWD TSS Shallow	RMW-ISW6	5/24/2022	117.4615644	-32.11156436
OHWD TSS Shallow	RMW-ISW6	5/25/2022	117.2809299	-31.93092991
OHWD TSS Shallow	RMW-ISW6	5/26/2022	117.7461368	-32.39613684
OHWD TSS Shallow	RMW-ISW6	5/27/2022	117.7054474	-32.35544738
OHWD TSS Shallow	RMW-ISW6	5/28/2022	117.7642441	-32.41424412
OHWD TSS Shallow	RMW-ISW6	5/29/2022	116.8826392	-31.53263915
OHWD TSS Shallow	RMW-ISW6	5/30/2022	116.9156244	-31.56562437
OHWD TSS Shallow	RMW-ISW6	5/31/2022	117.615257	-32.26525703
OHWD TSS Shallow	RMW-ISW6	6/1/2022	118.5749193	-33.22491933
OHWD TSS Shallow	RMW-ISW6	6/2/2022	118.7370082	-33.38700824
OHWD TSS Shallow	RMW-ISW6	6/3/2022	118.238078	-32.88807795
OHWD TSS Shallow	RMW-ISW6	6/4/2022	118.2601065	-32.91010654
OHWD TSS Shallow	RMW-ISW6	6/5/2022	117.6148188	-32.26481876
OHWD TSS Shallow	RMW-ISW6	6/6/2022	117.3946713	-32.04467125
OHWD TSS Shallow	RMW-ISW6	6/7/2022	118.7893694	-33.43936939
OHWD TSS Shallow	RMW-ISW6	6/8/2022	119.1507998	-33.80079975
OHWD TSS Shallow	RMW-ISW6	6/9/2022	119.1515379	-33.80153788
OHWD TSS Shallow	RMW-ISW6	6/10/2022	119.3706935	-34.02069353
OHWD TSS Shallow	RMW-ISW6	6/11/2022	119.1829084	-33.83290844
OHWD TSS Shallow	RMW-ISW6	6/12/2022	118.23704	-32.88703996
OHWD TSS Shallow	RMW-ISW6	6/13/2022	118.1148101	-32.76481011
OHWD TSS Shallow	RMW-ISW6	6/14/2022	119.1457943	-33.7957943
OHWD TSS Shallow	RMW-ISW6	6/15/2022	119.4618296	-34.11182961
OHWD TSS Shallow	RMW-ISW6	6/16/2022	119.2386373	-33.88863731
OHWD TSS Shallow	RMW-ISW6	6/17/2022	119.246826	-33.89682595
OHWD TSS Shallow	RMW-ISW6	6/18/2022	118.8668731	-33.51687313
OHWD TSS Shallow	RMW-ISW6	6/19/2022	118.568553	-33.21855295
OHWD TSS Shallow	RMW-ISW6	6/20/2022	118.0266035	-32.67660348
OHWD TSS Shallow	RMW-ISW6	6/21/2022	119.067391	-33.71739097
OHWD TSS Shallow	RMW-ISW6	6/22/2022	119.6553352	-34.30533521
OHWD TSS Shallow	RMW-ISW6	6/23/2022	119.7567359	-34.40673593
OHWD TSS Shallow	RMW-ISW6	6/24/2022	120.32971	-34.97970996
OHWD TSS Shallow	RMW-ISW6	6/25/2022	119.9814276	-34.63142756
OHWD TSS Shallow	RMW-ISW6	6/26/2022	119.0293772	-33.67937723
OHWD TSS Shallow	RMW-ISW6	6/27/2022	119.244404	-33.89440396
OHWD TSS Shallow	RMW-ISW6	6/28/2022	120.1247403	-34.77474027
OHWD TSS Shallow	RMW-ISW6	6/29/2022	119.9751073	-34.62510732
OHWD TSS Shallow	RMW-ISW6	6/30/2022	120.07374	-34.72374004
OHWD TSS Shallow	RMW-ISW6	7/1/2022	120.1955547	-34.84555469
OHWD TSS Shallow	RMW-ISW6	7/2/2022	119.7466789	-34.3966789
OHWD TSS Shallow	RMW-ISW6	7/3/2022	119.4024793	-34.05247928
OHWD TSS Shallow	RMW-ISW6	7/4/2022	119.360129	-34.01012903
OHWD TSS Shallow	RMW-ISW6	7/5/2022	119.8808342	-34.53083417
OHWD TSS Shallow	RMW-ISW6	7/6/2022	120.2386661	-34.88866614

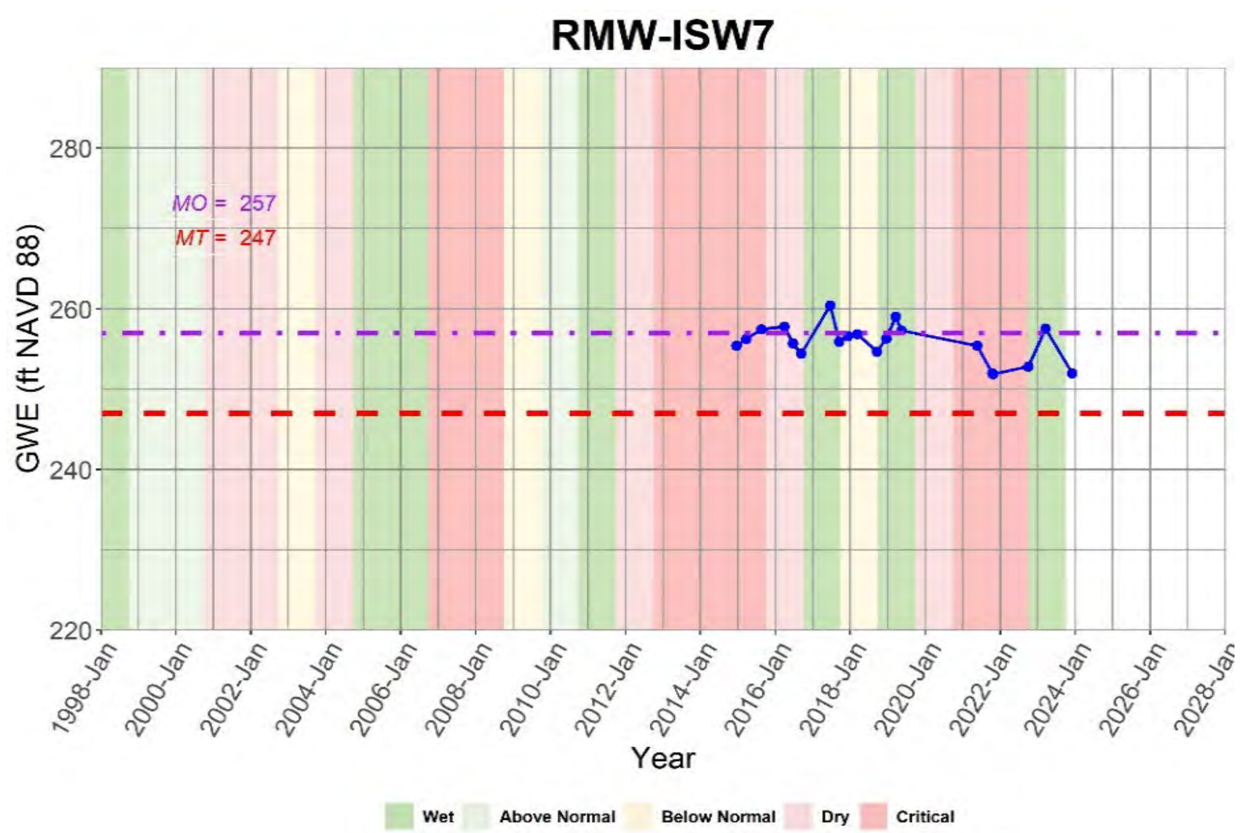
OHWD TSS Shallow	RMW-ISW6	7/7/2022	120.3001155	-34.95011553
OHWD TSS Shallow	RMW-ISW6	7/8/2022	120.5317963	-35.18179633
OHWD TSS Shallow	RMW-ISW6	7/9/2022	120.4877392	-35.13773915
OHWD TSS Shallow	RMW-ISW6	7/10/2022	119.9398846	-34.58988464
OHWD TSS Shallow	RMW-ISW6	7/11/2022	119.7178226	-34.3678226
OHWD TSS Shallow	RMW-ISW6	7/12/2022	120.7014742	-35.35147415
OHWD TSS Shallow	RMW-ISW6	7/13/2022	120.5945605	-35.24456052
OHWD TSS Shallow	RMW-ISW6	7/14/2022	120.487001	-35.13700102
OHWD TSS Shallow	RMW-ISW6	7/15/2022	120.8599185	-35.50991854
OHWD TSS Shallow	RMW-ISW6	7/16/2022	120.5057772	-35.15577722
OHWD TSS Shallow	RMW-ISW6	7/17/2022	120.0616762	-34.71167622
OHWD TSS Shallow	RMW-ISW6	7/18/2022	119.8459575	-34.49595749
OHWD TSS Shallow	RMW-ISW6	7/19/2022	120.9291414	-35.57914137
OHWD TSS Shallow	RMW-ISW6	7/20/2022	121.4675386	-36.11753858
OHWD TSS Shallow	RMW-ISW6	7/21/2022	121.7030484	-36.35304844
OHWD TSS Shallow	RMW-ISW6	7/22/2022	121.9506452	-36.60064519
OHWD TSS Shallow	RMW-ISW6	7/23/2022	120.8912199	-35.5412199
OHWD TSS Shallow	RMW-ISW6	7/24/2022	120.5847342	-35.23473415
OHWD TSS Shallow	RMW-ISW6	7/25/2022	120.8810937	-35.53109367
OHWD TSS Shallow	RMW-ISW6	7/26/2022	121.9286166	-36.5786166
OHWD TSS Shallow	RMW-ISW6	7/27/2022	121.841448	-36.49144797
OHWD TSS Shallow	RMW-ISW6	7/28/2022	121.0137265	-35.66372654
OHWD TSS Shallow	RMW-ISW6	7/29/2022	121.5007545	-36.15075447
OHWD TSS Shallow	RMW-ISW6	7/30/2022	120.8803555	-35.53035554
OHWD TSS Shallow	RMW-ISW6	7/31/2022	120.720481	-35.37048102
OHWD TSS Shallow	RMW-ISW6	8/1/2022	120.8905971	-35.5405971
OHWD TSS Shallow	RMW-ISW6	8/2/2022	121.9815544	-36.63155442
OHWD TSS Shallow	RMW-ISW6	8/3/2022	121.373473	-36.02347304
OHWD TSS Shallow	RMW-ISW6	8/4/2022	121.0572993	-35.70729933
OHWD TSS Shallow	RMW-ISW6	8/5/2022	121.55014	-36.20014003
OHWD TSS Shallow	RMW-ISW6	8/6/2022	121.3212272	-35.97122722
OHWD TSS Shallow	RMW-ISW6	8/7/2022	121.3042272	-35.95422715
OHWD TSS Shallow	RMW-ISW6	8/8/2022	121.3387348	-35.98873476
OHWD TSS Shallow	RMW-ISW6	8/9/2022	122.2993889	-36.94938892
OHWD TSS Shallow	RMW-ISW6	8/10/2022	122.0232819	-36.67328187
OHWD TSS Shallow	RMW-ISW6	8/11/2022	121.6912384	-36.34123835
OHWD TSS Shallow	RMW-ISW6	8/12/2022	121.4625562	-36.1125562
OHWD TSS Shallow	RMW-ISW6	8/13/2022	121.2841592	-35.93415921
OHWD TSS Shallow	RMW-ISW6	8/14/2022	120.9306868	-35.58068683
OHWD TSS Shallow	RMW-ISW6	8/15/2022	121.0150644	-35.66506441
OHWD TSS Shallow	RMW-ISW6	8/16/2022	121.9201742	-36.57017423
OHWD TSS Shallow	RMW-ISW6	8/17/2022	122.3332045	-36.98320454
OHWD TSS Shallow	RMW-ISW6	8/18/2022	122.1893844	-36.83938437
OHWD TSS Shallow	RMW-ISW6	8/19/2022	121.902759	-36.55275896
OHWD TSS Shallow	RMW-ISW6	8/20/2022	122.6713146	-37.32131458
OHWD TSS Shallow	RMW-ISW6	8/21/2022	122.3276455	-36.97764549
OHWD TSS Shallow	RMW-ISW6	8/22/2022	122.1259513	-36.77595125
OHWD TSS Shallow	RMW-ISW6	8/23/2022	122.6475099	-37.29750986
OHWD TSS Shallow	RMW-ISW6	8/24/2022	122.6889375	-37.33893745
OHWD TSS Shallow	RMW-ISW6	8/25/2022	121.8686204	-36.51862041
OHWD TSS Shallow	RMW-ISW6	8/26/2022	122.5740428	-37.22404278
OHWD TSS Shallow	RMW-ISW6	8/27/2022	122.3310132	-36.98101322
OHWD TSS Shallow	RMW-ISW6	8/28/2022	121.8724495	-36.52244946
OHWD TSS Shallow	RMW-ISW6	8/29/2022	121.8376651	-36.48766505
OHWD TSS Shallow	RMW-ISW6	8/30/2022	122.425171	-37.07517103
OHWD TSS Shallow	RMW-ISW6	8/31/2022	122.8710251	-37.52102509
OHWD TSS Shallow	RMW-ISW6	9/1/2022	123.2615194	-37.91151935
OHWD TSS Shallow	RMW-ISW6	9/2/2022	123.3046077	-37.95460774
OHWD TSS Shallow	RMW-ISW6	9/3/2022	123.0847832	-37.73478316
OHWD TSS Shallow	RMW-ISW6	9/4/2022	122.2017481	-36.85174806
OHWD TSS Shallow	RMW-ISW6	9/5/2022	121.9528135	-36.60281345
OHWD TSS Shallow	RMW-ISW6	9/6/2022	122.8981975	-37.54819753
OHWD TSS Shallow	RMW-ISW6	9/7/2022	123.3509254	-38.00092544
OHWD TSS Shallow	RMW-ISW6	9/8/2022	123.356669	-38.00666902
OHWD TSS Shallow	RMW-ISW6	9/9/2022	122.7935214	-37.44352136
OHWD TSS Shallow	RMW-ISW6	9/10/2022	123.0831916	-37.73319156
OHWD TSS Shallow	RMW-ISW6	9/11/2022	122.7191778	-37.36917775
OHWD TSS Shallow	RMW-ISW6	9/12/2022	122.3007268	-36.95072679
OHWD TSS Shallow	RMW-ISW6	9/13/2022	122.1425361	-36.79253613
OHWD TSS Shallow	RMW-ISW6	9/14/2022	121.837296	-36.48729598
OHWD TSS Shallow	RMW-ISW6	9/15/2022	122.1455809	-36.79558092
OHWD TSS Shallow	RMW-ISW6	9/16/2022	122.2407537	-36.89075366
OHWD TSS Shallow	RMW-ISW6	9/17/2022	121.7747625	-36.42476246
OHWD TSS Shallow	RMW-ISW6	9/18/2022	121.319774	-35.96977403
OHWD TSS Shallow	RMW-ISW6	9/19/2022	120.9439501	-35.59395012
OHWD TSS Shallow	RMW-ISW6	9/20/2022	120.9366841	-35.58668414
OHWD TSS Shallow	RMW-ISW6	9/21/2022	120.8492618	-35.49926178
OHWD TSS Shallow	RMW-ISW6	9/22/2022	120.6430004	-35.29300035
OHWD TSS Shallow	RMW-ISW6	9/23/2022	120.4719616	-35.12196161

OHWD TSS Shallow	RMW-ISW6	9/24/2022	120.7063873	-35.35638733
OHWD TSS Shallow	RMW-ISW6	9/25/2022	120.4638652	-35.11386523
OHWD TSS Shallow	RMW-ISW6	9/26/2022	120.4634962	-35.11349617
OHWD TSS Shallow	RMW-ISW6	9/27/2022	121.1276063	-35.77760629
OHWD TSS Shallow	RMW-ISW6	9/28/2022	121.2045795	-35.85457949
OHWD TSS Shallow	RMW-ISW6	9/29/2022	121.2046026	-35.85460256
OHWD TSS Shallow	RMW-ISW6	9/30/2022	121.1499809	-35.79998088
OHWD TSS Shallow	RMW-ISW6	10/6/2022	119.37	-34.02
OHWD TSS Shallow	RMW-ISW6	3/27/2023	111.71	-26.36
OHWD TSS Shallow	RMW-ISW6	4/14/2023	111	-25.65
OHWD TSS Shallow	RMW-ISW6	4/17/2023	110.91	-25.56
OHWD TSS Shallow	RMW-ISW6	10/2/2023	116.36	-31.01

Site Code: 383500N1209595W001 **State Well Number:** **Local Well Name:** AWA Col MW-4

Site Code: 383500N1209595W001
Local Well Name: AWA Col MW-4
State Well Number:
Station ID: 50500
WCR Number:
Latitude: 38.34999
Longitude: -120.95953
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Observation
Well Completion Type: Single Well
Well Depth (feet bgs): 27
Top Perforation (feet bgs): 17
Bottom Perforation (feet bgs): 27
Ground Surface Elevation: 267
Reference Point Elevation: 268.77
Reference Point Description: Top of Well Casing
Station Comments: Network ID: RMW-ISW7 - Included in CASGEM Migration, Not intended for GWL SI

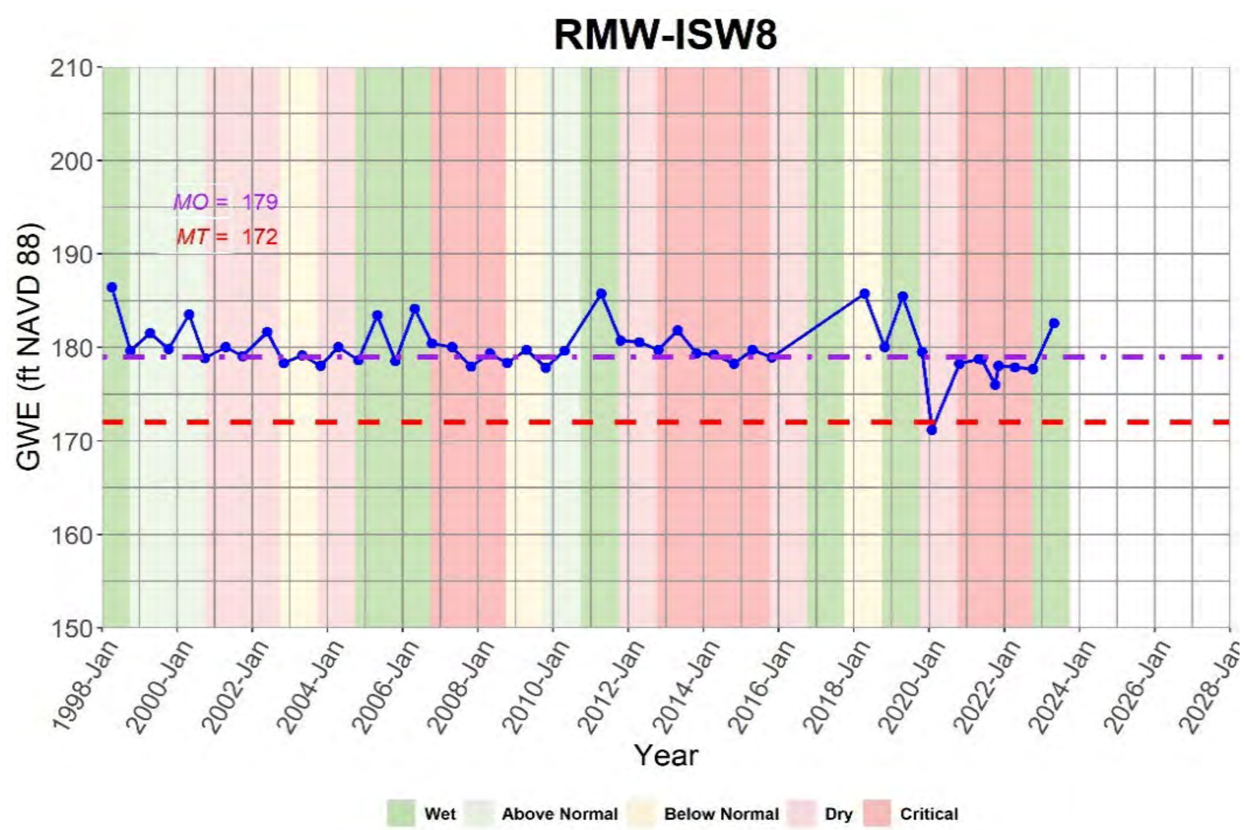




Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
AWA Col MW-4	RMW-ISW7	12/18/2014	13.36	255.41
AWA Col MW-4	RMW-ISW7	3/24/2015	12.5	256.27
AWA Col MW-4	RMW-ISW7	8/16/2015	11.31	257.46
AWA Col MW-4	RMW-ISW7	3/29/2016	10.99	257.78
AWA Col MW-4	RMW-ISW7	6/20/2016	13.08	255.69
AWA Col MW-4	RMW-ISW7	9/8/2016	14.36	254.41
AWA Col MW-4	RMW-ISW7	6/16/2017	8.34	260.43
AWA Col MW-4	RMW-ISW7	9/13/2017	12.86	255.91
AWA Col MW-4	RMW-ISW7	12/5/2017	12.16	256.61
AWA Col MW-4	RMW-ISW7	3/9/2018	11.91	256.86
AWA Col MW-4	RMW-ISW7	9/17/2018	14.12	254.65
AWA Col MW-4	RMW-ISW7	12/17/2018	12.46	256.31
AWA Col MW-4	RMW-ISW7	3/18/2019	9.72	259.05
AWA Col MW-4	RMW-ISW7	5/13/2019	11.49	257.28
AWA Col MW-4	RMW-ISW7	5/20/2021	13.37	255.4
AWA Col MW-4	RMW-ISW7	10/15/2021	16.77	252
AWA Col MW-4	RMW-ISW7	10/21/2021	16.9	251.87
AWA Col MW-4	RMW-ISW7	10/1/2022	15.93	252.84
AWA Col MW-4	RMW-ISW7	3/17/2023	11.25	257.52
AWA Col MW-4	RMW-ISW7	11/30/2023	16.8	251.97

Site Code: 384205N1210459W001 **State Well Number:** 07N08E36B001M **Local Well Name:** 07N08E36B001M

Site Code: 384205N1210459W001
Local Well Name: 07N08E36B001M
State Well Number: 07N08E36B001M
Station ID: 29338
WCR Number:
Latitude: 38.42050
Longitude: -121.04590
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Observation
Well Completion Type: Single Well
Well Depth (feet bgs): 15
Top Perforation (feet bgs):
Bottom Perforation (feet bgs):
Ground Surface Elevation: 187.35
Reference Point Elevation: 189.35
Reference Point Description: None Provided
Station Comments: Network ID: RMW-ISW8 - Included in CASGEM migration, Not intended for GWL SI

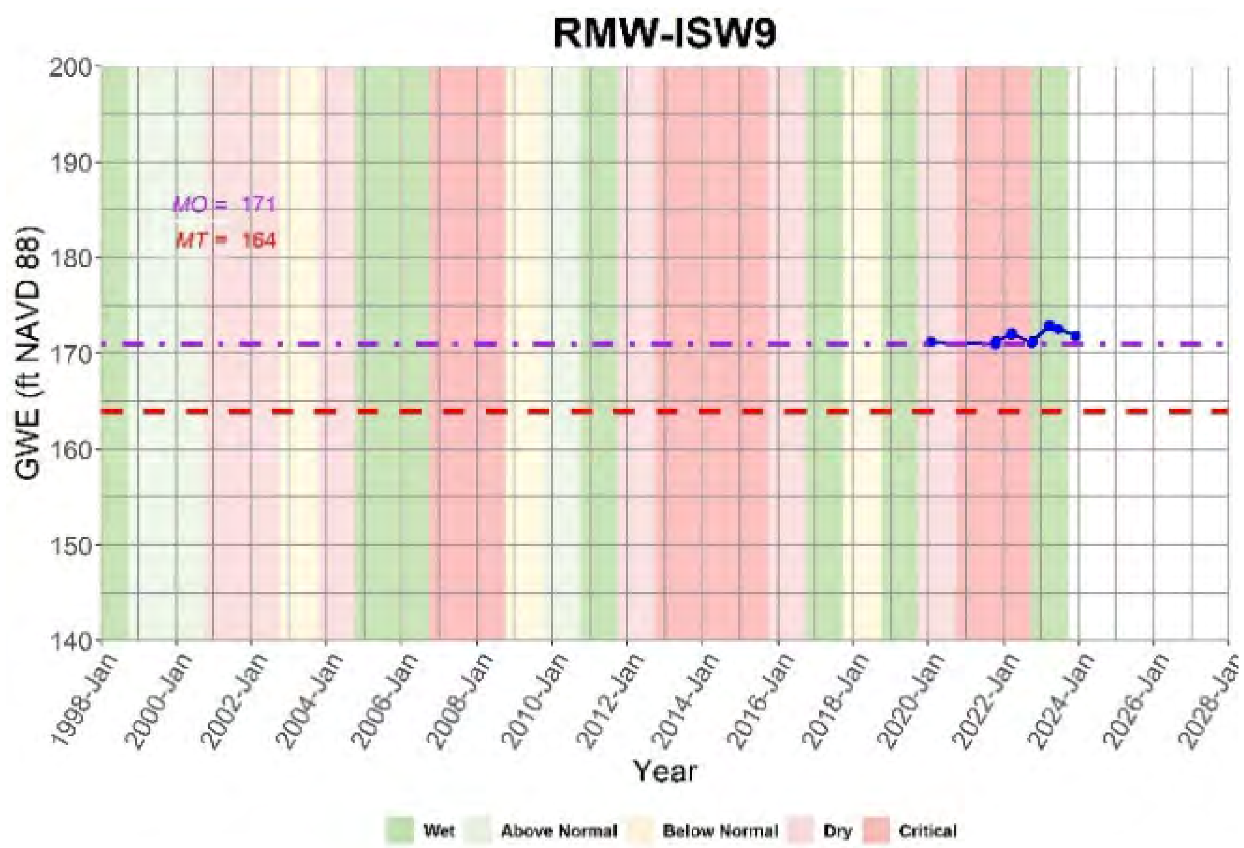


Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
07N08E36B001M	RMW-ISW8	3/24/1953	9.85	177.55
07N08E36B001M	RMW-ISW8	5/18/1953	8.05	179.35
07N08E36B001M	RMW-ISW8	7/6/1953	8.55	178.85
07N08E36B001M	RMW-ISW8	8/25/1953	9.35	178.05
07N08E36B001M	RMW-ISW8	10/26/1953	10.35	177.05
07N08E36B001M	RMW-ISW8	4/7/1954	9.25	178.15
07N08E36B001M	RMW-ISW8	10/22/1954	12.55	174.85
07N08E36B001M	RMW-ISW8	3/23/1955	7.85	179.55
07N08E36B001M	RMW-ISW8	5/16/1955	8.35	179.05
07N08E36B001M	RMW-ISW8	10/18/1955	10.05	177.35
07N08E36B001M	RMW-ISW8	3/27/1956	6.35	181.05
07N08E36B001M	RMW-ISW8	11/2/1956	10.35	177.05
07N08E36B001M	RMW-ISW8	3/14/1957	7.25	180.15
07N08E36B001M	RMW-ISW8	7/22/1957	11.35	176.05
07N08E36B001M	RMW-ISW8	10/9/1957	11.35	176.05
07N08E36B001M	RMW-ISW8	3/25/1958	6.55	180.85
07N08E36B001M	RMW-ISW8	10/8/1958	12.05	175.35
07N08E36B001M	RMW-ISW8	3/13/1959	6.35	181.05
07N08E36B001M	RMW-ISW8	10/1/1959	9.65	177.75
07N08E36B001M	RMW-ISW8	3/3/1960	8.45	178.95
07N08E36B001M	RMW-ISW8	4/13/1961	11.05	176.35
07N08E36B001M	RMW-ISW8	3/7/1962	8.75	178.65
07N08E36B001M	RMW-ISW8	10/10/1962	9.05	178.35
07N08E36B001M	RMW-ISW8	3/20/1963	8.05	179.35
07N08E36B001M	RMW-ISW8	10/16/1963	8.05	179.35
07N08E36B001M	RMW-ISW8	4/2/1964	7.55	179.85
07N08E36B001M	RMW-ISW8	10/8/1964	7.55	179.85
07N08E36B001M	RMW-ISW8	3/18/1965	3.45	183.95
07N08E36B001M	RMW-ISW8	10/6/1965	8.05	179.35
07N08E36B001M	RMW-ISW8	3/14/1966	6.45	180.95
07N08E36B001M	RMW-ISW8	10/5/1966	8.25	179.15
07N08E36B001M	RMW-ISW8	3/8/1967	4.45	182.95
07N08E36B001M	RMW-ISW8	10/16/1967	8.75	178.65
07N08E36B001M	RMW-ISW8	3/7/1968	8.55	178.85
07N08E36B001M	RMW-ISW8	10/24/1968	9.75	177.65
07N08E36B001M	RMW-ISW8	3/27/1969	3.25	184.15
07N08E36B001M	RMW-ISW8	4/13/1970	6.05	181.35
07N08E36B001M	RMW-ISW8	10/20/1970	9.85	177.55

07N08E36B001M	RMW-ISW8	3/26/1971	7.75	179.65
07N08E36B001M	RMW-ISW8	10/14/1971	10.25	177.15
07N08E36B001M	RMW-ISW8	3/14/1972	10.15	177.25
07N08E36B001M	RMW-ISW8	10/16/1972	11.65	175.75
07N08E36B001M	RMW-ISW8	3/12/1973	6.75	180.65
07N08E36B001M	RMW-ISW8	10/5/1973	8.55	178.85
07N08E36B001M	RMW-ISW8	3/7/1974	2.05	185.35
07N08E36B001M	RMW-ISW8	10/8/1974	7.55	179.85
07N08E36B001M	RMW-ISW8	3/10/1975	4.85	182.55
07N08E36B001M	RMW-ISW8	10/10/1975	7.85	179.55
07N08E36B001M	RMW-ISW8	3/5/1976	9.55	177.85
07N08E36B001M	RMW-ISW8	10/12/1976	10.75	176.65
07N08E36B001M	RMW-ISW8	3/11/1977	9.55	177.85
07N08E36B001M	RMW-ISW8	3/16/1978	3.85	183.55
07N08E36B001M	RMW-ISW8	10/19/1978	8.05	179.35
07N08E36B001M	RMW-ISW8	3/15/1979	3.65	183.75
07N08E36B001M	RMW-ISW8	10/3/1979	7.05	180.35
07N08E36B001M	RMW-ISW8	3/12/1980	1.05	186.35
07N08E36B001M	RMW-ISW8	10/6/1980	6.75	180.65
07N08E36B001M	RMW-ISW8	3/11/1981	7.05	180.35
07N08E36B001M	RMW-ISW8	10/20/1981	9.05	178.35
07N08E36B001M	RMW-ISW8	11/1/1982	7.85	179.55
07N08E36B001M	RMW-ISW8	3/21/1983	2.05	185.35
07N08E36B001M	RMW-ISW8	10/6/1983	6.05	181.35
07N08E36B001M	RMW-ISW8	3/12/1984	1.85	185.55
07N08E36B001M	RMW-ISW8	10/16/1984	8.05	179.35
07N08E36B001M	RMW-ISW8	3/25/1985	4.05	183.35
07N08E36B001M	RMW-ISW8	10/17/1985	9.05	178.35
07N08E36B001M	RMW-ISW8	3/19/1986	4.65	182.75
07N08E36B001M	RMW-ISW8	10/8/1986	8.25	179.15
07N08E36B001M	RMW-ISW8	3/17/1987	8.25	179.15
07N08E36B001M	RMW-ISW8	10/8/1987	8.45	178.95
07N08E36B001M	RMW-ISW8	3/23/1988	8.35	179.05
07N08E36B001M	RMW-ISW8	5/5/1990	9.65	177.75
07N08E36B001M	RMW-ISW8	10/5/1990	10.05	177.35
07N08E36B001M	RMW-ISW8	2/22/1991	10.35	177.05
07N08E36B001M	RMW-ISW8	10/15/1991	9.45	177.95
07N08E36B001M	RMW-ISW8	4/3/1992	7.55	179.85
07N08E36B001M	RMW-ISW8	10/13/1992	9.05	178.35
07N08E36B001M	RMW-ISW8	3/15/1993	4.05	183.35
07N08E36B001M	RMW-ISW8	10/4/1993	8.05	179.35
07N08E36B001M	RMW-ISW8	4/1/1994	8.55	178.85
07N08E36B001M	RMW-ISW8	10/31/1994	8.95	178.45
07N08E36B001M	RMW-ISW8	4/11/1995	3.95	183.45
07N08E36B001M	RMW-ISW8	10/2/1995	8.65	178.75
07N08E36B001M	RMW-ISW8	4/3/1996	6.75	180.65
07N08E36B001M	RMW-ISW8	10/9/1996	8.45	178.95
07N08E36B001M	RMW-ISW8	3/31/1997	5.55	181.85
07N08E36B001M	RMW-ISW8	10/20/1997	8.65	178.75
07N08E36B001M	RMW-ISW8	4/6/1998	0.95	186.45
07N08E36B001M	RMW-ISW8	10/6/1998	7.75	179.65
07N08E36B001M	RMW-ISW8	4/12/1999	5.85	181.55
07N08E36B001M	RMW-ISW8	10/12/1999	7.55	179.85
07N08E36B001M	RMW-ISW8	4/26/2000	3.85	183.55
07N08E36B001M	RMW-ISW8	9/25/2000	8.55	178.85
07N08E36B001M	RMW-ISW8	4/18/2001	7.35	180.05
07N08E36B001M	RMW-ISW8	9/26/2001	8.35	179.05
07N08E36B001M	RMW-ISW8	5/23/2002	5.75	181.65
07N08E36B001M	RMW-ISW8	11/1/2002	9.05	178.35

Site Code: 383037N1209872W002 **State Well Number:** 05N09E09G500M **Local Well Name:** ACGMA Bamert Rd MW S

Site Code: 383037N1209872W002
Local Well Name: ACGMA Bamert Rd MW S
State Well Number: 05N09E09G500M
Station ID: 57722
WCR Number: WCR2022-007467
Latitude: 38.30379
Longitude: -120.98724
Station Organization ID:
Station Organization Name:
Well Location Description:
Well Use Type: Observation
Well Completion Type: Part of a nested/multi-completion well
Well Depth (feet bgs): 78
Top Perforation (feet bgs): 58
Bottom Perforation (feet bgs): 68
Ground Surface Elevation: 184.2
Reference Point Elevation: 184.2
Reference Point Description: top of casing
Station Comments: Network ID: RMW-ISW9



Site_ID	Site_Name	SampDate	DTW (ft bgs)	GWE (ft NAVD88)
ACGMA Bamert RdMW S	RMW-ISW9	1/27/2020	13.02	171.18
ACGMA Bamert RdMW S	RMW-ISW9	10/15/2021	13.2	171
ACGMA Bamert RdMW S	RMW-ISW9	10/21/2021	12.9	171.3
ACGMA Bamert RdMW S	RMW-ISW9	3/15/2022	12.2	172
ACGMA Bamert RdMW S	RMW-ISW9	3/22/2022	12.11	172.09
ACGMA Bamert RdMW S	RMW-ISW9	10/1/2022	13.1	171.1
ACGMA Bamert RdMW S	RMW-ISW9	10/13/2022	12.9	171.3
ACGMA Bamert RdMW S	RMW-ISW9	3/17/2023	11.3	172.9
ACGMA Bamert RdMW S	RMW-ISW9	3/30/2023	11.3	172.9
ACGMA Bamert RdMW S	RMW-ISW9	6/14/2023	11.6	172.6
ACGMA Bamert Rd MW S	RMW-ISW9	11/30/2023	12.3	171.9

APPENDIX C

Stakeholder Outreach

WY 2023 Stakeholder Outreach

Cosumnes Groundwater Authority Board of Directors Meetings

- 18 October 2022
- 17 November 2022 (Special meeting)
- 21 November 2022
- 5 December 2022 (Special Meeting)
- 19 December 2022
- 23 January 2023
- 6 February 2023 (Special Meeting)
- 17 February 2023
- 20 March 2023
- 17 April 2023
- 15 May 2023
- 22 June 2023 (Board Training)
- 26 June 2023
- 17 July 2023
- 21 August 2023
- 18 September 2023

Projects and Management Actions (PMA) Committee Meetings

- 11 October 2022
- 25 October 2022 (Staff Presentation)
- 24 April 2023
- 7 August 2023
- 12 September 2023

Outreach & Engagement Committee Meeting Information

- 25 July 2023
- 14 September 2023
- 27 September 2023

Citizen Advisory Committee Meetings

- 25 October 2022
- 14 June 2023
- 20 September 2023

Direct Outreach

- Website and Interested Parties List maintenance (2015 - ongoing)

- Fact Sheets development/distribution (2017 - ongoing)
- Stakeholder well and land access inquiry (January 2020 – ongoing)
- Public Presentations made by GSA members to their local governing bodies as part of regular Public City Council or Board meetings (2015 - ongoing)
- Farmer Survey sent out to landowners.

APPENDIX D

Public Comments

ID (#)	Commenter / Organization	Provided Comment	Response to Comment
1	Ted Rauh / Water Committee	See attached comment letter from Environmental Council of Sacramento (ECOS).	CGA addressed these comments by attending the 27 July 2023 ECOS' Water Committee meeting and presenting an update on current conditions of the Basin and a summary of the Cosumnes Basin WY 2022 Annual Report.
2	Leo VanWarmerdam / Galt Irrigation District	See attached comment letter from Galt Irrigation District (GID).	CGA is addressing these comments by increasing communication amongst the GSAs as well permit requests come in and increasing collaboration amongst Sacramento County GSA and Sacramento County permitting agency.
3	Barbara Washburn	CGA received an email expressing concern over not knowing the actual water usage of aquaculture operations.	CGA is addressing this comment by making this data gap a higher priority for future data gap filling activities.
4	Barbara Washburn	CGA received a suggestion to review the "Report on the Delta Drought Response Pilot Program for Water Year 2022" report to provide guidance on land fallowing activities.	CGA filed the report and will review it when the land fallowing PMA moves forward.
5	Multiple stakeholders	During public meetings CGA has received concerns about the fee study and how the fees will directly affect stakeholders.	CGA plans to address these comments with increased stakeholder outreach during the implementation of the fee study and future stakeholder workshops.

ECOS
ENVIRONMENTAL
• COUNCIL •
OF SACRAMENTO
Post Office Box 1526 | Sacramento, CA 95812-1526

June 1, 2023

Austin Miller, Administrator
Cosumnes Groundwater Authority
Sent via email to austin@sloughhousercd.org

Subject: Invitation to Discuss the Status of the Cosumnes Subbasin

Dear Mr. Miller,

On behalf of the Environmental Council of Sacramento's Water Committee, I would like to invite you to join us on July 27th, 2023, from 6:00 to 7:00 pm to discuss the current conditions of the Cosumnes Subbasin (CGA), and Cosumnes Groundwater Authority's (CGA) ongoing efforts and plans to continue to understand the CSb, address areas of concern identified in the Groundwater Sustainability Plan (GSP) and improve the CSb's sustainability.

The Committee has had an opportunity to review CGA's CSb Second Annual Report, Water Year 2022 (Report) recently submitted to the State Department of Water Resources (DWR) as required to fulfill the annual reporting process under the Sustainable Groundwater Management Act. We found it to be informative and hope that future Reports will have an opportunity for full public review and discussion before they are submitted to DWR.

Our review of the Report has identified several areas of interest we would like to discuss with you. We hope these areas can be included in your discussion of the Report's findings when we meet. The areas of interest include:

Chapter 6 Change in Groundwater Storage notes that *"The net change in storage across the entire Basin decreased by 27,000 AF in WY 2022"* and the Department of Water Resources states that nine domestic wells were reported as going dry in the Basin in 2022. Chapter 6 attributes the change in storage to the drought; nevertheless, it would seem prudent to limit increases in demand. Therefore, the group would appreciate your insight as to why the Sloughhouse Resource Conservation District approved a new agricultural well intended to serve a new orchard as consistent with achieving the goals of the GSP? Also, the Cosumnes GSP identified 10,000 AF plus of storage loss per year that had to be addressed and indicated a plan to address the shortage bringing the subbasin back to 2015 levels by 2040. If we have lost approximately 50,000 AF + between 2016 and 2020 and another larger amount in 2021, and

27,000 AF in 2022 it is likely the subbasin is approaching a 100,000 AF deficit. Could you share CGA's current plan to meet the SGMA sustainability requirements?

2) *Chapter 7.1 Semi-Annual Monitoring* of the Report notes that several wells were not monitored as required in the GSP. The Report concludes that no undesirable results occurred, despite incomplete monitoring data. A few examples:

- Chronic lowering of groundwater levels: The report states *"The GSP defines Undesirable Results when MTs are exceeded in 25% or more of the RMW-WLs (5 out of 19) for two (2) consecutive years. MT exceedances in WY 2022 are discussed below and do not indicate Undesirable Results in The Basin."* In one explanation of the basis for no undesirable results CGA states: *"In WY 2021, one well (RMW-WL16) had a groundwater elevation below the MT but the water level was not measured during WY 2022. Based on the hydrograph for this well (**Figure AR-4b**), It is plausible the water level in RMW-WL16 was also below the MT in 2022, but this cannot be confirmed.*"

- Degraded water quality: The report states that complete data on water quality was not obtained for seven of the fourteen wells used to monitor water quality. CGA notes: *"The GSP defines the criteria for Undesirable Results when MTs for a COC are exceeded in samples from 25% or more of the RMW-WQs (for example, the MTs are exceeded in samples from 4 of the 14 RMWWQ wells) for two (2) consecutive years. In WY 2022, except for Arsenic, all available data were below the MT. The Arsenic concentration in the sample from RMW-WQ2 was 11 micrograms per liter (µg/L) and exceeded the MT; no data was available for this well in WY 2021. This exceedance of the MT is not indicating Undesirable Results in the Basin."*

- Depletion of Interconnected Surface Water: The report *states "Fall 2021 water levels were measured in seven (7) wells and Spring 2022 water levels were measured in five (5) wells. **Table AR-6** compares these WY 2022 groundwater elevations to SMCs (MOs and MTs) at the RMW-ISWs for the Depletion of Interconnected Surface Water Sustainability Indicator. The GSP defines Undesirable Results when MTs are exceeded in one or more of the RMW-ISWs (1 out of 9) for two (2) consecutive years. In WY 2021, the water levels reported for all RMW-ISWs were above their respective MTs and therefore the MT exceedances in WY 2022, discussed below, do not indicate Undesirable Results in the Basin.*

Please clarify—Is the Report stating that because two years data for all the wells was unavailable, one should conclude that there are no undesirable results? The Report discusses how the monitoring consistency will be improved, but are there any actions planned to address or assess the actual conditions of the basin based on the exceedances that have been identified?

3) Groundwater Dependent Ecosystems (GDEs) remain a difficult area for many of the regional GSAs to directly address. This is an area of significant interest to ECOS. While modeling was done to estimate the types of effects that may occur from groundwater level decline, there are few regional groundwater monitoring systems or habitat monitoring programs to verify the model predictions. The group would be interested to hear your thoughts on how

GDEs might best be addressed over the SGMA time period and how CGA might coordinate with the other GSAs that share the same ecosystem resources.

4) COSANA Model accuracy: The Report notes that much of the groundwater pumping used to assess the condition of the Basin was estimated using the COSANA model. We are interested in your views about the efficacy of the model and what actions are planned to verify and improve its accuracy.

5) Projects that affect groundwater in other basins. We note that there is currently a proposal from the City of Sacramento to change the location of a significant part of their groundwater well field. Could you speak to the process for CGA to comment on relevant water projects in other basins?

6) Coordination. Finally, we are interested in learning about CGA plans to coordinate with other neighboring Subbasin GSAs and the Water Forum in both future GSP implementation and the development of the proposed Water Bank and conjunctive use proposals.

Thank you for taking the time to share your insights. We look forward to meeting with you over Zoom on July 27th.

Sincerely,

Ted Rauh
Chair, Water Committee

GALT IRRIGATION DISTRICT
P.O. BOX 187
HERALD, CA 95638
209-734-6077

July 11, 2023

Dear Cosumnes Groundwater Authority,

As a GSA and stakeholder in the Cosumnes Groundwater Authority (CGA), Galt Irrigation District would like to address an ongoing topic within the Cosumnes Basin that we feel needs to be discussed and promoted within CGA. The Cosumnes Basin is being held responsible for groundwater sustainability and yet new developments and wells are being approved which add new straws to the aquifer without being charged for any new groundwater extractions. Galt Irrigation District feels strongly that there needs to be a path taken by CGA for a solution to this problem.

Currently in the Cosumnes Basin, only irrigated agricultural land is being assessed for funds needed to conform to SGMA guidelines. Galt Irrigation District feels that any new well that is established needs to be assessed a new extraction fee. These new extractions may be for new developments, municipalities or ag wells within the Basin. An example that Galt Irrigation District is currently analyzing is a new development outside of the City of Galt sphere of influence that is asking for 17 new groundwater wells. The question becomes how can we, as a GSA in a medium priority basin, allow these new wells to be developed without any extra charges for the new extraction points.

Grant funds provided by the State will probably get harder for basins to obtain with ongoing concerns about budget deficits that the State is currently suffering. Thus if the basin doesn't start developing a plan that charges fees for new extractions and use those fees for basin investment, we will get less and less accomplished going forward when it comes to solving our overdraft issues.

It is our strong feeling that the CGA Stakeholders need consistency in our decisions to allow new groundwater extractions and assess a charge for any new extraction points. As stated earlier, it is not fair to simply assess a fee to existing irrigated land parcels and not expect any new extractions to contribute to the SGMA efforts. Funds generated from any new wells could be set aside for surface water management such as pursuing surface water and recharge projects within the Basin.

Please take the time as the governing agency to discuss this topic in depth with the Stakeholders. It would be prudent to have a unified Basin-wide policy about any new extractions that is both fair and equitable to everyone involved. Thank you for this consideration.

Sincerely,

Leo VanWarmerdam

Leo VanWarmerdam
Chairman, Galt Irrigation District

APPENDIX E

Cosumnes Monitoring Well Installation Report

MONITORING WELL INSTALLATION REPORT, SEPTEMBER 2023

New Hope Road
Galt, California

31 October 2023
EKI B80081.01

EKI ENVIRONMENT & WATER, INC.

www.ekiconsult.com
2001 Junipero Serra Blvd, Suite 300 • Daly City, CA 94014

MONITORING WELL INSTALLATION REPORT, SEPTEMBER 2023

New Hope Road, Galt, California

31 October 2023

Prepared for:

Cosumnes Groundwater Authority
8970 Elk Grove Blvd.
Elk Grove, CA 95624

Prepared by:

EKI Environment & Water, Inc.
2001 Junipero Serra Blvd., Suite 300
Daly City, California 94014
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John Fio
Principal Hydrogeologist

Christina Lucero, P.G.
Hydrogeologist
QA/QC Reviewer

Kristyn Lindhart
Hydrogeologist

MONITORING WELL INSTALLATION REPORT, SEPTEMBER 2023

New Hope Road, Galt, California

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ABBREVIATIONS AND ACRONYMS

Belshire	Belshire Environmental Services
Cascade	Cascade Drilling, LP of Richmond, California
DWR	Department of Water Resources
EC	Electrical conductivity
EKI	EKI Environment & Water, Inc.
EMD	County of Sacramento Environmental Management Department
feet bgs	Feet below ground surface
Myron	Myron L Multiparameter Ultrameter
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
ORP	Oxidation-reduction potential
PG&E	Pacific Gas and Electric
pH	Potential of hydrogen
Turbidity Meter	Hanna Portable Turbidity Meter
USCS	Unified Soil Classification System
PID	Photoionization detector
PVC	Polyvinylchloride
RMS	Representative Monitoring Site
Sounder	Solinst #101 Water Level Meter
USA	Underground Services Alert
VOCs	Volatile organic compounds

1 INTRODUCTION

EKI Environment & Water, Inc. (EKI) prepared this report to document the installation of two groundwater monitoring wells during September 2023 on the California Department of Water Resources (DWR) Grizzly Slough Property located at New Hope Road, Galt, California (Figure 1). The property (Well Site) is part of the Cosumnes Groundwater Subbasin (DWR Basin No. 5-022.16; Subbasin). The purpose of the wells is to measure groundwater level changes in the uppermost saturated sediments near verified Groundwater Dependent Ecosystem areas. These measurements are being collected to monitor shallow groundwater responses to temporal variations in deeper well extractions and climatic conditions in the Subbasin. The wells will be incorporated into the Subbasin's Representative Monitoring Sites (RMS) for Chronic Lowering of Groundwater Levels, Degraded Water Quality, and Depletions of Interconnected Surface Water as described in the Cosumnes Subbasin Groundwater Sustainability Plan.[1]

Table 1 provides a summary of the completed wells. Section 2 identifies the site, Section 3 provides details on the installation, construction, and development activities, and Section 4 discusses deviations from the workplan.

[1] https://www.cosumnesgroundwater.org/groundwater/cosumnes-gsp/

2 SITE SETTING

The Well Site is located along New Hope Road, approximately 2.25 miles west of Kost Road and 0.4 miles east of North New Hope Road. The site is on the DWR Grizzly Slough Property, which is part of the Cosumnes River Preserve. The Site is located south of the Cosumnes River and is surrounded by vegetated fields. Surface topography is nearly flat, with a mildly undulating ground surface that has an elevation that ranges from approximately 12-13 feet above mean sea level, i.e., the North American Vertical Datum of 1988 (NAVD88).

3 MONITORING WELL INSTALLATION

Monitoring well drilling, construction, and development at the Well Site was conducted in September 2023 in one phase. The work described herein was performed in general accordance with the DWR encroachment permit and well construction schematics, approved and issued on 11 September 2023 (see Appendix A). EKI Environment and Water, Inc. (EKI) obtained required permits, conducted field preparation, and oversaw the drilling, construction, and development of the monitoring wells.

3.1 Encroachment Permit

Well construction required an encroachment permit with DWR. County of Sacramento submitted the encroachment permit application on 20 July 2021 and it was approved on 11 September 2023. The following tasks were completed to comply with the permit requirements:

- Site plans and proposed well construction schematics;
- Health and Safety Plan;
- Monument Survey;
- Biological Survey; and
- Cultural Resources Survey.

The Biological Survey identified the potential for Swainson's Hawk nesting near the Well Site, which narrowed the time-period permissible for construction activities to outside the period 1 March 2023 through 15 September 2023. A copy of the encroachment permit and its associated Monument, Biological, and Cultural Resources Survey Reports are included in Appendix A and Appendix B, respectively.

3.2 Field Preparation and Well Permitting

Prior to the start of field work, EKI obtained monitoring well drilling permits (Permits WP 64244 and WP 64252) from the County of Sacramento Environmental Management Department (EMD). Drilling permits are included in Appendix A.

Belshire Environmental Services, Inc., of Foothill Ranch, California (Belshire), was contracted for waste disposal services and Cascade Drilling, LP, of Richmond, California, (Cascade) was contracted for drilling services.

3.3 Field Work

The following field activities were conducted as part of this work. All activities were either overseen or completed by EKI personnel.

3.3.1 Pre-Field Activities

Prior to commencement of drilling activities, the following activities were conducted:

- Cascade marked the proposed borehole locations and EKI contacted Underground Service Alert (USA) North for public utility notice;
- EKI installed construction fencing to delineate the work and staging zones and control potential impacts to habitat;
- EKI and Cascade conducted a field meeting with a representative from Pacific Gas and Electric (PG&E) and cleared each borehole of utilities;

- EKI and Cascade completed Environmental Awareness Training provided by a qualified biologist (Brian Young, Regional San, Sacramento CA); and
- Pursuant to the requirements of the DWR encroachment permit, EKI notified DWR and their corresponding Delta Field Division, as well as Sacramento Project Headquarters seven days prior to the start of work.

3.3.2 Monitoring Well Installation

From 19 to 22 September 2023, EKI oversaw the drilling and construction of monitoring wells GS-S and GS-M by Cascade, using hollow-stem auger drilling techniques (Figure 2). The planned monitoring well GS-D was not constructed due to budget limitations.

Drilling, hand auger, in-situ testing, and sampling equipment used during the investigation were cleaned prior to and during their use. EKI inspected Cascade's down-hole drilling equipment for cleanliness prior to the start of work each day. Prior to use at each location, drilling equipment was decontaminated using a non-phosphate laboratory-grade soap such as Liquinox and double rinsed in potable water using a mobile steam cleaner unit.

Prior to drilling, the upper five feet of each borehole were advanced using a hand auger to clear for utilities.

Each borehole was advanced using 8-inch outer diameter augers to the targeted total depths. Continuous, undisturbed soil samples were collected and logged during borehole advancement to the targeted total depth of 110 feet below ground surface (bgs) for GS-M. Cascade used 18-inch and 24-inch split spoon samplers and each sampler was advanced ahead of the auger and drilling bit using a hydraulic hammer attached to the drilling rig.[2] An EKI geologist, under the oversight of a licensed professional geologist, performed the following tasks for retrieved soil samples: (1) stratigraphically logged each borehole using the Unified Soil Classification System (USCS), (2) described the soil color according to the Munsell Soil Color system, (3) field-screened soil samples using a photoionization detector (PID) for volatile organic compounds (VOCs), and (4) recorded PID readings and field observations, including odor or soil staining, on the borehole logs. No PID detections, odors, or soil staining were observed.

In general, the native sediment was comprised of the following layers:

- From ground surface to approximately 40 feet bgs, native sediment consists of predominantly fine to coarse-grained sands and interbedded silty sand to sandy silt layers.
- Below the fine to coarse-grained native sediment, from approximately 40 to 62 feet bgs, a confining layer of silt with interbedded sandy silt to silt with sand was observed.
- From 62 to 110 feet bgs, native sediment consists of silty sands to fine to coarse-grained sediment with shallow interbedded silt layers near the total depth of the GS-M borehole at 110 feet bgs.

Detailed borehole logs are compiled in Appendix C.

After reaching each respective target depth, one foot of filter sandpack, consisting of Cemex Monterey Lapis Lustre #2/12 silica sand, was emplaced in the bottom of the borehole through the augers as they

[2] During borehole well advancement at GS-S (35 feet bgs), an 18-inch soil sample was collected for every 5-foot run for confirmation sampling. GS-S is located approximately 6 feet north of GS-M.

were withdrawn.[3] New 2-inch diameter threaded flush-joint Schedule 40 polyvinylchloride (PVC) well casing sealed with a 2-foot Schedule 40 PVC well casing sump and a threaded PVC end plug was then placed and assembled inside the augers within the borehole. Monitoring well GS-S and GS-M were screened from 17 to 32 feet bgs and 72 to 97 feet bgs, respectively, with 2-inch diameter 0.020-inch aperture factory-slotted Schedule 40 PVC casing. Monitoring wells GS-S and GS-M extended to a total cased depth of 34 and 99 feet bgs, respectively (Figures 3 and 4). Well construction details are summarized in Table 1.

After Cascade installed the casing in the borehole, they emplaced the filter pack slowly by pouring sand through the augers while withdrawing them from the borehole. Sand filter pack was placed to a depth of three feet (GS-S) and five feet (GS-M) above the top of the screened interval. After the sand filter pack was fully emplaced, Cascade surged the well screen prior to retracting the augers; no bridging was noted.

A 2-foot transition seal of medium bentonite chips was then emplaced on top of the sand filter pack at monitoring well GS-S and hydrated in two lifts. At GS-M, a 5-foot transition seal of 3/8th-inch time-release coated bentonite pellets was emplaced on top of the sand pack.[4] After the installation of the time-release coated bentonite pellets, Cascade waited approximately 30 minutes to allow for hydration. After completion of the transition seal emplacement, the remaining annulus was grouted to ground surface with neat cement grout using a ratio of one 94-lb sack of Type I/II Portland cement to six gallons of potable water. Each borehole was grouted from the bottom up using a tremie pipe. A County of Sacramento EMD grout inspector observed grout mixing and emplacement.

After the grout set, Cascade completed each well with a 3-foot tall well monument. Each well monument was set in a 4-foot by 4-foot non-reinforced concrete pad slightly above grade. Cascade installed six bollards around the well monuments and concrete pads. Each well was fitted with a lockable expansion plug and was locked using an EKI-keyed hardened padlock.

3.3.3 Monitoring Well Development

On 25 September 2023, EKI observed the development of wells GS-S and GS-M, by Cascade. The wells were developed by a combination of surging, bailing, and pumping. A mixture of Liquinox™ and potable water was flushed through development equipment for decontamination. Prior to well development, each well was opened and allowed to equilibrate for 15 minutes before groundwater depths were measured using a Solinst #101 Water Level Meter (sounder). Depths to water were measured in each well with the sounder during development. Initial depths to water were 15 feet below top of casing and 17 feet below top of casing for GS-S and GS-M, respectively.

The wells were alternately surged with a surge block, bailed, and pumped with a Monsoon submersible DC electric pump. Each surge period was a minimum of 15 minutes; each well was cycled between surging and bailing or pumping a minimum of two times, and more than three casing volumes of groundwater were extracted from each well. At GS-S and GS-M, a total of approximately 41 gallons and 91 gallons were removed from the wells, respectively.

The wells were pumped until water quality parameters and other development criteria had been met. Water quality parameters were measured with a Myron L Multiparameter Ultrameter (Myron) for

[3] The targeted depth for GS-M was 100 feet bgs. The borehole was extended 10 feet below the targeted depth to a total depth of 110 feet bgs in an attempt to visually confirm the presence of a confining clay layer. Time-release coated bentonite pellets were used to seal the borehole from 100 to 110 feet bgs before the sandpack was emplaced.

[4] At GS-M, time-release coated bentonite pellets were also used to seal the borehole from 100 to 110 feet bgs, see Footnote 3.

temperature, electrical conductivity (EC), potential of hydrogen (pH), and oxidation-reduction potential (ORP). A Hanna Portable Turbidity Meter (turbidity meter) was used to measure turbidity. Prior to use, Cascade calibrated the Myron and turbidity meter using standard calibration fluids for conductivity, pH, ORP, and turbidity. Development was considered complete when parameters had stabilized for three successive readings at three-minute intervals. A copy of the monitoring well development logs are included in Appendix D.

3.4 Surveying

On 27 September 2023, a licensed land surveyor from the County of Sacramento (surveyor) surveyed wells GS-S and GS-M. The surveyor determined elevations of the top of the well monument lid, the rim of the well casing (on the north side), the top of the concrete pad, and the ground surface. The reported coordinates and elevations are within accuracy and precision of 0.1 feet horizontal, North American Datum of 1983 (NAD83), and 0.01 feet vertical, NAVD88. Figure 2 reports the well locations and Table 1 reports the ground surface and top of casing elevations. The surveyor report is included in Appendix E.

3.5 Management of Investigation-Derived Wastes

Investigation-derived wastes included soil cuttings and decontamination water. Soil cuttings were contained in a secure roll-off bin that was lined with a Visqueen polyethylene liner. Decontamination water was contained in sealed, labeled, 55-gallon DOT-compliant steel drums. Cascade produced two drums of decontamination water and three drums of purge water from monitoring well development.

Waste characterization samples were collected and analyzed to profile the waste for disposal. The analytical results classified the soil and water as non-hazardous. The soil roll-off bin was picked up by Belshire on 5 October 2023 and taken to a private property for disposal, per the direction of the well owners and client, County of Sacramento (Chris Hunley). A copy of the transfer authorization document and bill of lading for the soil disposal is included in Appendix F. The decontamination and purge waters were disposed of on Site, per approval of the well owners and client, County of Sacramento (Chris Hunley) and the empty drums were removed from the site by EKI in October 2023.

4 SCOPE OF WORK DEVIATIONS

The following deviations were made from the initial scope of work and well schematics:

- The proposed design included three monitoring wells: a shallow, intermediate, and deep well. Due to budget limitations, the deep well (200 feet bgs) was not constructed.
- GS-M was initially proposed to 100 feet bgs, but was advanced to 110 feet bgs in an attempt to visually observe a confining clay layer that was noted to be at approximately 100 feet bgs on the geophysical log for the area. The clay layer was not observed.
- GS-S well construction and annular materials depth intervals were adjusted 5 feet shallower than the proposed design feet based on encountered stratigraphy and water bearing zones while drilling.

5 CONCLUSIONS

EKI completed drilling, construction, and development of the shallow and intermediate monitoring wells, GS-S and GS-M. GS-S was advanced to 35 feet bgs and screened from 17 to 32 feet bgs. GS-M was advanced to 110 feet bgs and screened from 72 to 97 feet bgs. Photographs are included in Appendix G.

Pursuant to the requirements of the DWR encroachment permit, the following was completed, submitted to DWR, and approved:

- Site plans and proposed well construction schematics;
- Prepared a Health and Safety Plan;
- Monument Survey;
- Biological Survey;
- Cultural Resources Survey;
- Installed construction fencing, delineating the work and staging zones;
- Completed an Environmental Awareness Training by a qualified biologist (Brian Young, Regional San);
- Notified DWR and their corresponding Delta Field Division, and Sacramento Project Headquarters seven days prior to the start of work; and
- Submitted a well completion report for wells GS-S and GS-M to DWR.

Future water level monitoring and groundwater sample events will be conducted by Cosumnes Groundwater Authority.

TABLES

Table 1
Groundwater Monitoring Well Construction Details
Grizzly Slough Property
New Hope Road
Galt, California

Well I.D.	Date Installed	Drilling Method	Ground Surface (ft msl)	TOC Elevation (ft msl)	Well Casing Diameter (Inches)	Borehole Diameter (Inches)	Total Depth of Well (ft bgs)	Screened Interval (ft bgs)	Screened Interval (ft msl)
Monitoring Wells (a)									
GS-S	9/22/2023	Hollow Stem Auger	12.40	14.98	2.0	8.0	34.0	17.0 to 32.0	-4.6 to -19.6
GS-M	9/22/2023	Hollow Stem Auger	12.60	15.08	2.0	8.0	99.0	72.0 to 97.0	-59.4 to -84.4

Abbreviations:
ft = feet
ft bgs = feet below ground surface
ft msl = feet mean sea level
TOC = Top of Casing

Abbreviations:
(a) The ground surface and TOC elevations were surveyed on 27 September 2023 by a licensed land surveyor from the County of Sacramento. Vertical coordinates are based on North American Vertical Datum of 1988 (NAVD 88).

FIGURES

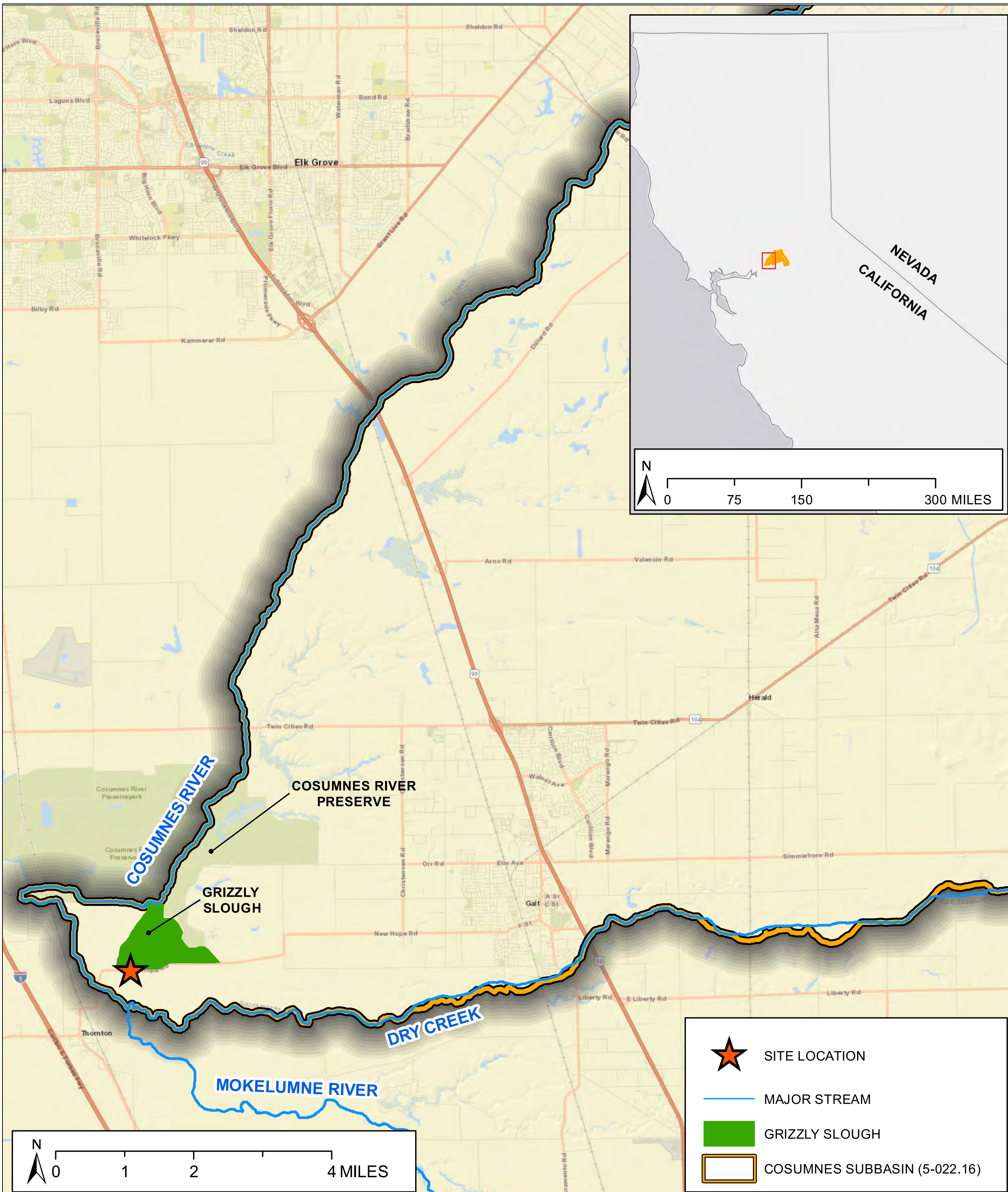


FIGURE 1 - SITE LOCATION MAP

NOTES

1. BASEMAP IS ESRI'S ARCGIS ONLINE WORLD STREET MAP, OBTAINED 31 OCTOBER 2023.
2. DWR GROUNDWATER BASINS ARE BASED ON THE BOUNDARIES DEFINED IN CALIFORNIA'S GROUNDWATER BULLETIN 118 - FINAL PRIORITIZATION, DATED FEBRUARY 2019.
3. WELL LOCATIONS ON THIS MAP WERE OBTAINED BY A STATE OF CALIFORNIA LICENSED LAND SURVEYOR DURING A FIELD SURVEY CONDUCTED ON 27 SEPTEMBER 2023.
4. GRIZZLY SLOUGH LOCATION FROM THE CALIFORNIA CONSERVATION EASEMENT DATABASE 2018: WWW.CALANDS.ORG
5. MAJOR STREAM FROM THE UNITED STATES GEOLOGICAL SURVEY NATIONAL HYDROGRAPHY DATASET.

PREPARED BY:

eki environment & water

2001 JUNIPERO SERRA BLVD, SUITE 300
DALY CITY, CA 94014

FIGURE 2 - SITE 23 NEW HOPE ROAD WELL SITE MAP

NOTES

1. THE LINES SHOWN ON THIS MAP ARE APPROXIMATE AND WERE TAKEN FROM SOURCES OF VARIABLE RELIABILITY. A FIELD SURVEY WAS NOT PERFORMED TO ESTABLISH ANY BOUNDARIES, AND THIS MAP SHALL NOT BE RELIED UPON AS SUCH.
2. THE AERIAL PHOTO SHOWN ON THIS MAP MAY BE DISTORTED AND SHALL NOT BE REFERENCED AS A SURVEY GRADE AERIAL PHOTO.
3. THE COORDINATES SHOWN ON THIS MAP WERE OBTAINED BY A STATE OF CALIFORNIA LICENSED LAND SURVEYOR DURING A FIELD SURVEY CONDUCTED ON 27 SEPTEMBER 2023.

PREPARED BY:

eki environment & water

2001 JUNIPERO SERRA BLVD, SUITE 300
DALY CITY, CA 94014

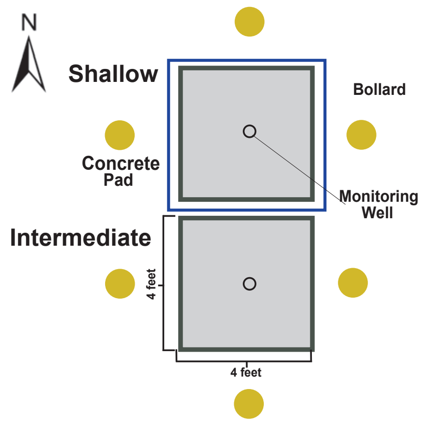
REGISTERED PROFESSIONAL ENGINEER
SAMUEL SCOTT CRONIN
C 92190
CIVIL
STATE OF CALIFORNIA

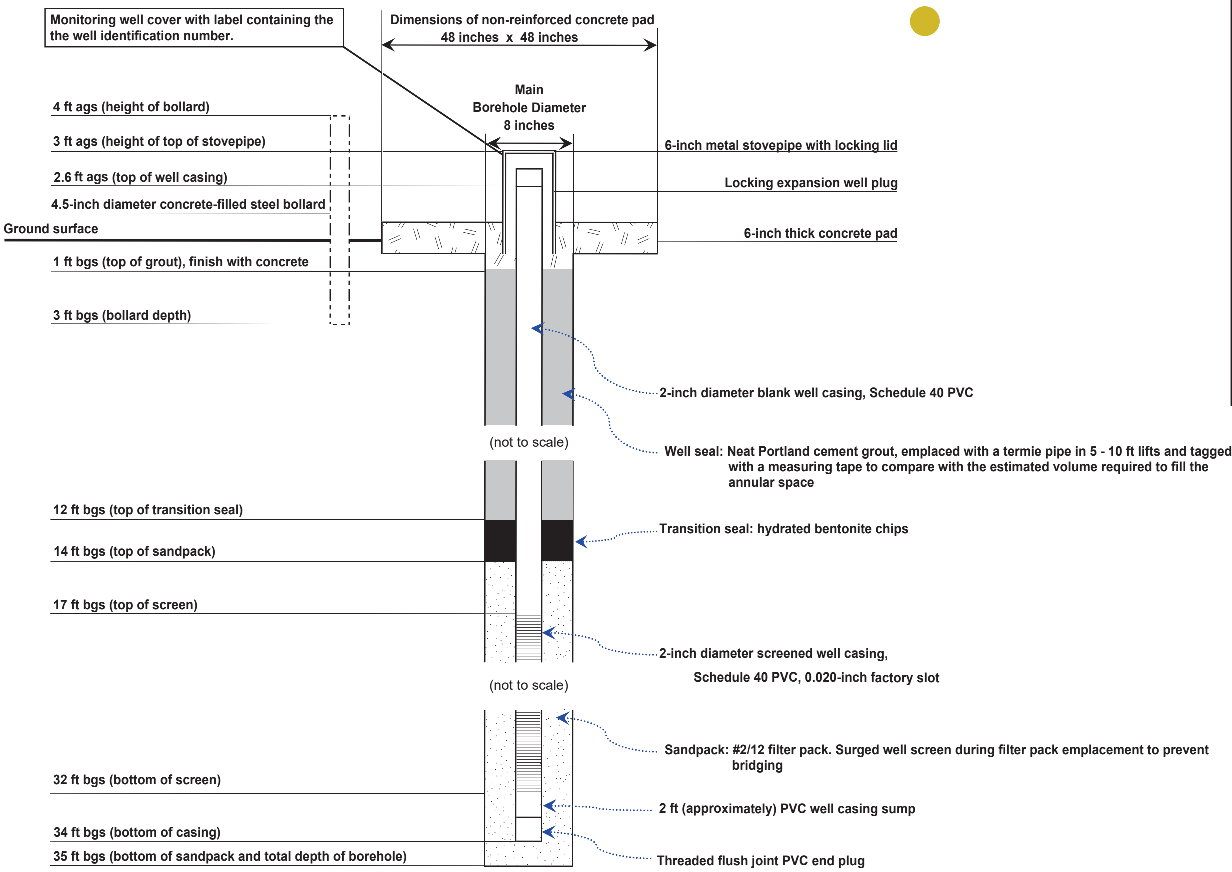
PROFESSIONAL GEOLOGIST
CHRISTINA LUCERO
No. PG 9262
expires: 7/2024
STATE OF CALIFORNIA

Christina Lucero

Figure 3 - Well Construction Schematic for Shallow Monitoring Well GS-S

Project & Job No:	Cosumnes GSP Development (EKI B80081.01 T9)
Location:	New Hope Road Site, Cosumnes Subbasin, Sacramento County, CA
Latitude/Longitude:	38.240161°, -121.410321°
Start/Finish Date(s):	September 19 - 22, 2023
EKI Staff:	JF, KL, ME, AT
Drilling Co:	Cascade Environmental
Driller/Helper(s):	Ignacio, Luis, and Matthew
Drilling Method/Rig:	Hollow Stem Auger
Well Type:	Monitoring





a. A SEVEN (7) DAY ADVANCE NOTIFICATION IS REQUIRED PRIOR TO STARTING WORK WITHIN THE DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY. CONTACT THE DEPARTMENT OF WATER RESOURCES, DIVISION OF ENGINEERING, ENCROACHMENT PERMIT SECTION, SACRAMENTO, CALIFORNIA AT (916) 621-8646. THE DELTA FIELD DIVISION SHALL BE SIMULTANEOUSLY NOTIFIED BY THE PERMIT HOLDER AT (209) 833-2180.

b. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BACKFILL SHALL BE PLACED IN NO GREATER THAN 4-INCH LIFTS IF HAND COMPACTED OR NO GREATER THAN 8-INCH LIFTS IF POWER COMPACTED. TRENCH BACKFILL WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM DI557-12).

c. THE DEPARTMENT'S ONGOING OPERATIONS AND MAINTENANCE ACTIVITIES SHALL NOT BE DISRUPTED DURING CONSTRUCTION. PERMITTEE SHALL MAINTAIN DEPARTMENT'S ACCESS THROUGH THE WORKSITE AT ALL TIMES. (CA Code of Regulations §610.10(b)).

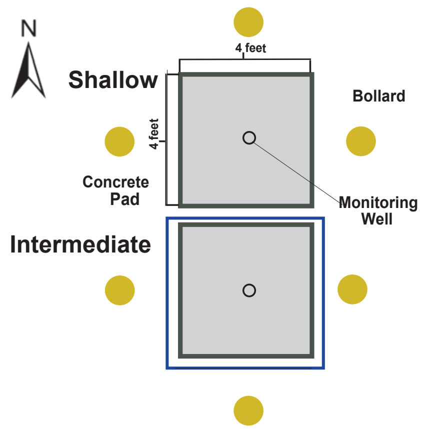
d. PRIOR TO CONSTRUCTION, THE CONDITION OF THE DEPARTMENT'S ROADS, FENCES, AND DEPARTMENT LAND AREAS ADJACENT TO THE PROPOSED PROJECT AREA SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE PERMITTEE AND DEPARTMENT PERSONNEL. UPON COMPLETION OF THE PROPOSED CONSTRUCTION ACTIVITIES, THE CONDITION OF THESE FEATURES SHALL BE JOINTLY RE- INSPECTED. THE PERMITTEE SHALL BE LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORING THESE FEATURES TO PRE-CONSTRUCTION CONDITIONS. (CA Code of Regulations §610.9(c)).

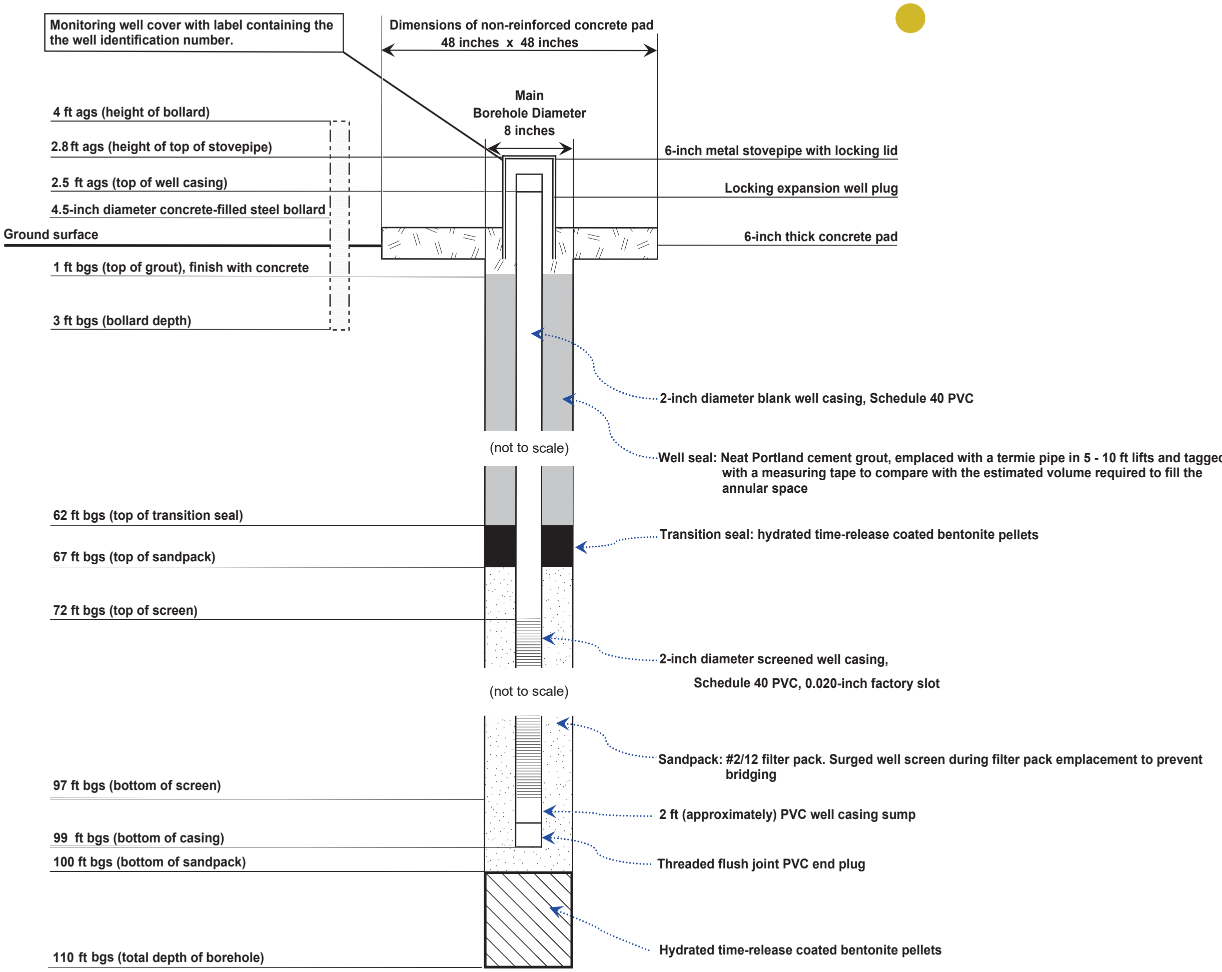
e. STORAGE AND PLACEMENT OF CONSTRUCTION EQUIPMENT AND MATERIALS WITHIN THE DWR RIGHT-OF-WAY IS NOT ALLOWED.

f. DRILLING MUD SHOULD BE HAULED AWAY FROM DWR PROPERTY AT THE END OF WELL CONSTRUCTION.

Figure 4 - Well Construction Schematic for Intermediate Monitoring Well GS-M

Project & Job No:	Cosumnes GSP Development (EKI B80081.01 T9)
Location:	New Hope Road Site, Cosumnes Subbasin, Sacramento County, CA
Latitude/Longitude:	38.240146°, -121.410317°
Start/Finish Date(s):	September 19 - 22, 2023
EKI Staff:	JF, KL, ME, AT
Drilling Co:	Cascade Environmental
Driller/Helper(s):	Ignacio, Luis, and Matthew
Drilling Method/Rig:	Hollow Stem Auger
Well Type:	Monitoring





a. A SEVEN (7) DAY ADVANCE NOTIFICATION IS REQUIRED PRIOR TO STARTING WORK WITHIN THE DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY. CONTACT THE DEPARTMENT OF WATER RESOURCES, DIVISION OF ENGINEERING, ENCROACHMENT PERMIT SECTION, SACRAMENTO, CALIFORNIA AT (916) 621-8646. THE DELTA FIELD DIVISION SHALL BE SIMULTANEOUSLY NOTIFIED BY THE PERMIT HOLDER AT (209) 833-2180.

b. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BACKFILL SHALL BE PLACED IN NO GREATER THAN 4-INCH LIFTS IF HAND COMPACTED OR NO GREATER THAN 8-INCH LIFTS IF POWER COMPACTED. TRENCH BACKFILL WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM DI557-12).

c. THE DEPARTMENT'S ONGOING OPERATIONS AND MAINTENANCE ACTIVITIES SHALL NOT BE DISRUPTED DURING CONSTRUCTION. PERMITTEE SHALL MAINTAIN DEPARTMENT'S ACCESS THROUGH THE WORKSITE AT ALL TIMES. (CA Code of Regulations §610.10(b)).

d. PRIOR TO CONSTRUCTION, THE CONDITION OF THE DEPARTMENT'S ROADS, FENCES, AND DEPARTMENT LAND AREAS ADJACENT TO THE PROPOSED PROJECT AREA SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE PERMITTEE AND DEPARTMENT PERSONNEL. UPON COMPLETION OF THE PROPOSED CONSTRUCTION ACTIVITIES, THE CONDITION OF THESE FEATURES SHALL BE JOINTLY RE- INSPECTED. THE PERMITTEE SHALL BE LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORING THESE FEATURES TO PRE-CONSTRUCTION CONDITIONS. (CA Code of Regulations §610.9(c)).

e. STORAGE AND PLACEMENT OF CONSTRUCTION EQUIPMENT AND MATERIALS WITHIN THE DWR RIGHT-OF-WAY IS NOT ALLOWED.

f. DRILLING MUD SHOULD BE HAULED AWAY FROM DWR PROPERTY AT THE END OF WELL CONSTRUCTION.

APPENDIX A

Encroachment and Drilling Permits – Department of Water Resources and County of Sacramento

ENCROACHMENT PERMIT

TO: Sacramento County DWR
PERMITTEE

ATTN: Chris Hunley
827 7th Street
Sacramento, CA 95814

PHONE: (916) 874-1085

PERMIT NO.: 1965	
DIVISION: North San Joaquin	Milepost: n/a
COUNTY: Sacramento	Right of Way Map No.: 34-03
FIELD DIVISION: Delta	
PARCEL(S): ND-0012	

In compliance with your application dated July 20, 2021, and subject to the following, PERMISSION IS HEREBY GRANTED by the Department of Water Resources, **DWR**, for:

The installation of three (3) monitoring wells near the center gate at DWR's Grizzly Slough property at New Hope Road in the city of Galt, Sacramento County.

As shown on and constructed pursuant to the following described plan drawings, which are attached to and made a part of this Encroachment Permit:

- Well Construction Schematic for: Site 23 – Proposed deep monitoring well
- Well Construction Schematic for: Site 23 – Proposed intermediate monitoring well
- Well Construction Schematic for: Site 23 – Proposed shallow monitoring well

This permit is subject to California Code of Regulations, Title 23, Division 2, Chapter 6 Encroachments, Articles 1 – 10, §600-635 (Regulations).

NOTICE PRIOR TO STARTING WORK: Pursuant to Regulations §610.9, provide notice at least seven (7) days prior to starting work to:

Delia Grijalva, Senior Right of Way Agent
Department of Water Resources
Division of Engineering
Real Estate Branch
(800)0600-4397

and
Delta Field Division
(209) 833-2180

and
Sacramento Project Headquarters
(916) 376-9898

CERTIFICATE OF INSURANCE (Pursuant to Regulations §610.7):

☐ Is not required ☒ Is required ☒ During construction ☐ Continuously until permit is canceled or revoked

THE FOLLOWING ATTACHMENTS ARE INCLUDED AS PART OF THIS PERMIT: (Check applicable)

☒ Yes ☐ No Permit drawings listed above
☒ Yes ☐ No Special Provisions (DWR 33B)

DWR issued environmental clearance for the permitted work on January 5, 2023. This clearance does not alleviate Permittee's responsibilities relative to any environmental law. It is Permittee's legal responsibility to have all environmental permits/approval required to complete the project *prior to the initiation of construction*. Failure to comply with the requirements of CEQA, the State or federal Endangered Species Act, or any regulatory agency will void this clearance. **Environmental clearance expires one year from date of issue**. Permittee shall request an extension of this environmental clearance from State sixty (60) days prior to the expiration date if permitted work will not be completed by the expiration date.
This permit is void unless the work is commenced before January 5, 2024.
This permit is to be strictly construed, and no other work other than specifically mentioned is hereby authorized.

Accepted:	**Approved:** State of California Department of Water Resources
PERMITTEE: Sacramento County DWR	
By: ______________________ Chris Hunley, Groundwater Sustainability Manager	______________________ Sergio Escobar, Acting Manager Division of Engineering
Date: ______________________	Issued Date: ______________________

SPECIAL PROVISIONS

Encroachment Permit No. 1965

1. In the event of a spill or other incident within DWR's right of way, the DWR Delta Field Division Area Control Center shall be contacted immediately at (209) 833-2180.

2. Should any of the project plans be modified to include work that will disturb the ground surface in areas not reviewed by EP 1965's submittal, additional studies will be required. DWR may require further studies for EP 1965 depending on changing conditions and may include additional review time. If cultural resources are uncovered while engaging in construction activities, all work will temporarily cease until the findings can be assessed by a qualified archaeologist and an appropriate course of action can be determined. Should human remains be uncovered, all work must stop immediately, and the County coroner must be contact pursuant to California Health and Safety Code 7050.5(b).

MONITORING WELL &
SOIL BORING APPLICATION & PERMIT

ENVIRONMENTAL MANAGEMENT DEPARTMENT (EMD) – ENVIRONMENTAL COMPLIANCE DIVISION
11080 WHITE ROCK ROAD • SUITE 200 • RANCHO CORDOVA, CA 95670
TELEPHONE (916) 875-8400 FAX: (916) 875-8513 EMAIL: wells@saccounty.net

WELL INSPECTION LINE: (916) 875-8524

Is this permit related to a hazardous substance investigation? ___ *Yes* x__ *No*

BILL TO WP 64244

FOR OFFICE USE ONLY		
EMD PERMIT NUMBER(S): **WP 64244 & 64252**	**DATE APPLICATION APPROVED:** 9/13/23	***(EXPIRES 1-YR FROM DATE OF APPROVAL)***

WELL APPLICATION

Project Site Address: Department of Water Resources , Grizzly Sough Property. 8101 New Hope Road, Galt, Ca, 95632	Well Location (Attach Table for Multiple Addresses):	
Nearest Major Cross Street(s):Kost Rd.	Parcel Number (Attach Table for Multiple Parcels):146-0140-021	
Property Owner Name: County Of Sacramento	Property Owner Phone Number: 916-875-5296 Property Owner Email:	
Well Drilling Contractor: Cascade Drilling	Mailing Address: 3000 Duluth St. West Sacramento, Ca , 95691	Phone Number: 916-638-1169 Email:dking@cascade-env.com
Contractor's CSLB License No.: 1058336	Expiration Date: 9/30/23 9/30/25 OK LBC	
Well/Boring Identification Number(s):n/a GS-M & GS-S		

WELL/BORING INFORMATION

INTENDED USE: ☐ Exploratory Boring (PE4942) x☐ Water/Vapor Monitoring and Extraction (PE4940) ☐ Permanent Dewatering (PE4940)

DRILLING METHOD:	☐ Mud Rotary	☐ Air Rotary	☐ Cable Tool	☐ Auger – Hollow Stem	☐ Auger – Solid Flight	☐ Driven	☐ Other:Sonic

PROPOSED SPECIFICATIONS

Borehole ID / Total Depth	Diameter	Casing Material	Annular Sealing Material	Transition Material	Filter Pack Material	Screened Interval
Borehole ID ***GS-M*** Total Depth: 100 ft	Diameter: 2" in	Casing Material: Sch 40 pvc ; ____ Gauge (if Steel)	Annular Sealing Material: Bentonite Grout and Depth:0 ft to 62 ft	Transition Material: Bentonite Chips and Depth:62 ft to 67 ft	Filter Pack Material: ____ and Depth: 67 ft to100 ft	Screened Interval: ____ and Depth: 72 ft to97 ft
Borehole ID ***GS-S*** Total Depth: 40 ft	Diameter: 2" in	Casing Material: Sch 40 pvc ; ____ Gauge (if Steel)	Annular Sealing Material: Bentonite Grout and Depth:0 ft to12 ft	Transition Material: ____ and Depth: 12 ft to 17 ft	Filter Pack Material: ____ and Depth:17 ft to 40 ft	Screened Interval: ____ and Depth: 22 ft to 37ft
Borehole ID ____ Total Depth: ____ ft	Diameter: ____ in	Casing Material: ____ ; ____ Gauge (if Steel)	Annular Sealing Material: ____ and Depth:____ ft to ____ ft	Transition Material: ____ and Depth:____ ft to ____ ftt	Filter Pack Material: ____ and Depth:____ ft to____ ft	Screened Interval: ____ and Depth:____ ft to____ ft

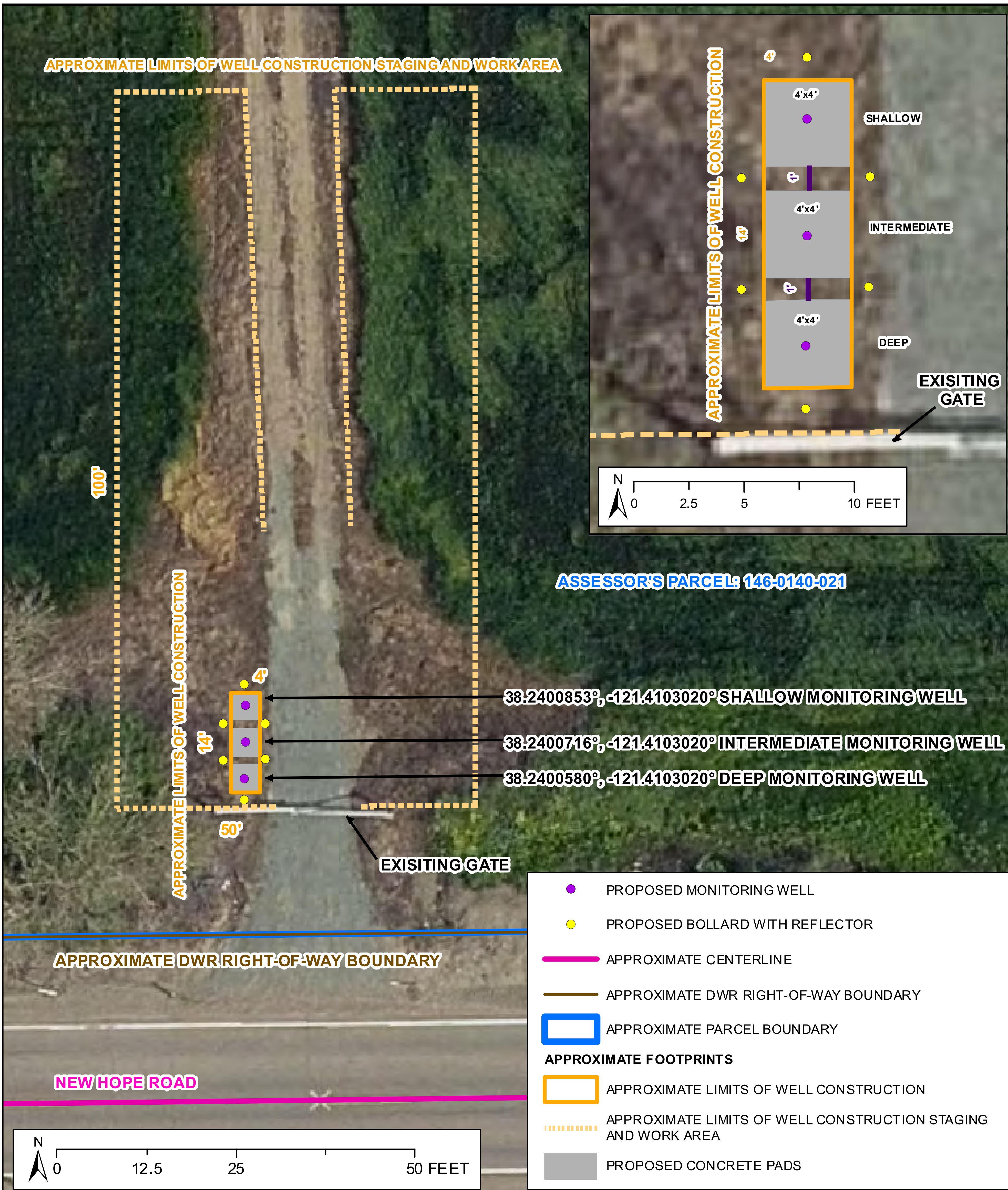
APPLICANT INFORMATION

I understand and agree that all work associated with this permit is required to be done in accordance with Sacramento County Code Chapter 6.28 (Well Ordinance), California Department of Water Resources Well Standards, and the conditions of this permit. I understand that permitting and inspection time in excess of the original fee amount will be billed to the applicant - As authorized by SCC 6.99.180**.** I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid. Each page of this document has been reviewed and is complete and correct. I understand that it is my responsibility to notify the well owner of their responsibility to provide EMD with property access for a final well inspection. **An Authorization Letter is required if an Agent is submitting this application on behalf of the well owner or well driller**.

Applicant Name Dustin King	Applicant Signature: Dustin King	Date: 9-6-23
Applicant's Company Name: Cascade Drilling	Applicant's Office and Cell Numbers: 916-638-1169 / 530-713-8783	Applicant's Email Address: dking@cascade-env.com
Applicant's Mailing Address: 3000 Duluth St, West Sacramento, Ca , 95691		

Applicant is the: ☐ Agent **(Requires Authorization Form)** ☐ Property Owner X Well Contractor OK LBC

IMPORTANT: GIVE AT LEAST 24-HOUR NOTICE TO THE EMD WELL INSPECTION LINE WHEN SCHEDULING YOUR INSPECTION.



SITE 23 NEW HOPE ROAD WELL SITE MAP

NOTES

1. THE LINES SHOWN ON THIS MAP ARE APPROXIMATE AND WERE TAKEN FROM SOURCES OF VARIABLE RELIABILITY. A FIELD SURVEY WAS NOT PERFORMED TO ESTABLISH ANY BOUNDARIES, AND THIS MAP SHALL NOT BE RELIED UPON AS SUCH.
2. THE AERIAL PHOTO SHOWN ON THIS MAP MAY BE DISTORTED AND SHALL NOT BE REFERENCED AS A SURVEY GRADE AERIAL PHOTO.
3. THE COORDINATES SHOWN ON THIS MAP WERE OBTAINED FROM GOOGLE EARTH, ARE APPROXIMATE, AND ARE NOT FROM A FIELD SURVEY.
4. THE PROPOSED MONITORING WELL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD TO ALLOW FOR CONSTRUCTION ACCESS AND PLACEMENT OF THE WELLS. THE WELL COORDINATES MAY BE REVISED AFTER CONSTRUCTION.

PREPARED BY:

eki environment & water

2001 JUNIPERO SERRA BLVD, SUITE 300
DALY CITY, CA 94014

GENERAL WELL PERMIT REQUIREMENTS (SEE SACRAMENTO COUNTY CODE (SCC) CHAPTER 6.28 FOR DETAILED LOCAL WELL REQUIREMENTS)	
1	**The annular seal's minimum borehole size must be at least 4 inches greater in diameter than the outside diameter of the well casing** and any other pipe(s) in the borehole. This borehole will be drilled to the minimum annular seal depth [SCC 6.28.040(A)(2)(e)].
2	**The minimum annular seal depth requirement is 50 feet below ground surface concurrently anchored in an impervious soil layer. At time of inspection,** the applicant is required to provide a soil log demonstrating the annular seal is anchored in an impervious soil layer and to physically measure the annular seal depth [SCC 6.28.040(A)(2)(a)]. Deeper seals may be required in certain conditions, such as if the following setbacks are not met: A. **50 feet away** from any sewer line, stream/ditch/drainage course, pond or lake, or public water supply well; B. **100 feet away** from a septic tank, leach lines, deep leach trench; animal or fowl enclosure; and C. **150 feet away** from a septic leaching pit or hazardous materials tank [SCC 6.28.040(A)(1)(a)]. **EMD REQUIRED SEAL DEPTH:____________________**
3	**An EMD inspection is required for sealing material placement. Contact (916) 875-8524 to request an inspection; a minimum of 24-hours' notice is required** [SCC 6.28.90]**.**
4	**EMD APPROVED ANNULAR SEALING MATERIALS** **Neat cement** will be mixed at a ratio of one ninety-four (94) pound sack of Portland cement to 5 to 6 gallons of clean water. Additional water may be required where special additives, such as bentonite, accelerators, or retardants are used. **Sand cement** will be mixed at ratio of not more than one hundred eighty-eight (188) pounds of sand to one ninety-four (94) pound sack of Portland cement (2 parts sand to 1 part cement, by weight) and about 7 gallons of clean water. This is equivalent to a "10.3 sack mix." Less water shall be used if less sand than 2 parts sand per 1 part cement by weight is used. Additional water may be required when special additives, such as bentonite, accelerants, or retardants are used. **Concrete** will consist of Portland cement and aggregate mixed at a ratio of at least 6 ninety-four (94) pound sacks of Portland cement per cubic yard of aggregate. The size of the aggregate must be less than 1/5th the radial thickness of the annular seal. **Bentonite clay** may only be used with prior EMD approval. Bentonite shall be commercially prepared, powdered, granular, pelletized or chipped sodium montmorillonite clay. The size of pellets or chips must be less than 1/5th the radial thickness of the annular space. Bentonite slurries are not approved [SCC 6.28.040(A)(2)(d)]. **EMD staff will reject any sealing materials during inspection that do not meet standard.**
5	**Transition seal materials** can be up to 5 feet in length, consist of bentonite or fine sand, and must be placed in the annular space using a tremie device or equivalent to separate filter pack and cement-based sealing materials. If bentonite is used and the interval to be sealed is dry, water shall be added to the transition seal and allowed to set for at least two hours before placement of cement-based sealing material [SCC 6.28.040(A)(2)(f)].
6	All casing material must meet the size and material standards listed in 6.28.040(A)(5).
7	**Centralizers** shall be equipped on the production casing to ensure the 2-inch minimum radial thickness of the annular space is maintained, unless otherwise approved by EMD [SCC 6.28.040(A)(2)(f)].
8	**Temporary** conductor casing shall be withdrawn as sealing material is placed between the well casing and borehole wall, be placed at least to the minimum annular seal depth, and kept at a sufficient height above the bottom of the temporary conductor casing as it is withdrawn. If a **permanent** conductor casing is installed, an oversized hole, at least 4 inches greater in diameter than the outside surface of the permanent conductor casing shall be drilled to the bottom of the conductor casing or to at least the minimum annular seal depth and the annular space between the conductor casing and the borehole wall shall be filled with sealing material. A welded cover shall be installed over the top in the space between the conductor casing and the well casing (see Bulletin 74-81, page 33, Figure 5B) [SCC 6.28.040(A)(2)(c)].
9	**Proper Disposal of Drilling Fluids and Soil Cuttings.** The applicant is required to see that safe and appropriate measures are taken in the handling and disposal of drilling fluids, soil cuttings, and other materials used or generated in connection with the permitted work. All drilling wastes must be controlled so as not to create conditions that violate applicable local, State and Federal regulations [SCC 6.28.030(E)(2)].
10	**Mud pits** created to confine drilling fluids shall be maintained during the well drilling operation so as not to be a nuisance. It shall be the applicant's responsibility to see that the mud pit is properly evacuated and backfilled upon completion of the job [SCC 6.28.030(E)(3)].
11	**The well casing, vent, electrical box, and water storage tank must extend above ground surface or the base flood elevation, whichever is higher** (private water well: at least 12 inches above; municipal water well: at least 18 inches above) [SCC 6.28.040(A)(3)]. **MIN. CASING HEIGHT:___________**
12	**The well cannot encroach on any easement** (information available through the County Assessor's Office) [SCC 6.28.030(A)(1)].
13	**Gravel used in gravel-packed wells** shall come from clean sources, be thoroughly washed before placement into the well, and disinfectants will be added to the gravel at a uniform rate [SCC 6.28.040(A)(4)].
14	**This permit may be revoked if the well is not in compliance with regulatory standards.** Permittee and well owner agree to construct, operate, and maintain the well according to all applicable requirements listed in the Sacramento County Code and the California State Department of Water Resources (DWR) Well Standards [SCC 6.28.120(C)].
15	**This permit is only valid for approved well-related work listed on the application.** Well construction methods (e.g. drilling methods, annular sealing material, well depth, etc.) authorized under this permit may not be changed except by written approval of an authorized EMD representative and only if EMD believes that such a change will result in equal or superior compliance with the County and DWR Well Standards (e.g. if the EMD representative finds that site conditions warrant such a change) [SCC 6.28.120(C)].
16	**This permit is only valid for the Assessor's Parcel Number listed on the application** [SCC 6.28.120(B)(2)].
17	The permittee will notify EMD **within 5 days of well work completion** [SCC 6.28.090(C)].
18	The applicant shall submit a Well Completion Report (WCR) to EMD **within 60 days of work completion** [SCC 6.28.110(A)].
19	**Well owner required to provide property access to EMD for final inspection**; well cannot be put into service until final inspection completed [SCC 6.28.090(C)].
20	**Permittee shall maintain a copy of the permit at the work site during all stages of permitted activities** [6.28.030(E)(5)]**.**

SPECIAL PERMIT CONDITIONS ☒ **Yes** ☐ **No**

	ENSURE SURFACE COMPLETIONS COMPLY WITH WELL ORDINANCE.

WELL PERMIT FORM – FOR OFFICE USE ONLY

PERMIT NUMBER(S): WP 64244 & 64252 BILL TO WP 64244

ACCOUNTING

Date Received: 9/8/23 Total Fees: $1,030

Account Number: 70125 Invoice Number: 604323

APPLICATION APPROVAL: Date: 9/13/23 By: DVA Comments:

INITIAL SITE INSPECTION: Date: By: Comments:

ANNULAR SEAL INSPECTION: Date: By: Comments:

Depth to water: Seal depth:

Sealing material: Seal anchored in impervious soil layer:

Casing depth: Total depth:

Property owner provided verbal access approval for well final inspection:

FINAL INSPECTION: Date: By: Comments:

Casing height above ground surface:

Standards/conditions met:

GPS Coordinates: N: 38. W: -121.

WELL COMPLETION REPORT: Date: Comments:

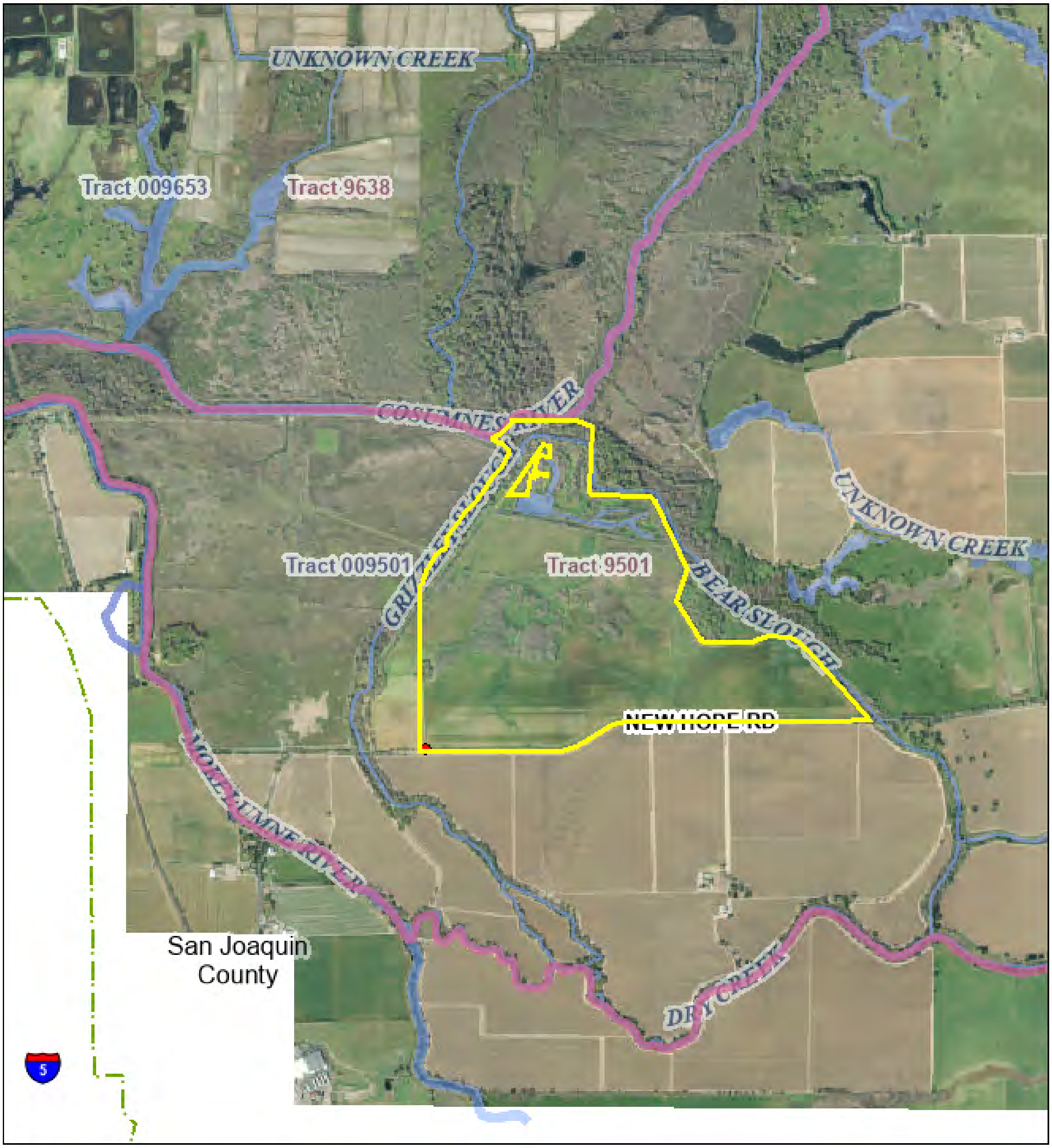
COMMENTS:

W:\Data\WELLS\PROGRAM MANAGEMENT\PERMIT APPLICATIONS\PERMIT APPLICATIONS 2020\07B MW AND SOIL BORING APPLICATION AND PERMIT FORM\07B MW AND SOIL BORING WELL APPLICATION AND PERMIT FORM - 10.21.19.docx

SACRAMENTO COUNTY

APN: 14601400210000

Print date: 9/13/2023



1" = 2383'

N

Information for Parcel: 146-0140-021-0000

PROPERTY INFORMATION

Assessor Parcel #	14601400210000
Situs Address	8101 NEW HOPE RD
Postal City/Zip	GALT 95632
Jurisdiction	UNINCORPORATED
Assessor Roll Status	ACTIVE
Parcel Type	LND

OWNER INFORMATION

Owner	STATE OF CALIFORNIA
Care Of	DEPT WATER RESOURC
Mailing Address	PO BOX 388 SACRAMENTO, CA 95812
Recorded Document	19920820: Unrecorded Assessor Scratch Document
Document Type	GRANT DEED/CORP. DEED/GIFT DEED/JNT TEN DEED
Event Date	1992-08-20
Owner Code	10-Govt owned prop within jurisdictional boundary
About this data	**Data Field Descriptions**

PARCEL NOTES

No Parcel Notes are available for this parcel.

COUNTY EASEMENTS/CONVEYANCES

No easements are available for this parcel.

Doc.#	Type	Dept.	Recorded Date	FileNet
No data available				

*The easements shown here are those easements known to Sacramento County Real Estate. Many easements from filed maps, easements between non-County entities and many non-recorded easements are not listed.

NON-COUNTY EASEMENTS/CONVEYANCES

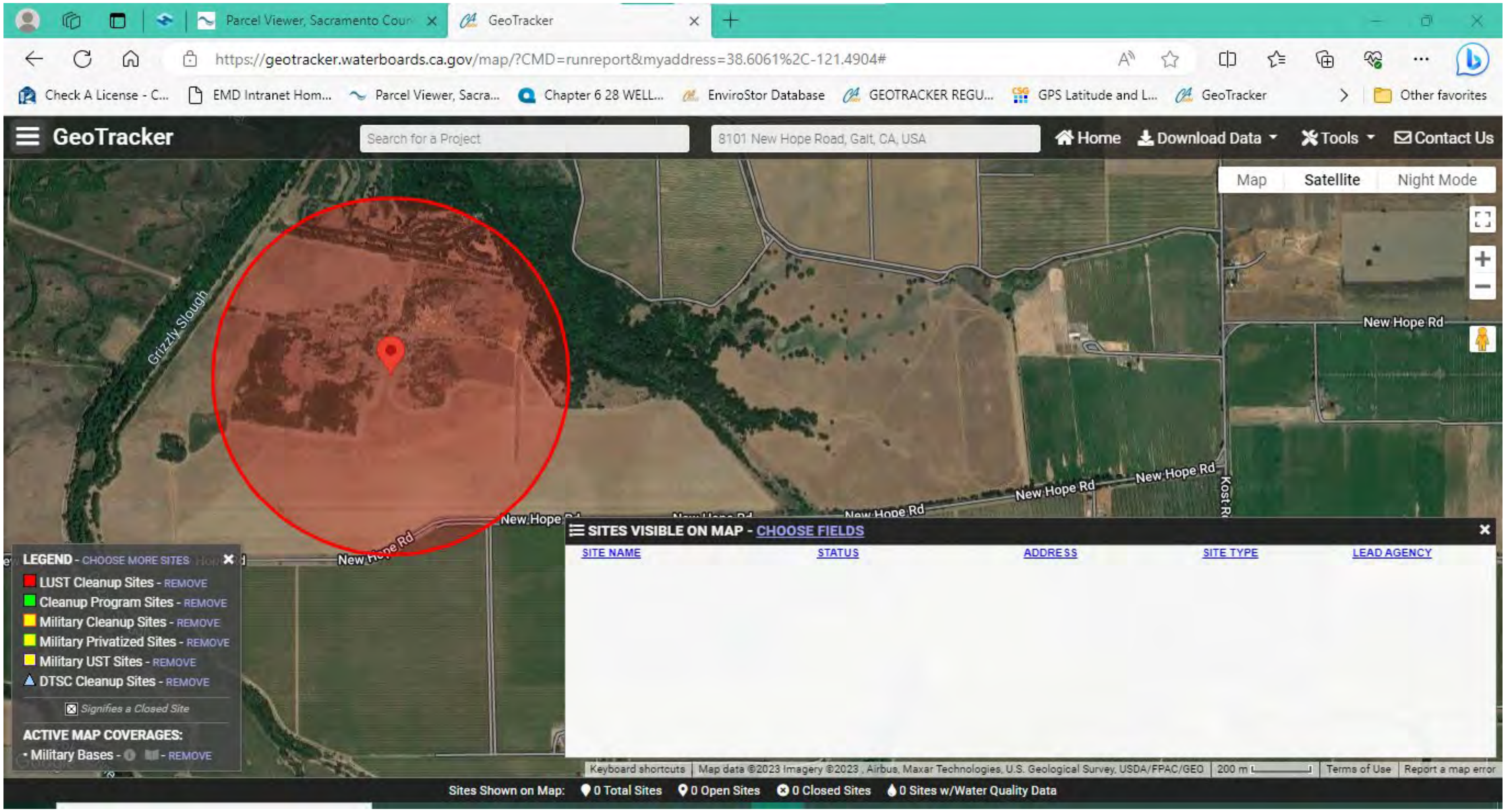
No non-County easements are available for this parcel.

FEMA FLOOD ZONE

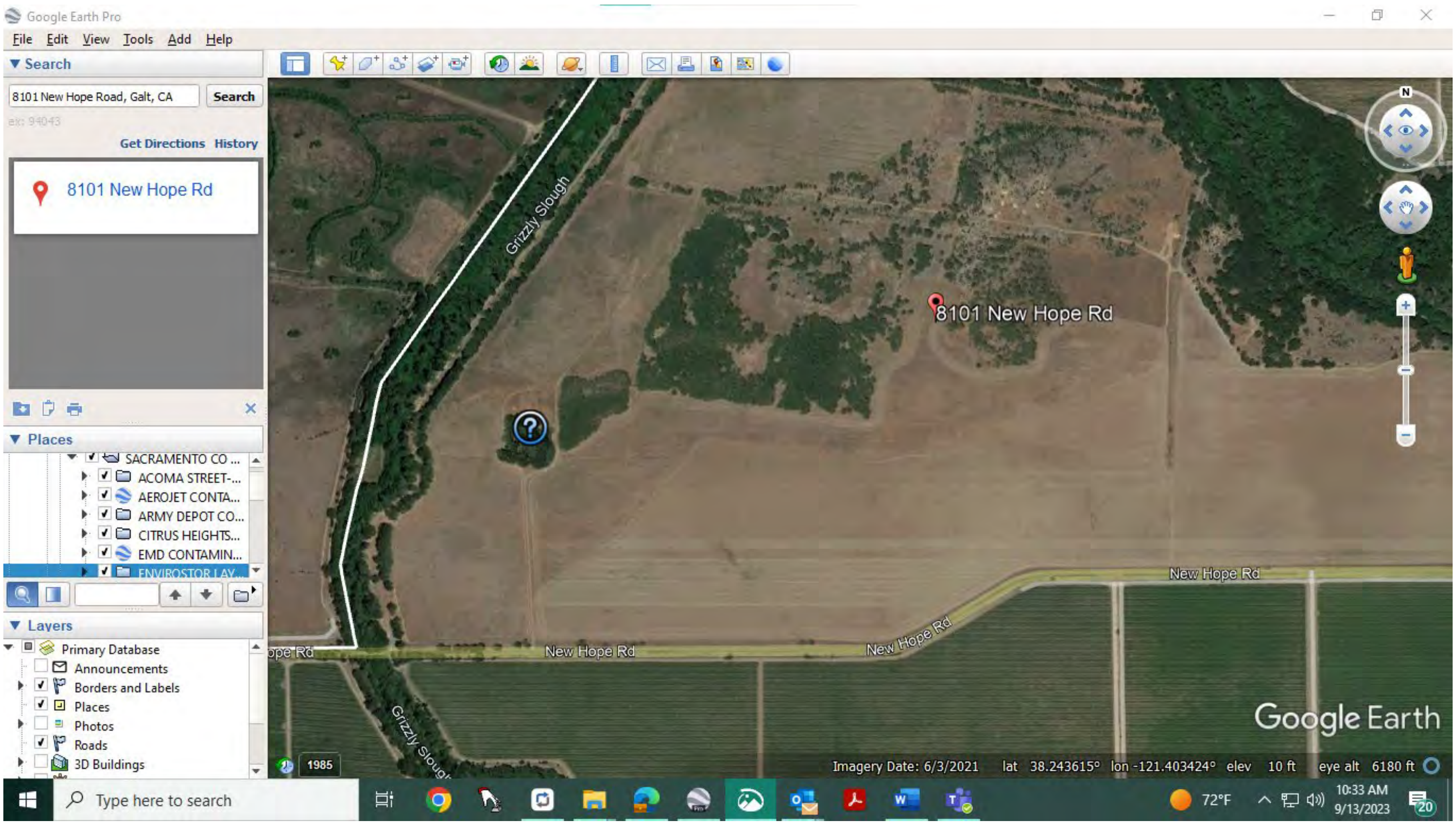
FEMA Flood Zone:	A

EMD

Septic Test Drill Requirements:	No Test Drill Required



Parcel Viewer, Sacramento Coun
GeoTracker
https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=38.6061%2C-121.4904#
Check A License - C...
EMD Intranet Hom...
Parcel Viewer, Sacra...
Chapter 6 28 WELL...
EnviroStor Database
GEOTRACKER REGU...
GPS Latitude and L...
GeoTracker
Other favorites
GeoTracker
Search for a Project
8101 New Hope Road, Galt, CA, USA
Home
Download Data
Tools
Contact Us
Map
Satellite
Night Mode
Grizzly Slough
New Hope Rd
Kost Rd
SITES VISIBLE ON MAP - CHOOSE FIELDS
SITE NAME
STATUS
ADDRESS
SITE TYPE
LEAD AGENCY
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites - REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites - REMOVE
Military UST Sites - REMOVE
DTSC Cleanup Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
- Military Bases - REMOVE
Keyboard shortcuts
Map data ©2023 Imagery ©2023 , Airbus, Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO
200 m
Terms of Use
Report a map error
Sites Shown on Map:
0 Total Sites
0 Open Sites
0 Closed Sites
0 Sites w/Water Quality Data


Google Earth Pro
File Edit View Tools Add Help
Search
8101 New Hope Road, Galt, CA
Search
Get Directions History
8101 New Hope Rd
Places
SACRAMENTO CO ...
ACOMA STREET-...
AEROJET CONTA...
ARMY DEPOT CO...
CITRUS HEIGHTS...
EMD CONTAMIN...
Layers
Primary Database
Announcements
Borders and Labels
Places
Photos
Roads
3D Buildings
Grizzly Slough
8101 New Hope Rd
New Hope Rd
Google Earth
1985
Imagery Date: 6/3/2021 lat 38.243615° lon -121.403424° elev 10 ft eye alt 6180 ft
Type here to search
72°F
10:33 AM
9/13/2023

Home CONTRACTORS STATE LICENSE BOARD

Contractor's License Detail for License # 1058336

DISCLAIMER: A license status check provides information taken from the CSLB license database. Before relying on this information, you should be aware of the following limitations.

- CSLB complaint disclosure is restricted by law (B&P 7124.6) If this entity is subject to public complaint disclosure click on link that will appear below for more information. Click here for a definition of disclosable actions.
- Only construction related civil judgments reported to CSLB are disclosed (B&P 7071.17).
- Arbitrations are not listed unless the contractor fails to comply with the terms.
- Due to workload, there may be relevant information that has not yet been entered into the board's license database.

Data current as of 8/15/2023 1:27:26 PM

Business Information

CASCADE DRILLING LP
P O BOX 1184
WOODINVILLE, WA 98072
Business Phone Number:(425) 527-9700

Entity	Partnership
Issue Date	09/19/2019
Expire Date	**09/30/2025**

License Status

This license is current and active.

All information below should be reviewed.

Classifications

- A - GENERAL ENGINEERING
- C57 - WELL DRILLING

Certifications

- HAZ - HAZARDOUS SUBSTANCES REMOVAL

Bonding Information

Contractor's Bond

This license filed a Contractor's Bond with ATLANTIC SPECIALTY INSURANCE COMPANY.
Bond Number: 800041562
Bond Amount: $25,000
Effective Date: 01/01/2023
Contractor's Bond History

Bond of Qualifying Individual

This license filed Bond of Qualifying Individual number **800134307** for CHRISTOPHER VARGAS in the amount of **$25,000** with ATLANTIC SPECIALTY INSURANCE COMPANY.
Effective Date: 01/01/2023
BQI's Bond History

Workers' Compensation

This license has workers compensation insurance with the ACE AMERICAN INSURANCE COMPANY
Policy Number:WLRC68931800
Effective Date: 11/01/2022
Expire Date: 11/01/2023
Workers' Compensation History

Contractor's License Detail (Personnel List)

Contractor License #	1058336
Contractor Name	CASCADE DRILLING LP

Click on the person's name to see a more detailed page of information on that person

Licenses Currently Associated With

Name	CHRISTOPHER VARGAS
Title	RME
Association Date	06/23/2022
Classification	C57
Additional Classification	There are additional classifications that can be viewed by selecting this link.
Name	CASCADE GP HOLDINGS LLC
Title	GENERAL PARTNER
Association Date	09/19/2019
Name	CASCADE ENVIROMENTAL LLC
Title	LIMITED PARTNER
Association Date	09/19/2019

Licenses No Longer Associated With

Name	DONALD LEE WINGLEWICH
Title	RME
Association Date	09/19/2019
Disassociation Date	02/23/2023
Classification	A
Additional Classification	There are additional classifications that can be viewed by selecting this link.

C-57 LICENSE SIGNATURE AUTHORITY

COMPANY	LICENSE	RMO/RME/OFFICER	DATE	AUTHORIZED SIGNATURES
Acampo Pump (West Coast Sign & Electric, Inc. dba Acampo Pump)	739938	Kenneth L. Carter	7/13/2011	Robert Baker, Tammy Baker
~~Advanced Geo-Environmental~~	~~680227~~ 4-20-20: Cancelled	~~Joshua Ong~~ Bob Marty	~~7/7/2005~~	~~Bill Little, Gary Dickenson, Jeremiah Puget, Eyrene Fisher, Calvin Lee, Tim~~ Cuellar, Dan Kalmbach, Donna Sexton, and Jo'l Chapman, Daniel Villanueva (added 06-22-15 by Bob Marty)
AdancedGeo Inc.	1063765	Robert Marty	3/2/2021	Bob Marty, Tim Cuellar, Daniel Villanueva, Evan Schmidt
American Construction & Supply	310599	Stephen McKim	10/21/2021	Mathew Hopkiins
Baker Wells & Pumps (see Water Pumps & Motors)				
Blaine Tech Services Inc.	746684	Francis Thie	9/15/2005	Jason Brown
Calwater Drilling	434218	Curtis Hennings	7/9/2020	Patrick Gruenbacher
Cardno ERI (Environmental Resolutions Inc.)	611383	Joseph E. O'Connell	12/7/2015	Matt Herman, David Daniels, James Chappell
Cascade Drilling LP	1058336	Christopher Vargas	6/14/2023	Dustin King, Nick Patrone, Matthew Tolbert, Tony Jaramillo
~~Cascade Drilling LP~~	~~1058336~~	~~Don Winglewich~~ No longer assoc ~~w/company (as of~~ 2/23/23)	~~9/30/2019~~	~~Kenneth B. Cook, Dustin King, Derek Walker, Jim Whitley, Christopher Tatum,~~ Nick Petrone (added 6/12/20), ~~Chris Pruner (added 7/21/20)~~, Tory Salazar ~~(added 7/23/21), Matthew Tolbert (added 3/30/22), Richard Alcartado~~ (added 9/12/22)
~~Cascade Drilling, L.P.~~	~~938110~~ EXPIRED	~~Donald Winglewich~~	~~1/7/2013~~	~~Ralph McGahey; Kenneth Cook, Thomas Moreland, James Whitley (added~~ 3/1/17), Christopher Tatum (added 8/30/18)
Clear Heart Drilling	780357	Gary Soden	12/21/2010	Terri White, Pat Olson (added 4/24/17)
Clear Heart Drilling	780357	Gina Pearson	4/6/2021	Amber Pearson
Confluence Environmental	913194	Jason Brown	6/8/2020	Ralph McGahey.
David A. Lawrence Inc.	539447	Bryan Gartner	8/27/2004	Jason Schroeder
Davis Machine Shop	776953	Thomas Davis	9/22/2011	Otto Koomans
Diamond Well Drilling	970862	Arthur Fulton	8/10/2015	Greg Powell
Dr. Well, Water Well Svcs	967790	David Schwedler	5/2/2018	Jennifer Muschetto

From:	Nick Petrone
To:	Wells. EMD; Kristyn Lindhart; John Fio
Cc:	Dustin King; Rick Alcartado; Adam Tolan; Von Aspern. David
Subject:	RE: Site RMW-WL23 Herald - Cascade Proposal #64776 Revised 8-4-23 - PERMIT APPLICATION
Date:	Wednesday, September 6, 2023 9:21:34 AM

Good morning Lisa,

Please see attached for our revised permit application with well names along with the site map,

Please let me know if you need anything else from me,

Thank you!

NICK PETRONE PROJECT MANAGER

CASCADE | 3000 Duluth St, West Sacramento CA 95691
P 916-638-1169 M 530-565-9453 | NAPETRONE@CASCADE-ENV.COM

EXCELLENCE ON EVERY LEVEL™ WWW.CASCADE-ENV.COM
C57 1058336 EXP 9/30/2023

-

From: Christy. Lisa <ChristyL@saccounty.gov> **On Behalf Of** Wells. EMD
Sent: Tuesday, September 5, 2023 1:20 PM
To: Nick Petrone <napetrone@cascade-env.com>; Kristyn Lindhart <klindhart@ekiconsult.com>; John Fio <jfio@ekiconsult.com>
Cc: Dustin King <dking@cascade-env.com>; Rick Alcartado <ralcartado@cascade-env.com>; Adam Tolan <atolan@ekiconsult.com>; Von Aspern. David <VonAspernD@saccounty.gov>
Subject: RE: Site RMW-WL23 Herald - Cascade Proposal #64776 Revised 8-4-23 - PERMIT APPLICATION

Hi Nick,

Is the permit for three MWs and what are you naming them? Also, please provide another copy of your site map. The one submitted got cut off & is hard to decipher.

We will create an invoice & forward payment instructions for the $1,030 permit fee.

Thank you.

Lisa Christy
Environmental Compliance Technician
Environmental Management Department (EMD)
wells@saccounty.gov

From: Nick Petrone <napetrone@cascade-env.com>
Sent: Tuesday, September 5, 2023 12:20 PM
To: Kristyn Lindhart <klindhart@ekiconsult.com>; John Fio <jfio@ekiconsult.com>; Wells. EMD <Wells@saccounty.gov>
Cc: Dustin King <dking@cascade-env.com>; Rick Alcartado <ralcartado@cascade-env.com>; Adam Tolan <atolan@ekiconsult.com>
Subject: RE: Site RMW-WL23 Herald - Cascade Proposal #64776 Revised 8-4-23 - PERMIT APPLICATION

Good afternoon,

Please see attached permit application for our upcoming drilling event in Galt, Ca starting 9-18-23,

Please let me know if you need anything else from me regarding our permit,

Thank you!

NICK PETRONE PROJECT MANAGER
CASCADE | 3000 Duluth St, West Sacramento CA 95691
P 916-638-1169 M 530-565-9453 | NAPETRONE@CASCADE-ENV.COM
EXCELLENCE ON EVERY LEVEL™ WWW.CASCADE-ENV.COM
C57 1058336 EXP 9/30/2023

From: GovHub
To: Nick Petrone
Subject: Sacramento County Payment Confirmation
Date: Friday, September 8, 2023 12:52:23 PM

You don't often get email from no-reply@govhub.com. Learn why this is important

Thank you for your payment

Confirmation Number

B6914714371

Items Paid

DESCRIPTION	QUANTITY	AMOUNT
Environmental Management Portal Invoice #IN604323 WELL W/O PUMP (MONITORING WELLS, PIEZOMETER) $1030.00	1	$1030.00
Processing Fee		$23.59

The payment will appear on your statement as "PMT*SACRAMENTO COUNTY EMD". The fee may appear separately as "PMT*SACRAMENTO COUNTY FEE".

TOTAL	**$1053.59**

*A temporary authorization charge may appear on your statement as "PMT*SAC CO AUTHORIZATION".

Transaction Details

Payment	MasterCard Card
Account	MasterCard ending in 9668
Transaction Data Source	tokenized
Paid	$1053.59
Payment Date	Sep 8, 2023, 12:52 PM PDT

Recipient	Sacramento County

Paid by

Nicholas Petrone

napetrone@cascade-env.com

Your online payment was received by Sacramento County with the transaction response code 745789.

Contact Information

Sacramento County - Environmental Management
11080 White Rock Rd., Suite 200 Rancho Cordova, CA 95670
(916) 875-8484 | Website

APPENDIX B

Monument, Biological, and Cultural Resources Survey Reports

Acknowledgement of Control and Monument Responsibility
"Pre-Permit"

I, Robert W. Snow, a duly Licensed Professional Land Surveyor ~~or Civil Engineer~~ authorized to perform Land Surveying in the State of California, License No. 8813, hereby acknowledge and accept all responsibility for the survey control and monument preservation as required per Section 8771(a-f) of the Business and Professions Code within the bounds of the activity permitted by the Department of Water Resources (DWR) Encroachment Permit No. 1965 (EP 1965).

See attached Exhibit "B" which depicts the location of a proposed well site with a magenta circle. Our field crew thoroughly searched the entire area contained within the red clouded portion as shown thereon.

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument Preservation prior to final acceptance by DWR.

No survey monuments were found on this survey.

PROJECT NAME: Cosumnes Subbasin Prop 68 Monitoring Well Installation-New Hope Rd-RMW-23 Site

Signature

Seal

PROFESSIONAL LAND SURVEYOR
ROBERT W. SNOW
No. 8813
STATE OF CALIFORNIA

09-12-2022

Date

Acknowledgement of Control and Monument Preservation
"Prior to Acceptance"

I, Robert W. Snow, a duly Licensed Professional Land Surveyor ~~or Civil Engineer~~ authorized to perform Land Surveying in the State of California, License No. 8813, hereby acknowledge and accept all responsibility for the survey control and monument preservation as required per Section 8771(a-f) of the Business and Professions Code within the bounds of the activity permitted by the Department of Water Resources (DWR) Encroachment Permit No. 1965 (EP 1965).

See attached Exhibit "B" which depicts the location of a proposed well site with a magenta circle. Our field crew thoroughly searched the entire area contained within the red clouded portion as shown thereon.

I hereby state that all control and monuments within the bounds of the permitted are in the original location or have been reset in accordance with Section 8771 (a-f) of the Business and Professions Code.

No survey monuments were found on this survey.

PROJECT NAME: Cosumnes Subbasin Prop 68 Monitoring Well Installation-New Hope Rd-RMW-23 Site

R.W. S

Signature

Seal

PROFESSIONAL LAND SURVEYOR
ROBERT W. SNOW
No. 8813
STATE OF CALIFORNIA

09-12-2022

Date


EXHIBIT "B"
Approximate property line
NORTH
Sacramento County
A.P.N. 146-0140-005-0000
T5N R5E S34
Sacramento County
A.P.N. 146-0140-021-0000
Clouded area (in red) represents
area searched for survey
monuments. None found.
Proposed Well
New Hope Rd

AECOM
2020 L Street
Sacramento CA, 95811
USA
aecom.com

Project Name:
New Hope Road Monitoring Well Installation Project

To:
Julie Newton
Sacramento County Office of Planning and Environmental Review
827 7th Street, Room 225
Sacramento, CA 95814

From:
AECOM Technical Services

Date:
March 1, 2022

Memo

Subject: Biological Resources Report for the New Hope Road Monitoring Well Installation Project

Dear Ms. Newton,

This memorandum report documents the methods and results of AECOM's desktop analysis and a one-day reconnaissance-level biological resources survey for the New Hope Road Monitoring Well Installation Project ("project") in Sacramento County, California. The report includes a description of the desktop analysis and field survey methods, results, and conclusions and recommendations. The results include descriptions of the vegetation communities and wildlife documented at the project site during the field survey, aquatic resources and sensitive natural communities, and special-status plant and wildlife species with potential to occur. A map of land cover and vegetation communities within the project area, a map of special-status species documented in the California Natural Diversity Database within three (3) miles of the project, and special-status species tables for State and federally listed species with potential to occur in the region are also included. The conclusions and recommendations include general Best Management Practices and species-specific Avoidance and Minimization Measures designed to prevent erosion and contamination of soils or water and to avoid potential impacts/effects to special-status species that have the potential to occur in or immediately adjacent to the project area.

The purpose of this report memorandum is to support Sacramento County's Categorical Exemption 15303, Class 3 under the California Environmental Quality Act (CEQA).

Project Location and Setting

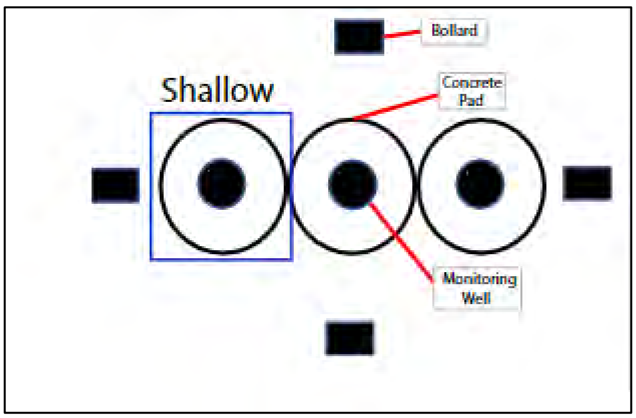
The Sacramento County Department of Water Resources (DWR) proposes to install groundwater monitoring well on the DWR's Grizzly Slough property in the south-central portion of the Cosumnes River Preserve, approximately 5 miles west of the City of Galt (Exhibit 1) and 0.2 mile east of Grizzly Slough along New Hope Road. Vineyards are located to the south and oak woodland/riparian habitat to the west, east and north. The Cosumnes River Preserve encompasses over 50,000 acres of wildlife habitat and agricultural land managed by a partnership of seven land-owning entities (one of which includes the DWR) to protect a mosaic of natural habitats and compatible agricultural lands within the lower Cosumnes River watershed and the upper Sacramento-San Joaquin Delta.

The project site is in a disturbed and developed area approximately 40 feet north of New Hope Road, behind a metal gate the leads into a gravel road. The well location is immediately west of a graveled access road driveway in a patch of ruderal (weedy) vegetation along the edge of grassland habitat. The site is characterized by generally flat topography at an elevation of approximately 12 feet above mean sea level. The major soil type is Dierssen clay loam, deep, drained, 0 to 2 percent slopes; which is hydric rated, somewhat poorly drained, associated with basin floors, and slightly alkaline (NCSS 2001, NRCS 2022).

Project Description

The groundwater monitoring well will be part of DWR's Interconnected Surface Water (ISW) and Groundwater Dependent Ecosystems (GDEs) monitoring and evaluation efforts in the Cosumnes Subbasin. The key objective of the monitoring program is to fill data gaps regarding stream depletions and changes in depth to water, as there is a lack of monitoring along the Cosumnes River. Data collected from the monitoring wells will inform the Cosumnes Subbasin's Groundwater Sustainability Plan, and the borehole data collected during well construction will provide potential confirmation of geophysical survey results. The proposed monitoring well site along New Hope Road will consist of three wells in series – one shallow, one mid-level, and one deep. The depth of each well in this series (shallow, mid, and deep) is listed below:

- **Shallow Well:** not to exceed 50 feet below ground surface
- **Mid Well:** not to exceed 100 feet below ground surface
- **Deep Well:** not to exceed 200 feet below ground surface



Each well borehole will be 10 inches in diameter, and each well will consist of a 2-inch diameter blank well casing made of Schedule-40 poly-vinyl chloride (PVC) pipe. All soil excavated from the boreholes will be removed from the project site, with no stockpiles or spreading on site anticipated.

Individual wells will be surrounded by a concrete pad measuring 16 square feet (4 feet by 4 feet), accumulating a total project footprint of 768 square feet (48 feet by 16 feet) for all three wells that will be surrounded by four, 4-foot-tall protective bollards (one per side). Permanent above-ground structures will include these bollards, the concrete pads, and three, 3-foot-tall well casings.

Methods

AECOM biologists searched the California Department of Fish and Wildlife's California Natural Diversity Database (CNDDB) (CDFW 2022), the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2022), and the U.S. Fish and Wildlife's Information for Planning and Conservation (IPaC) online tool (USFWS 2022). The CNDDB and CNPS search included the Thornton 7.5-minute United States Geographic Survey (USGS) quadrangle, within which the project site occurs, plus the 8 adjacent surrounding quadrangles, and the IPaC search was conducted using the proposed project footprint. Tables of all special-status plant and wildlife species identified in these databases during the desktop analysis are included in Appendix A (Tables A-1 and A-2) and include an evaluation of the potential for occurrence of each species in the project site. Records of special-status species reported to the CNDDB within a 3-mile radius of the project site are shown on Exhibit 3, and Appendix B includes copies of the CNPS and IPaC lists for the project site.

The biological resources assessment of the project site was conducted on February 9, 2022, by AECOM biologist Jasmine Wurlitzer. The biological study area (BSA) is defined by the project footprint and maximum potential extent of the work area, plus a 100-foot buffer (Exhibit 2). The survey was conducted to assess site conditions, map land cover types/vegetation communities, and evaluate biological and aquatic resources and the potential for special status plants and wildlife within the BSA.

For this analysis, special-status species are plants and animals in any of the following categories:

- Species that are listed under the federal Endangered Species Act (ESA) and/or California Endangered Species Act as rare, threatened, or endangered; and/or
- Species considered to be candidates and proposed for federal or state listing as threatened or endangered; and/or
- Wildlife designated by California Department of Fish and Wildlife (CDFW) as fully protected and/or species of special concern; and/or
- Plants considered by CDFW to be “rare, threatened, or endangered in California” and assigned a California Rare Plant Rank (CRPR) of 1A, 1B, and 2B, defined as follows:
  - CRPR 1A—plant species presumed to be extinct in California.
  - CRPR 1B—plant species considered to be rare, threatened, or endangered in California and elsewhere.
  - CRPR 2B—plant species considered to be rare, threatened, or endangered in California but more common elsewhere.

Each CRPR category may include an extension indicating the level of endangerment in California, as follows:

- 0.1 Seriously endangered in California (more than 80 percent of occurrences are threatened and/or high degree and immediacy of threat).
- 0.2 Fairly endangered in California (20–80 percent of occurrences are threatened).
- 0.3 Not very endangered in California.

Before the biological survey, AECOM biologists reviewed USGS quadrangle maps, the National Hydrography Map (USGS 2022), and current and historic Google Earth satellite images of the project area for indications of wetlands and site hydrology. From a regulatory perspective, “waters of the state” are broadly defined as “any surface water or groundwater, including saline waters, within the boundaries of the state” and are regulated under the Porter Cologne Act and Section 401 of the Clean Water Act (CWA); “waters of the state” have typically included all “waters of the United States” and expand upon that to include additional human-made aquatic features that retain surface water. On the federal side, aquatic areas that meet the regulatory definition of “waters of the United States” are regulated under Section 404 of the CWA.

AECOM biologists also reviewed current and historic satellite images of the project area for the presence of sensitive natural communities. Sensitive natural communities are those that are of special concern to resource agencies or are afforded specific consideration through the CEQA Guidelines, Section 1602 of the California Fish and Game Code, Section 404 of the Clean Water Act, and the State’s Porter-Cologne Act. Sensitive habitats, such as wetlands or riprian woodland, may be of special concern to these agencies and conservation organizations for a variety of reasons, including their locally or regionally declining status, or because they provide important habitat to common and special-status species.

Results

Vegetation Communities/Habitat Types

The BSA is comprised of five vegetation communities/land cover types: developed; vineyard; ruderal; grassland; and Fremont cottonwood woodland (Exhibit 2). The project footprint consists of developed, ruderal, and grassland habitats, with some woodland canopy overlapping the southwest corner (Exhibit 2). The vegetation communities/habitats in the BSA are described in detail the following sections. Representative photos are provided in Appendix C.

Based on a review of historic aerial imagery, the fields on either side (i.e., east and west) of the project site's access road were historically farmed to produce row and field crops. At the time of the survey, these two fields consisted of a mix of native and nonnative herbaceous species and appeared to have been recently drill-seeded, possibly as part of a grassland restoration project.

Developed

Developed landscapes in the BSA consist of asphalt paved roadway (New Hope Road) to the south of the project site, a compacted gravel driveway at the project site entrance gate, and a compacted dirt access road. No wildlife species were observed utilizing the developed portions of the BSA during the site survey, but coyote (*Canis latrans*) scat was observed in the center of the access road to the north of the BSA.

Ruderal

Ruderal vegetation dominated by introduced, non-native species is common throughout the BSA in locations that are regularly disturbed, such as along the edges of roadways and in roadside ditches. The well site location immediately northwest of the site entrance consists entirely of ruderal vegetation, dominated by dense tall wild radish (*Raphanus* sp.). Other species in the ruderal vegetation community included milk thistle (*Silybum marianum*), coast heron's bill (*Erodium cicutarium*), old-man-in-the-spring (*Senecio vulgaris*), shepherd's purse (*Capsella bursa-pastoris*), white clover (*Trifolium repens*), pineapple weed (*Matricaria discoidea*), prickly lettuce (*Lactuca serriola*), and cheeseweed (*Malva parviflora*).

The ruderal habitat in the BSA provides limited foraging, roosting, resting, and nesting sites for birds and small mammals. A single western fence lizard (*Sceloporus occidentalis*) was the only species observed utilizing ruderal vegetation at the time of the survey.

Vineyard

Lands to the south of New Hope Road are in agricultural production and consist of grape vineyards. These areas are highly disturbed and do not contain any vegetation other than cultivated grape vines. Wildlife observed in that area during the time of the survey included house finch (*Haemorhous mexicanus*) and northern mockingbird (*Mimus polyglottos*) foraging among the planted vines and a pair of red-tailed hawks (*Buteo jamaicensis*) soaring high above the vineyards.

Grassland

The northeast and northwest portions of the BSA consist of grassland vegetation dominated by a variety of annual grasses (i.e., *Bromus* sp., *Avena* sp., and *Hordeum* sp.), not identifiable to the species level at the time of the survey, intermixed with weedy forbs including wild radish, prickly lettuce, old-man-in-the-spring, milk thistle, and black mustard (*Brassica nigra*). Blue wildrye (*Elymus glaucus*), a perennial native bunchgrass, was sprouting in neat linear rows amongst the other grassland species and appears to have been drill-seeded. Other native species intermixed in the grassland included common fiddleneck (*Amsinckia intermedia*) and small-flowered fiddleneck (*A. menziesii*).

A single male northern harrier (*Circus hudsonius [cyaneus]*) flew low over the grassland from the south to north during the site survey, but it exited the area and was not observed again after that. No other wildlife or their sign were observed in the grassland habitat during the survey, except for several turkey vultures (*Cathartes aura*) circling over the site.

Although fossorial mammals, such as gophers, are typically associated with grassland habitats, the entire BSA was searched for burrows, mounds, and/or dens and none were found. This may be due to the presence of dense, compacted clay soils that are difficult to dig in, combined with the historic farming practices and ongoing restoration activities on the site.

Fremont Cottonwood Woodland

A group of medium-sized Fremont cottonwood (*Populus fremontii*) and small valley oak (*Quercus lobata*) trees occurs along both banks of the dry roadside ditch to the southwest of the project site, forming an isolated patch of woodland habitat along the north side of New Hope Road. Native woodland habitat like this typically provides optimal nesting, cover, and foraging habitat for many wildlife species; however, this patch of trees represents only marginal habitat since it occurs along a busy roadway, does not form continuous canopy, and appears to be regularly disturbed and/or maintained as evidenced by several trees resprouting from cut stumps. Understory vegetation consists of dense wild radish, milk thistle, California blackberry (*Rubus ursinus*), and poison hemlock (*Conium maculatum*).

California scrub jay (*Aphelocoma californica*), northern flicker (*Colaptes auratus*), acorn woodpecker (*Melanerpes formicivorus*), bushtit (*Psaltriparus minimus*), and yellow-rumped warbler (*Setophaga coronata*) were observed foraging in this habitat during the biological survey.

Aquatic Resources
Based on database reviews and site reconnaissance, it was determined that no natural wetland features exist within the well footprint area because of historic agricultural and more recent urban (roadway) development. Several human-made drainage ditches are present parallel to roadsides and could be "waters of the state," but no project activities are proposed within areas that would overlap with these ditches or any water body/water course.

Sensitive Natural Communities
Based on site reconnssance survey and vegetation mapping results, no sensitive natural communities or riparian habitat would be affected by the project. The project footprint consists of ruderal and grassland vegetation disturbed by historic agricultural practices and adjacent roadway development.

Special-Status Species
Of the forty-one (41) special-status species evaluated for occurrence in the project site (Appendix A), only five (5) species of special-status wildlife (4 birds and 1 mammal, discussed below) have some potential to occur because the project site is within the species' range and suitable habitat for the species is present. The remaining thirty-six (36) species returned in the database search results either have no potential to occur or are unlikely to occur for the following reasons: no suitable habitat exists in or near the project site; only marginally suitable habitat present in or near the project site; and/or the species' range does not overlap with the project site. CNDDB records of special-status plant and wildlife within 3 miles of the BSA are provided in Exhibit 3.

Habitat for common and special-status wildlife includes the trees and annual grassland/ruderal vegetation in and adjacent to the project site and provide suitable nesting and/or foraging habitat for four (4) species of special-status migratory birds, including three (3) raptor species, and suitable roosting habitat for one (1) special-status bat.

Special-Status Birds and Raptors
Section 3503 of the California Fish and Game Code states that it is unlawful to take possess, or needlessly destroy the nest or eggs of any bird. Section 3503.5 of the California Fish and Game Code specifically states that it is unlawful to take, possess, or destroy any raptors (i.e., species in the orders Falconiformes and Strigiformes), including their nests or eggs. Typical violations of these codes include destruction of active nests resulting from the removal of vegetation in which the nests are located. Violation of Section 3503.5 could also include failure of active raptor nests resulting from disturbance by nearby project construction. Sections 3511, 4700, 5050, and 5515 describe protection of fully protected species, these four statutes prohibit take or possession of fully protected species and none of them authorize incidental take of fully protected species.

Tricolored Blackbird
The tricolored blackbird (*Agelaius tricolor*) is listed as threated under the California Endangered Species Act (CESA) and is a California Species of Special Concern. The tricolored blackbird is a highly colonial bird. The colonies require open water, open foraging habitat, and suitable nesting habitat to breed successfully. Tricolored blackbird nesting habitat typically includes dense thickets of vegetation such as cattails, tule, blackberry, or wild rose surrounded by foraging habitats that may include semi-natural grasslands, agricultural croplands, or alkali scrub habitats, and a nearby source of freshwater. Tricolored blackbirds breed from mid-April through late July, although active breeding in the Sacramento Valley in October and November has been documented.

The BSA contains suitable vegetation structure (dense thistles) for nesting tricolored blackbird and is surrounded by suitable foraging habitat.

Northern Harrier

The northern harrier is a California Species of Special Concern. This species forages and breeds in a variety of lowland terrestrial and aquatic habitats including marshes, wet meadows, annual grasslands, irrigated pastures, and some croplands. This species is known to nest in nearby Suisun Marsh. Northern harrier breeds from April to September, with peak breeding activity from June through July. Northern harriers are ground nesters, preferring dense patches of tall, undisturbed vegetation.

The BSA provides suitable foraging and nesting habitat for this raptor, and an adult northern harrier was observed flying low over the grassland habitat in and adjacent to the BSA during the site survey.

Swainson's Hawk

The Swainson's hawk (*Buteo swainsonii*) is listed as threatened under the CESA. This species breeds in the western United States and Canada, and winters in South America. In the Central Valley of California, the Swainson's hawk typically prefers to occupy and breed in large trees found in grassland, woodland, and agricultural habitats, typically arriving to its nesting territories by early April. The species is adapted for aerial foraging and will spend a large amount of their time soaring and flying over open habitats. Swainson's hawks are known to travel long distances to find habitat that offer abundant prey.

The BSA contains suitable foraging habitat and there are potentially suitable nest trees (medium-sized Fremont cottonwood) along the southwestern edge of the project site footprint. Outside of the BSA, there is dense woodland habitat approximately 750-feet to the west along Grizzly Slough and approximately 1,000 feet north in open grassland that are potentially suitable nesting habitat. There is one CNDDB occurrence of nesting Swainson's hawks overlapping the project site, recorded at an accuracy of 2.5 miles in the 1980s along the south side of Snodgrass Slough, with nests recorded in 50-60 foot-tall cottonwood trees surrounded by riparian and agricultural land. Another record of nesting Swainson's hawks is from approximately 0.5 mile to the northeast of the project site, recorded in 1994 along the north side of Bear Slough, with the nest located at 50 feet high in a cottonwood tree. Additional nest records within one mile of the project site are from along the Mokelumne River, recorded from 1979 to 2003 in cottonwood and valley oak trees in riparian habitat.

White-tailed Kite

White-tailed kite (*Elanus leucurus*), a California Fully Protected species, is commonly found in lowland valley and coastal areas throughout California where it forages in open grasslands, meadows, wetlands, and agricultural areas and feeds primarily on small rodents and mammals. White-tailed kites hunt over lightly grazed or ungrazed fields that may support larger prey populations than more heavily grazed areas and typically nest in the upper third of trees that are 10 to 160 feet tall. These can be open-country trees growing in isolation or at the edge of or within a forest, usually near or adjacent to open foraging spaces. White-tailed kites breed from February to October, with the peak breeding season occurring from May to August.

The BSA provides suitable foraging and nesting habitat for white-tailed kite.

Western Red Bat

All bats are nongame mammals under California Fish and Game Code Section 4150. As such, bats are protected from being taken or possessed without a permit (Fish and Game Code Section 4152). "Take" means to hunt, pursue, catch, capture, or kill, or attempt any of these (Section 86).

Western red bat is a generally solitary species that roosts in clumps of tree foliage. Western red bats do not exhibit high roost fidelity and change roosts frequently. To forage at night, they can travel over large areas and/or over long distances from their roost sites. Western red bats are typically associated with riparian habitat but can be found in a wide variety of habitats in the spring and fall. Although this species is generally solitary, during the maternity season two or more females and their young have been documented roosting together, forming a small maternity colony in tree foliage.

The BSA provides suitable foraging and roosting habitat for western red bat, including maternity roosts, in the Fremont cottonwood trees in the southwestern portion of the site.

Special-Status Plants

No special-status plant species were observed during the survey, and the BSA does not provide suitable habitat for special-status plants for a number of factors including historic farming practices, development of the adjacent roadway and ditches, ongoing roadway and ditch maintenance activities, extensive amount of nonnative invasive and ruderal vegetation, and recent disturbances for grassland restoration (i.e., drill seeding) adjacent to the site.

Conclusion and Recommendations

No Fremont cottonwood or valley oak trees are proposed to be removed by the project and no work is proposed in aquatic habitat or sensitive communities. Biological survey results indicate that the BSA contains no mammal burrows or other refugia; no raptor nests; no vernal pools or seasonal wetlands; no elderberry shrubs; and no suitable habitat for special-status plants. The project site is within 50 feet roadside ditches that are dry for most of the year but may drain to nearby Grizzly Slough during wet periods, and the site contains marginally suitable nesting habitat for migratory birds, including special-status species.

Best Management Practices for the Protection of Aquatic Resources and Other Habitats

To avoid potential impacts on downstream aquatic features and other habitats, Sacramento County should implement the following Best Management Practices (BMPs) to prevent erosion and contamination of soils or water, and to minimize disturbance to adjacent habitats:

- BMP-1 (Construction Fencing): Install orange construction fencing to ensure that ground disturbance does not extend beyond the allowed construction footprint (i.e., the limit of project construction plus equipment staging areas and access roads).
- BMP-2 (Erosion Control): Install temporary control measures for sediment, stormwater, and pollutant runoff. Silt fencing or other appropriate sediment control device(s) should be installed downslope of any activity that disturbs soils. Fiber rolls and seed mixtures used for erosion control should be certified as free of viable noxious weed seed and should be of appropriate design and materials that will not entrap wildlife (e.g., not contain mesh netting). Regular monitoring and maintenance of the project’s erosion control measures should be conducted until project completion to ensure effective operation of erosion control measures.
- BMP-3 (Equipment Storage and Fueling): Ensure that equipment storage and staging occurs in the construction footprint only. Fuel storage and equipment fueling should occur away from waterways, stream channels, stream banks, and other environmentally sensitive areas within the development footprint. If project activities result in a spill of fuel, hydraulic fluid, lubricants, or other petroleum products, the spill should be absorbed, and waste disposed of in a manner to prevent pollutants from entering a waterway.
- BMP-4 (Erodible Materials): Erodible materials should not be deposited into waterways, and loose soils, or other debris material should not be stockpiled on adjacent banks. Erodible material should be disposed of such that it cannot enter a waterway or aquatic land cover type.
- BMP-5 (Dust Control): Apply water to active construction sites regularly, if warranted, to avoid or minimize impacts from construction dust on adjacent vegetation and wildlife habitats. No surface water should be used from aquatic land covers; water should be obtained from a municipal source or existing groundwater well.
- BMP-6 (Construction Lighting): Direct all temporary construction lighting (e.g., lighting used for security or nighttime equipment maintenance) away from adjacent natural habitats, and particularly riparian and wetland habitats and wildlife movement areas.
- BMP-7 (Training of Construction Staff): A mandatory Worker Environmental Awareness Training should be conducted by a qualified biologist for all construction workers, including contractors, prior to the commencement of well installation activities. The training would include how to identify special-status species that might enter the construction site, relevant life history information and habitats, the consequences of non-compliance, the boundaries of the construction area and permitted disturbance zones, litter control training, and appropriate protocols if a special-status species is encountered. Supporting materials containing training information would be prepared and distributed by the biologist.

When necessary, training and supporting materials should also be provided in Spanish. Upon completion of training, construction personnel would sign a form stating that they attended the training and understand all the BMPs and Avoidance and Minimization Measures.

- BMP-8 (Soil Compaction): After construction is complete, all temporarily disturbed areas should be restored similar to pre-project conditions, including impacts relating to soil compaction, water infiltration capacity, and soil hydrologic characteristics.
- BMP-9 (Speed Limit): Project-related vehicles should observe the posted speed limits on paved roads and a 10-mile-per-hour speed limit on unpaved roads and during travel in project areas. Construction crews should be given weekly tailgate instruction to travel only on existing roads and areas designated for the project and to avoid other areas.

Protection of Nesting Birds and Raptors

Suitable nesting habitat for migratory birds and suitable nesting and foraging habitat for special-status species (e.g., Swainson's hawk, white-tailed kite, northern harrier) exists on and adjacent to the project site. Therefore, to avoid impacts on nesting birds, preconstruction surveys for active nests of special-status birds, as well as birds protected by the Migratory Bird Treaty Act (MBTA) and Sections 3503 and 3503.5 of the Fish and Game Code, are recommended before the start of any project activities that occur during the nesting season, defined as February 1 to September 15.

Give the proximity of the site to numerous records of nesting Swainson's hawks in cottonwood trees similar to those adjacent to the project footprint (CDFW 2022), surveys for Swainson's hawks should be conducted in accordance with the guidance described in *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley* (Swainson's Hawk Technical Advisory Committee 2000).

To avoid impacts to raptors, special-status birds and other birds protected under the MBTA, Sacramento County should implement the following Avoidance and Minimization Measures (AMMs):

- AMM-1 (Raptor Pre-Construction Surveys): Pre-construction surveys should be conducted to determine if active nests are present in the Fremont cottonwood woodland canopy that overlaps with the project footprint and within 500 feet of the project footprint if well installation activities will occur during the raptor breeding season. A qualified biologist would conduct pre-construction surveys within 30 days and 3 days of ground-disturbing activities to determine if nesting raptor species are present. Preconstruction surveys would be conducted during the raptor breeding season. If a nest is present, then AMM-2 and AMM-3 should be implemented.
- AMM-2 (Raptor Nest/Roost Buffer): If active nests are found within the project footprint or within 500 feet of any project-related activity, a qualified biologist would establish a 500-foot temporary nest disturbance buffer around the active nest and inform Sacramento County. No work would be allowed within the 500-foot buffer until the young have successfully fledged or nesting activity has ceased. The determination of fledging or cessation of nesting would be made by a qualified biologist with experience in nest searching and monitoring for raptors. Active nests would be monitored periodically throughout the nesting season to identify any sign of disturbance and to document nest status.
- AMM-3 (Raptor Nest/Roost Buffer Monitoring): If project-related activities within the temporary nest disturbance buffer are determined to be necessary during the nesting season, then retain a qualified biologist experienced with raptor behavior to monitor the nest throughout the nesting season and to determine when the young have fledged. The biologist would be on site daily while construction-related activities are taking place within the disturbance buffer. If nesting raptors begin to exhibit agitated behavior, such as defensive flights at intruders, getting up from a brooding position, or flying off the nest, the qualified biologist would have the authority to shut down well installation activities. If agitated behavior is exhibited, the biologist, and Sacramento County, should consult with CDFW to determine the best course of action to avoid nest abandonment or take of individuals. The biologist would also train construction personnel on the required avoidance procedures, buffer zones, and protocols in the event that a covered raptor species flies into an active construction zone (i.e., outside the buffer zone).

- AMM-4 (Swainson's Hawk Surveys): A qualified biologist should conduct one or more early season Swainson's hawk surveys in the project footprint and within 0.25 mile of the project footprint boundaries. Surveys would be conducted in accordance with the guidance described in *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley* (Swainson's Hawk Technical Advisory Committee 2000). The guidance recommends surveys early in the season to detect nests from past seasons and to determine if either those or new nests are being occupied or established. Adjacent parcels under different land ownership will be surveyed only if access is granted or if the parcels are visible from authorized areas.
- AMM-5 (Swainson's Hawk Pre-Construction Surveys): Pre-construction surveys would be required to determine if active nests are present within a project footprint or within 0.25 mile of the project footprint if existing or potential nest sites were found during initial surveys and construction activities will occur during the breeding season (March 1 through September 15). A qualified biologist will conduct pre-construction surveys within 30 days and 3 days of ground-disturbing activities to determine presence of nesting Swainson's hawk. If a nest is present, then AMM-6 will be implemented.
- AMM-6 (Swainson's Hawk Nest Buffer Monitoring): If nesting Swainson's hawks are present within the project footprint or within 0.25 mile of any project-related activity, then a qualified biologist experienced with Swainson's hawk behavior should be retained by Sacramento County to regularly monitor the nest and to determine when the young have fledged. The qualified biologist would be on site daily while well installation-related activities are taking place within the buffer. If nesting Swainson's hawks begin to exhibit agitated behavior, such as defensive flights at intruders, getting up from a brooding position, or flying off the nest, the biologist would have the authority to shut down construction activities. If agitated behavior is exhibited, the biologist, and Sacramento County would consult with CDFW to determine the best course of action to avoid nest abandonment or take of individuals.

Protection of Roosting Western Red Bats

Since no trees would be removed by the project, no direct impacts on roosting western red bats are expected to result from project activities. However, indirect impacts in the form of disturbance to an occupied maternity roost or winter hibernacula roost is possible. If a maternity roost is disturbed, abandonment of nonvolant pups (pups that cannot fly) could occur resulting in death of the pups. Similarly, if occupied winter hibernacula are disturbed, arousal of hibernating bats may deplete their energy reserves, potentially resulting in death.

To avoid indirect impacts on (disturbance to) maternity roosts or winter hibernacula, preconstruction surveys for these types of bat roosts are recommended before the start of any project activities. To avoid impacts on special-status bats, Sacramento County should implement the following AMMs:

- AMM-7 (Pre-Construction Surveys for Roosting Bats): Prior to any ground disturbance or staging of equipment in the project footprint, an approved biologist would conduct a preconstruction survey within 3 days of project activities (within the project footprint and 300 feet of the project footprint) to determine the presence of any maternity or winter-hibernaculum day or night bat roosts sites. If a roost is present, then AMM-8 should be implemented. The approved biologist would inform Sacramento County of all roost sites and species locations.
- AMM-8 (Roost Buffer): If active maternity or winter-hibernaculum day or night bat roost sites are found within the project footprint or within 300 feet of the project footprint, the approved biologist would establish a 300-foot temporary disturbance buffer around the active roost site until bats have vacated the roost.

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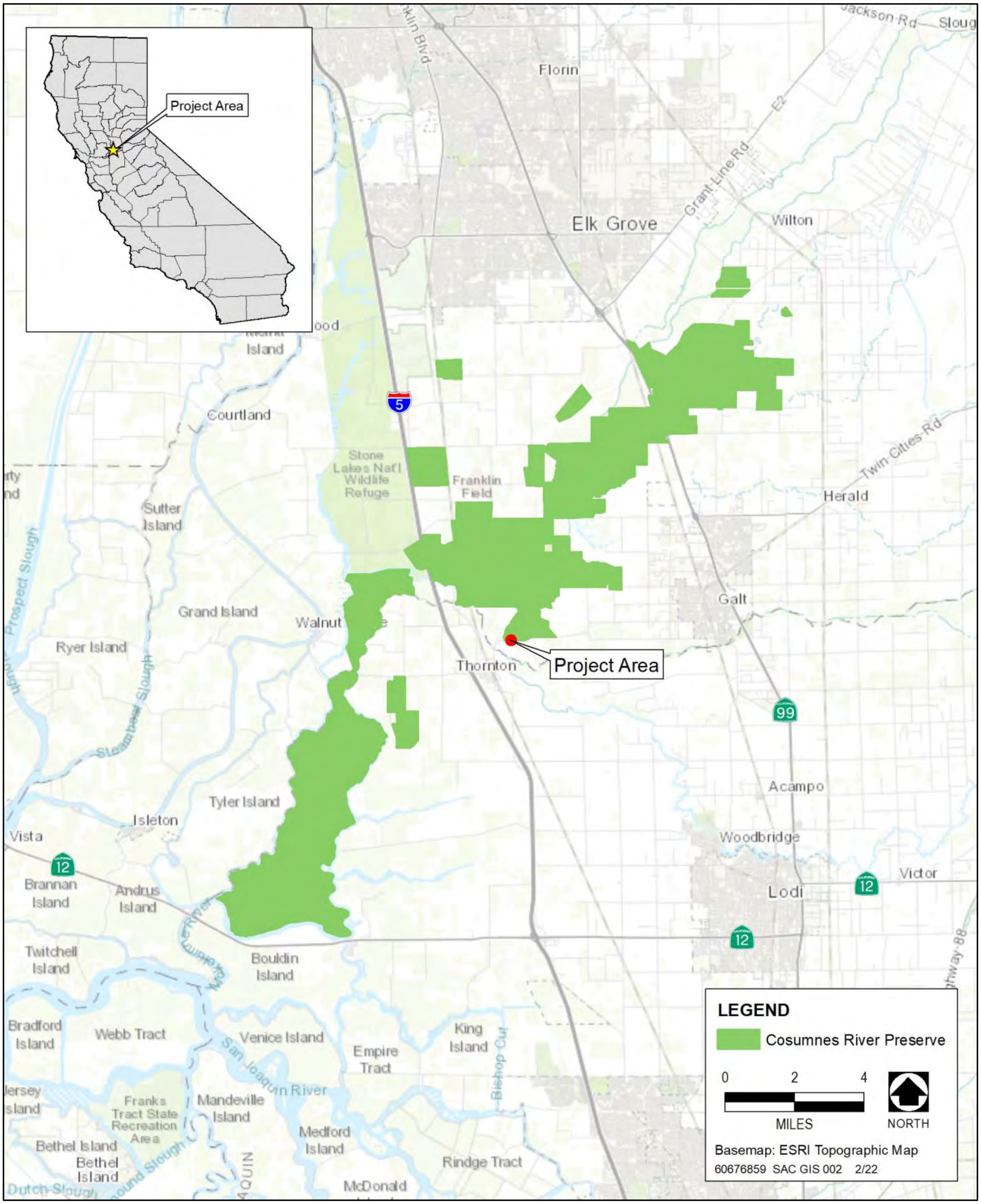


Exhibit 1. Project Vicinity

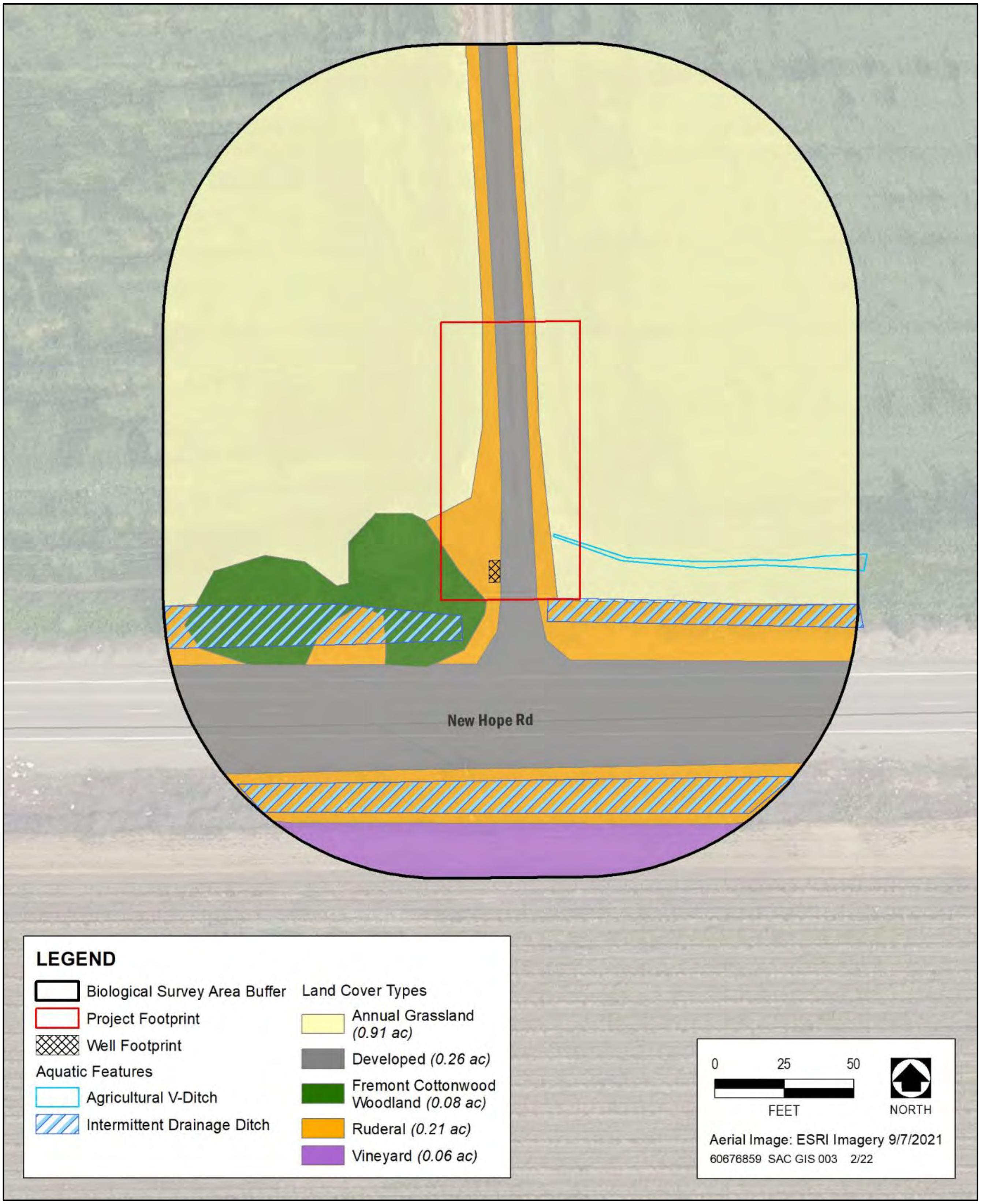


Exhibit 2. Land Cover/Vegetation Communities Map

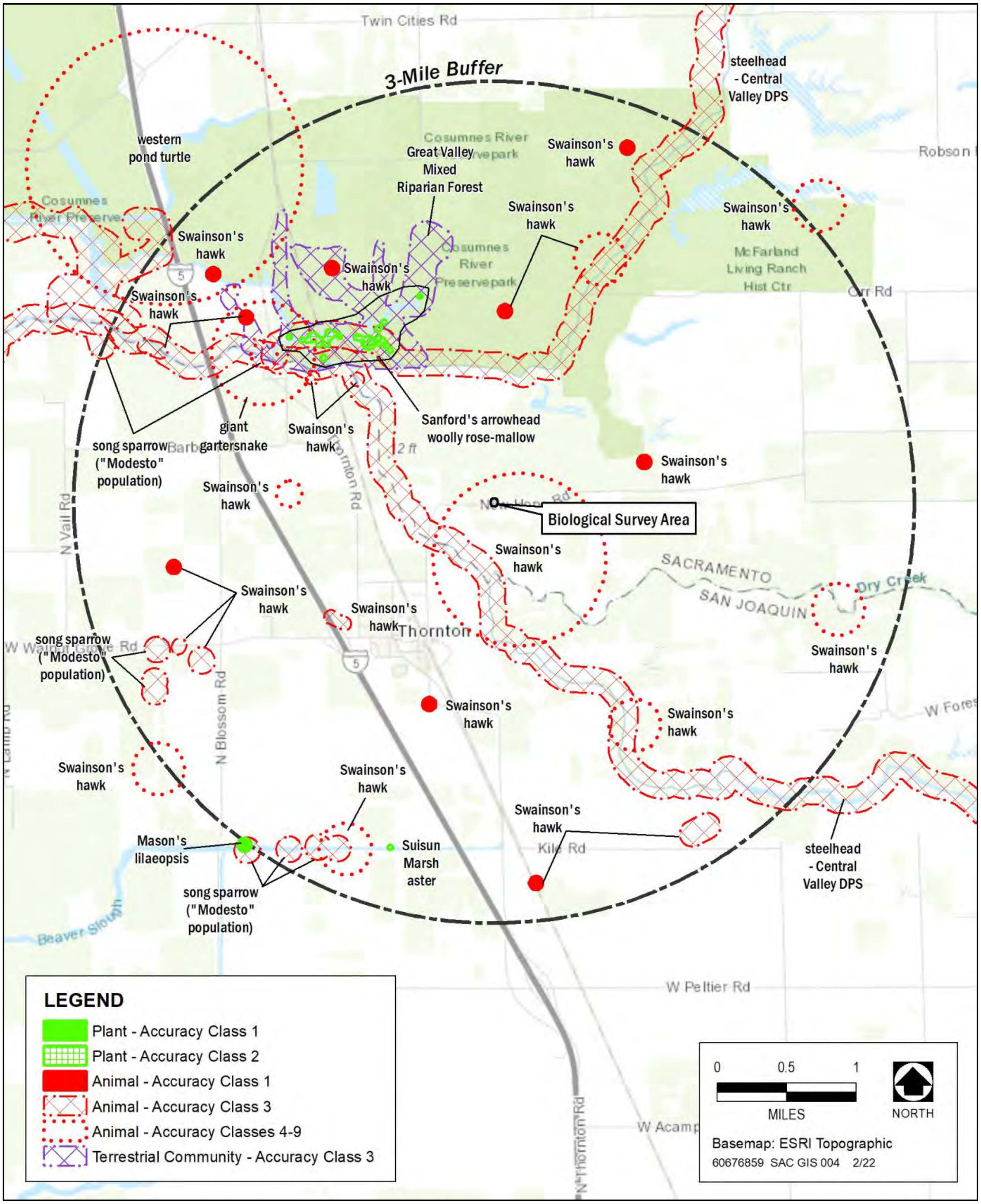


Exhibit 3. CNDDB Map

Appendix A

Tables Summarizing Special-Status Species with Potential to Occur in the Project Region and Their Potential for Occurrence on the Project Site

Table A-1 Special-Status Species with Potential to Occur in the Project Region and Their Potential for Occurrence on the Project Site

Scientific Name	Common Name	Regulatory Status			Habitat Requirements	Elevation Range (feet above msl)	Blooming Period	Potential for Occurrence*
		Fed	State	CRPR				
Amsinckia grandiflora	large-flowered fiddleneck	FE	SE	1B.1	Cismontane woodland, valley and foothill grassland.	885–1,805	April–May	**Not likely to occur.** The project site is below the elevation range of this species; the species is only known from Alameda, Contra Costa, and San Joaquin Counties (CNPS 2022).
Brasenia schreberi	watershield	–	–	2B.3	Freshwater marshes and swamps.	95–7,220	June–September	**No potential to occur.** The project site is below the elevation range of this species and there is no suitable habitat (marsh).
Carex comosa	bristly sedge	–	–	2B.1	Coastal prairie, marshes and swamps (lake margins), valley and foothill grassland.	0–2,050	May–September	**Not likely to occur.** Marginally suitable grassland habitat is present in the project site. However, historic farming practices likely precluded the species from remaining or becoming established in the project site. No *Carex* or any other sedge species were identified in the project site at the time of the biological reconnaissance survey. There are no CNDDB occurrences within 3 miles (CDFW 2022).
Centromadia parryi ssp. *parryi*	pappose tarplant	–	–	1B.2	Often in alkaline soils in grassland, chaparral, coastal prairie, coastal salt marshes, and alkaline springs and seeps.	0–1,380	May–November	**Not likely to occur.** Marginally suitable grassland habitat with alkaline soil is present in the project site; however, historic farming practices likely precluded the species from remaining or becoming established in the project site. No *Centromadia* species were identified in the project site at the time of the biological reconnaissance survey. There are no CNDDB occurrences within 3 miles (CDFW 2022).
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	–	–	2B.1	Coastal marshes and swamps.	0–655	July–September	**No potential to occur.** No suitable habitat (coast salt marsh or swamp) in the project site.
Downingia pusilla	dwarf downingia	–	–	2B.2	Vernal pools in valley and foothill grasslands.	0–1,460	March–May	**No potential to occur.** No suitable habitat (vernal pools) in the project site.
Hibiscus lasiocarpos var. *occidentalis*	woolly rosemallow	–	–	1B.2	Freshwater wetlands, wet banks, marshes. Often in riprap on sides of levees.	0–395	June–September	**Not potential to occur.** No suitable habitat (marsh, levee, wet banks, wetlands) in the project site.

Table A-1 Special-Status Species with Potential to Occur in the Project Region and Their Potential for Occurrence on the Project Site

Scientific Name	Common Name	Regulatory Status			Habitat Requirements	Elevation Range (feet above msl)	Blooming Period	Potential for Occurrence*
		Fed	State	CRPR				
Lathyrus jepsonii var. *jepsonii*	Delta tule pea	–	–	1B.2	Marshes and swamps, both freshwater and brackish.	0–15	May–September	**No potential to occur.** No suitable habitat (marsh, swamp) present in the project site.
Legenere limosa	legenere	–	–	1B.1	Wet areas, vernal pools, ponds.	0–2,885	April–June	**No potential to occur.** No suitable habitat (wet areas) present in the project site.
Lilaeopsis masonii	Mason's lilaeopsis	–	SR	1B.1	Freshwater or brackish marshes and swamps, riparian scrub.	0–35	April–November	**No potential to occur.** No suitable habitat (marsh, swamp, riparian scrub) present in the project site.
Limosella australis	Delta mudwort	–	–	2B.1	Muddy or sandy intertidal flats, mud banks in marshes and swamps (freshwater or brackish), and riparian scrub.	0–10	April–August	**No potential to occur.** No suitable habitat (marsh, swamp, riparian scrub) present in the project site.
Potamogeton zosteriformis	eel-grass pondweed	–	–	2B.2	Freshwater marshes and swamps.	0–6,100	June–July	**No potential to occur.** No suitable habitat (marsh, swamp) present in the project site.
Sagittaria sanfordii	Sanford's arrowhead	–	–	1B.2	Shallow freshwater marshes and swamps.	0–2,135	May–November	**No potential to occur.** No suitable habitat (marsh, swamp) present in the project site.
Scutellaria galericulata	marsh skullcap	–	–	2B.2	Lower montane coniferous forest, meadows and seeps (mesic), marshes and swamps.	0–6,890	June–September	**No potential to occur.** No suitable habitat (marsh, swamp, meadow/seep) present in the project site.
Scutellaria lateriflora	side-flowering skullcap	–	–	2B.2	Meadows and seeps (mesic), marshes and swamps.	0–1,640	July–September	**No potential to occur.** No suitable habitat (marsh, swamp, meadow/seep) present in the project site.
Symphyotrichum lentum	Suisun Marsh aster	–	–	1B.2	Brackish and freshwater marshes and swamps.	0–10	May–November	**No potential to occur.** No suitable habitat (marsh, swamp) present in the project site.

Table A-1 Special-Status Species with Potential to Occur in the Project Region and Their Potential for Occurrence on the Project Site

Scientific Name	Common Name	Regulatory Status			Habitat Requirements	Elevation Range (feet above msl)	Blooming Period	Potential for Occurrence*
		Fed	State	CRPR				
Trifolium hydrophilum	saline clover	–	–	1B.2	Marshes and swamps. Valley and foothill grassland (mesic, alkaline) and vernal pools.	0–985	April–June	**Not likely to occur.** Marginally suitable grassland habitat with alkaline soils is present in the project site. However, historic farming practices likely precluded the species from remaining or becoming established in the project site. The only *Trifolium* species identified in the project site at the time of the biological reconnaissance survey was a nonnative species (*Trifolium repens*) growing in ruderal areas along the access road. There are no CNDDB occurrences within 3 miles (CDFW 2022).

Notes: – = not applicable; CEQA = California Environmental Quality Act CNDDB = California Natural Diversity Database; CRPR = California Rare Plant Rank; msl = mean sea level

* **Potential for Occurrence:**

No Potential to Occur: No suitable habitat is present within or near the project site, the species' range does not include the project site, or the species is presumed extinct in California (CRPR 1A).

Unlikely to Occur: The project site is within the species' range; however, the species has not been recorded within the project site or vicinity, and habitat present is marginal for the species or habitat is reasonably suitable, but other factors, such as competition with nonnative plants or heavy disturbance (i.e., grazing, soil disking) indicate that presence of the species is not expected.

Could Occur: The project site is within the species' range and suitable habitat for the species is present.

Federal Status Categories:

FE = Listed as endangered under the federal Endangered Species Act

California State Status Categories:

SE = Listed as endangered under the California Endangered Species Act

SR = Listed as rare under the California Endangered Species Act

California Rare Plant Rank (CRPR) Categories:

1B = Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under the federal Endangered Species Act or California Endangered Species Act)

2B = Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under the federal Endangered Species Act or California Endangered Species Act)

California Rare Plant Rank (CRPR) Threat Rank Extensions:

.1 = Seriously endangered in California (>80% of occurrences are threatened and/or high degree and immediacy of threat)

.2 = Fairly endangered in California (20% to 80% of occurrences are threatened)

.3 = Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

Sources: CDFW 2022; CNPS 2022; USFWS 2022

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1]		Habitat	Potential for Occurrence[2]
	Federal	State		
Invertebrates				
Monarch butterfly *Danaus plexippus*	C	–	Adult monarchs feed on the nectar of many flowers but breed only where milkweed (*Asclepias* sp.) are found.	**Not likely to occur**. No milkweed plants identified in the project site during the biological reconnaissance survey. Adults could potentially move through the site and feed on herbaceous flowering plants.
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	T	–	Host plant is the elderberry (*Sambucus*) shrub, which is found in riparian scrub and savannah habitats in the Central Valley of California.	**No potential to occur**. No suitable habitat (elderberry shrubs) present in or within 200 feet of the project site.
Vernal pool fairy shrimp *Branchinecta lynchi*	T	–	Vernal pools and other seasonal wetlands in valley and foothill grasslands. Tends to occur in smaller wetland features (less than 0.05 acre in size).	**No potential to occur**. No suitable habitat (vernal pool, seasonal wetland) present in or within 200 feet of the project site.
Vernal pool tadpole shrimp *Lepidurus packardi*	E	–	Vernal pools and other seasonal wetlands in valley and foothill grasslands that pond for sufficient duration to allow the species to complete its life cycle. Typically found in ponds ranging in size from 0.1 acre to 80 acres.	**No potential to occur**. No suitable habitat (vernal pool, seasonal wetland) present in or within 200 feet of the project site.
Fish				
Delta Smelt *Hypomesus transpacificus*	T	E	Inhabits open waters of bays, tidal rivers, channels, and sloughs; rarely occurs in water with salinity of more than 10–12 ppt; when not spawning, found where salt water and freshwater mix; typically spawns upstream, but some spawning events have been documented in estuaries.	**No potential to occur**. No suitable aquatic habitat present in or within 1 mile of the project site.
Steelhead–Central Valley DPS *Oncorhynchus mykiss irideus* pop. 11	T	–	Cool, clear streams with abundant cover and well-vegetated banks, with relatively stable flows. Pool and riffle complexes and cold gravelly streambeds for spawning.	**No potential to occur**. No suitable aquatic habitat present in or within 1 mile of the project site.
Sacramento Splittail *Pogonichthrys hystriculus*	–	SSC	Lives in fluctuating environments and can tolerate water with high salinity and low oxygen levels.	**No potential to occur**. No aquatic habitat present in or within 1 mile of the project site.

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1]		Habitat	Potential for Occurrence[2]
	Federal	State		
Longfin Smelt *Spirinchus thaleichthys*	C	T, SSC	Uses estuaries, nearshore waters, and the lower portions of freshwater streams. Found in the San Francisco estuary and Delta, Humboldt Bay, and the estuaries of the Eel River and Klamath River.	**No potential to occur**. No aquatic habitat present in or within 1 mile of the project site.
Amphibians and Reptiles				
California tiger salamander *Ambystoma californiense*	T	T, WL	Small ponds, lakes, or vernal pools in grasslands and oak woodlands for larvae; rodent burrows, rock crevices, or fallen logs for cover for adults and for summer dormancy.	**No potential to occur**. No suitable habitats (ponds, lakes or vernal pools) present in or within 200 feet of the project site.
Western pond turtle *Emys marmorata*	–	SSC	Forages in ponds, marshes, slow-moving streams, sloughs, and irrigation/drainage ditches; nests in nearby uplands with low, sparse vegetation.	**Not likely to occur**. No suitable aquatic habitat present in the project site. While the roadside ditches to the south of the project site could provide marginally suitable dispersal habitat during wet periods, these ditches are highly disturbed and heavily vegetated by upland plants; therefore, the species is not likely to move through or nest in the project site.
Foothill yellow-legged frog *Rana boylii*	–	E, SSC	Found in most major Pacific-slope Sierra Nevada watersheds between upper Sacramento River and the Tehachapi Mountains. Streams and rivers with rocky substrate and open, sunny banks, in forests, chaparral, and woodlands from sea level to 6,700 feet. Sometimes found in isolated pools, vegetated backwaters, and deep, shaded, spring-fed pools.	**No potential to occur**. No suitable aquatic habitat in or near the project site, and no CNDDB records within 3 miles of the project site (CDFW 2022).

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1]		Habitat	Potential for Occurrence[2]
	Federal	State		
California red-legged frog *Rana draytonii*	T	SSC	Occurs throughout California and northern Baja California in lowlands and foothills in or near permanent sources of deep water with dense, shrubby, or emergent riparian vegetation. Requires 11–20 weeks of permanent water for larval development and must have access to aestivation habitat. Endemic to California and Baja California, at elevations ranging from sea level to 1,524 meters (5,000 feet). Has a distinct aquatic and upland habitat requirement that includes pools of slow-moving streams, perennial or ephemeral ponds, and upland sheltering habitats.	**Not likely to occur**. No suitable aquatic habitat in or near the site, and no CNDDB records within 3 miles.
Giant garter snake *Thamnophis gigas*	T	T	Slow-moving streams, sloughs, ponds, marshes, inundated floodplains, rice fields, and irrigation/drainage ditches on the Central Valley floor with mud bottoms, earthen banks, emergent vegetation, abundant small aquatic prey, and absence or low numbers of large predatory fish. Requires permanent water during the active season. Also requires upland refugia not subject to flooding during the snake's inactive season.	**No potential to occur**. No suitable aquatic habitat in the project site, and the project site is a quarter mile or more from any suitable habitats. The roadside ditch along the southern portion of the BSA is dry for most of the year and heavily vegetated by grassland and ruderal plants, and therefore would not serve as a dispersal corridor.

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1]		Habitat	Potential for Occurrence[2]
	Federal	State		
Birds				
Tricolored blackbird *Agelaius tricolor* (nesting colony)	–	T, SSC	Forages in agricultural lands and grasslands; nests in marshes, riparian scrub, and other areas that support cattails or dense thickets of shrubs or herbs. Requires open water and protected nesting substrate, such as flooded, spiny, or thorny vegetation.	**Could occur**. Suitable foraging habitat in the project site, and marginally suitable nesting habitat (patches of tall thistle) in the southwest corner of the project site footprint. However, no nesting colonies recorded within 3 miles of the project (CDFW 2022).
Burrowing owl *Athene cunicularia* (year-round)	–	SSC	Nests and forages in grasslands, agricultural lands, open shrublands, and open woodlands with existing ground squirrel burrows or friable soils. Suitable burrow sites consist of short, herbaceous vegetation with only sparse cover of shrubs or taller herbs.	**Not likely to occur**. While the species could move through the project site, there are no burrow sites or other suitable refugia in or near the project site.
Swainson's hawk *Buteo swainsoni* (nesting)	–	T	Forages in grasslands, irrigated pastures, and agricultural lands; nests in riparian and isolated trees.	**Could occur**. Suitable nesting habitat in trees adjacent to the southwest corner of the project site footprint, and the grassland/ruderal areas provide suitable foraging habitat. There are several records of the species nesting within 3 miles of the project site, with one record overlapping the project parcel (CDFW 2022). The record overlapping the project site is from 1979 – 1988, with nests recorded in 50-60 foot-tall cottonwood trees surrounded by riparian and agricultural land on the south side of Snodgrass Slough. Another record approximately 0.5 mile to the northeast is from along the north side of Bear Slough recorded in 1994, with the nest located at 50 feet high in a cottonwood tree. Additional records within one mile of the project site are from along the Mokelumne River, recorded from 1979 to 2003 in cottonwood and valley oak trees in riparian habitat.

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1] Federal	Regulatory Status[1] State	Habitat	Potential for Occurrence[2]
Northern harrier *Circus hudsonius* (nesting)	–	SSC	Uses a variety of open grassland, wetland, and agricultural habitats. Breeding habitats include marshy meadows, wet and lightly grazed pastures, and freshwater and brackish marshes; and dry upland habitats, such as grassland, cropland, drained marshland, and shrub-steppe in cold deserts.	**Could occur**. Species observed flying through the project site survey area during the February 2022 survey. Species could nest in tall grasses and forbs in or near the project site.
Western yellow-billed cuckoo *Coccyzus americanus occidentals*	T	E	Breeds in extensive deciduous riparian thickets or forests with dense low or understory foliage, along slow-moving watercourses. Willow almost always a dominant component of habitat but is known to use adjacent orchards (walnut) in the Sacramento Valley. Requires wooded foraging spaces 25 acres or larger.	**No potential to occur.** No suitable habitat (dense, extensive riparian forest or thickets) present in or near the project site.
White-tailed kite *Elanus leucurus* (nesting)	–	FP	Individuals prefer open grasslands with dispersed trees for nesting and perching. Frequently found along tree-lined river valleys with contiguous open areas.	**Could occur**. Ruderal and grassland vegetation in the project site provides suitable foraging habitat. The species could nest in the trees adjacent to the southwest corner of the project site footprint.
California black rail *Laterallus jamaicensis coturniculus*	–	T	Inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays.	**No potential to occur.** No suitable habitat (marsh, meadow) present in or near the project site.
Song sparrow ("Modesto population") *Melospiza melodia mailliardi*	–	SSC	Prefers riparian willow thickets, valley oak riparian with understory of blackberry, ruderal areas along levees and irrigation canals, and cattail and tule marshes.	**Not likely to occur**. No suitable nesting habitat (willow or blackberry thickets, levees or canals, marshes) in or near the project site. There are several records of the species nesting within 3 miles of the project site and the species may move through (CDFW 2022).

Table A-2 Special-Status Wildlife Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status[1]		Habitat	Potential for Occurrence[2]
	Federal	State		
Mammals				
Western red bat *Lasiurus blossevillii*	–	SSC	Solitary foliage-roosting bat associated with riparian habitat (particularly willows, cottonwoods, sycamore, and eucalyptus), but individuals also use orchards, agricultural, and sometimes urban environments.	**Could occur**. Suitable roost tree canopies are present in the southwest corner of the project site footprint.
Riparian brush rabbit *Sylvilagus bachmani riparius*	E	E, SSC	Found only at Caswell Memorial State Park along the Stanislaus River in San Joaquin County. Requires dense cover of thickets, vines, brambles, or dense riparian vegetation.	**No potential to occur**. The project site is outside of the species' current known range, and there is no suitable habitat (dense thickets or riparian vegetation) in or near the project site.
American badger *Taxidea taxus*	–	SSC	Most abundant in the drier open stages of most shrub, forest, and herbaceous habitats with friable soils; generally associated with treeless regions, prairies, parklands, and desert areas. Needs open, uncultivated land.	**Not likely occur**. Soils on site are compacted clay. No burrows, dens or other sign of badgers and/or their prey were found in the project site during the February 2022 survey.

Notes: CDFW = California Department of Fish and Wildlife; CNDDB = California Natural Diversity Database; DPS = Distinct Population Segment; ppt = parts per thousand

[1] **Legal Status Definitions:**

Federal:
C Candidate (not legally protected)
E Endangered (legally protected)
T Threatened (legally protected)
– No status

State:
FP Fully protected (legally protected)
SSC Species of special concern (no formal protection other than CEQA consideration)
E Endangered (legally protected)
T Threatened (legally protected)
WL Watch Listed
– No status

[2] **Potential for Occurrence:**

No Potential to Occur: The project site is outside the species' range and/or suitable habitat for the species is absent from the project site and adjacent areas.
Not Likely to Occur: No occurrences of the species have been recorded within or immediately adjacent to the project site, and either habitat for the species is marginal or potentially suitable habitat may occur, but the species' current known range is restricted to areas far from the project site.
Could Occur: The project site is within the species' range, and no occurrences of the species have been recorded within the project site; however, suitable habitat for the species is present and recorded occurrences of the species are generally present in the vicinity.

Sources: CDFW 2022; USFWS 2022

Appendix B

CNPS and IPaC Species Lists

CNPS Rare Plant Inventory

HOME ABOUT CHANGES REVIEW HELP

Search: Simple Advanced

Search for specie Go

Search Results

Back Export Results

19 matches found. Click on scientific name for details

Search Criteria: CRPR is one of [1A:1B:2A:2B:3:4] Fed List is one of [FE:FT:FC:FD:None] or State List is one of [CE:CT:CR:CE:CT:4:None] , 9-Quad include [3812123:3812133:3812124:3812125:3812135:3812134:3812113:3812115:3812114]

Scientific Name | Common Name | Family | Lifeform | Blooming Period | Fed List | State List | Global Rank | State Rank | CA Rare Plant Rank | General Habitats | Micro Habitats | Lowest Elevation (m) | Highest Elevation (m) | Lowest Elevation (ft) | Highest Elevation (ft) | CA Endemic | Date Added | Photo

Filter Results:

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	PHOTO
Azolla microphylla	Mexican mosquito fern	Azollaceae	annual/perennial herb	Aug	None	None	G5	S4	4.2	No Photo Available
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	None	None	G5	S3	2B.3	 ©2014 Kirsten Bovee
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	None	None	G5	S2	2B.1	 Dean Wm. Taylor 1997
Centromadia parryi ssp. parryi	pappose tarplant	Asteraceae	annual herb	May-Nov	None	None	G3T2	S2	1B.2	No Photo

										Available
Centromadia parryi ssp. *rudis*	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	None	None	G3T3	S3	4.2	No Photo Available
Cicuta maculata var. *bolanderi*	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	None	None	G5T4T5	S2?	2B.1	No Photo Available
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	None	None	GU	S2	2B.2	No Photo Available
Hibiscus lasiocarpos var. *occidentalis*	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	None	None	G5T3	S3	1B.2	 © 2020 Steven Perry
Lasthenia ferrisiae	Ferris' goldfields	Asteraceae	annual herb	Feb-May	None	None	G3	S3	4.2	 © 2009 Zoya Akulova
Lathyrus jepsonii var. *jepsonii*	Delta tule pea	Fabaceae	perennial herb	May-Jul(Aug-Sep)	None	None	G5T2	S2	1B.2	 © 2003 Mark Fogiel
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.1	 ©2000 John Game
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	None	CR	G2	S2	1B.1	No Photo Available
Limosella australis	Delta mudwort	Scrophulariaceae	perennial stoloniferous herb	May-Aug	None	None	G4G5	S2	2B.1	 © 2020 Richard Sage
Potamogeton zosteriformis	eel-grass pondweed	Potamogetonaceae	annual herb (aquatic)	Jun-Jul	None	None	G5	S3	2B.2	No Photo

										Available
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	None	None	G3	S3	1B.2	 ©2013 Debra L. Cook
Scutellaria galericulata	marsh skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Sep	None	None	G5	S2	2B.2	 © 2021 Scot Loring
Scutellaria lateriflora	side-flowering skullcap	Lamiaceae	perennial rhizomatous herb	Jul-Sep	None	None	G5	S2	2B.2	No Photo Available
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May-Nov	None	None	G2	S2	1B.2	No Photo Available
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.2	No Photo Available

Showing 1 to 19 of 19 entries

Suggested Citation:
California Native Plant Society, Rare Plant Program. 2022. Rare Plant Inventory (online edition, v9-01 1.5). Website https://www.rareplants.cnps.org [accessed 17 February 2022].

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Sacramento County, California

Local office

San Francisco Bay-Delta Fish And Wildlife

(916) 930-5603
(916) 930-5654

650 Capitol Mall
Suite 8-300
Sacramento, CA 95814

http://kim_squires@fws.gov

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Yellow-billed Cuckoo Coccyzus americanus There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog Rana draytonii Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/2891	Threatened

California Tiger Salamander Ambystoma californiense — **Threatened**

There is **final** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/2076

Fishes

NAME	STATUS
Delta Smelt Hypomesus transpacificus Wherever found There is **final** critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/321	**Threatened**

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	**Candidate**
Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7850	**Threatened**

Crustaceans

NAME	STATUS

Vernal Pool Fairy Shrimp Branchinecta lynchi — **Threatened**

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/498

Vernal Pool Tadpole Shrimp Lepidurus packardi — **Endangered**

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/2246

Flowering Plants

NAME	STATUS
Large-flowered Fiddleneck Amsinckia grandiflora Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/5558	**Endangered**

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME	TYPE
Delta Smelt Hypomesus transpacificus https://ecos.fws.gov/ecp/species/321#crithab	**Final**

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Jan 1 to Aug 31
Black Tern Chlidonias niger This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3093	Breeds May 15 to Aug 20
California Thrasher Toxostoma redivivum This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Clark's Grebe Aechmophorus clarkii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31

Common Yellowthroat Geothlypis trichas sinuosa — Breeds May 20 to Jul 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/2084

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Lawrence's Goldfinch Carduelis lawrencei — Breeds Mar 20 to Sep 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9464

Marbled Godwit Limosa fedoa — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9481

Nuttall's Woodpecker Picoides nuttallii — Breeds Apr 1 to Jul 20

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus — Breeds Mar 15 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656

Olive-sided Flycatcher Contopus cooperi

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3914

Short-billed Dowitcher Limnodromus griseus

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9480

Tricolored Blackbird Agelaius tricolor

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3910

Willet Tringa semipalmata

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wrentit Chamaea fasciata

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Yellow-billed Magpie Pica nuttalli

Breeds Apr 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9726

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence ( )

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season ( )
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

California Thrasher
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Clark's Grebe
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Common Yellowthroat
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Golden Eagle
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Lawrence's Goldfinch
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Marbled Godwit
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Nuttall's Woodpecker
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Oak Titmouse
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

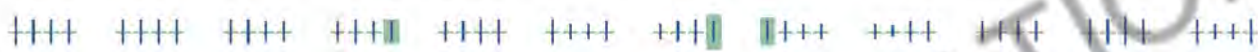
Olive-sided Flycatcher
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Short-billed Dowitcher
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

SPECIES JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

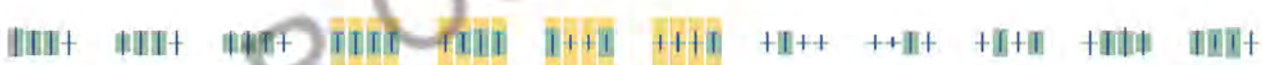
Tricolored Blackbird
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Willet
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Wrentit
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Yellow-billed Magpie
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Appendix C

Photographs of Biological Survey Area

Photograph 1: Ruderal vegetation at proposed well site location, north of New Hope Road.

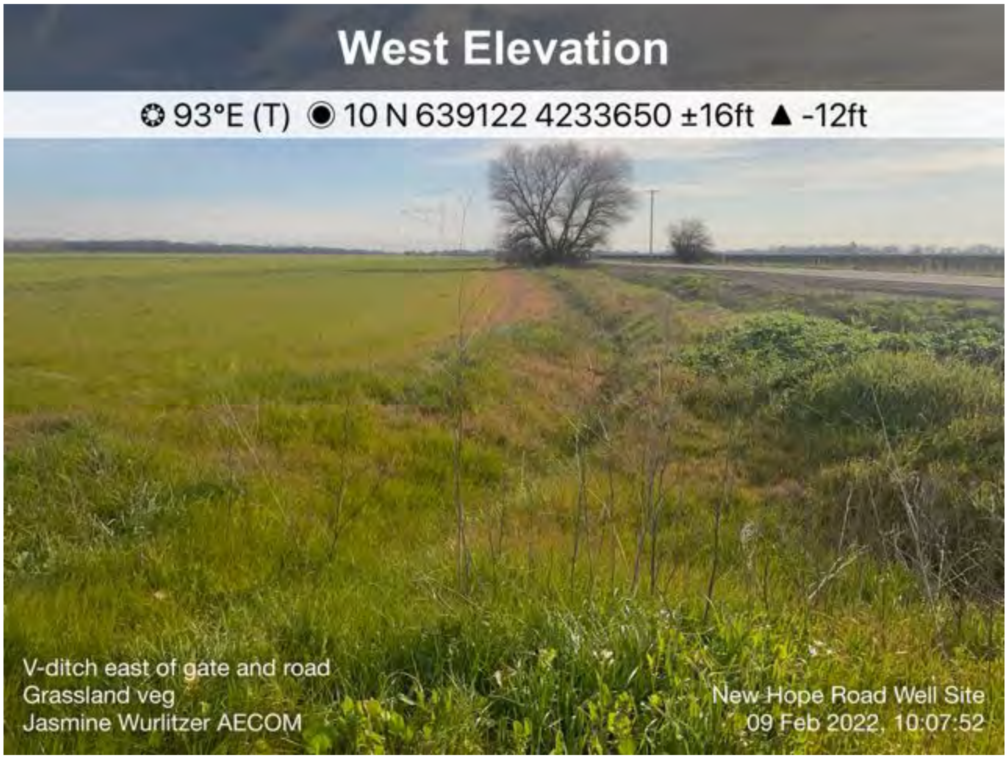
Photograph 2: Developed land cover (graveled roadway) immediately southeast of proposed well site location**.**

Photograph 3: Roadside ditch (dry) with several medium-sized native cottonwood (*Populus fremontii*) and small sapling valley oak (*Quercus lobata*) trees, southwest of proposed well site.

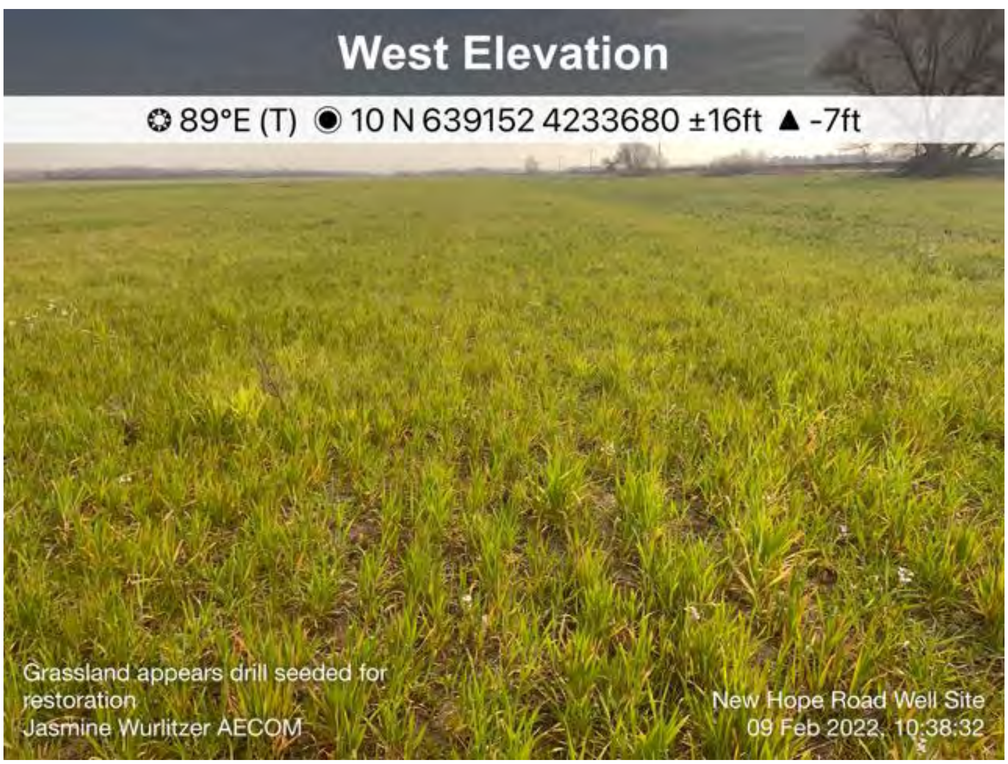
Photograph 4: Grassland habitat north of well site location.

Photograph 5: Access road and ruderal vegetation along edge in project area.

Photograph 6: Roadside ditch (dry) to the southeast of project site access gate.



Photograph 7: Remnant agricultural v-ditch and grassland habitat to the east of project site access road.



Photograph 8: Closeup of grassland vegetation, east of project site access road.

Photograph 9: Trees to be avoided by project

CONFIDENTIAL - NCIC Records Search Locational Information

Three resources are recorded within a quarter-mile of the project Study Area see **Table 2 and Appendix B - Exhibit 1**.

The first, P-34-000037/ CA-SAC-000010, is a Prehistoric mound site with associated human remains recorded in 1929.

The second, P-34-000038/CA-SAC-000011 is a Prehistoric occupation site located on the opposite bank of Grizzly Slough. Human remains and grave goods such as decorated whistles and a charm stone were observed at this site when recorded in 1929.

The third cultural resource, a historic-age transmission line, is east of the site, and was recommended ineligible for listing in the NRHP or CRHR.

Table 2. Previously Documented Resources Outside of the Project Area

NCIC Primary/Trinomial No.	Description	Comments
P-34-000037/CA-SAC-000010	Prehistoric Site; AP09 (Burials) - human bone found while digging; AP15 (Habitation debris) - mound	First recorded in 1929 by Schenck and Dawson of Sacramento State College Human remains were found during excavation of the mound.
P-34-000038/CA-SAC-000011	Prehistoric Site; AP16 (Other) - burial and occupation site	First recorded in 1929 by Schenck and Dawson of Sacramento State College. Although human remains, decorated whistles, and a charm stone were described in the site record, Schenck and Dawson indicated that the site has been destroyed.
P-34-005253	Historic-ESA-1 (transmission line) HP39	Not NRHP Eligible/CRHR Significant

Notes: NCIC = North Central Information Center; Report is on file at the NCIC
Source: NCIC 2022; Data compiled by AECOM 2022

Appendix B - Exhibit 1: NCIC generated map with cultural resources within ¼-mile search radius (NCIC 2022)

CONFIDENTIAL - Class III Intensive Pedestrian Field Survey Methods and Results

While no cultural material was observed within the project area, two Prehistoric sites which have yielded human remains are within proximity to the proposed well site (see **Appendix B - Exhibit 1**). Therefore, monitoring of all earthmoving activities by a qualified archaeologist and a Tribal monitor is strongly recommended. Disturbed soils should be inspected for cultural material, especially human remains.

Site P-34-000037/CA-SAC-000010 was relocated approximately 400 meters from the proposed well site (see **Photographs 3 through 5** and **Appendix B - Exhibit 1**. A freshwater clamshell was observed in surface soils (see **Photograph 4**), though the mound described by Schenck and Dawson in 1929 is no longer present. The area is a flat space under oak trees at the end of the access road seen in **Photograph 5**. Crews should be instructed to avoid the area.

Photograph 3. The access road from New Hope Road facing a stand of trees where site P-34-000037/CA-SAC-000010 was previously recorded (no longer extant), view facing northwest, February 9, 2022

Photograph 4. Freshwater clamshell at P-34-000037/CA-SAC-000010, February 9, 2022

Photograph 5. Relocated P-34-000037/CA-SAC-000010 but no longer extant mound site, view facing northwest, February 9, 2022

APPENDIX C

Borehole Logs

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID:
GS-S

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240161
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 12.0 ft bgs	**Longitude (E):**	-121.410321
Cased Depth:	0 to 34.0 ft bgs	**Transition Seal:**	Medium Bentonite Chips	**Surface Elevation:**	12.70
Screened Interval(s):	17.0 to 32.0 ft bgs	**Transition Interval(s):**	12.0-14.0 ft bgs	**TOC Elevation:**	14.98
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	14.0-35.0 ft bgs	**Start Date:**	9/21/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	35.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations
-3 to 0									Well Monument and Rapid-Set Structural Concrete Pad (4' x 4' x 6")
0–3	5			0 (1), 0 (2)	0	SILTY SAND; brown (10YR 4/3); fine-grained sand; 30% silt; dry; no odor	SM		Cement Grout Mix (Type I/II Portland Cement and 5% bentonite by weight)
3–3.5				0 (3)	3	SANDY SILT; brown (10YR 4/3); 30% fine-grained sand; trace clay; hard; dry; no odor	ML		Schedule 40 PVC Blank Casing
3.5–4				0 (4)		POORLY GRADED SAND; dark yellowish brown (10YR 4/6); fine to medium-grained sub-angular sand; 5% silt; dry; no odor	SP		
4–5						SILTY SAND; brown (10YR 4/3); fine-grained sand; 30% silt; dry; no odor	SM		
5–7.5	1.5 (5–6.5); 2 (6.5–8.5)			0 (5), 0 (5.5), 0 (6), 0 (7)	5	SANDY SILT; dark yellowish brown (10YR 3/4); 30% fine-grained sand; soft; moist; no odor	ML		
7.5–8.5				0 (8)		SILTY SAND; dark yellowish brown (10YR 3/4); fine-grained sand; 30% silt; moist; no odor 0.1-0.2 cm muscovite flakes at 7.5 ft bgs	SM		
8.5–10	1.3			0 (9), 0 (10)		SILT WITH SAND; dark yellowish brown (10YR 3/4); 15% fine-grained sand; soft; moist; no odor	ML		

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID:
GS-S

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240161
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 12.0 ft bgs	**Longitude (E):**	-121.410321
Cased Depth:	0 to 34.0 ft bgs	**Transition Seal:**	Medium Bentonite Chips	**Surface Elevation:**	12.70
Screened Interval(s):	17.0 to 32.0 ft bgs	**Transition Interval(s):**	12.0-14.0 ft bgs	**TOC Elevation:**	14.98
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	14.0-35.0 ft bgs	**Start Date:**	9/21/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	35.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations	Depth (ft bgs)
11	2			0	11	SILT WITH SAND continued	ML			11
12				0	12	SILTY SAND; dark yellowish brown (10YR 4/4); fine-grained sand; 15% silt; moist; no odor				12
	1.4					POORLY GRADED SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sub-angular sand; 5% silt; trace fine gravel; moist to wet; no odor	SP		Medium Bentonite Chips	
13				0	13	SILTY SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sand; 15% silt; moist; no odor	SM	▼	DTW on 9/22/2023 @ 10:00	13
14	1.5			0	14	Moist to wet at 14 ft bgs			#2/12 Sand	14
15				0	15	POORLY GRADED SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sub-angular sand; 5% silt; trace coarse-grained sand and fine gravel; very wet; no odor	SP			15
	1.5									
16				0	16					16
17					17				Schedule 40 PVC 0.020-inch Slotted Screen	17
	2			0						
18					18					18
				0						
19	1.5			0	19					19
						SILTY SAND; dark yellowish brown (10YR 3/4); fine grained sand; 30% silt; moist; no odor	SM			
20					20	Very wet at 20 ft bgs				20
21	2			0	21					21
22				0	22	WELL GRADED SAND; dark yellowish brown (10YR 4/4); fine to coarse-grained sand; 5% silt; wet; no odor	SW			22
	1.5					SILTY SAND; dark yellowish brown (10YR 4/4); fine-grained sand; 20% silt; wet; no odor	SM			
23				0	23					23
24	1.5			0	24	WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW			24

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID:
GS-S

Well Completion:	Monument with Bollards
Casing Type:	2-in Sch 80 PVC
Cased Depth:	0 to 34.0 ft bgs
Screened Interval(s):	17.0 to 32.0 ft bgs
Screen Type:	Schedule 40 PVC
Screen Aperture:	0.020-in
Conductor Casing:	N/A
Conductor Interval:	N/A
Borehole Diameter:	8-in
Borehole Depth:	35.0 ft bgs
Grout:	Type I/II Portland Cement
Grout Interval:	0 to 12.0 ft bgs
Transition Seal:	Medium Bentonite Chips
Transition Interval(s):	12.0-14.0 ft bgs
Filter Pack:	#2/12 Sand
Filter Pack Interval(s):	14.0-35.0 ft bgs
Drilling Contractor:	Cascade Drilling
Drilling Method:	Hollow Stem Auger
Drilling Rig:	CME 95
Driller(s):	Ignacio, Luis, Matthew
Latitude (N):	38.240161
Longitude (E):	-121.410321
Surface Elevation:	12.70
TOC Elevation:	14.98
Elevation Datum:	NAVD88
Start Date:	9/21/2023
Completion Date:	9/22/2023
Logged By:	A. Tolan
Reviewed By: (initial when complete)	J. Shaw PG#7759 JRS
Remarks:	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	OVM (ppmv)
25		0
25–26.5	1.1	
26		0
26.5–28.5	2	
27		0
28		0
28.5–30	1.5	
29		0
29.5		0
30–32	2	
30.5		0
31.5		0
32–33.5	1.5	
33.5		0
33.5–35	1.5	
34.5		0

Geologic Materials & Observations	USCS Code
WELL GRADED SAND continued Trace fine gravel at 26 ft bgs	
SILT; dark gray (GLEY 1 4/N); 16-25% clay; 10% fine-grained sand; non-plastic to low plasticity; very hard; moist; no odor	ML
WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW
SILT; dark gray (GLEY 1 4/N); 16-25% clay; 10% fine-grained sand; non-plastic to low plasticity; very hard; moist; no odor	ML
WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW
SANDY SILT; dark gray (GLEY 1 4/N); 40% fine-grained sand; soft; moist; no odor	SM
SILTY SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sand; 15% silt; very wet; no odor	
SANDY SILT; brown (10YR 4/3); 40% fine-grained sand; soft; moist; no odor	ML
SILT WITH SAND; brown (10YR 4/3) mottled black (10YR 2/1); 15% fine-grained sand; trace clay; firm; moist; no odor	

Drilling & Other Observations:

2-foot Schedule 40 PVC Well Casing Sump

End of borehole at 35.0 ft bgs

General Notes: Upper 5 feet logged from hand auger cuttings. Geologic observations and stratigraphy from GS-M, located approximately 6 feet south of GS-S. During advancement at GS-S, an 18 inch long soil sample was collected every 5 feet for confirmation of stratigraphy. No significant differences were observed.

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: GS-M

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations
-3 to 0									Well Monument and Rapid-Set Structural Concrete Pad (4' x 4' x 6")
0	5				0	SILTY SAND; brown (10YR 4/3); fine-grained sand; 30% silt; dry; no odor	SM		
1				0	1				Cement Grout Mix (Type I/II Portland Cement and 5% bentonite by weight)
2				0	2				
3				0	3	SANDY SILT; brown (10YR 4/3); 30% fine-grained sand; trace clay; hard; dry; no odor	ML		Schedule 40 PVC Blank Casing
3.5						POORLY GRADED SAND; dark yellowish brown (10YR 4/6); fine to medium-grained sub-angular sand; 5% silt; dry; no odor	SP		
4				0	4	SILTY SAND; brown (10YR 4/3); fine-grained sand; 30% silt; dry; no odor	SM		
5	1.5			0	5	SANDY SILT; dark yellowish brown (10YR 3/4); 30% fine-grained sand; soft; moist; no odor	ML		
5.5				0					
6				0	6				
6.5	2								
7				0	7				
7.5						SILTY SAND; dark yellowish brown (10YR 3/4); fine-grained sand; 30% silt; moist; no odor 0.1-0.2 cm muscovite flakes at 7.5 ft bgs	SM		
8				0	8				
8.5	1.3					SILT WITH SAND; dark yellowish brown (10YR 3/4); 15% fine-grained sand; soft; moist; no odor	ML		
9				0	9				
10				0	10				

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: GS-M

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations	Depth (ft bgs)
						SILT WITH SAND continued	ML			
11	2			0	11					11
						SILTY SAND; dark yellowish brown (10YR 4/4); fine-grained sand; 15% silt; moist; no odor				
12				0	12	POORLY GRADED SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sub-angular sand; 5% silt; trace fine gravel; moist to wet; no odor	SP			12
	1.4									
13				0	13	SILTY SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sand; 15% silt; moist; no odor	SM			13
14	1.5			0	14	Moist to wet at 14 ft bgs				14
15				0	15	POORLY GRADED SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sub-angular sand; 5% silt; trace coarse-grained sand and fine gravel; very wet; no odor	SP	▼	DTW on 9/22/2023 @ 10:00	15
16	1.5			0	16					16
17					17					17
	2			0						
18					18					18
				0						
19	1.5			0	19					19
						SILTY SAND; dark yellowish brown (10YR 3/4); fine grained sand; 30% silt; moist; no odor	SM			
20					20	Very wet at 20 ft bgs				20
21	2			0	21					21
22				0	22	WELL GRADED SAND; dark yellowish brown (10YR 4/4); fine to coarse-grained sand; 5% silt; wet; no odor	SW			22
	1.5									
23				0	23	SILTY SAND; dark yellowish brown (10YR 4/4); fine-grained sand; 20% silt; wet; no odor	SM			23
						WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW			
24	1.5			0	24					24

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: GS-M

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Geologic Materials & Observations	USCS Code
25	1.1			0	WELL GRADED SAND continued	
26				0	Trace fine gravel at 26 ft bgs	
27	2			0		
28				0	SILT; dark gray (GLEY 1 4/N); 16-25% clay; 10% fine-grained sand; non-plastic to low plasticity; very hard; moist; no odor	ML
29	1.5			0, 0	WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW
30					SILT; dark gray (GLEY 1 4/N); 16-25% clay; 10% fine-grained sand; non-plastic to low plasticity; very hard; moist; no odor	ML
30	2			0	WELL GRADED SAND; gray (10YR 5/1); fine to coarse-grained sub-rounded sand; 5% silt; wet; no odor	SW
31				0		
32					SANDY SILT; dark gray (GLEY 1 4/N); 40% fine-grained sand; soft; moist; no odor	SM
32	1.5				SILTY SAND; dark yellowish brown (10YR 4/4); fine to medium-grained sand; 15% silt; very wet; no odor	
33				0	SANDY SILT; brown (10YR 4/3); 40% fine-grained sand; soft; moist; no odor	ML
34	1.5			0	SILT WITH SAND; brown (10YR 4/3) mottled black (10YR 2/1); 15% fine-grained sand; trace clay; firm; moist; no odor	
35	1.5			0, 0	SILT; brown (10YR 4/3); 16-25% clay; 10% fine-grained sand; low plasticity; soft; moist; no odor Increase in clay and decrease in sand with depth; hard at 36 ft bgs	
37	2			0	SANDY SILT; yellowish brown (10YR 5/4); 40% fine-grained sand; firm; moist; no odor	
38				0	SILTY SAND; yellowish brown (10YR 5/4); fine-grained sand; 40% silt; moist; no odor	SM

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: **GS-M**

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations	Depth (ft bgs)
				0		SILTY SAND continued				
39	1.5			0	39	Increase in sand and decrease in silt with depth				39
40	2				40	SILT; dark gray (GLEY 1 4/N); 26-40% clay; 10% fine-grained sand; low plasticity; soft; wet; no odor	ML			40
41				0	41	SILT WITH SAND; dark gray (GLEY 1 4/N); 15% fine-grained sand; trace clay; soft; moist to wet; no odor				41
42	1.5			0	42					42
43				0	43	SANDY SILT; dark gray (GLEY 1 4/N); 40% fine-grained sand; soft; moist; no odor				43
44	1.5			0	44					44
45	1.5			0	45	SILT WITH SAND; dark gray (GLEY 1 4/N); 15% fine-grained sand; 6-15% clay; very hard; moist; no odor				45
46					46	SILT; dark gray (GLEY 1 4/N); 6-15% clay; very hard; 10% fine-grained sand; dry to moist; no odor				46
47	2			0	47					47
48				0	48	SILT WITH SAND; dark gray (GLEY 1 4/N); 15% fine-grained sand; 6-15% clay; firm; moist; no odor				48
49	1.5				49					49
50	1			0	50	SANDY SILT; dark gray (GLEY 1 4/N); 30% fine-grained sand; trace clay; soft; dry to moist; no odor				50
51				0	51					51
52				0	52	Hard at 52 ft bgs				52

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: GS-M

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Geologic Materials & Observations	USCS Code	Drilling & Other Observations	Construction
52.6–53	1.5			0, 0	SANDY SILT continued	ML		Grout
53.5–55	0.5			0 (54)	SILTY SAND; dark gray (GLEY 1 4/N); fine to medium-grained sand; 20% silt; wet; no odor	SM		Grout
55–56.5	1.5			0 (55.5), 0 (56)	SILT WITH SAND; dark gray (GLEY 1 4/N); 15% fine-grained sand; 6-15% clay; firm; moist; no odor. Very hard at 56 ft bgs	ML		Grout
56.5–58.5	1.3			0 (57), 0 (57.5)				Grout
58.5–60	1.5			0 (58.5), 0 (59.5)	SANDY SILT; dark gray (GLEY 1 4/N); 30% fine-grained sand; 6-15% clay; hard; moist; no odor. Increase in sand and decrease in silt with depth; trace clay at 60 ft bgs			Grout
60–62	1.8			0 (60.5), 0 (61.5)				Grout
62–63.5	1.5			0 (62.5)	SILTY SAND; dark gray (GLEY 1 4/N); fine to medium-grained sub-rounded sand; moist; no odor	SM	Time-Release Coated Bentonite Pellets	Bentonite pellets
63.5–65	1.4			0 (64), 0 (64.5)	POORLY GRADED SAND; dark gray (GLEY 1 4/N); fine to medium-grained sub-rounded sand; 5% silt; wet; no odor	SP		Bentonite pellets
65–66.5	1.4			0 (66.4)	SILTY SAND; dark gray (GLEY 1 4/N); fine to medium-grained sub-rounded sand; 15% silt; moist to wet; no odor	SM		Bentonite pellets

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: **GS-M**

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Stratigraphy	Water Depth	Drilling & Other Observations	Construction	Depth (ft bgs)
						SILTY SAND continued						
67	0.5			0	67	Wet at 66.5 ft bgs				#2/12 Sand		67
68					68							68
69	1.1			0	69							69
70	1			0	70							70
71					71							71
72	2			0	72					Schedule 40 PVC 0.020-inch Slotted Screen		72
73				0	73							73
74	0.9			0	74							74
75	0.9			0	75							75
76					76							76
77	1			0	77							77
78					78							78
79	0.5			0	79							79
80				0	80	Moist to wet at 80 ft bgs						80

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID:
GS-M

Well Completion: Monument with Bollards
Casing Type: 2-in Sch 80 PVC
Cased Depth: 0 to 99.0 ft bgs
Screened Interval(s): 72.0 to 97.0 ft bgs
Screen Type: Schedule 40 PVC
Screen Aperture: 0.020-in
Conductor Casing: N/A
Conductor Interval: N/A
Borehole Diameter: 8-in
Borehole Depth: 110.0 ft bgs

Grout: Type I/II Portland Cement
Grout Interval: 0 to 62.0 ft bgs
Transition Seal: Time Released Bentonite Pellets
Transition Interval(s): 62.0-67.0 & 100.0-110.0 ft bgs
Filter Pack: #2/12 Sand
Filter Pack Interval(s): 67.0-100.0 ft bgs
Drilling Contractor: Cascade Drilling
Drilling Method: Hollow Stem Auger
Drilling Rig: CME 95
Driller(s): Ignacio, Luis, Matthew

Latitude (N): 38.240146
Longitude (E): -121.410317
Surface Elevation: 12.90
TOC Elevation: 15.08
Elevation Datum: NAVD88
Start Date: 9/19/2023
Completion Date: 9/22/2023
Logged By: A. Tolan
Reviewed By: J. Shaw PG#7759
(initial when complete) JRS
Remarks: Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Water Depth	Drilling & Other Observations	Depth (ft bgs)
	1			0		SILTY SAND continued				
81					81					81
82	1.5			0	82	Medium-grained sand absent; fine-grained sand at 82.5 ft bgs				82
83				0	83					83
84	1			0	84					84
85	2			0	85	Increase in silt and decrease in sand with depth				85
86				0	86	SANDY SILT; dark gray (GLEY 1 4/N); 40% fine-grained sand; trace clay; soft; moist to wet; no odor	ML			86
87	1.5			0	87					87
88				0	88	SILTY SAND; dark gray (GLEY 1 4/N); fine-grained sand; 40% silt; moist to wet; no odor	SM			88
	1.5					POORLY GRADED SAND; very dark gray (GLEY 1 3/N); fine to medium-grained sub-rounded sand; 5% silt; trace coarse sand; wet; no odor	SP			
89				0	89					89
				0						
90	1.4			0	90					90
91				0	91					91
92	1.5			0	92					92
93				0	93					93
	1					WELL GRADED SAND; very dark gray (GLEY 1 3/N); fine to coarse-grained sub-rounded sand; 5% silt; moist to wet; no odor	SW			
94				0	94					94

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: **GS-M**

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** (initial when complete)	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew	**Remarks:**	Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Geologic Materials & Observations	USCS Code	Drilling & Other Observations
94.5				0	WELL GRADED SAND continued		
95.5				0			
96	2						
96.5				0			
97.5				0	POORLY GRADED SAND; very dark gray (GLEY 1 3/N); fine to medium-grained sub-rounded sand; 5% silt; trace coarse sand; moist to wet; no odor	SP	2-foot Schedule 40 PVC Well Casing Sump
97.75	1.1						
99				0			
99.25	1.5						
99.5				0			
100					10% fine gravel at 100 ft bgs		Time-Release Coated Bentonite Pellets
100.5				0			
100.75	0.75						
102				0	Gravel absent; moist at 102.25 ft bgs		
102.5	1.5						
103				0			
104				0	Trace fine gravel; wet at 104 ft bgs		
104.25	1.5						
105				0	SILTY SAND; very dark gray (GLEY 1 3/N); fine-grained sand; 40% silt; moist; no odor	SM	
106	2			0	SANDY SILT; greenish gray (GLEY 1 5/GY); 40% fine-grained sand; soft; moist; no odor	ML	
107					Color change to very dark gray (GLEY 1 3/N) at 107 ft bgs		
107.5					1-inch fine to medium-grained sand lens at 107.5 ft bgs		
107.75	1.5						
108				0	SILT; very dark gray (GLEY 1 3/N); 16-25% clay; 10% fine-grained sand; low plasticity; soft; moist;		

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Project: Cosumnes Groundwater Subbasin
Location: 8101 New Hope Road, Galt, CA
Project No: B80081.01 T9

Borehole / Well ID: **GS-M**

Well Completion:	Monument with Bollards	**Grout:**	Type I/II Portland Cement	**Latitude (N):**	38.240146
Casing Type:	2-in Sch 80 PVC	**Grout Interval:**	0 to 62.0 ft bgs	**Longitude (E):**	-121.410317
Cased Depth:	0 to 99.0 ft bgs	**Transition Seal:**	Time Released Bentonite Pellets	**Surface Elevation:**	12.90
Screened Interval(s):	72.0 to 97.0 ft bgs	**Transition Interval(s):**	62.0-67.0 & 100.0-110.0 ft bgs	**TOC Elevation:**	15.08
Screen Type:	Schedule 40 PVC	**Filter Pack:**	#2/12 Sand	**Elevation Datum:**	NAVD88
Screen Aperture:	0.020-in	**Filter Pack Interval(s):**	67.0-100.0 ft bgs	**Start Date:**	9/19/2023
Conductor Casing:	N/A	**Drilling Contractor:**	Cascade Drilling	**Completion Date:**	9/22/2023
Conductor Interval:	N/A	**Drilling Method:**	Hollow Stem Auger	**Logged By:**	A. Tolan
Borehole Diameter:	8-in	**Drilling Rig:**	CME 95	**Reviewed By:** *(initial when complete)*	J. Shaw PG#7759 JRS
Borehole Depth:	110.0 ft bgs	**Driller(s):**	Ignacio, Luis, Matthew		

Remarks: Upper 5 ft hand-augered

Depth (ft bgs)	Recovery (ft)	Blow Count	Sample ID & Information	OVM (ppmv)	Depth (ft bgs)	Geologic Materials & Observations	USCS Code	Stratigraphy	Water Depth	Drilling & Other Observations	Construction	Depth (ft bgs)
				0		no odor	ML					
109	1.5				109	POORLY GRADED SAND; very dark gray (GLEY 1 3/N); fine-grained sub-rounded sand; 5% silt; wet; no odor	SP					109
110				0	110					End of borehole at 110.0 ft bgs		110

General Notes: Upper 5 ft logged from hand auger cuttings. Geologic observations and stratigraphy logged from continous hollow stem auger cuttings.

APPENDIX D

Field Forms – Development Logs

Groundwater Well Development Form

eki environment & water

PROJECT: New Hope Rd	DATE: 9/25/23	Well ID: GS-S
PROJECT No: B80081.01T9	PERSONNEL: Aaron Grigsby	

Purge Volume Calculation

Calculate annular space purge volume using the formula and the input from the following table.

V = [X * (monitoring well depth-water level) + [Y * (monitoring well depth – bottom of seal or water level, whichever is lowest in depth)]

Where:

V = monitoring well volume, including annular space

X = internal casing volume per unit length (gallons per linear foot)

Y = annular volume per unit length (gallons per linear foot)

34.11 ft bgs
− 11.15 ft bgs
22.96 × .16 = 3.67 gal ~~foot~~

Borehole Diameter (inches)	Casing Diameter (inches)	Volume$_{casing}$ (X) (gallons per linear foot)	Volume$_{annulus}$ (Y) (gallons per linear foot)
7	2	0.17	0.68
8	2	0.17	0.98
10	4	0.65	1.34
12	4	0.65	2.07
12	6	1.47	1.70
14	8	2.61	1.98

WELL HEAD SURVEY: Time: ______

PID (units): ______ H$_2$S (units): ______

Methane (units): ______ Other (units): ______

FREE PRODUCT CHECK: ____ bailer ____ probe

Product Thickness (units): ______

Description: ______

PURGE METHOD: *Peristaltic Pump* *Bailer* *Bladder Pump* *Submersible Pump*

PUMP/Serial No.: Monsoon Water Level Probe: Solinst WL 101

TUBING: *Temporary* or *Dedicate* *Polyethylene* or *Teflon/PTFE* Turbidity Meter: Hanna HI 98703

Multiparameter Meter Name/Serial No.: Horiba Sonde Serial No.: N/A

SCREEN DEPTH (ft below Top of Casing): ~~22-47~~ ft bgs 17-32 PURGE DEPTH (ft below Top of Casing): ~25 ft bgs

PURGE START TIME: 14:10 END TIME: 14:52 TOTAL VOLUME PURGED (Gals or Liters): 41

SAMPLE METHOD: *Peristaltic Pump* *Bailer* *Bladder Pump* *Submersible Pump*

Sample ID	Time	Container	No.	Field Filtered	Preserv.	Notes/Description (Duplicates, QA/QC, MS/MSD, etc.)
				☐		
				☐		
				☐		

24-Hour Clock Time (hh:mm)	Purge Rate (mL/min or gals/min)	btoc Depth to water (feet)	Volume Purged (Gals or Liters)	Temp. (°C)	DO (mg/L)	Electrical Conductivity (µS/cm OR mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Activity / Notes / Other
—	—	15.0	—						—	initial ft btoc
14:30	~1	14.4	20	20.06	4.46	.702	7.37	68	563	
14:33	~1	14.33	23	19.68	2.33	.698	6.86	75	520	
14:36	~1	14.32	26	19.51	3.88	.703	6.71	70	458	
14:39	~1	14.32	29	19.41	2.71	.698	6.60	71	469	
14:42	~1	14.30	32	19.32	2.26	.700	6.55	71	484	
14:45	~1	14.30	35	19.21	0.65	.703	6.51	68	449	
14:48	~1	14.30	38	19.24	0.68	.701	6.48	68	378	
14:51	~1	14.30	41	19.14	0.71	.703	6.48	68	393	Stop

Additional Notes: initial ~~WL = 37.~~ Total depth = 37.9 ft btoc / 34.11 ft bgs
Final total depth = 38.0 ft btoc / 34.11 ft bgs

Low-flow purging will generally be considered complete when field parameters stabilize, using the following criteria (unless otherwise specified in site-specific work plan):

pH: +/- 0.1 pH unit *Temperature: +/- 3%* *Conductivity: +/- 3%* *DO: +/- 10%* *ORP: +/- 10 mV* *Turbidity: +/- 10%* 1 gal = 3785 mL

Final WL = 15.0 ft btoc

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Groundwater Well Development Form

PROJECT: New Hope Rd	DATE: 9/25/23	Well ID: GS-M
PROJECT No: B80081.01 T9	PERSONNEL: Aaron Grigsby	

Purge Volume Calculation

Calculate annular space purge volume using the formula and the input from the following table.

V = [X * (monitoring well depth-water level) + [Y * (monitoring well depth – bottom of seal or water level, whichever is lowest in depth)]

Where:

V = monitoring well volume, including annular space

X = internal casing volume per unit length (gallons per linear foot)

Y = annular volume per unit length (gallons per linear foot)

99 ' bgs
-15 ' bgs
84 x 0.16 = 13.44 gal / foot

Borehole Diameter (inches)	Casing Diameter (inches)	Volume$_{casing}$ (X) (gallons per linear foot)	Volume$_{annulus}$ (Y) (gallons per linear foot)
7	2	0.17	0.68
8	2	0.17	0.98
10	4	0.65	1.34
12	4	0.65	2.07
12	6	1.47	1.70
14	8	2.61	1.98

WELL HEAD SURVEY:

PID (units): ________ Time: ________

Methane (units): ________ H_2S (units): ________

Other (units): ________

FREE PRODUCT CHECK: ____ bailer ____ probe

Product Thickness (units): ________

Description: ________

PURGE METHOD: *Peristaltic Pump* *Bailer* *Bladder Pump* *Submersible Pump*

PUMP/Serial No.: Monsoon

Water Level Probe: Solinst WL 101

TUBING: *Temporary* or *Dedicated* *Polyethylene* or *Teflon/PTFE*

Turbidity Meter: Hanna HI 98703

Multiparameter Meter Name/Serial No.: Horiba

Sonde Serial No.: N/A

SCREEN DEPTH (ft below Top of Casing): ~~77~~ 72-97 ft btoc

PURGE DEPTH (ft below Top of Casing): 84 ft btoc

PURGE START TIME: 12:48 END TIME: 13:50

TOTAL VOLUME PURGED (Gals or Liters): ~91

SAMPLE METHOD: *Peristaltic Pump* *Bailer* *Bladder Pump* *Submersible Pump*

Sample ID	Time	Container	No.	Field Filtered	Preserv.	Notes/Description (Duplicates, QA/QC, MS/MSD, etc.)
				☐		
				☐		
				☐		

24-Hour Clock Time (hh:mm)	Purge Rate (mL/min or gals/min)	BTOC Depth to water (feet)	Volume Purged (Gals or Liters)	Temp. (°C)	DO (mg/L)	Electrical Conductivity (µS/cm OR mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Activity / Notes / Other
—	—	17.0	~27	—	—	—	—	—	—	initial
12:50	~1	17.0	31	21.66	—	.661	9.79	-23	>1000	
12:55	~1	19.0	36	20.33	—	.532	8.43	-135	>1000	
13:00	~1	19.35	41	21.46	—	.179	7.72	-41	>1000	
13:05	~1	~~19~~.30	46	20.05	1.05	.518	7.75	-70	>1000	
13:10	~1	19.30	51	19.50	0.53	.520	7.33	-120	>1000	
13:15	~1	19.30	56	19.38	0.78	.521	7.12	-135	964	
13:20	~1	19.27	61	19.11	0.38	.522	7.07	-149	962	
13:25	~1	19.26	66	18.98	0.67	.521	7.08	-144	838	

Additional Notes: Initial Total depth ~95 ft bgs; initial WL = ~~15.0~~ 17.0 ft ~~bgs~~ TOC

Final total depth ~98.5 ft bgs; Final WL = ~~15.0~~ 17.20 ft TOC

Low-flow purging will generally be considered complete when field parameters stabilize, using the following criteria (unless otherwise specified in site-specific work plan):

pH: +/- 0.1 pH unit *Temperature: +/- 3%* *Conductivity: +/- 3%* *DO: +/- 10%* *ORP: +/- 10 mV* *Turbidity: +/- 10%* 1 gal = 3785 mL

eki environment & water

Groundwater Well Development Form

PROJECT / PROJECT No.: B80081.01	DATE: 9/25/23	Well ID: GS-M

24-Hour Clock Time (hh:mm)	Purge Rate (mL/min or gals/min)	btoc Depth to water (feet)	Volume Purged (Gals or Liters)	Temp. (°C)	DO (mg/L)	Electrical Conductivity (µS/cm OR mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Activity / Notes / Other
13:30	~1	~~21~~ 19.25	71	19.01	0.85	.521	7.03	-153	800	
13:35	~1	19.25	76	19.03	0.44	.516	7.07	-162	767	
13:40	~1	19.21	81	18.85	0.58	.520	6.90	-161	632	
13:45	~1	19.21	86	18.78	0.45	.521	6.87	-153	683	
13:50	~1	19.21	91	18.75	0.38	.521	6.81	-150	577	Stop

Additional Notes:

APPENDIX E

County of Sacramento Surveyor's Report

Ann Edwards
County Executive

Dave Defanti
Deputy County Executive
Community Services Agency

Troy Givans, Director
Community Development
Department

County of Sacramento

September 29, 2023

TO: Department of Water Resources
827-7th Street
Sacramento, CA 95814
ATTENTION: Chris Hunley
SUBJECT: New Hope Road – Monitoring Well Survey

The following two (2) new monitoring wells were surveyed on September 27, 2023.

Well ID	*North/ East*	*Lat/Long (DMS)*	*Lat/Long (DD)*	*NAVD88 Elevations PVC*	*Rim*	*Concrete*
GS-M	1849826.7 6731038.8	38°14'24.526" 121°24'37.143"	38.240146° 121.410317°	15.08	15.44	12.9
GS-S	1849832.1 6731037.6	38°14'24.579" 121°24'37.156"	38.240161° 121.410321°	14.98	15.41	12.7

BASIS OF HORIZONTAL COORDINATES:

The California Coordinate System of 1983 (*CCS83*), *Zone 2, NAD 83 Epoch: 2010.00*, established with multiple G.P.S. observations and a single point site calibration holding NGS Station **NEW HOPE** (PID: AE9878). Coordinate values established at the center point of the well casings.

PT ID	*Northing*	*Easting*
New Hope	1849757.20	6733186.25

BASIS OF ELEVATIONS:

Elevations are based on the North American Vertical Datum of 1988 (*NAVD88)*, being established with multiple G.P.S. observations on NGS Station **NEW HOPE** (PID: AE9878), having a published elevation of 14.0 feet. Elevations were taken at the top (*highest point*) of the stated object.

All values herein are in United States survey feet, and decimals thereof.

See Sacramento County Field Note Index N-66, attached hereto.

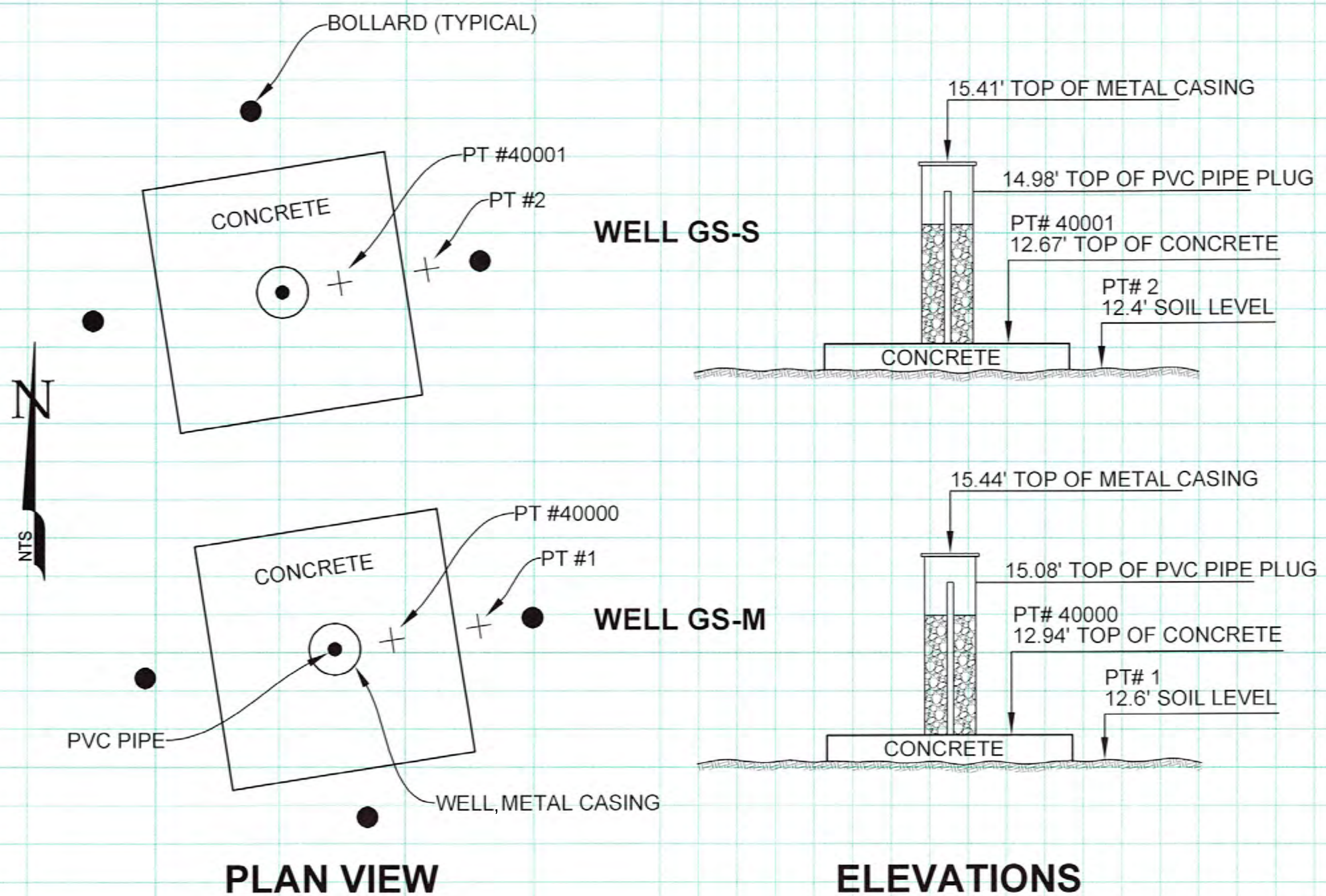
Robert W. Snow, PLS 8813
State of California Licensed Land Surveyor

LICENSED LAND SURVEYOR
ROBERT W. SNOW
LS 8813
STATE OF CALIFORNIA

9664 Ecology Lane, Sacramento, California 95827 • phone (916) 874-6546 • www.saccounty.net

Photo taken on September 27, 2023, facing northerly to the subject monitoring wells.

	COUNTY OF SACRAMENTO		SURVEY SECTION		
Project:	N-66 NEW HOPE RD - DWR WELL SITE	Crew:	A. MAWLAEE	Date:	09 / 27 / 2023
	ELEVATIONS			Page:	3 of 3
	COUNTY OF SACRAMENTO	ELEVATIONS SHOWN ARE N.A.V.D.88 HOLDING NGS POINT AE9878 (NEW HOPE)			



N66

APPENDIX F

Investigation-Derived Waste Disposal Documents

4 October 2023

Subject: **Waste Transfer**
B80081.01 T8

Belshire Environmental Services Inc. has been requested to transfer (1) roll off bin load of soil which will include a plastic liner from *8101 New Hope Road, Galt CA 95632* to *12901 Twin Cities Road, Herald, CA 95632* under the direction of **Chris Hunley, County of Sacramento, member of the Cosumnes Groundwater Authority**. A bill of lading document will be utilized to record the movement of this material. This document acknowledges that the receiving property is under the direct control of **Chris Hunley, County of Sacramento, member of the Cosumnes Groundwater Authority** and/or agreement between **Chris Hunley, County of Sacramento, member of the Cosumnes Groundwater Authority** and the owner of *12901 Twin Cities Road, Herald, CA 95632* for the transfer of material to their property.

A representative for **Chris Hunley, County of Sacramento, member of the Cosumnes Groundwater Authority** will be present to direct placement of the material at the destination location. Belshire Environmental Services Inc. is not responsible for any permitting, waivers, and/or future liability or costs associated with the transferred material. Please note Belshire Environmental Services Inc will **not** place any material into a wetland, marsh or other body of water.

John Fio
Principal Hydrogeologist
EKI Environment & Water, Inc.

D R A F T

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. 358691-BOL-(

Carrier No.

Date

Page 1 of 1

BELSHIRE
(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:

Consignee: 12901 Twin Cities Road

Street: 12901 Twin Cities Road

City: Herald State: CA Zip Code: 95632

FROM:

Shipper: Grizzly Slough Property

Street: 8101 New Hope Road

City: Galt State: CA Zip Code: 95632

24 hr. Emergency Contact Tel. No.

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
		Non-Hazardous Soil				
		BESI #: 358691				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding ________ per ________."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

________ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

________ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER

CARRIER

PER BELSHIRE

DATE

1

Permanent post-office address of shipper.

APPENDIX G

Construction Photographs

APPENDIX G
CONSTRUCTION PHOTOGRAPHS
Taken 18-25 September 2023

Photo 1: Entrance gate at New Hope Road, looking north.

Photo 2: Site work and staging areas prior to construction fencing installation, looking south.

Photo 3: Construction fencing delineating work and staging areas, looking north.

Photo 4: Construction fencing delineating work and staging areas, looking northwest.

Photo 5: Construction fencing delineating work and staging areas, looking northeast. Note soil roll off bin.

Photo 6: Hollow stem auger rig advancing well GS-M, looking west.

APPENDIX G
CONSTRUCTION PHOTOGRAPHS
Taken 18-25 September 2023

Photo 7: Well GS-M construction, looking northeast.

Photo 8: Hollow stem auger rig advancing well GS-S, looking northwest.

Photo 9: Well GS-S construction, looking northeast.

Photo 10: Wells GS-S and GS-M development, looking west.

Photo 11: Completed wells GS-S (right) and GS-M (left), looking northwest.

Photo 12: Completed wells GS-S (right) and GS-M (left), looking west.

APPENDIX G
CONSTRUCTION PHOTOGRAPHS
Taken 18-25 September 2023

Photo 13: Completed wells GS-S (right) and GS-M (left), looking northwest. Note construction fencing removed.

Photo 14: Site work and staging areas post well construction looking northeast. Note construction fencing removed.

Photo 15: Site work and staging areas post well construction looking southwest. Note construction fencing removed.

Photo 16: Site work and staging areas post well construction looking southwest. Note construction fencing removed.

APPENDIX F

CGA Work Plan

CGA Workplan FY 23/24	Monthly	July/August	September/ October	November/ December	January/February	March/April	May/June
Operations Board, Staff	Financial Report (Staff, Treasurer, Board)	***Adopt Member Contribution Agreement*** (Board) ***Approve MultiYear Annual Report + Monitoring Contract*** (Board) ***Finalize FY 22 Audit*** (Staff, Board) ***Start FY 23 Audit*** (Staff, Board) **Develop Cash Flow Projection** (Staff, Treasurer)			***Finalize FY 23 Audit*** (Staff, Board)	***Review Draft FY 24-25 Budget*** (Staff, Treasurer)	***Adopt FY24-25 Budget*** (Board) ***Adopt Long Term Member Contribution Agreement*** (Board)
Fee Study Development Board, Staff		***Finalize Fee Study Parcel Data*** (Staff, SCI Consulting) ***Determine Fee Program Budget, Adoption Schedule, and Coordination w/RD800*** (Board)	***Review DRAFT Fee Study*** (Board) ***Develop GW User Dashboard*** (Staff, Consultants)	Outreach (Staff, O&E, CAC)	Outreach (Staff, O&E, CAC)	***Approve Final Fee Study*** (Board)	***Implement Fee Study*** (GSAs)
Outreach and Engagement O&E Cmte., CAC Cmte.	Response to Public Questions (Staff), Website Management (Staff) **Informational Sessions Schedule Periodically**	**O&E Meeting:** Spring GW Conditions, Newsletter, September Public Workshop **Newsletter:** GW Conditions (Staff, O&E)	**Public Workshop**/Open House (Staff, O&E, CAC) **CAC Meeting:** TBD (Staff, CAC)	**O&E Meeting:** Fee Study Newsletter re: Fee Study (Staff, O&E) **CAC Meeting:** GW Conditions + Fee Study (Staff, CAC)	**Public Workshop** on Fee Study (Staff, O&E, Board)	**CAC Meeting:** Fee Study, PMAs, TBD (Staff, CAC) **O&E Meeting:** Spring GW Conditions, Newsletter, Summer Outreach	**Newsletter:** GW Conditions (Staff, O&E)
SGMA Implementation Board, Staff, PMA Cmte.		**PMA Meeting:** Well Permitting Criteria, Project Funding (fee study), Monitoring Network (Staff, PMA) **Monitoring Network:** Update access agreements, explore technology improvements, develop work plan (Staff, Consultants)	***Fall (WY 24) Monitoring Event*** (Staff, Consultants) **TBD: Response to State Comments** (Staff, Consultants, Board)	**PMA Meeting:** Conservation PMA, Response to State Comments (Staff, PMA) **TBD: Response to State Comments** (Staff, Consultants, Board)	**PMA Meeting:** Annual Report, Conservation PMA (Staff, PMA, Consultants)	***Submit GSP WY 2023 Annual Report*** (Staff) ***Spring (WY 24) Monitoring Event*** (Staff, Consultants)	**PMA Meeting:** Conservation PMA, TBD (Staff, PMA, Consultants)
Other/PMAs	**Indicates a major SGMA/CGA milestone.**		***Apply for WaterSMART Grant*** (Staff)	**PMA+O&E: Conservation PMA:** BMP Outreach Effort (Staff, PMA, O&E)			