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SECOND QUARTER 2023

PREPARED FOR:



July 17, 2023



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760-872-1033 459 W. Line Street, Suite A Bishop, CA 93514

Dr. Holly Alpert Inyo County Water Department 135 South Jackson Street Independence, CA 93526 July 17, 2023

RE: Hay Ranch Project Conditional Use Permit

Hydrologic Monitoring Report, Second Quarter 2023

Inyo County, California

Dear Dr. Alpert:

TEAM Environmental (TEAM), is pleased to present the results of hydrologic monitoring activities relating to the Hay Ranch Project Conditional Use Permit (#2007-003), conducted in Rose Valley from April to June 2023.

This report, entitled "Hay Ranch Project Conditional Use Permit Hydrologic Monitoring Report, Second Quarter 2023, Inyo County, California," was produced per the guidelines of the Coso Operating Company Hay Ranch Water Extraction and Delivery System Final Environmental Impact Report's Hydrologic Monitoring and Mitigation Plan (HMMP) and subsequent direction from the Inyo County Water Department.

Information provided in this report includes a summary of Rose Valley monitoring activities conducted during Phase 1 of the Hay Ranch Project in 2009. This report also includes hydrologic monitoring data collected during Phase 2 and Phase 4 of the Hay Ranch Project from December 2009 through June 2023. This report presents groundwater elevation, surface flow, water quality and production well pumping data in tabular and graphical form in accordance with the HMMP.

If you have any questions or require additional information, please contact TEAM at your convenience.

Sincerely,

TEAM Environmental

Greg M. Foote

Senior Environmental Scientist

Cc: Chris Ellis, Coso Operating Company LLC

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Abbreviations and Acronyms

AF	Acre-feet		
AFY	Acre-feet per year		
BLM Bureau of Land Management			
CEQA	California Environmental Quality Act		
COC	Coso Operating Company		
CUP	Conditional Use Permit		
DBS&A	Daniel B. Stephens & Associates		
DTW	Depth-to-Water		
DEIR Draft Environmental Impact Report			
FEIR	Final Environmental Impact Report		
GWE	Groundwater Elevation		
НММР	Hydrologic Monitoring and Mitigation Plan		
ICWD	Inyo County Water Department		
LLR	Little Lake Ranch		
LADWP	Los Angeles Department of Water and Power		
TEAM	TEAM Environmental		
TDS	Total Dissolved Solids		

1.0 EXECUTIVE SUMMARY

The following summarizes hydrologic monitoring activities during Second Quarter 2023, related to the Coso Operating Company's (COC) Hay Ranch Project Conditional Use Permit (CUP):

- Hay Ranch Project CUP pumping was initiated on December 25, 2009. A total of approximately 18,130 acre-feet have been pumped from the Hay Ranch North and South production wells through June 15, 2023, in compliance with the Inyo County Water Department's (ICWD) Hay Ranch CUP. Totalizers indicate approximately 18 acre feet (AF) of groundwater were pumped from the Hay Ranch wells from January 19 to June 15, 2023. The totalizers were not operational in February and March 2023.
- During Second Quarter 2023, monthly groundwater and surface water data were collected from monitoring points throughout Rose Valley generally following the schedule established by the Hay Ranch Project CUP's Hydrologic Monitoring and Mitigation Plan.
- Based on Second Quarter 2023 groundwater monitoring data and using the Maximum Allowable Pumping amounts and Trigger Levels, there were no Trigger Levels or Maximum Acceptable Drawdown levels exceeded during the Second Quarter 2023.
- Due to access issues, quarterly groundwater samples were not collected from the Coso Junction Store #2 and Little Lake Ranch North wells.
- Quarterly hydrographs, which compare Rose Valley groundwater elevations, surface flow amounts, and TDS data to Hay Ranch Project CUP pumping amounts over time, are included in this report.
- TEAM provided monthly data, including groundwater and surface water hydrographs, to ICWD. Monthly update letters and groundwater and surface water hydrographs have been posted on the ICWD's public website: www.inyowater.org
- Due to releases of water from Haiwee Reservoir and the Los Angeles Aqueduct many roads had access issues due to flooding during the Second Quarter 2023.

2.0 INTRODUCTION

The Coso Operating Company, LLC (COC) operates a geothermal electric generating plant located to the east of Rose Valley in the Coso Mountains in Inyo County, California. COC proposed a project to pump water into the Coso geothermal field from groundwater wells located on the COC Hay Ranch Property in the Rose Valley Basin. Inyo County, as lead agency, approved the Final Environmental Impact Report (FEIR) associated with this project in 2009, issuing a CUP for the project: Hay Ranch Water Extraction Project CUP #2007–03 (Hay Ranch Project). The FEIR includes a Hydrologic Monitoring and Mitigation Plan (HMMP) which stipulates monitoring and mitigation requirements associated with the project. The primary objective of the HMMP is to protect the groundwater and surface water quality and availability in Rose Valley. In May 2009, ICWD approved TEAM Environmental (TEAM) as the objective, third-party groundwater monitor with respect to the monitoring requirements stipulated in the HMMP.

2.1 Background

The Rose Valley hydrologic system has been the subject of sporadic research since the early 1900s. Recent, more intensive study includes work by C. M. Bauer in 1996, and numerous studies from 2000 to the present related to the proposed Hay Ranch Project. COC has conducted groundwater monitoring since 2002 at a number of the monitoring wells specified in the HMMP. In addition to being used as an irrigation water supply well in the 1980s, the Hay Ranch South Well, the primary production well for the Hay Ranch Project, underwent two recent pump tests. In 2003, a 24-hour pump test was conducted, and groundwater elevation data was collected during this test. Then, from November to December 2007, a 14-day constant discharge aquifer test was conducted to evaluate potential impacts of the Hay Ranch Project. Groundwater elevation data was collected during this test both by data-logging pressure transducers and manual measurements taken with a depth-to-water (DTW) sounder in various Rose Valley wells.

As part of the California Environmental Quality Act (CEQA) process for the Hay Ranch Project, a Draft Environmental Impact Report (DEIR) and FEIR were produced from 2004 to 2009 with the creation of a numerical groundwater model for Rose Valley and a proposed HMMP for the project. The HMMP specifies which sites are to be included in the monitoring plan for the Hay Ranch Project, how often those sites will be monitored, the types of data to be collected, and the procedures for presenting the monitoring data to Inyo County.

The goal of the HMMP is to prevent potential off-site impacts of the Hay Ranch Project on groundwater and surface water users in Rose Valley. The HMMP is designed to monitor changes in groundwater levels throughout Rose Valley and compare the observed changes to groundwater-model predicted changes in order to predict and prevent potential impacts related to project pumping. The HMMP is broken into four phases: Phase 1 is Monitoring System Setup and Supplemental Data Collection; Phase 2 is Startup Monitoring and Reporting; Phase 3 is Model Recalibration and Redefinition of Pumping Rates and Durations; and Phase 4 is Ongoing Monitoring, Mitigation and Reporting.

In 2009, Phase 1 work was conducted by COC, TEAM and ICWD. On December 25, 2009 Phase 2 began with initiation of project pumping from the Hay Ranch South Well. In April 2010, work on Phase 3: Model Recalibration and Redefinition of Pumping Rates and Duration was initiated with ICWD retaining Daniel B. Stephens & Associates (DBS&A). Phase 3 work included groundwater model recalibration based on Phase 1 data and also on Phase 2 data collected at project monitoring points from December 2009 through September 2010. In January 2011, DBS&A submitted its "Revised Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company Hay Ranch Water Extraction Delivery System Conditional Use Permit (CUP 2007-003). "Based on results of the groundwater model recalibration, on April 1, 2011 ICWD issued an "Addendum to the HMMP for CUP#2007-003/Coso Operating Company, LLC" (2011 ICWD Addendum). This addendum set revised project pumping rates, durations, Trigger Levels and Maximum Acceptable Drawdowns for the Hay Ranch Project. With the 2011 ICWD Addendum, the project entered Phase 4: Ongoing Monitoring, Mitigation and Reporting. During Third Quarter 2013, DBS&A and ICWD conducted additional Phase 3 work resulting in new project pumping rates, pumping duration, groundwater Triggers Levels and Maximum Acceptable Drawdowns for project monitoring points as formalized in the August 30, 2013 ICWD Letter to Coso Operating Company.

In October 2013, COC paid for a proactive mitigation event at the Dunmovin well to install a new pump at greater depth in the existing domestic well. Because of the new in-well infrastructure associated with this event, groundwater monitoring at Dunmovin was discontinued.

During Second Quarter 2014, DBS&A and ICWD conducted additional Phase 3 work resulting in new project pumping rates, pumping duration, groundwater Triggers Levels and Maximum Acceptable Drawdowns for project monitoring points, as described in the June 27, 2014 ICWD Letter to Coso Operating Company.

In First Quarter 2015, at the request of COC, and in association with ICWD, TEAM conducted a Pressure Transducer Assessment which reviewed the operational status and necessity of the numerous pressure transducers currently installed in the monitoring system. As of January 2015, the project was in its seventh year of monitoring. Sections 3.3.1 and 3.3.3 of the project's HMMP discuss ongoing data collection procedures during Phase 4 and allow for minor changes to the monitoring plan provided those changes do not reduce the efficacy of the monitoring system. Based on the HMMP's stipulations and by reviewing the existing database, TEAM identified several pressure transducers deployed in the monitoring system that no longer provided critical data for the project. Therefore, pressure transducers in the following wells were not repaired or replaced as they reached the end of their serviceable life: HR 1C, HR 2C, Coso Junction Ranch, Davis Ranch Flow, Red Hill, 18–28, LLR Dock and LLR Hotel wells. These wells will continue to have monthly manual depth-to-water reads taken. As of the First Quarter 2022, transducers have been removed from all of the above listed wells.

In the Third Quarter 2015, a pump was installed in the Davis Ranch South Well. Flow measurements were discontinued after pump install because flow data was no longer

meaningful for the project due to manual control of the flow. On March 8, 2022 the flume at Davis ranch was removed.

In the Second Quarter 2016, COC requested to be allowed to pump up to 50 AF of water from the original 1,614 AFY they were allotted for July 1, 2015 to June 30, 2016 under CUP #2007-03. In a June 20, 2016 letter, the ICWD outlined their assessment of COC's request for an extension of the pumping period and allowed for COC to pump the volume remaining of the 1,614 AF that was allotted for July 1, 2015 to June 30, 2016. The letter also stated that COC pumping totals were not to exceed 1,614 AF from July 1, 2015 to September 30, 2016 and trigger and maximum acceptable drawdown levels were to remain in force and unchanged from the June 27, 2014 model recalibration values.

During the period of September 2016 through May 2017, COC ceased export and entered into a water recovery phase. Groundwater level monitoring continued in Rose Valley during this period to track changes in groundwater levels (both recovery and/or decline) and to continue to monitor the Little Lake system.

Re-evaluation of pumping rates, based on recalibration of the model, was conducted by DBS&A in 2017. A new pumping rate, which is not to exceed 1,611 acre-feet annually beginning on June 1, 2017, was approved in ICWD's July 27, 2017 letter to COC regarding Conditional Use Permit #2007-003/Coso. Revised Maximum Acceptable Drawdown and Drawdown at Cessation of Pumping values were provided in the DBS&A report titled "Third Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated August 24, 2017. These Drawdown at Cessation of Pumping values were confirmed by ICWD to be the new Trigger Levels effective June 1, 2017.

In October 2017 the box protecting the Cinder Road well was vandalized and removed from its well head. The transducer was missing and a blockage in the well prevented water level collection in October 2017. COC personnel cleared the blockage and water levels were able to be collected again in November 2017 with a slightly modified (unsurveyed) measuring point. ICWD personnel indicated that the transducer does not need to be replaced.

In November 2017 the transducer in the Lego well ceased to work and as advised by ICWD personnel, it was not replaced. Monthly depth-to-water measurements will continue to be collected at this location.

In June 2018 and subsequent monitoring events, DTW was unable to be measured at the Cal Pumice well. The effective total depth of Cal Pumice was measured to be approximately 238 feet, significantly shallower than historic measurements. It is anticipated that this location will be monitored periodically to determine if water levels continue to be unmeasurable.

In a letter dated November 21, 2018, Coso indicated that they would cease pumping until May 31, 2019, requesting a time extension beyond the current permitted pumping timeline. In a letter dated November 27, 2018, the ICWD agreed to allow Coso to pump up to the remaining 1,936 AF that was previously permitted to be pumped through May 31, 2019; provided that the

annual pumping rate remains below 1,611 AF per 12-month period, and all other conditions of the CUP are adhered to. Pumping was permitted to continue until May 31, 2021.

In an email dated January 14, 2020, Inyo County Water Department Hydrologist Keith Rainville provided information regarding hydrologic responses to the July 2019 Ridgecrest Earthquakes, portions of which are excerpted here:

On July 4 and 5, 2019 two large earthquakes, magnitudes (Mw) 6.4 and 7.1, respectively, struck the Ridgecrest area in the vicinity of the Ash Hill, Airport Lake and Little Lake fault zones. Groundwater levels in Rose Valley, located approximately 20–30 miles northwest of the epicenters, have responded to these seismic events with both temporary step-changes and some longer-term trends as noted in Hay Ranch CUP monitoring wells.

Although the exact mechanism for the observed groundwater level and discharge changes in southern Rose Valley has not been determined, comparing pre-seismic trends with post seismic groundwater levels seem to indicate that the July 2019 Ridgecrest earthquake has changed the transmissivity of subsurface materials in the vicinity of the Red Cone cinder hill, allowing more flow from the north and west towards the Little Lake area. Possible mechanisms included seismic fracturing of brittle volcanics beneath Red Cone creating preferential flow pathways or unclogging existing flow pathways and, thus, increasing transmissivity. Project staff (ICWD, TEAM, and DBS&A) will continue to monitor and assess these changes.

The flumes at Little Lake Ranch were checked for proper operation in January 2020 by TEAM Hydrologist Steve Keef. The LLR Lake Outflow flume (RV-230) was noted to have accuracy limitations due to a restriction of flow downstream of the flume. Maintenance has been recommended by TEAM but not scheduled to be performed due to landowner restrictions. During the December 2022 monitoring event the flow at Little Lake Outflow flume (RV-230) was observed to be backed-up and significantly over measuring flow. Due to the inaccuracy, data for this measuring point was not presented.

During the July 2020 monitoring event, Little Lake surface levels were drawn down low enough to make water level collection infeasible at the stilling well (RV-220). Also in July 2020, at least three areas on the lake margin were observed to have silt removed from the lake bottom and piled up on the shoreline.

A pump was installed in the Davis Ranch North Well (RV-110) in May 2021 and depth-to-water can no longer be measured at this location.

Re-evaluation of pumping rates and duration, based on an update of the model, was conducted by DBS&A in May of 2021. Continuation of pumping, at a rate not to exceed 800 acre-feet annually from June 1, 2021 through May 31, 2025, was approved in ICWD's May 28, 2021 letter to COC regarding Conditional Use Permit #2007-003/Coso. Revised Maximum Acceptable Drawdown and Drawdown at Cessation of Pumping values were provided in the DBS&A report titled "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated

May 27, 2021. Trigger Levels were set based on the maximum annual groundwater extraction rate of 800 acre-feet per year (AFY) effective June 1, 2021 to May 31, 2025.

The flume at Davis Ranch (RV-112) was removed on March 8, 2022, thus this location is no longer monitored.

During the July 2022 monitoring event, Little Lake surface levels were drawn down low enough to make water level collection infeasible at the stilling well (RV-220).

During the March through June, 2023 monitoring events, water was observed being released from Haiwee reservoir. In June 2023 water was observed to be flowing down Little Lake Canyon and onto the Little Lake Ranch property.

3.0 PHASE 1: MONITORING AND REPORTING

The purpose of the Phase 1 Monitoring and Reporting period was to install the hydrologic monitoring system in Rose Valley and collect background data to establish prevailing hydrologic conditions prior to any potential impacts caused by Phase 2 and Phase 4 project implementation. From May to December 2009, 30 monitoring points were completed in Rose Valley from the Enchanted Village area in the north to the Little Lake Gap area in the south (Figure 1). These monitoring points include 25 wells and five surface water measuring points. Data logging pressure transducers were installed in 18 wells and five surface water measuring points to record hourly changes in water levels.

During Phase 1, two clusters of monitoring wells were completed on the Hay Ranch Property near the Hay Ranch South Well (the Hay Ranch Cluster 1 and 2 Wells). An additional monitoring well was completed north of the Red Hill Cinder Cone. Surface flow measuring devices (flumes) were installed at Davis Ranch and Little Lake Ranch (LLR). The Stilling Well was installed in the north end of Little Lake to measure lake level (stage).

Access agreements were finalized between COC and Rose Valley land owners to collect hydrologic data at numerous points in Rose Valley. Security systems were installed at Rose Valley monitoring points where necessary. Monitoring points were surveyed for northing, easting and elevation data.

Also during Phase 1, monthly field events were conducted to collect Depth to Water (DTW) and surface flow data from Rose Valley monitoring points. Background hydrologic data was collected from May to December 2009, and a data processing and transfer system was established between TEAM and ICWD. Monthly data packages, update letters and groundwater and surface flow hydrographs were produced. At least six months of groundwater elevation data was collected from wells specified by the HMMP to be used as "Trigger Wells" in the monitoring system.

3.1 Rose Valley Monitoring Points

The hydrologic monitoring points throughout Rose Valley vary from active supply wells, to newly constructed monitoring wells, to inactive/former supply wells, to a hand-pumped campground well. Monitoring point locations range from the Enchanted Village area in the north to the Little Lake Hotel Well in the south, and from the Lego Well in the east to the Davis Ranch Wells in the west. Monitoring locations are on private and/or gated property as well as open, remote areas in Rose Valley. Some wells are locked in structures or behind gates, some have locked construction job boxes installed over the casings, and others have security installed on or around the well casing itself. Well owners include private individuals, the U.S. Navy, the Bureau of Land Management (BLM), the Los Angeles Department of Water and Power (LADWP), and COC. A summary table is included in this report (Table 1) which standardizes the names of the Rose Valley monitoring points and provides a reference to the names used in the HMMP for each monitoring point.

Important features of Rose Valley monitoring wells are as follows:

The Hay Ranch Cluster Wells feature shallow (1A and 2A), intermediate (1C and 2C) and deep (1B and 2B) screened intervals at each location to provide enhanced groundwater and upper aquifer data. These cluster wells provide data on groundwater drawdown on the Hay Ranch property itself. With their specific screened intervals, each cluster grouping also has the potential to provide additional information on groundwater drawdown at specific depths. This data can be assessed to deduce upper aquifer parameters such as hydraulic conductivity and specific yield.

The Enchanted Village and Dunmovin Wells are active domestic supply wells. The Coso Junction Store #1 Well is located 20 yards north of an active business supply well: Coso Junction Store #2 Well. The Fossil Falls Well is a hand-operated well that supplies water for campers. At these locations, data collection procedures are in place to recognize and minimize the effects of in-well pumping. However, DTW readings from these wells can potentially be affected by significant, recent pumping of these wells.

The Cal Pumice, Coso Junction Ranch, Lego, G-36, Red Hill, 18-28 and Cinder Road Wells are not actively pumped wells and are currently used for groundwater elevation monitoring only. Beginning in June 2018, depth-to-water in the Cal Pumice well was unable to be measured. An obstruction has been measured at about 238' below the top of casing. As agreed upon with ICWD, this well will only be monitored periodically in times of high groundwater levels.

3.2 Portuguese Bench Monitoring Points

On Portuguese Bench to the west of US 395, there are three monitoring points located at the Davis Ranch. Two of the monitoring points are supply wells for the property: Davis Ranch North and South Wells, respectively. A third monitoring point, Davis Ranch South Flow, captures outflow from the Davis Ranch South Well.

Davis Ranch North and South Wells are located just below ground surface and were observed to be artesian at the top of each well casing during Phase 1. Groundwater from these two wells flows into PVC supply pipes for use at Davis Ranch. At the Davis Ranch North Well, water from the PVC pipe flows downhill into a complicated, gravity-powered water-delivery system. Water from this North Well is used for domestic consumption and irrigation. At the Davis Ranch South Well, since July 2015, water is actively pumped (solar pump) from the well for domestic consumption or as water supply for a pond. As a result of pumping, the correlation of groundwater levels to the pressure transducer measurements in the Davis Ranch South Well may be inaccurate.

At the Davis Ranch North and South Wells, pressure transducers had been installed to record well head levels. A small change in head in these wells (e.g. hundredths of a foot) will result in increased or decreased flow. A flow metering system consisting of a trapezoidal flume and stilling well with a data-logging pressure transducer was also installed (Davis Ranch South Flow) in the PVC outflow pipe.

In July 2015, a water supply pump was installed in the Davis Ranch South Well diverting water either to the pond or a holding tank. Monthly manual flow measurements are no longer recorded at the Davis Ranch South Flow flume as the data is no longer required by the ICWD. In September 2017 the transducer in the South Well stopped working and was not replaced. In January 2020 the transducer in the North Well stopped working and was not replaced, as approved by ICWD. In May 2021, a water supply pump was installed in the Davis Ranch North Well, thus depth-to-water can no longer be measured at this location. On March 8, 2022 the Davis Ranch South Flow Flume was removed.

3.3 Little Lake Ranch Monitoring Points

The LLR area of Rose Valley (Figure 2) extends northwards to the mouth of the Fossil Falls Canyon, east along the volcanic scarp, west to US 395 with some property on the west side of the highway, and south through Little Lake Gap into the lower Little Lake area. As currently understood, Little Lake is fed by groundwater springs; there is no surface water flow into the lake. The surface elevation of Little Lake is controlled by a pair of weirs located in the lake's southwest corner. From these weirs a system of trenches moves surface water from Little Lake south to Pond 1 and Pond 2. Surface water exiting the Little Lake Weirs flows southeast via a trench system toward Pond 1. Coso Springs, located to the northeast of Pond 1, provides surface water to Pond 1. The Siphon Well, located between the Little Lake Weirs and Pond 1, is a siphon well which provides additional surface flow via an outlet pipe to Pond 2. Trenches connect surface flow between Little Lake Weir, Coso Springs, Pond 1 and Pond 2. These trenches ultimately converge, and all surface water exiting the property flows through the North Culvert, located south of Pond 2, and through the Little Lake Gap area where it can be diverted by LLR staff to various ponds and irrigation trenches in the lower Little Lake area.

At the northeast end of the property is the LLR North Well. The LLR North Well is approximately 0.75 miles north of Little Lake and has no pumping infrastructure installed. Located to the southwest of LLR North Well is the LLR 395 Well. This is the primary groundwater supply well for the property. To the southeast is the LLR Ranch House Well. This is a reserve groundwater supply well that is also pumped for irrigation purposes. The LLR Dock Well is located approximately 100 feet northwest of Little Lake itself north of the Boat House and has a gasoline-engine powered pumping system in place that is rarely used. The LLR Stilling Well is located southeast of the Boat House in the north end of Little Lake and measures the water level (stage) of the lake.

The Little Lake surface level can be manually controlled by two weirs located at the southwest corner of the lake during certain times of the year. These concrete weirs have a slat system in place which can be used to retain water or opened to release water. Surface water flowing from the Little Lake weir trench system flows through the LLR Lake Outflow flume and then is diverted into the northwest corner of Pond 1. Water from Coso Springs flows through the LLR Coso Springs Flow flume and then enters the northeast corner of Pond 1. Water leaves Pond 1 at a concrete weir in the southwest corner, and the pond's surface level can be controlled by a slat system at this weir. Water from Pond 1 flows by trench to the northwest corner of Pond 2. The LLR Siphon Well draws groundwater to the surface via a siphon pipe that discharges into

Pond 2. Pond 2 has a concrete weir in the west corner and the pond's surface level can be controlled by a slat system. Water flows from Pond 2 into a trench system that runs south through the LLR North Culvert Flow flume. LLR North Culvert Flow captures surface flow from Little Lake, Coso Springs, Ponds 1 and 2, and the Siphon Well.

The LLR Hotel Well is located west of US 395 and south of Little Lake. It is a seasonally artesian well which is not directly connected to the LLR surface water transport system.

The LLR surface water system is managed by LLR staff to direct water to parts of the property as needed for wildlife and vegetation management. A typical water management practice by LLR staff can have the following effects, for example:

In order to supply water to the lower Little Lake area, boards may be removed from the weirs at Little Lake, Pond 1 and Pond 2. Water will flow from Little Lake to the south. The resulting surface water level decline in Little Lake can be measured at the LLR Stilling Well. The LLR Lake Outflow flume will register an increase in flow. Outflow from Little Lake, Pond 1 and Pond 2, will register as increased flow at LLR North Culvert Flow. When the boards are replaced at Little Lake, at Pond 1 and at Pond 2, lake and pond levels will slowly rise. Flows will decrease at LLR Lake Outflow and LLR North Culvert Flow. Throughout this water movement event, flow from Coso Springs and the Siphon Well (if actively producing groundwater) will continue to supply water to the Ponds and, once the water levels in the Ponds have recovered, flow through North Culvert Flow. The LLR Lake Outflow flume has had known accuracy limitations since January 2020.

In addition to active water management by LLR staff, wind and weather events can cause wave action that produces flow over the Little Lake Weirs. Also, if groundwater flow into Little Lake exceeds losses due to percolation and evapotranspiration, Little Lake surface level will rise, causing overflow at the lake weirs.

A spike in the LLR Lake Outflow hydrograph is typically indicative of water movement (removal of boards at the Little Lake Weirs) by LLR staff. After a time lag, increased outflow from Little Lake will also cause a spike in the LLR North Culvert Flow. A spike in the LLR North Culvert may also be caused by removal of boards at Pond 1 or 2; when only Pond boards are removed, the LLR Lake Outflow flume will not record increased flow, but the LLR North Culvert Flow will record a flow spike. Wind or weather events will cause a less dramatic increase in Lake Outflow and North Culvert Flow readings. The LLR Outflow flume has had known accuracy limitations since at least January of 2020.

3.4 Supplemental Data Collection

In addition to setting up the monitoring system and conducting monthly DTW and surface flow measurements, supplemental data was collected during the Phase 1 period.

In September 2009, a field event was conducted to evaluate groundwater levels beneath Little Lake. Temporary drive-point piezometers were installed and then removed at four locations around Little Lake to depths of four or more feet beneath the lake bottom. At all

four locations, the measurements indicated a downward hydraulic gradient from Little Lake to groundwater beneath Little Lake.

A bathymetric survey was conducted in August 2009 at 21 points across Little Lake. Depth to bottom was measured and location was recorded using a hand held GPS unit. The maximum depth measured was 4.8 feet in the central section of the lake, with average depths between 3.0–4.5 feet throughout most of the lake. The lake level was approximately one foot below the top of the east weir when this bathymetry survey was conducted.

In October and December of 2009, groundwater samples were collected from three wells: Hay Ranch South, Coso Junction Store #2, and LLR North wells. These groundwater samples were lab-analyzed for TDS to establish background water quality conditions. During sample collection, a hand-held field instrument recorded specific conductivity and computed TDS data. In addition to groundwater sample collection, pressure transducers in the Hay Ranch Cluster (1A-1C and 2A-2C), Red Hill, LLR North, LLR Dock and LLR Stilling wells recorded specific conductivity and computed TDS values hourly.

Data gaps regarding various details of monitoring points were closed where possible. In active supply wells which also serve as monitoring wells, total depth and pump depths were collected from owners. Precipitation gauges were identified in Rose Valley and in the Sierra to the north and southwest of Rose Valley to provide additional information for future groundwater modeling.

3.5 Baseline Groundwater Levels

At the conclusion of Phase 1, data from 2002 through 2009 was used to establish preliminary baseline groundwater elevations (GWEs). Steve Brooks, Professional Geologist and Principal Hydrogeologist/Senior Project Manager of Schlumberger Water Services, conducted a Rose Valley Baseline Water Level Analysis. ICWD accepted these preliminary baseline levels in January 2010, as summarized in Table 3.

4.0 PHASE 4: ONGOING MONITORING, MITIGATION AND REPORTING

The Hay Ranch Project is currently in "Phase 4: Ongoing Monitoring, Mitigation and Reporting", as outlined in the HMMP. Phase 2 and 3 were conducted from 2009 through 2013, as described above. The objective of Phase 4 is to document the ongoing response of the Rose Valley aquifer to pumping at the Hay Ranch and to monitor later-stage groundwater and potential Little Lake level changes as pumping continues and for recovery monitoring. Monthly groundwater and surface water data continues to be collected from project monitoring points in Rose Valley.

4.1 Monitoring and Reporting

During Second Quarter 2023, monthly data were collected at monitoring points in Rose Valley in April, May and June.

As required by the project's HMMP, GWE drawdown Trigger Levels have been established for certain Rose Valley monitoring wells. Revised Maximum Acceptable Drawdown and Drawdown at Cessation of Pumping values were provided in the DBS&A report titled "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated May 27, 2021. Trigger Levels were set based on the maximum annual groundwater extraction rate of 800 acre–feet per year (AFY) effective June 1, 2021 to May 31, 2025.

During the Second Quarter 2023, groundwater elevations were measured to be within Trigger Levels at all accessible Hay Ranch Project monitoring wells which have baseline and Trigger Levels established. There were no Maximum Acceptable Drawdowns exceeded in project wells during the First Quarter 2023, or throughout the project thus far. Water levels were measured above their baseline levels at two locations, Coso Junction Store (RV-100) and Little Lake Ranch North Well (RV-180), in June 2023.

Table 3 of this report compares June 2023 GWEs with pre-pumping baseline GWEs and the Trigger Levels and "Maximum Acceptable Drawdowns Levels" for Hay Ranch Project monitoring points established in the DBS&A report titled "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated May 27, 2021.

Hydrographs from the Second Quarter 2023 monthly field events were submitted to ICWD. These monthly hydrographs featuring the full suite of Rose Valley monitoring points were uploaded to the ICWD website: www.inyowater.org. These hydrographs along with monthly letter reports can be viewed on-line at:

http://www.inyowater.org/projects/groundwater/coso-hay-ranch-project/.

The June 2023 hydrographs are included in this report as Appendix A.

Monthly readings from the Hay Ranch North and South Production Well totalizers, documenting groundwater extraction amounts, are included in this report as Table 2. The combined groundwater extraction amounts from these two production wells represent the total groundwater extracted by the Hay Ranch Project.

Hydrographs which present various Rose Valley monitoring points comparing GWEs to Hay Ranch Project pumping amounts over time are included in this report as Figures 3 through 10. Groundwater elevations, in feet above mean sea level, are listed on the left axis. Hay Ranch Project average daily pumping amounts, in acre-feet per day, are listed on the right axis in inverse order. In these figures, Rose Valley monitoring points have been grouped along similar GWE ranges.

A hydrograph which compares groundwater and surface water elevations in the Little Lake area to Hay Ranch Project pumping amounts over time is included in this report as Figure 11. Groundwater and surface water elevations at the LLR Dock, LLR Stilling Well (lake surface level) and LLR Hotel Well are listed, in feet above mean sea level, on the left axis. Hay Ranch Project average daily pumping amounts, in acre-feet per day, are listed on the right axis in inverse order.

A hydrograph which compares groundwater and surface water elevations in the immediate vicinity of Little Lake to LLR Lake Outflow amounts over time is included in this report as Figure 12. Groundwater and surface water elevations at the LLR Dock and LLR Stilling Well (Little Lake surface level) are listed, in feet above mean sea level, on the left axis. Surface water outflow from Little Lake, captured by the LLR Lake Outflow flume in cubic feet per second, is listed on the right axis in inverse order. It should be noted that the LLR Lake Outflow flume has had known accuracy limitations since January 2020 due to a blockage of flow downstream causing flume submergence. Beginning in December 2022 the LLR Outflow flume data was not presented due to significant observed inaccuracy.

A hydrograph which compares surface water flows in the Little Lake Ranch area to Hay Ranch Project pumping rates over time is also included in this report as Figure 13. Surface water flows from Lake Outflow, Coso Springs Flow and North Culvert Flow are listed on the left axis, in cubic feet per second. Hay Ranch Project average daily pumping amounts, in acre-feet per day, are listed on the right axis in inverse order. As noted in Section 3.3, surface flow captured by the North Culvert Flow flume represents an accumulation of surface flows from Little Lake, Coso Springs and the Siphon Well flow.

Groundwater quality graphs are presented in Figures 14 through 16, comparing TDS levels in Rose Valley monitoring wells with Hay Ranch Project pumping amounts over time. This data is being collected by the in-well, data-logging transducers. The transducers are converting hourly specific conductivity measurements to computed TDS values. TDS values, in parts per million (equivalent to mg/L) are listed on the left axis. Hay Ranch Project average daily pumping rates are listed on the right axis, in average acre-feet per day. Laboratory TDS values for Coso Junction Store #2, LLR North and HR South are shown in Figure 17.

A hydrograph which compares the actual amount of groundwater pumped from the Hay Ranch Project in AF with the maximum allowable amount is included in this report as Figure 18. The total amount of groundwater extracted from the Hay Ranch property from December 25, 2009 to June 15, 2023 was approximately 18,130 AF, including on site use. The maximum allowable pumping amount in Figure 18 assumes a pumping rate of approximately 3,000 acrefeet per year (AFY) for December 25, 2009 through December 31, 2010, a rate of approximately 4,839 AFY from January 1, 2011 through August 30, 2013, a rate of 3,040 AFY from September 1, 2013 to June 30, 2014, a rate of approximately 1,614 AFY from July 1, 2014 through June 30, 2016, a rate of 1,611 AFY from June 1, 2017 through May 31, 2019, a volume of 1,936 AF (not to exceed 1,611 AFY) from November 14, 2018 through May 31, 2021 and a rate of 800 AFY from June 1, 2021 through May 31, 2025. The pumping rates on Figure 18 represent the maximum allowable pumping amounts for the 2010–2023 periods, respectively. Coso Operating Company has pumped less than the maximum allowable amounts throughout the project.

Tabular data, in digital format, of groundwater elevations and flow amounts from Rose Valley monitoring points can be obtained by contacting ICWD in writing at PO Box 337, 135 South Jackson St., Independence, CA, 93526 or by phone at (760) 878–0001.

4.2 Groundwater Quality

As part of the quarterly monitoring activities specified in the HMMP, a groundwater sample is to be collected from two wells in the Second Quarter 2023. During the May and June 2023 monitoring events, access road flooding caused access issues for the Little Lake Ranch North Well (LLR North) thus TDS samples were not collected.

At the CJS#2 and LLR North wells, the TDS values from the First Quarter 2023 and all previous groundwater sampling events were below the "Threshold Requiring Action value as specified in Table 3–2 of the HMMP (1,500 mg/L for Coso Junction Store #2 and Little Lake Ranch North, and 2,000 mg/L for Hay Ranch South Well). The Hay Ranch South Well, also required to be sampled for TDS per the HMMP, was not sampled as it is no longer accessible for sample collection.

4.3 Data Collection and Processing

A protocol for measuring and sampling the Rose Valley monitoring sites has been defined and instituted by TEAM with the oversight of ICWD. Transducer hanging points, flow and DTW measuring points have been marked, surveyed and standardized (where feasible).

Groundwater levels are measured by lowering a sounding probe into a well and obtaining two successive readings that agree to within 0.01 feet. These measurements are referenced to a mark at the top of the casing. The results of the measurements are then recorded on field sheets.

Field sheets are copied and archived at TEAM. Data from these sheets is input into the project database program and checked against the field sheets. Data from the Coso database is then graphed in flow and groundwater hydrographs. TEAM performs internal quality control and

quality assurance checks on this data and then transmits the draft hydrographs to ICWD. After review and/or discussion with ICWD, the draft hydrographs are finalized and uploaded to the ICWD server for public posting on www.inyowater.org.

4.4 Operational Notes

The LLR Lake Outflow flume (RV-230) has been noted to have accuracy limitations due to a restriction of flow downstream of the flume since January 2020. Maintenance has been recommended by TEAM but not scheduled to be performed due to landowner restrictions. Beginning in December 2022, the data for the Little Lake Ranch Outflow Flume (RV-230) was not presented as it was observed to be significantly inaccurate during periods of high flow.

During the May 2023 field visit, the transducer in HR-1A (RV-60) was not operating properly. An external battery pack was installed which restored function to the transducer, which appeared to be operating correctly upon leaving the site. During the June 2023 field visit, the transducer in HR-1A (RV-60) was not operating properly. A new log was started and the transducer appeared to be operating correctly upon leaving the site. If the errors persist, the transducer will be replaced.

During the April, May and June 2023 field visits, water was observed flowing out of Haiwee reservoir and across the Hay Ranch property.

Water was observed to be flowing down Little Lake Canyon and onto the Little Lake Ranch property during the June 2023 monitoring event.

There were no other significant operational issues observed during the reporting period.

4.5 Additional Observations

During the Second Quarter 2023, LLR staff continued seasonal water management on the LLR property which included primarily a pattern where the eastern weir had a board or boards pulled allowing flow to be released from the lake.

Precipitation data collected at the South Haiwee Reservoir weather station monitored by LADWP and presented by the National Weather Service in conjunction with the California-Nevada River Forecast Center is as follows: for water year 2022–23 (October 2022 through September 2023) the Haiwee station recorded 14.63 inches of precipitation, approximately 199% of water year long-term average as of June 30, 2023. The long term average precipitation number was calculated at the beginning of the project (7.35 inches). Prior to the 2021–22 water year, for the thirteen complete water years during project pumping (2009–10 to 2021–22), precipitation at the South Haiwee station has ranged from 11% to 169% of the long-term average, as presented in Figure 19.

5.0 GENERAL CONDITIONS

This report has been prepared according to generally accepted standards of environmental practice at the time this assessment was performed. TEAM Environmental (TEAM) does not assume responsibility for conditions that did not come to its attention or for conditions not generally recognized as environmentally acceptable at the time this report was prepared. Professional judgments contained in this report are based upon our education and experiences on similar projects. Services performed for this project by TEAM are in accordance with professional standards for surface and groundwater data collection, no guarantees are either expressed or implied.

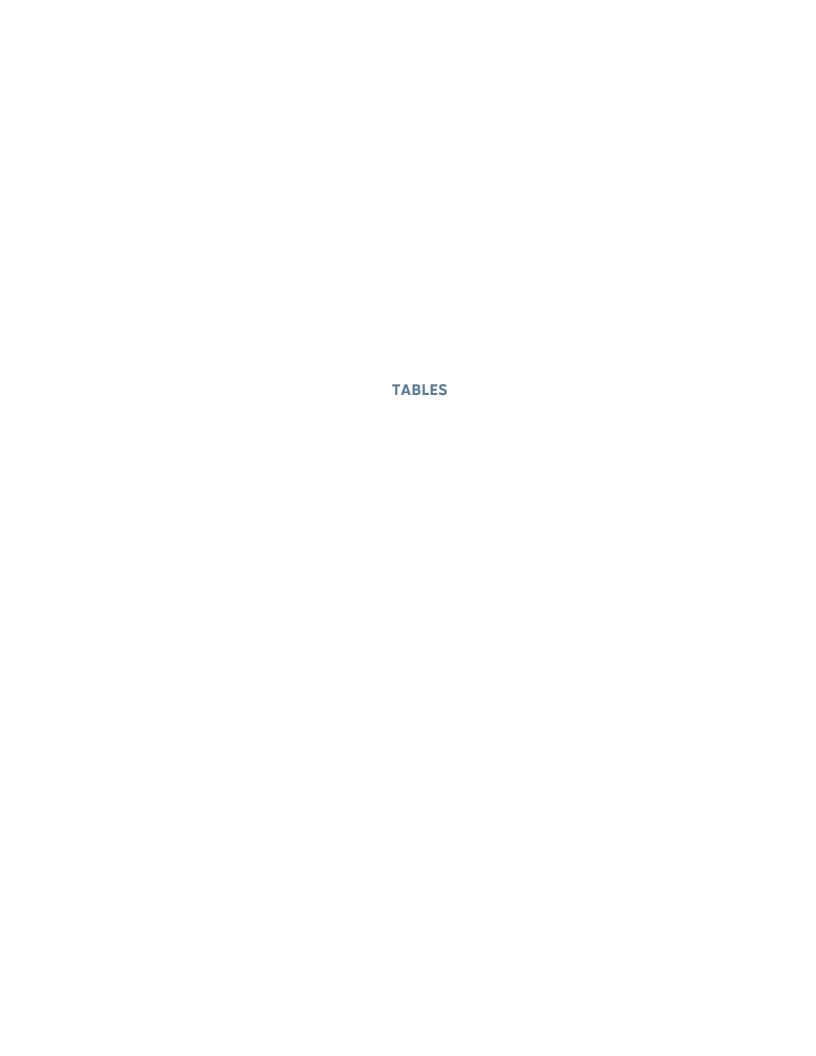


TABLE 1 HAY RANCH PROJECT MONITORING POINT SUMMARY

Well ID	Well Name Hay Ranch Project FEIR HMMP reference names from HMMP Tables 3-1 and 3-2		Monitoring Role	Current Well Use	Transducer Installed	Data Logging Frequency
RV-10	Enchanted Village	Wells located west of Haiwee Reservoir	Observation	Active Supply	No	NA
RV-20	LADWP V816	LADWP V816	Observation	Inactive	No	NA
RV-30	Cal Pumice	Pumice Mine Well	Observation ¹	Inactive	No	NA
RV-40	Dunmovin	Same or Dunmovin Area well	Inactive	Active Supply	No	NA
RV-50	Hay Ranch North	Hay Ranch North	Production/GWQ	Production	Flow Meter	NA
RV-60	HR 1A	Six New Hay Ranch Observation wells	Observation	Inactive	Yes	Hourly
RV-61	HR 1B	Six New Hay Ranch Observation wells	Observation	Inactive	Yes	Hourly
RV-62	HR 1C	Six New Hay Ranch Observation wells	Observation	Inactive	No	NA
RV-70	Hay Ranch South	Hay Ranch South	Production/GWQ	Production	Flow Meter	NA
RV-80	HR 2A	Six New Hay Ranch Observation wells	Trigger ²	Inactive	Yes	Hourly
RV-81	HR 2B	Six New Hay Ranch Observation wells	Observation	Inactive	Yes	Hourly
RV-82	HR 2C	Six New Hay Ranch Observation wells	Observation	Inactive	No	NA
RV-90	Coso Jct Ranch	Coso Ranch North	Trigger	Inactive	No	NA
RV-100	Coso Jct Store #1	Coso Junction #1	Trigger/GWQ (#2)	Inactive/Active Supply ³	Yes	Hourly
RV-110	Davis Ranch North	Not Mentioned	Observation	Active Supply	No	NA
RV-111	Davis Ranch South	Not Mentioned	Observation	Active Supply	No	NA
RV-112	Davis Ranch South Flow	Not Mentioned	Observation	Flume ⁵	No	NA
RV-120	Red Hill (BLM)	New well located between Coso Jnc and Cinder Road Red Hill	Trigger ²	Inactive	No	NA
RV-130	Well G36	Well G-36 or Navy G-36 Well	Trigger	Inactive	No	NA
RV-140	Lego	Same or Navy Lego Well	Trigger	Inactive	No	NA
RV-150	Cinder Road	Cinder Road, Red Hill	Trigger	Inactive	No	NA
RV-160	Well 18-28 GTH	Well 18-28 or Navy 18-28 Well	Trigger	Inactive	No	NA
RV-170	Fossil Falls Campground	Fossil Falls Campground	Observation	Active Supply	No	NA
RV-180	LLR North	Little Lake Ranch North Well	Trigger/GWQ	Inactive	Yes	Hourly
RV-190	LLR 395	Little Lake Major Operational Changes	Observation	Active Supply	No	NA
RV-200	LLR Ranch	Little Lake Major Operational Changes	Observation	Active Supply	No	NA
RV-210	LLR Dock	Little Lake North Dock Well	Observation	Inactive	No	NA
RV-220	LLR Lake Stilling	Little Lake	Observation	Actively Managed	Yes	Hourly
RV-230	LLR Lake Outflow	Little Lake Weir	Observation	Actively Managed Flume	Yes	Hourly
RV-240	LLR Coso Springs	Coso Springs	Observation	Flume	Yes	Hourly
RV-245	LLR North Culvert	Little Lake North Culvert Weir	Observation	Actively Managed Flume	Yes	Hourly
RV-250	LLR Siphon	Pond P1 Siphon Well ⁴	Observation	Active Siphon	No	NA
RV-260	LLR Hotel	Little Lake Hotel Well	Observation	Inactive	No	NA

GWQ- Groundwater Quality monitoring well

^{1:} Due to an anomalous drop in groundwater elevation in December 2009 before Hay Ranch Project pumping started, Cal Pumice Well was removed from project Trigger use by ICWD on April 1, 2011.

^{2:} Trigger Levels for RV-80 and RV-120 were not set in HMMP Table 3-1. However, preliminary baseline levels were set, and Trigger levels were set in ICWD's April 1, 2011 Addendum.

^{3:} RV-100 Coso Jct Store #1 Well is an inactive well located approximately 20 yards north of Coso Jct Store #2 well which is an active supply well where groundwater quality is being recorded.

^{4:} RV-250 LLR Siphon Well supplies water directly to LLR Pond 2, not LLR Pond 1 as erroneously stated in the HMMP.

^{5:} Flume removed on 3/8/2022

TABLE 2HAY RANCH PROJECT GROUNDWATER PUMPING TO DATE

Hay Ranch North and South Well Groundwater Extraction Amounts									
Time period	Groundwater Production Well	Groundwater Ext	racted						
·		(Gallons)	(Acre Feet)						
Date: 12/25/09 to 6/15/23	Hay Ranch South Well Project Totals:	2,136,268,738	6,556						
Date: 1/19/23 to 6/15/23	Hay Ranch South Well Recent Period:	5,297,361	16.3						
Date: 12/25/09 to 6/15/23	Hay Ranch North Well Project Totals:	3,771,508,548	11,574						
Date: 1/19/23 to 6/15/23	Hay Ranch North Well Recent Period:	585,219	1.8						

Numeric Short Elapsed Since 12/25/2009 Since 12/25/2009 Period Pumped for period Pumped for period Pumped for period 40172 12/25/09 0 - 0 0 0 0 0 40196 01/18/10 25 24,009,000 73.7 24 5,908,000 18.1 40254 03/17/10 83 120,024,000 368.3 58 5,786,000 17.8 40312 05/14/10 141 248,524,000 762.7 58 57,698,000 177.1 40380 07/21/10 209 384,977,000 1181.5 68 59,458,000 182.5 40436 09/15/10 265 569,767,000 1748.6 56 108,283,000 332.3 40499 11/17/10 328 843,610,000 2588.9 63 123,692,000 379.6 40535 12/23/10 364 969,708,000 2975.9 36 27,212,000 83.5 40547 1/14/11 386<	Total Groundwater Extraction Amounts at Hay Ranch Property (Combined Totals of Hay Ranch North and South Wells)								
69772 1928/09 3					•				Average Daily Acre
4000		12/25/09	0	-	0	0	0	0	0
40092									2.6 8.9
	40312	05/14/10	141	248,524,000	762.7	58	57,698,000	177.1	5.7
ABST_1	40499	11/17/10	328	843,610,000	2588.9	63	123,692,000		13.6
April Apri									
40038 0.02211 0.03									
40008 622111 636 1.912.280,042 3871.7 74.0 194.629.07 596.2								560.8	9.2
46908									
40068 11/87/2 754 2,784.891.279 704.10 17.0 99.945.025 195.3 40064 776.127 752 2,787.815.007 7802.8 262.8 86.944.898 262.8 41077 476972 815 2,567.706.150 7803.2 35.0 103.994.194 318.9 41077 476972 917 2,648.858.175 118.9 35.0 80.100.002 246.1 41077 476972 917 2,648.858.175 218.9 35.0 80.100.002 246.1 41077 476972 917 2,648.858.175 218.9 35.0 80.100.002 246.1 41077 476972 917 2,648.858.175 218.9 35.0 80.000.002 246.1 41070 476972 917 2,648.858.175 248	40863			2,107,009,325			193,721,283		10.8
40090									
41077	40954	2/15/12	782	2,379,615,567	7302.8		84,654,288	259.8	9.3
41077 6714712 876 2.484,596,175 8129.3 30.0 80,180,039 24.0 41073 671472 9010 2.711,186,226 8722 80.0 8227,681 10.3 41173 827572 904 2.653,682,693 8728.3 83.0 60,973,694 20.3 41193 827572 904 2.653,682,693 8728.3 83.0 60,973,694 20.3 41190 1017712 1027 3.301,484,890 8227.8 27.0 72,386,186 22.2 41190 1017712 1027 3.301,484,890 8227.8 27.0 72,386,186 22.2 41227 111472 1025 3.004,485,900 9522 27.0 72,386,186 22.2 41227 111472 1025 3.004,485,900 9522 27.0 72,386,186 22.2 4130 171473 1118 3.268,225,289 900,00 3.50 90,388,201 288.5 4138 2.11173 1118 3.268,225,289 1000,00 3.50 90,388,201 287.2 4138 3.11173 1118 3.427,705,247 1000,00 3.50 77,705,400 2.40 4138 2.11173 1118 3.427,705,247 1000,00 3.50 77,705,400 2.40 4138 2.11173 1100 3.757,715,337 1073,33 3.50 77,775,400 2.40 41472 97/273 1206 3.767,715,400 11200 2.50 77,705,400 2.20 41472 97/273 1206 3.767,915,400 11200 2.50 77,705,400 2.20 41472 97/273 1206 3.767,915,400 11200 2.50 77,705,400 2.20 41472 97/273 1206 3.767,915,400 11200 2.50 77,705,400 2.20 4158 2.11173 1138 3.864,773,422 1460,00 3.50 60,754,740 2.50 4159 97/273 1305 3.864,773,422 1460,00 3.50 60,754,740 2.50 4159 97/273 1305 3.864,773,422 1460,00 3.50 60,754,740 2.50 4159 97/273 1305 3.864,773,422 1460,00 3.50 60,754,740 2.50 4159 97/273 1305 3.864,773,730 3.70 3.80 3.80 3.70 3.80 4159 97/273 1305 3.864,773,730 3.70 3.80 3.80 3.70 3.80 4159 97/273 3.70 3.80 3.80 3.80 3.80 3.80 3.80 4159 97/273 3.70 3.80 3.80 3.80 3.80 3.80 3.80 4159 97/273 3.70 3.80 3.80 3.80 3.80 3.80 3.80 3.80 4159 97/273 3.70 3.80 3.80 3.80 3.80 3									
41101 771112 929	41047	5/18/12	875	2,648,936,175	8129.3	30.0	80,180,039	246.1	8.2
### ### ### ### ### ### ### ### ### ##									7.4 7.2
41199	41136	8/15/12	964	2,863,864,296	8788.9	35.0	85,961,568	263.8	7.5
41277									7.3 8.2
41990 1146113 1148 3,265,252,599 100,000.6 36.0 83.08,231 286.5 41316 31313 1174 3.42,772,748 10575 78.0 77,302,489 237.2 41346 31313 1174 3.42,705,477 10000.6 28.0 77,174,690 243.0 41467 31313 1174 3.42,705,477 10000.6 28.0 77,174,709 243.0 41467 31217 3,564,345,900 11990 28.0 77,135,599 236.7 41447 617215 1286 3.672,13,640 11289 28.0 77,686,043 238.4 41477 717713 1300 3,768,453,446 11589 36.0 36.439,489 280.0 41597 977113 1336 3.667,13,242 11800.4 35.0 96,237,444 206.4 41597 977113 1336 3.867,133,259 1507.2 28.0 77,686,043 228.0 41586 816713 1388 3.667,03,259 1507.2 28.0 77,686,043 228.0 41586 816713 1388 3.667,03,259 1507.2 28.0 77,686,043 228.0 41686 1172013 1420 4.086,03,226 12478.2 28.0 51,444,482 175.9 41680 1172013 1420 4.086,03,226 12478.2 28.0 51,444,482 175.9 41680 124741 1491 4.106,572,368 12678.9 20.0 38,056,555 104.4 41691 124714 1491 4.106,23,831 12707.3 37.0 53,564,555 104.4 4170 331914 1549 4.283,183,763 20.0 1368,86 27.0 38,057,634 119.3 41710 331914 1549 4.283,183,763 20.0 1368,86 27.0 38,057,634 119.3 41710 331914 1549 4.283,183,763 1368,763 1368,673 1368,773 1368,774	41227	11/14/12	1055	3,096,463,909	9502.7	28.0	75,008,959	230.2	8.2
41186 2213115 1146 3,342,227,748 1005678 28.0 77,302,489 237.2 41346 317313 1174 3,427,753,247 10908 28.0 79,177,499 243.0 41346 417713 1000 3,517,713,337 10733.9 35.0 86,000,000 243.1 41437 1771713 1300 3,517,713,337 10733.9 35.0 86,000,000 243.1 41437 77,7713 1300 3,784,453,440 11965.0 20.0 77,132,332 28.0 41457 77,1713 1300 3,784,453,440 11965.0 20.0 77,132,340 41457 87,1713 1306 3,864,718,242 1480.0 36.0 80,287,440 41507 827113 1365 3,935,703,220 12076.2 28.0 70,984,986 217.6 41507 812113 1363 3,935,703,220 12076.2 28.0 70,984,986 217.6 41508 102213 1426 4,066,008,222 12076.2 28.0 70,984,986 247.1 41509 102213 1426 4,066,008,222 12076.2 28.0 51,446,697 157.9 41509 102214 1490 4,160,236.81 12077.3 37.0 53,565,535 164.4 41690 22074 1516 4,160,0084 12886.6 27.0 8887,283 164.4 4177 3,1914 1456 4,283,188.70 1300.5 27.0 38.72,283 119.3 41761 47224 1670 4,287,183,796 1300.5 27.0 38.72,283 119.3 41761 47224 1670 4,287,183,796 1300.5 27.0 38.72,283 119.3 41761 47224 1670 4,287,183,796 1300.5 27.0 38.72,283 119.3 41761 47224 1670 4,287,837,996 13560.7 34.0 48.846,004 160.2 41874 870.741 1777 4,498,802,400 1300.5 27.0 38.076,804 119.9 41761 47224 1670 4,287,837,996 13560.7 34.0 48.846,004 160.2 41874 870.741 1777 4,498,802,400 13080.3 20.0 38.056,496 119.8 41999 917714 1727 4,498,802,400 13080.3 20.0 38.056,496 119.8 41999 917714 1727 4,498,802,400 13080.3 20.0 38.056,596 122.3 41999 917714 1727 4,498,802,400 13080.3 30.0 40.006,755 122.7 41999 917714 1729 4,498,802,400 13080.3 30.0 40.006,755 122.3 41999 917714 1729 4,498,802,400 13080.3 30.0 40.006,807,700 119.8									8.3 8.2
41366 331313 1774 3,421716,247 10900.08 28.0 79,777.489 243.0 1 41391 41713 1209 3,517.213,337 10739 35.0 9,505.00.00 230.1 1 41409 51513 1237 3,584.85.966 11030 28.0 77,325.669 286.7 1 41437 071213 1260 3,572.013,040 11200 28.0 77,365.69 286.7 1 41437 071213 1260 3,572.013,040 11200 28.0 77,365.69 286.4 1 41437 071213 1300 3,384.18242 11880.4 55.0 16.264.744 2284.4 1 41507 827113 1336 3,884.18242 11880.4 55.0 16.264.744 2284.4 1 41508 10713 1300 3,385.703.228 12072.2 28.0 170,884.890 2718 1 41509 1073313 1300 4,044.897.33 12200.3 35.0 176,888.505 2471 1 41500 1073313 1308 4,044.897.33 12200.3 35.0 176,888.505 1 41500 1073313 1308 4,044.897.33 12200.3 35.0 176,888.505 1 41500 1073313 1308 4,044.897.33 12200.3 35.0 176,888.505 1 41500 1073313 1308 4,044.897.33 12200.3 35.0 1846.402 157.9 1 41500 127113 1450 4,056.699.255 12782 28.0 1.0 35.304.802.1 157.9 1 41500 127113 1450 4,106.672.265 12782 28.0 1.0 35.304.802.1 157.9 1 41500 127113 1450 4,106.672.265 12782 28.0 1.0 35.304.802.1 157.9 1 41701 347914 1540 4,288.8074 1300.0 1 100.	41318		1146	3,342,527,748	10257.8	28.0	77,302,489	237.2	8.5
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42116 4/22/15 1944 4.811,310.841 1476,84 35.0 50,380,620 154.6 42144 5/20/15 1972 4.881,693.297 14880.3 28.0 40,382,456 123.9 42172 6/17/15 2000 4.892,229,845 15013.7 28.0 40,536,548 124.4 42184 778/15 2002 4.924,156,920 15111.7 22.0 31,927,075 98.0 42235 81915 2063 4.983,281,487 15293.1 41.0 591,242,567 181.4 42263 91615 2091 5.023,729,536 15417.3 28.0 40,448,049 124.1 42263 91615 2091 5.023,729,536 15417.3 28.0 40,448,049 124.1 42261 1014415 2119 5.063,572,723 15539.5 28.0 39,843,187 122.3 42326 11/18/16 2162 5.154,295.100 18818.0 28.0 40,199,476 123.4 42324 12/11/16 2462									
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42194 7.9916 2022					14889.3 15013.7				
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42291 10/14/15 2119 5,063,572,723 15539.5 28.0 39,843,187 122.3 42326 11/18/15 2154 5,114,095,632 15694.6 35.0 50,522,909 155.0 42354 12/16/15 2182 5,154,295,108 15618.0 28.0 40,199,476 123.4 42382 1/13/16 2210 5,194,797,997 15942.2 28.0 40,502,889 124.3 42417 2/17/16 2245 5,244,484,914 16094.6 35.0 49,656,917 152.4 42445 3/16/16 2273 5,284,580,093 16217.8 28.0 40,125,179 123.1 42473 4/13/16 2301 5,252,136,484 16342.2 28.0 40,125,179 123.1 42445 3/16/16 2304 5,362,299,478 16456.3 28.0 37,162,994 114.0 42536 6/15/16 2364 5,364,510,242 16463.1 35.0 2,210,764 6.8 42571 720/16 2399									
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42382 1/1/3/16 2210 5,194,797,997 15942 2 28.0 49,502,889 124.3 42417 2/17/16 2245 5,244,454,914 16094.6 35.0 49,656,917 152.4 42445 3/16/16 2273 5,284,580,093 16217.8 28.0 40,125,179 123.1 42450 5/11/16 2301 5,325,136,484 16342.2 28.0 40,286,391 123.6 42501 5/11/16 2329 5,362,299,478 16456.3 28.0 37,162,994 114.0 42536 6/15/16 2364 5,364,510,242 16463.1 35.0 2,210,764 6.8 42571 7/20/16 2399 5,372,143,529 16486.5 35.0 7,633,287 23.4 42599 8/17/16 2427 5,377,181,550 16502.0 28.0 5,038,021 15.5 42634 9/21/16 2483 5,377,93,285 16503.5 35.0 511,670 1.6 42655 10/12/16 2483 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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42473 4/13/16 2301 5,325,136,484 16342.2 28.0 40,286,391 123.6 42501 5/11/16 2329 5,362,299,478 16456.3 28.0 37,162,994 114.0 42536 6/15/16 2364 5,364,510,242 16463.1 35.0 2,210,764 6.8 42571 7/20/16 2399 5,372,143,529 16486.5 35.0 7,633,287 23.4 42599 8117/16 2427 5,377,691,500 16502.0 28.0 5,338,287 23.4 42693 9/21/16 2462 5,377,793,716 16502.0 28.0 5,380,21 15.5 42695 10/12/16 2483 5,377,795,716 16503.6 21.0 12,496 0.0 42724 12/20/16 2518 5,377,796,895 16503.7 35.0 31,269 0.1 42724 12/20/16 2552 5,377,918,844 16504.2 34.0 181,859 0.6 42753 1/18/17 2581 5,379,518,931,6							49,656,917		4.4 4.4
42536 6/15/16 2364 5,364,510,242 16463.1 35.0 2,210,764 6.8 42571 7/20/16 2399 5,372,143,529 16486.5 35.0 7,633,287 23.4 42599 8/17/16 2427 5,377,181,550 16502.0 28.0 5,038,021 15.5 42634 9/21/16 2483 5,377,983,220 16503.5 35.0 511,670 1.6 42655 10/12/16 2483 5,377,705,716 16503.6 21.0 12,496 0.0 42690 11/16/16 2518 5,377,736,985 16503.7 35.0 31,269 0.1 42724 12/20/16 2552 5,377,918,844 16504.2 34.0 181,859 0.6 42753 1/18/17 2581 5,377,955,932 16504.3 29.0 37,088 0.1 42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42803 3/15/17 2637 5,380,015,677 <t< td=""><td>42473</td><td>4/13/16</td><td>2301</td><td>5,325,136,484</td><td>16342.2</td><td>28.0</td><td>40,286,391</td><td>123.6</td><td>4.4</td></t<>	42473	4/13/16	2301	5,325,136,484	16342.2	28.0	40,286,391	123.6	4.4
42571 7/20/16 2399 5,372,143,529 16486.5 35.0 7,633,287 23.4 42599 8/17/16 2427 5,377,181,550 16502.0 28.0 5,038,021 15.5 42634 9/21/16 2462 5,377,693,220 16503.5 35.0 511,670 1.6 42655 10/12/16 2483 5,377,795,716 16503.6 21.0 12,496 0.0 42690 11/16/16 2518 5,377,736,985 16503.7 35.0 31,269 0.1 42754 12/20/16 2552 5,377,918,844 16504.2 34.0 181,859 0.6 42753 1/18/17 2581 5,377,955,932 16504.3 29.0 37,088 0.1 42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42809 3/15/17 2609 5,378,018,362 16504.6 28.0 13,308 0.0 428043 4/18/17 2671 5,378,016,677									
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42655 10/12/16 2483 5,377,705,716 16503.6 21.0 12,496 0.0 42690 11/16/16 2518 5,377,736,985 16503.7 35.0 31,269 0.1 42724 12/20/16 2552 5,377,918,844 16504.2 34.0 181,859 0.6 42753 1/18/17 2581 5,377,955,932 16504.3 29.0 37,088 0.1 42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42809 3/15/17 2637 5,378,031,670 16504.6 28.0 13,308 0.0 42843 4/18/17 2671 5,378,105,877 16504.8 34.0 74,207 0.2 42872 5/17/17 2700 5,378,105,877 16504.8 34.0 74,207 0.2 42900 6/14/17 2728 5,381,019,294 16513.7 28.0 1,304,491 4.0 42928 7/12/17 2756 5,389,555,398 16539.9	42599		2427			28.0	5,038,021		
42690 11/16/16 2518 5,377,736,985 16503.7 35.0 31,269 0.1 42724 12/20/16 2552 5,377,918,844 16504.2 34.0 181,859 0.6 42753 1/18/17 2581 5,377,955,932 16504.3 29.0 37,088 0.1 42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42809 3/15/17 2637 5,378,018,367 16504.6 28.0 13,308 0.0 42843 4/18/17 2671 5,378,105,877 16504.8 34.0 74,207 0.2 42872 5/17/17 2700 5,379,714,803 16509.7 29.0 1,608,926 4.9 42900 6/14/17 2728 5,381,019,294 16513.7 28.0 1,304,491 4.0 42963 8/16/17 2756 5,389,555,398 16539.9 28.0 8,536,104 26.2 42963 8/16/17 2791 5,407,934,741 1	42655	10/12/16	2483		16503.6		12,496		0.0
42753 1/18/17 2581 5,377,955,932 16504.3 29.0 37,088 0.1 42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42809 3/15/17 2637 5,378,031,670 16504.6 28.0 13,308 0.0 42843 4/18/17 2671 5,378,105,877 16504.8 34.0 74,207 0.2 42872 5/17/17 2700 5,379,714,803 16509.7 29.0 1,608,926 4.9 42900 6/14/17 2728 5,381,019,294 16613.7 28.0 1,304,491 4.0 42928 7/12/17 2756 5,389,555,398 16539.9 28.0 8,536,104 26.2 42963 8/16/17 2791 5,407,934,741 16596.3 35.0 18,379,343 56.4 42991 9/13/17 2819 5,442,906,542 16703.7 28.0 34,971,801 107.4 43026 10/18/17 2854 5,493,383,152		11/16/16	2518	5,377,736,985	16503.7	35.0	31,269		0.0
42781 2/15/17 2609 5,378,018,362 16504.5 28.0 62,430 0.2 42809 3/15/17 2637 5,378,031,670 16504.6 28.0 13,308 0.0 42843 4/18/17 2671 5,378,105,877 16504.8 34.0 74,207 0.2 42872 5/17/17 2700 5,379,714,803 16509.7 29.0 1,608,926 4.9 42900 6/14/17 2728 5,381,019,294 16513.7 28.0 1,304,491 4.0 42928 7/12/17 2756 5,389,555,398 16539.9 28.0 8,536,104 26.2 42963 8/16/17 2791 5,407,934,741 16596.3 35.0 18,379,343 56.4 42991 9/13/17 2819 5,442,906,542 16703.7 28.0 34,971,801 107.4 43026 10/18/17 2854 5,493,383,152 16858.6 35.0 50,476,610 154.9 43082 12/13/17 2910 5,573,203,184 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td>									0.0
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42872 5/17/17 2700 5,379,714,803 16509.7 29.0 1,608,926 4.9 42900 6/14/17 2728 5,381,019,294 16513.7 28.0 1,304,491 4.0 42928 7/12/17 2756 5,389,555,398 16539.9 28.0 8,536,104 26.2 42963 8/16/17 2791 5,407,934,741 16596.3 35.0 18,379,343 56.4 42991 9/13/17 2819 5,442,906,542 16703.7 28.0 34,971,801 107.4 43026 10/18/17 2854 5,493,383,152 16858.6 35.0 50,476,610 154.9 43054 11/15/17 2882 5,533,664,042 16982.2 28.0 40,280,890 123.6 43082 12/13/17 2910 5,573,203,184 17103.5 28.0 39,539,142 121.3 43152 2/21/18 2980 5,632,954,526 17286.9 23.0 20,280,005 62.2 43173 3/14/18 3001 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
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42963 8/16/17 2791 5,407,934,741 16596.3 35.0 18,379,343 56.4 42991 9/13/17 2819 5,442,906,542 16703.7 28.0 34,971,801 107.4 43026 10/18/17 2854 5,493,383,152 16858.6 35.0 50,476,610 154.9 43054 11/15/17 2882 5,533,664,042 16982.2 28.0 40,280,890 123.6 43082 12/13/17 2910 5,573,203,184 17103.5 28.0 39,539,142 121.3 43152 2/21/18 2980 5,632,954,526 17286.9 23.0 20,280,005 62.2 43173 3/14/18 3001 5,645,925,682 17326.7 21.0 12,971,156 39.8 43208 4/18/18 3036 5,666,636,963 17390.3 35.0 20,711,281 63.6									
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43054 11/15/17 2882 5,533,664,042 16982.2 28.0 40,280,890 123.6 43082 12/13/17 2910 5,573,203,184 17103.5 28.0 39,539,142 121.3 43152 2/21/18 2980 5,632,954,526 17286.9 23.0 20,280,005 62.2 43173 3/14/18 3001 5,645,925,682 17326.7 21.0 12,971,156 39.8 43208 4/18/18 3036 5,666,636,963 17390.3 35.0 20,711,281 63.6									
43152 2/21/18 2980 5,632,954,526 17286.9 23.0 20,280,005 62.2 43173 3/14/18 3001 5,645,925,682 17326.7 21.0 12,971,156 39.8 43208 4/18/18 3036 5,666,636,963 17390.3 35.0 20,711,281 63.6	43054	11/15/17	2882	5,533,664,042	16982.2	28.0	40,280,890	123.6	4.4
43173 3/14/18 3001 5,645,925,682 17326.7 21.0 12,971,156 39.8 43208 4/18/18 3036 5,666,636,963 17390.3 35.0 20,711,281 63.6									
	43173	3/14/18	3001	5,645,925,682	17326.7	21.0	12,971,156	39.8	1.9
<u> </u>									
43264 6/13/18 3092 5,707,506,881 17515.7 28.0 20,461,388 62.8									

TABLE 2 HAY RANCH PROJECT GROUNDWATER PUMPING TO DATE

(continued from Page 1)

Total Groundwater Extraction Amounts at Hay Ranch Property (Combined Totals of Hay Ranch South and North Wells)										
Date		Total Days	Total Gallons Pumped	Total Acre Feet Pumped	Days in	Total Gallons	Acre Feet	Average Daily Acre Feet		
Numeric	Short	Elapsed	Since 12/25/2009	Since 12/25/2009	Period	Pumped for period	Pumped for period	Pumped for period		
43299	7/18/18	3127	5,732,985,091	17593.9	35.0		78.2	2.2		
43334	8/22/18	3162	5,758,443,335		35.0		78.1	2.2		
43355	9/12/18	3183	5,773,686,659		21.0		46.8			
43390	10/17/18	3218 3246	5,794,214,017	17781.8	35.0		63.0			
43418 43453	11/14/18 12/19/18	3246	5,798,665,189 5,798,722,396	17795.5 17795.6	28.0 35.0		13.7 0.2	0.5 0.0		
43481	1/16/19	3309	5,798,730,233	17795.6	28.0		0.2			
43461	2/20/19		5,796,730,233 NM (1)		NM		NM	NM		
43537	3/13/19	3365	NM (1)		NM		NM	NM		
43565	4/10/19	3393	5,800,185,334	17800.1	84.0		4.5			
43593	5/8/19	3421	5,801,221,005	17803.3	28.0		3.2			
43635	6/19/19	3463	5,802,421,947	17807.0	42.0		3.7	0.1		
43663	7/17/19	3491	5,803,987,468	17811.8	28.0		4.8			
43698	8/21/19	3526	5,806,391,826		35.0		7.4	0.2		
43726	9/18/19	3554	5,806,394,411	17819.2	28.0		0.0			
43760	10/22/19	3588	5,807,085,482	17821.3	34.0		2.1	0.1		
43781	11/12/19	3609	5,808,359,445	17825.2	21.0		3.9			
43817	12/18/19	3645	5,808,372,140	17825.2	36.0		0.0			
43845	1/15/20	3673	5,808,396,083	17825.3	28.0		0.1	0.0		
43880	2/19/20	3708	5,808,427,201	17825.4	35.0		0.1	0.0		
43908	3/18/20	3736	5,809,004,472	17827.2	28.0	577,271	1.8			
43943	4/22/20	3771	5,809,012,579	17827.2	35.0		0.0	0.0		
43971	5/20/20	3799	5,810,589,080	17832.0	28.0		4.8	0.2		
43999	6/17/20	3827	5,811,193,663	17833.9	28.0		1.9			
44035	7/23/20	3863	5,813,312,565	17840.4	36.0	2,118,902	6.5	0.2		
44062	8/19/20	3890	5,817,786,162	17854.1	27.0	4,473,597	13.7	0.5		
44090	9/16/20	3918	5,833,067,815	17901.0	28.0	15,281,653	46.9	1.7		
44118	10/14/20	3946	5,837,378,164	17914.3	28.0		13.3			
44153	11/18/20	3981	5,838,290,430	17917.1	35.0		2.8			
44174	12/9/20	4002	5,838,407,578	17917.4	21.0		0.3			
44209	1/13/21	4037	5,838,408,085	17917.4	35.0		0.0			
44244	2/17/21	4072	5,838,412,623	17917.4	35.0		0.0			
44272	3/17/21	4100		17917.5	28.0		0.0			
44307	4/21/21	4135	5,840,417,579	17923.6	35.0		6.1	0.2		
44328	5/12/21	4156	5,840,776,546		21.0		1.1	0.1		
44363	6/16/21	4191	5,842,434,172		35.0		5.1	0.1		
44393	7/16/21	4221	5,854,730,952	17967.5	30.0		37.7	1.3		
44426	8/18/21	4254	5,861,557,641	17988.5	33.0		21.0			
44454	9/15/21	4282	5,865,294,060	17999.9	28.0		11.5			
44482	10/13/21	4310		18005.6	28.0		5.7	0.2		
44517	11/17/21	4345	5,867,145,182	18005.6	35.0		0.0			
44545	12/15/21	4373	5,867,188,285	18005.7	28.0		0.1	0.0		
44573	1/12/22		5,867,188,288 5,967,199,577		28.0		0.0			
44608 44637	2/16/22 3/17/22	4436 4465	5,867,188,577 5,867,190,361		35.0 29.0		0.0			
44637	4/14/22	4465	5,867,190,361		28.0		0.0	0.0		
44692	5/11/22	4493 4520	5,867,278,320		27.0		0.1	0.0		
44692	6/2/22	4520 4542	5,867,278,320 5,874,001,717		22.0		20.6			
44714	7/14/22	4542 4584	5,885,757,285		42.0		36.1	0.9		
44783	8/10/22	4611	5,889,721,944		27.0		12.2			
44818	9/14/22	4646	5,898,065,199		35.0		25.6			
44854	10/20/22	4682	5,901,504,293		36.0		10.6			
44874	11/9/22	4702	5,901,889,730		20.0		1.2			
44910	12/15/22	4738	5,901,889,730		36.0		0.0			
44945	1/19/23		5,901,894,706		35.0		0.0			
44973	2/16/23		3,901,094,700 NM (2)		NM		NM			
45008	3/23/23	4836	NM (2)		NM		NM			
45030	4/14/23	4858	5,903,931,571		85.0		6.3			
45056	5/10/23		5,907,153,615		26.0		9.9			
45092	6/15/23				36.0		1.9			
	-,,		-,,,====							

Data based on manual reads by TEAM of the Hay Ranch North and South Well Totalizers and digital reads from Coso Operating Company. Hay Ranch Project groundwater pumping was initiated on 12/25/09.

1) Electrical issue with totalizers, no flow volumes collected. Coso indicates totalizers were fixed on March 21, 2019.

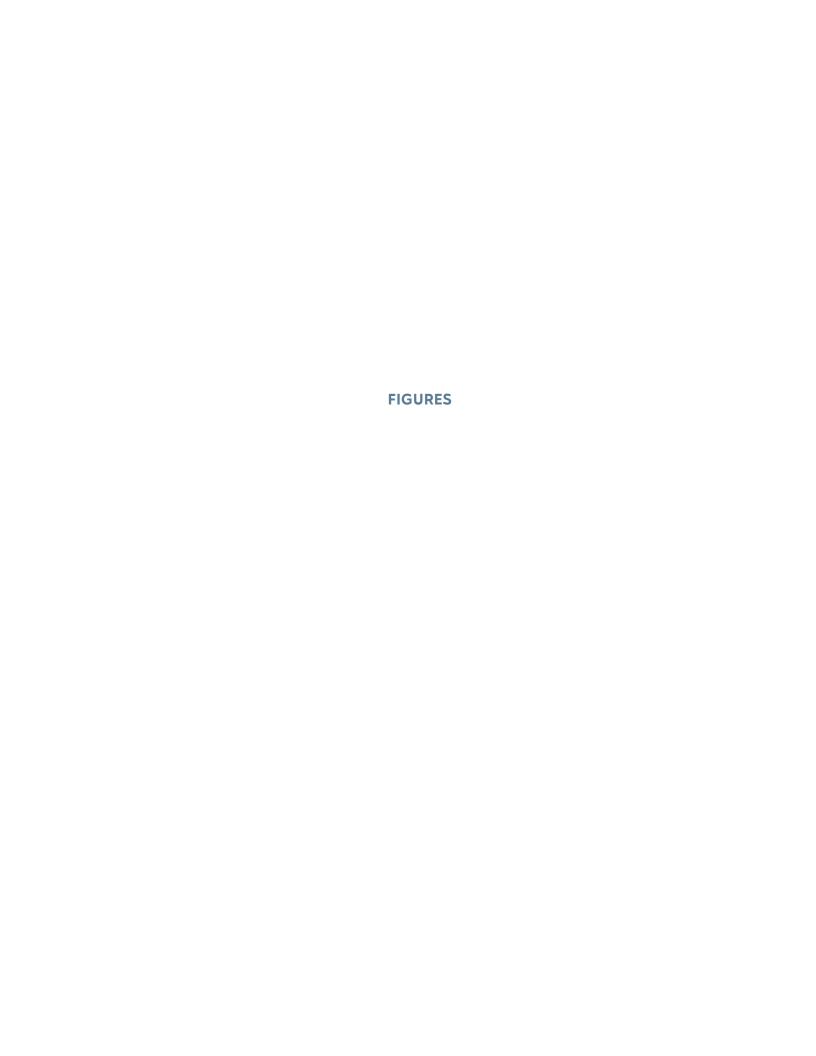
TABLE 3HAY RANCH PROJECT GROUNDWATER BASELINES AND TRIGGER LEVELS
June 2023

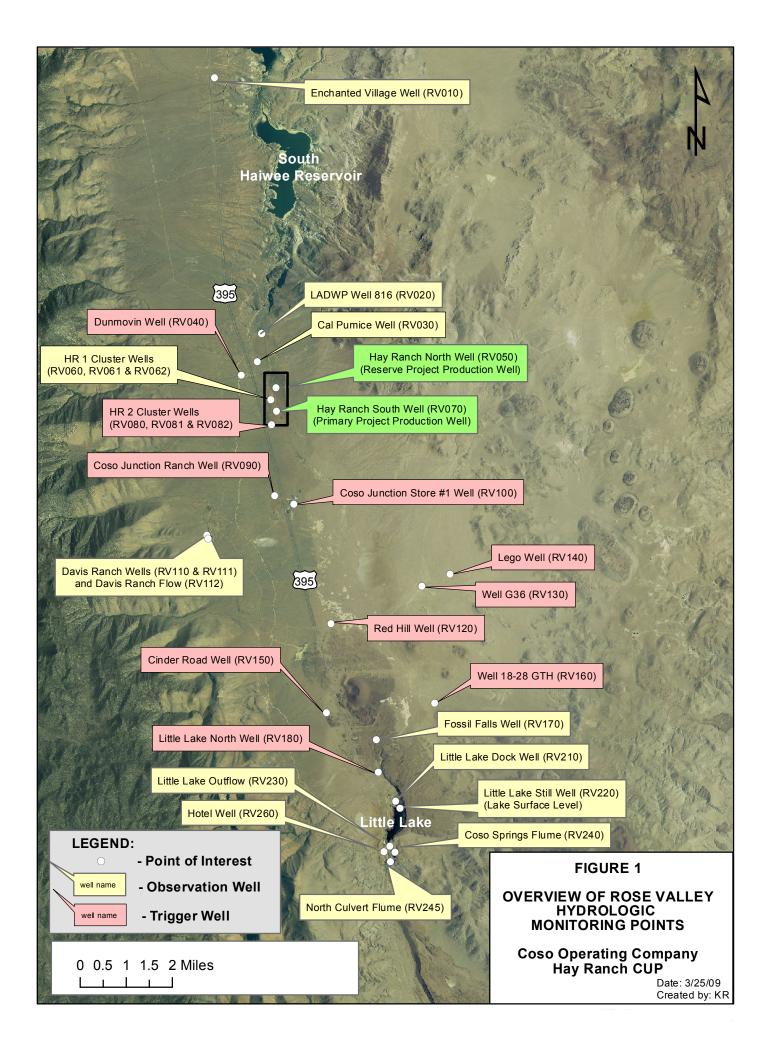
Well ID	Monitoring Point	Baseline GWE ¹	Recent Date of Measurement	Recent GWE	Recent GWE Compared to Baseline	Drawdown Trigger Level ²	Recent GWE Compared to Trigger Level	Maximum Acceptable Drawdown ²	Recent GWE Compared to Max. Drawdown
		(feet amsl)		(feet amsl)	(feet)	(feet)	(feet)	(feet)	(feet)
RV-80	HR 2A	3240.92	06/15/23	3237.70	-3.22	13.6	10.38	17.6	14.38
RV-90	Coso Jct Ranch	3230.65	06/15/23	3229.48	-1.17	8.3	7.13	9.4	8.53
RV-100	Coso Jct Store #1	3227.59	06/15/23	3227.82	0.23	7.6	7.83	8.4	8.93
RV-120	Red Hill Well	3200.66	06/15/23	3199.41	-1.25	3.4	2.15	3.5	2.75
RV-130	G-36	3198.35	06/15/23	3197.48	-0.87	3.0	2.13	3.1	2.73
RV-140	Lego	3199.21	06/15/23	3198.10	-1.11	2.1	0.99	2.5	1.59
RV-150	Cinder Road	3186.92	06/15/23	3185.48	-1.44	2.0	0.56	2.2	0.96
RV-160	18-28 GTH	3187.67	06/15/23	3187.11	-0.56	1.9	1.34	2.1	1.74
RV-180	LLR North Well	3158.88	06/15/23	3159.22	0.34	1.1	1.44	1.3	1.74

¹⁾ GWE: Groundwater elevation measured in feet above mean sea level. Baseline GWEs set January 2010 and March 2011 and approved by Inyo County Water Department (ICWD)

²⁾ Max DD and Trigger Level: Maximum Acceptable Drawdown and Drawdown Trigger Level from Table 4 of the "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company Hay Ranch Water Extraction and Delivery System, Conditional Use Permit (CUP) 2007-003" Dated May 27, 2021.

³⁾ Cinder Road well damaged in October 2017, surveyed measuring point removed. Accuracy of GWE calculation may be reduced.





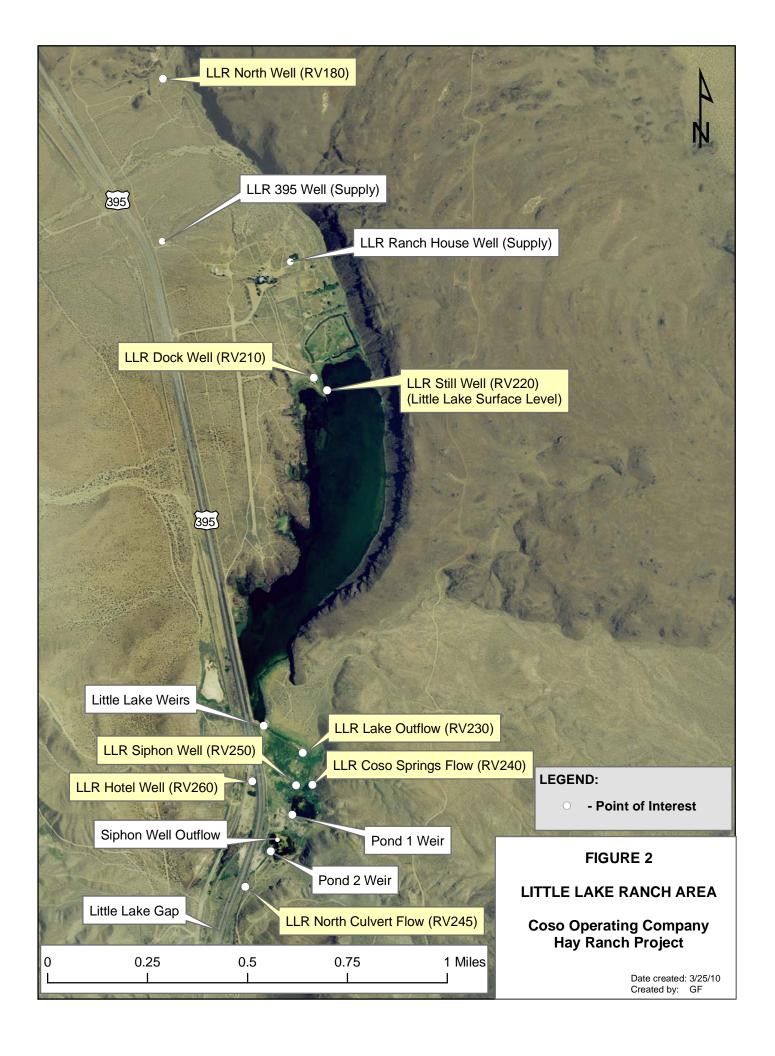
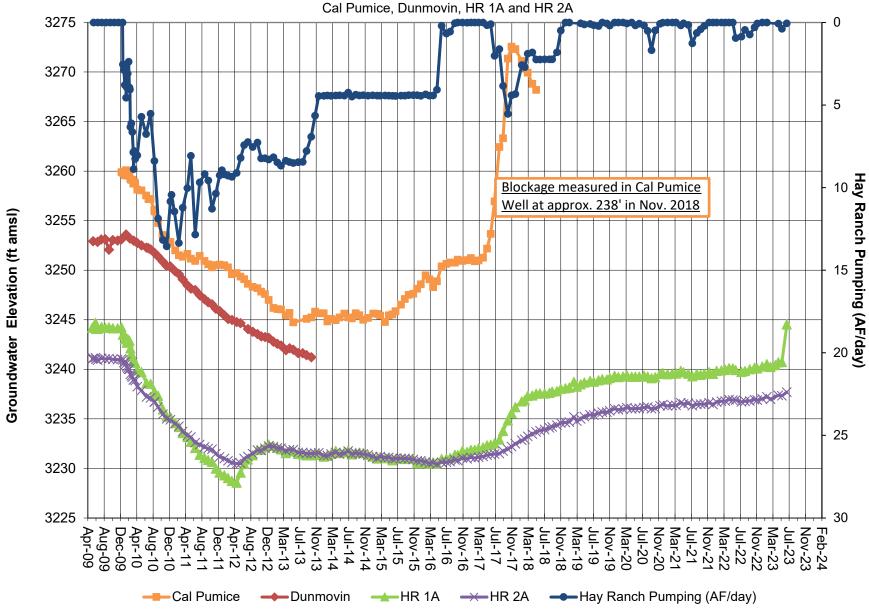
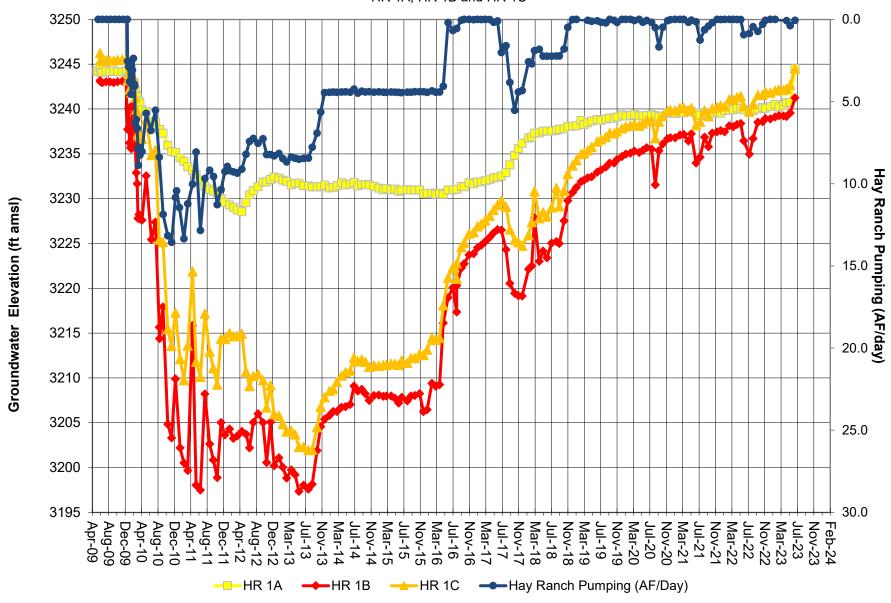


FIGURE 3
GROUNDWATER ELEVATION and HAY RANCH PUMPING



Hay Ranch pumping is average acre feet per day.

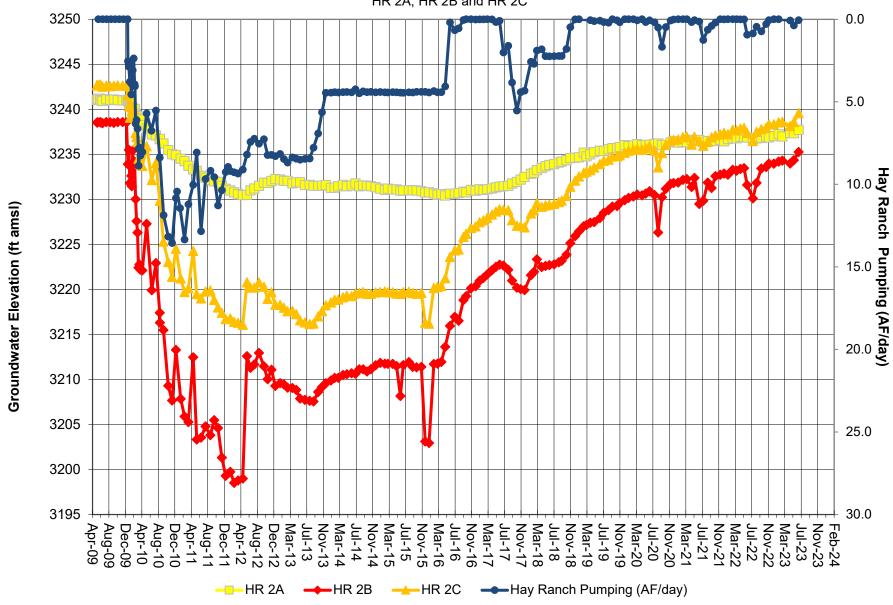
FIGURE 4
GROUNDWATER ELEVATION and HAY RANCH PUMPING
HR 1A, HR 1B and HR 1C



 $\label{thm:condition} \textbf{Note: Groundwater elevation data based on manual depth-to-water measurements}.$

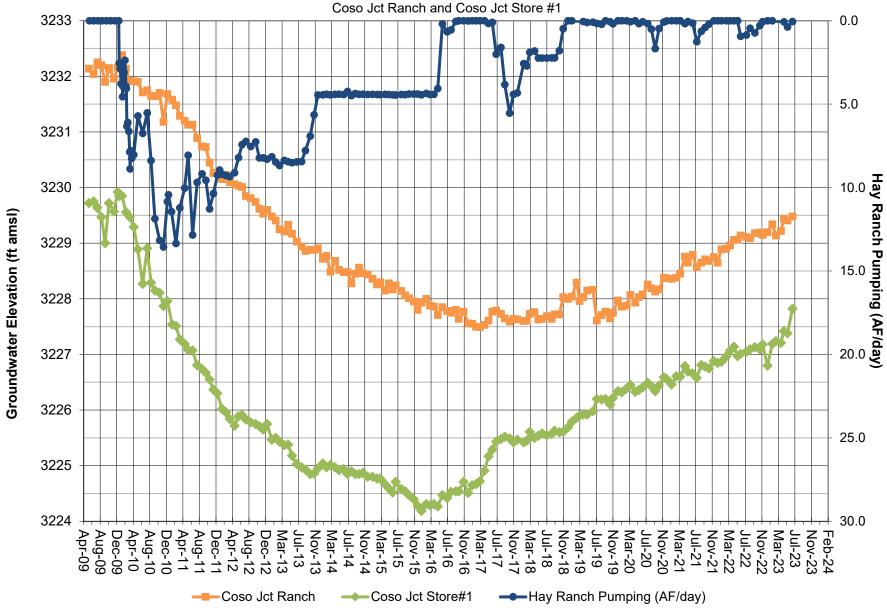
Hay Ranch pumping is average acre feet per day.

FIGURE 5
GROUNDWATER ELEVATION and HAY RANCH PUMPING
HR 2A, HR 2B and HR 2C



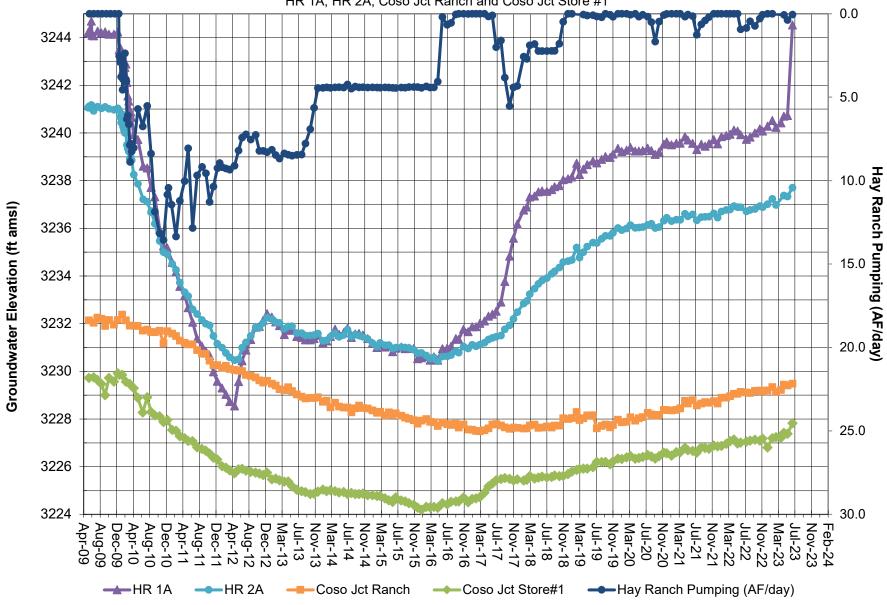
Hay Ranch pumping is average acre feet per day.

FIGURE 6AGROUNDWATER ELEVATION and HAY RANCH PUMPING



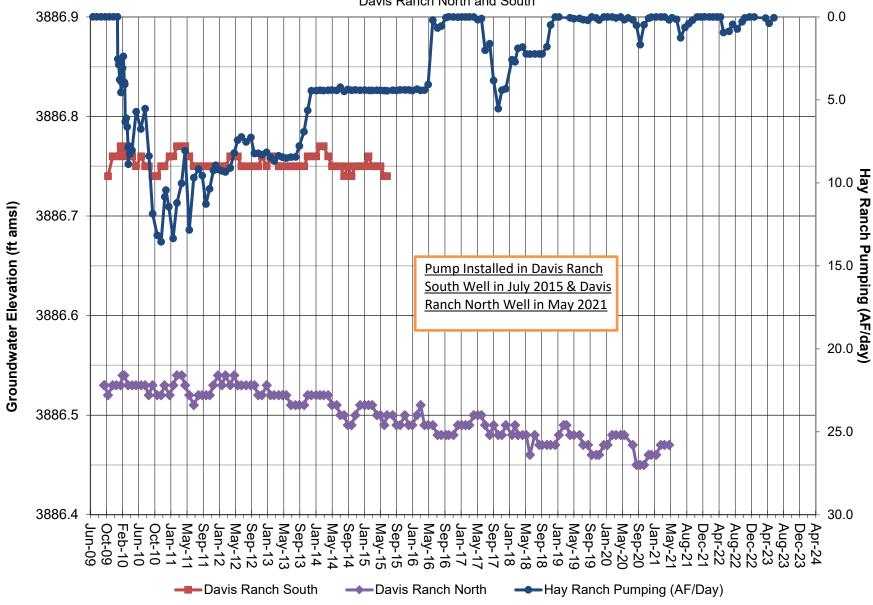
Hay Ranch pumping is average acre feet per day.

FIGURE 6B
GROUNDWATER ELEVATION and HAY RANCH PUMPING
HR 1A, HR 2A, Coso Jct Ranch and Coso Jct Store #1



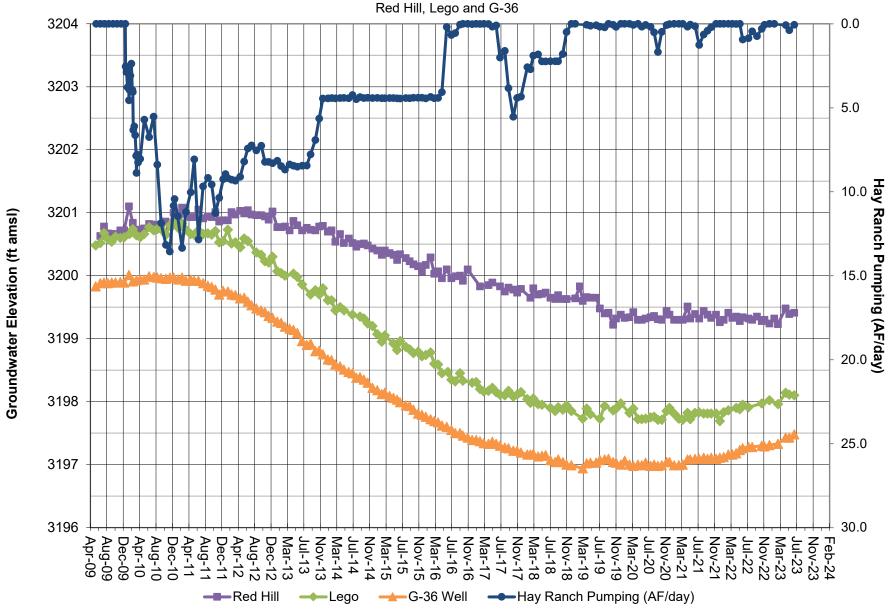
Hay Ranch pumping is average acre feet per day.

FIGURE 7
GROUNDWATER ELEVATION and HAY RANCH PUMPING
Davis Ranch North and South



Hay Ranch pumping is average acre feet per day.

FIGURE 8
GROUNDWATER ELEVATION and HAY RANCH PUMPING

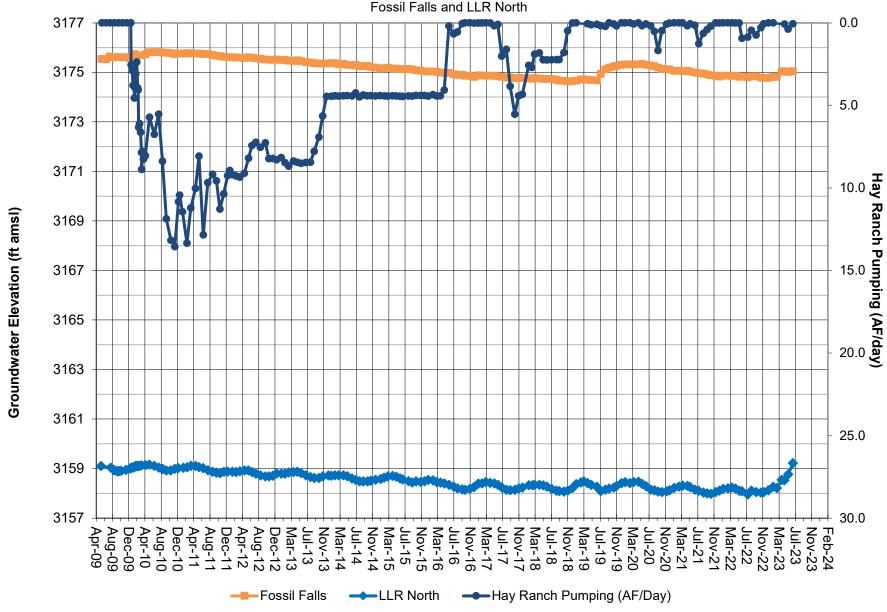


Hay Ranch pumping is average acre feet per day.

FIGURE 9 GROUNDWATER ELEVATION and HAY RANCH PUMPING 18-28 and Cinder Road 3190 0.0 5.0 3189 10.0 Hay Ranch Pumping (AF/day) 15.0 20.0 Groundwater Elevation (ft amsl) 3188 3187 3186 25.0 3185 30.0 Mar-13
Dec-12
Aug-12
Apr-12
Dec-11
Aug-11
Aug-11
Apr-11
Apr-10
Aug-10
Apr-10 Mar-15 Nov-14 Jul-14 Mar-16 Nov-15 Jul-17 Mar-17 Nov-16 Jul-18 Mar-18 Nov-17 Jul-19 Mar-19 Nov-18 Feb-24 Nov-23 Jul-23 Mar-23 Nov-22 Jul-22 Mar-22 Nov-21 Jul-21 Nov-20 Jul-20 Mar-20 Nar-20 Mar-14 Jul-13 Jul-15 Jul-16 **Nov-13** Cinder Road Hay Ranch Pumping (AF/day) -----18-28 Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Hay Ranch pumping is average acre feet per day. Hay Ranch Totalizers not operational in Feb and March 2023

FIGURE 10
GROUNDWATER ELEVATION and HAY RANCH PUMPING

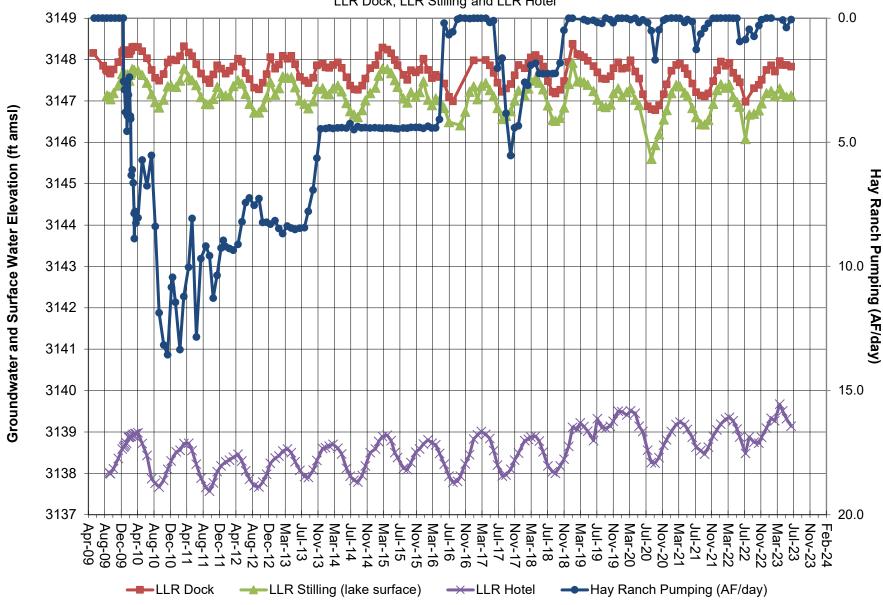


Note: Groundwater elevation data based on manual depth-to-water measurements.

Hay Ranch pumping is average acre feet per day.

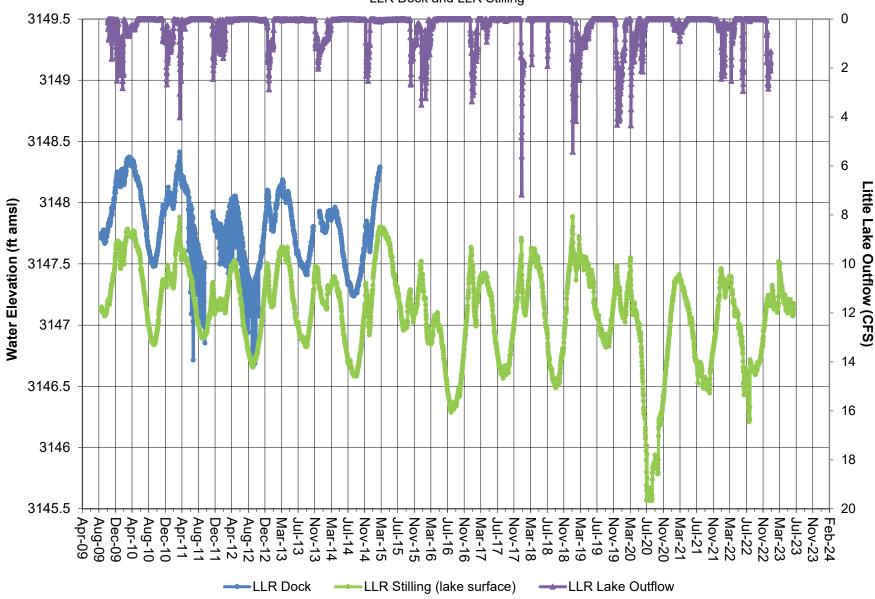
Hay Ranch Totalizers not operational in Feb and March 2023.

FIGURE 11 WATER ELEVATION and HAY RANCH PUMPING LLR Dock, LLR Stilling and LLR Hotel



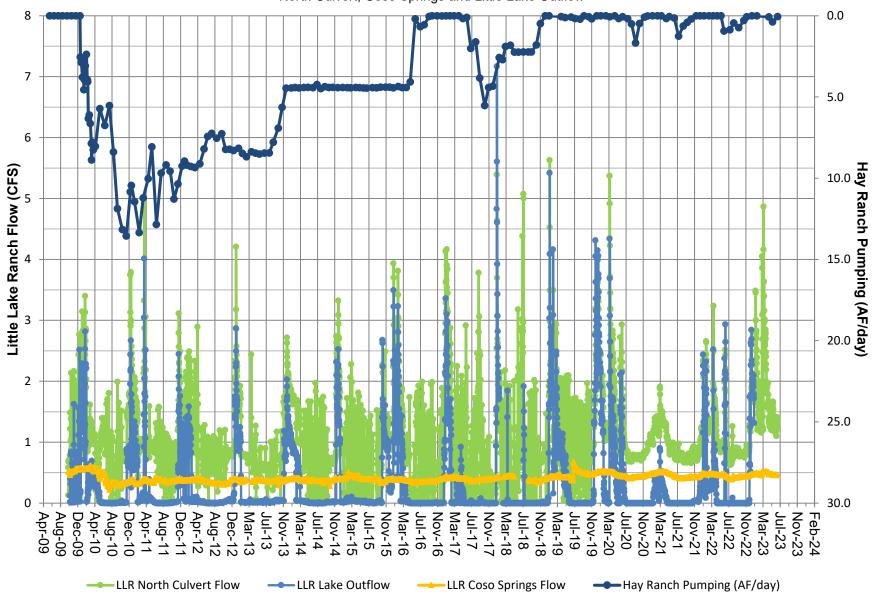
Note: Groundwater elevation data based on manual depth-to-water measurements. Hay Ranch pumping is average acre feet per day.

FIGURE 12
WATER ELEVATION and LITTLE LAKE OUTFLOW
LLR Dock and LLR Stilling



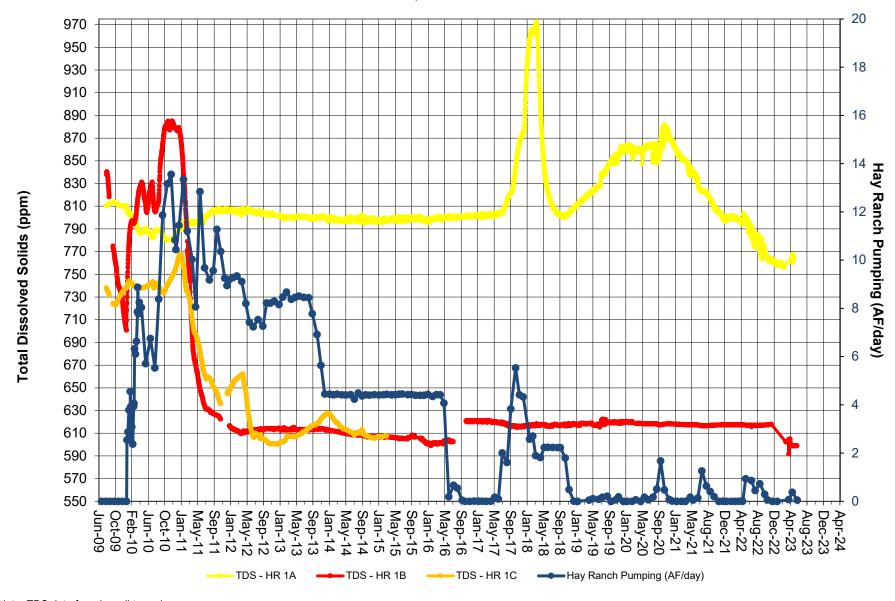
Note: Little Lake Outflow in cubic feet per second
Pressure transducer removed from Dock Well in March 2015
LLR Lake Outflow not presented since December 2022 due to accuracy concerns.

FIGURE 13
LLR FLOW and HAY RANCH PUMPING
North Culvert, Coso Springs and Little Lake Outflow



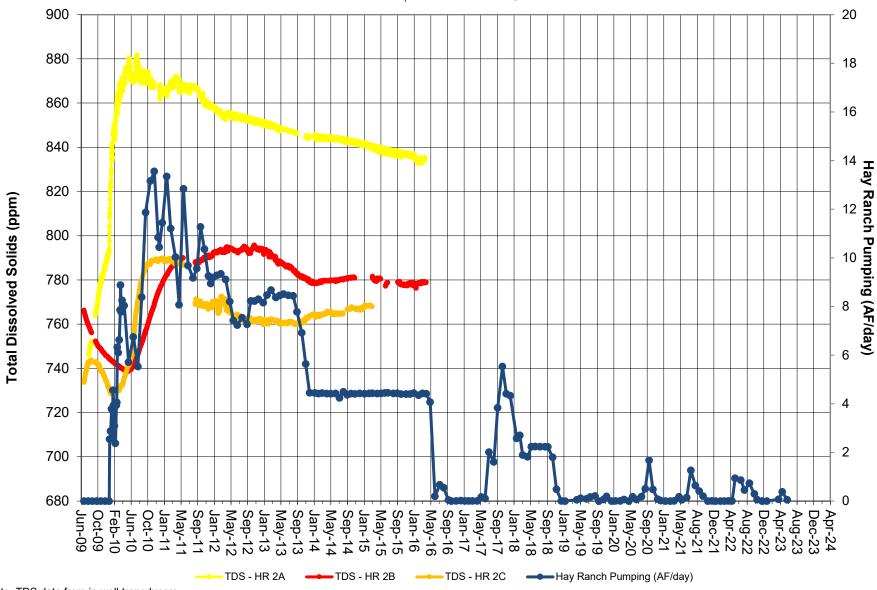
Note: Little Lake Ranch Flows anr cubic feet per second. Hay Ranch Pumping is average acre feet per day.

FIGURE 14
TOTAL DISSOLVED SOLIDS (TDS) and HAY RANCH PUMPING
HR 1A, HR 1B and HR 1C



Note: TDS data from in-well transducers. Screened intervals: HR1A 170-260 feet; HR1B 490-540 feet; HR1C 340-405 feet. HR1B transducer failed in Jan. 2023.

FIGURE 15
TOTAL DISSOLVED SOLIDS (TDS) and HAY RANCH PUMPING
HR 2A, HR 2B and HR 2C



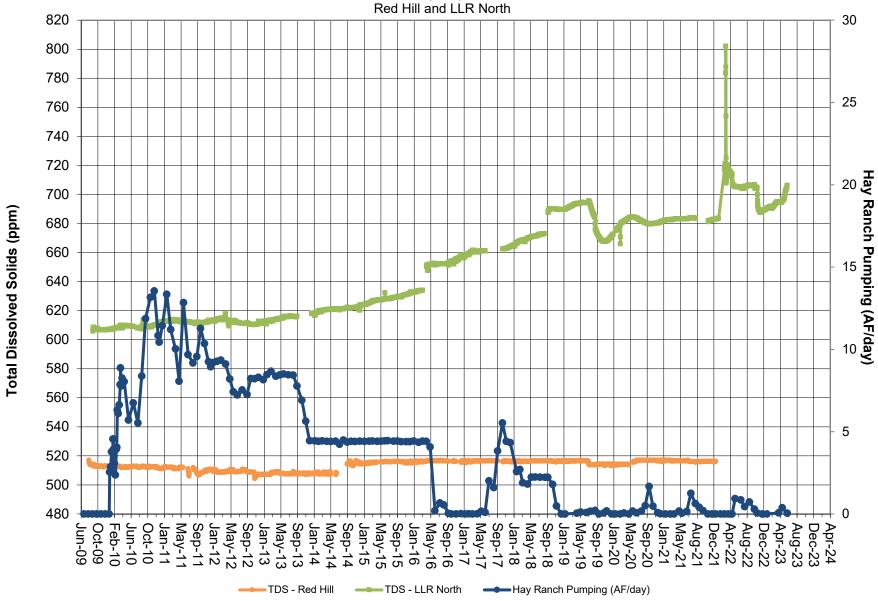
Note: TDS data from in-well transducers.

Screened intervals: HR 2A 180-300 feet; HR 2B 519-584 feet; HR 2C 370-420 feet.

PT removed from HR2C in March 2015.

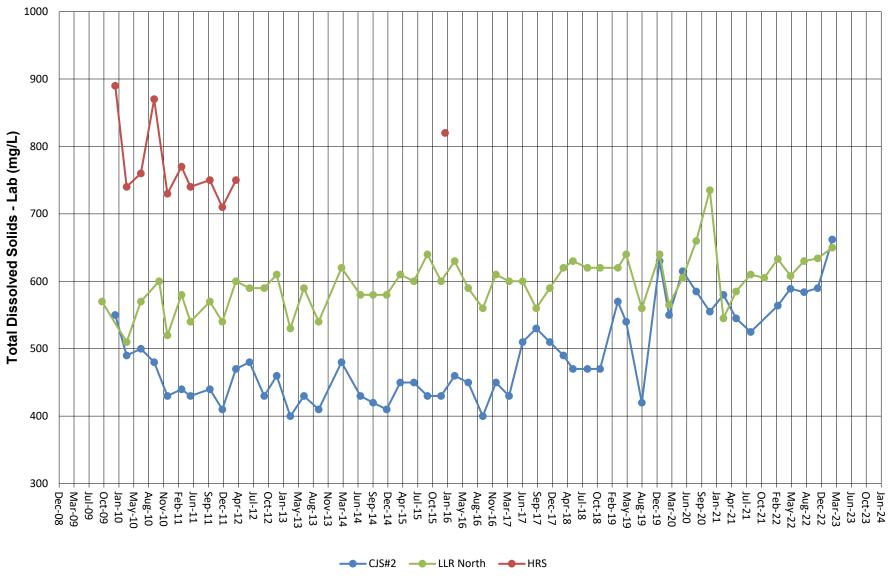
HR 2A and 2B no longer record TDS as of April 2016.

FIGURE 16
TOTAL DISSOLVED SOLIDS (TDS) and HAY RANCH PUMPING



Note: TDS data from in-well transducers. Hay Ranch pumping is average acre feet per day. LLR North data gaps due to transducer malfunction. Transducer removed from Red Hill Well in Jan. 2022.

FIGURE 17
LABORATORY TDS VALUES IN GROUNDWATER
Coso Junction Store #2, LLR North and HR South



Note: TDS samples collected quarterly if accessible and pump is running. COC initiated Hay Ranch Project pumping on 12/25/09.

No samples collected during 2nd Quarter 2023 due to access issues.

FIGURE 18
ACTUAL AND MAXIMUM ALLOWABLE PUMPING AMOUNTS (TOTALS) FOR HAY RANCH PROJECT

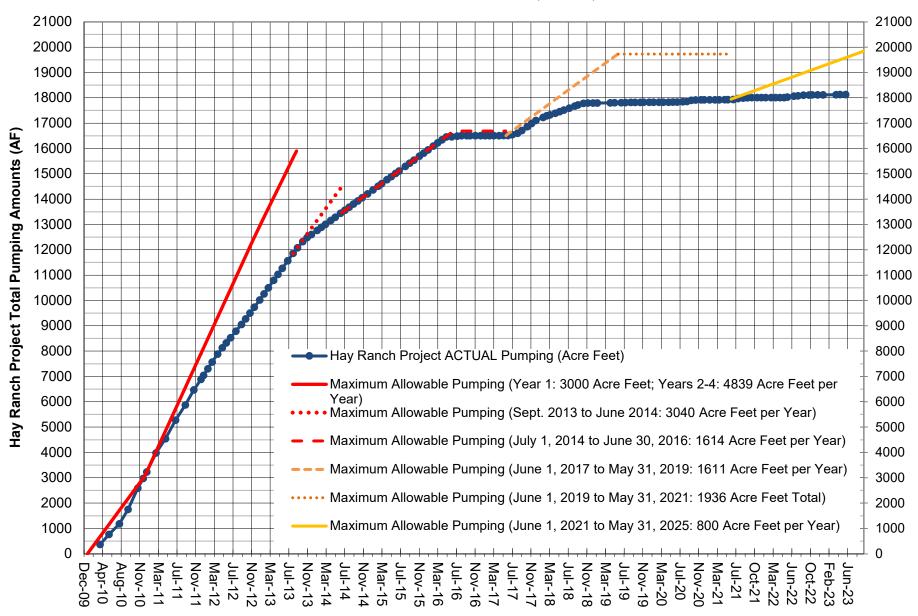
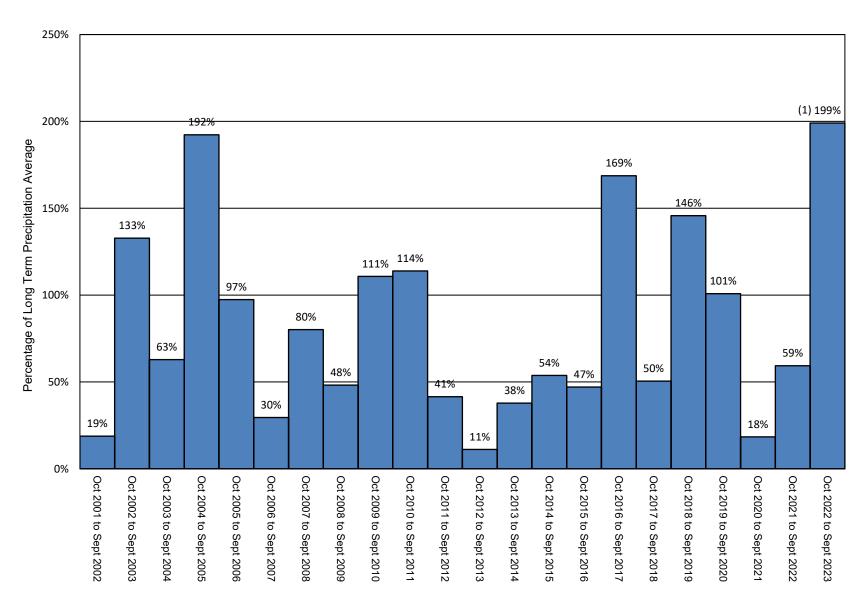


FIGURE 19
SOUTH HAIWEE RESERVOIR WEATHER STATION
Long Term Average Precipitation



¹⁾ Includes Precipitation totals through June 30, 2023.

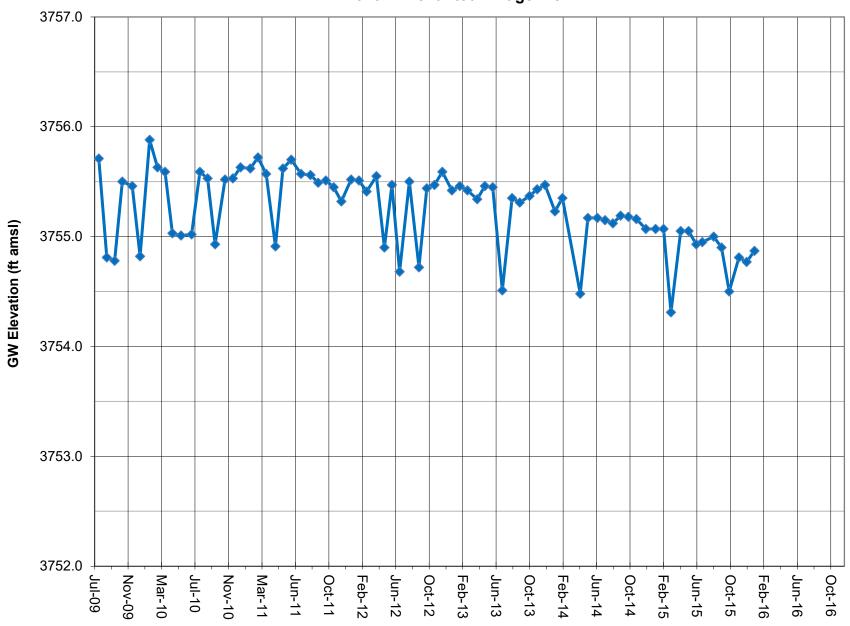
Note: Precipitation data uses a water year long term average of 7.35 inches (calculated at the beginning of project).

APPENDIX A HAY RANCH PROJECT CONDITIONAL USE PERMIT HYDROGRAPHS

SECOND QUARTER 2023

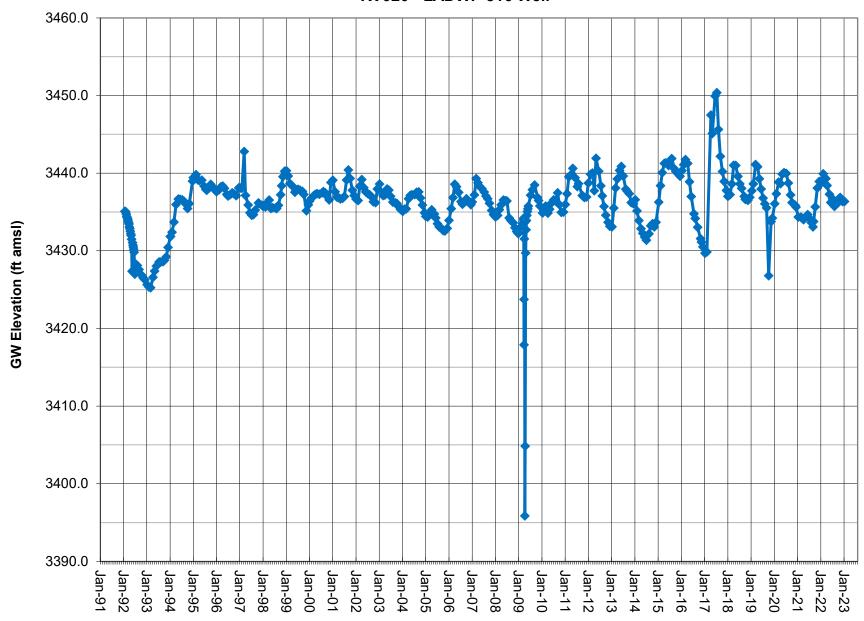
GROUNDWATER ELEVATION DATA LONG-TERM (MANUAL READS)

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV010 - Enchanted Village Well



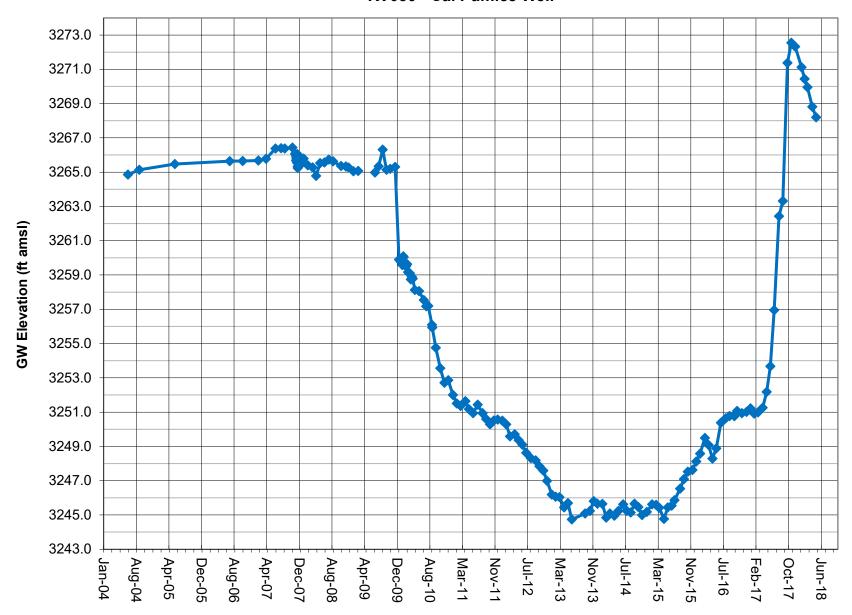
Note: Groundwater elevation data based on manual depth-to-water measurements. Enchanted Village Well (Dews) is an actively pumped domestic supply well. Monitoring discontinued Feb. 2016 per ICWD

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV020 - LADWP 816 Well

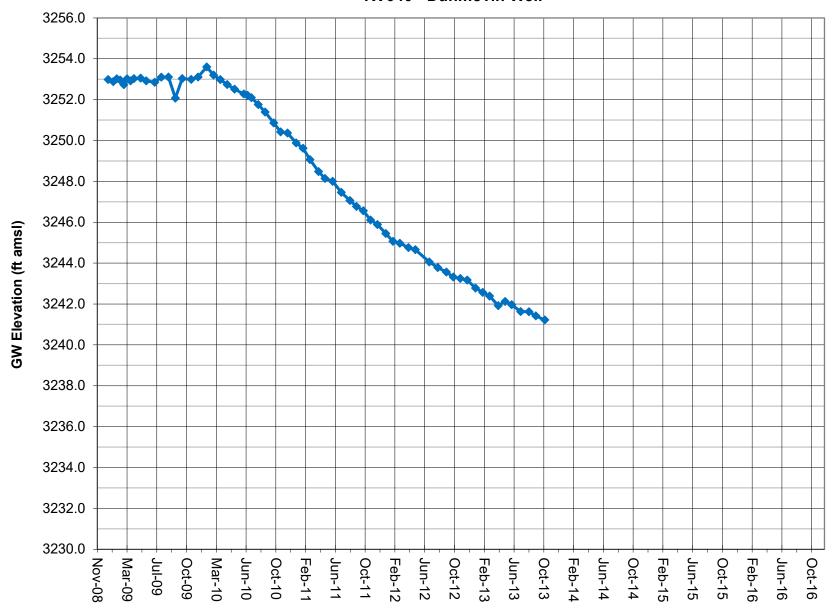


Note: Groundwater elevation data based on manual depth-to-water measurements. LADWP conducted a groundwater pump test on a nearby well in the first quarter 2009. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

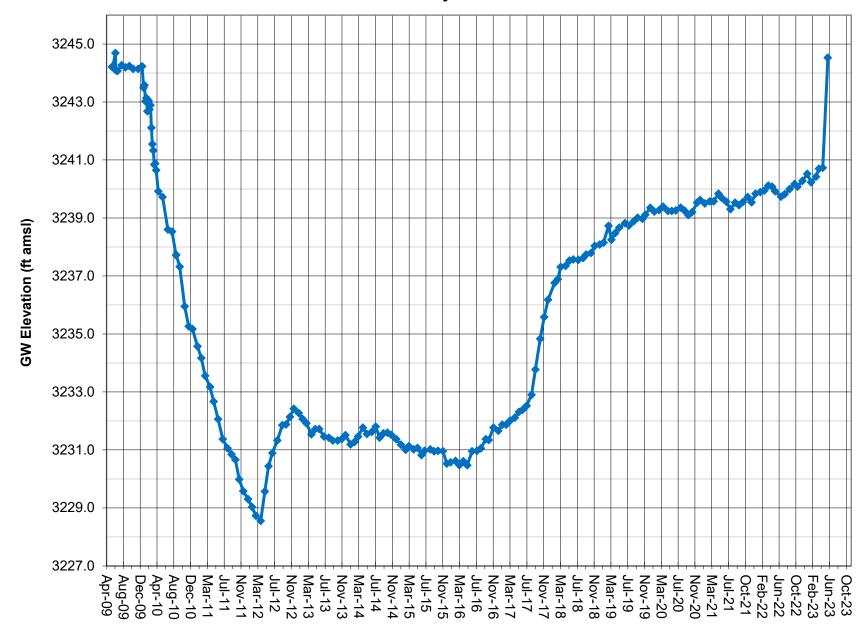
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV030 - Cal Pumice Well



GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV040 - Dunmovin Well

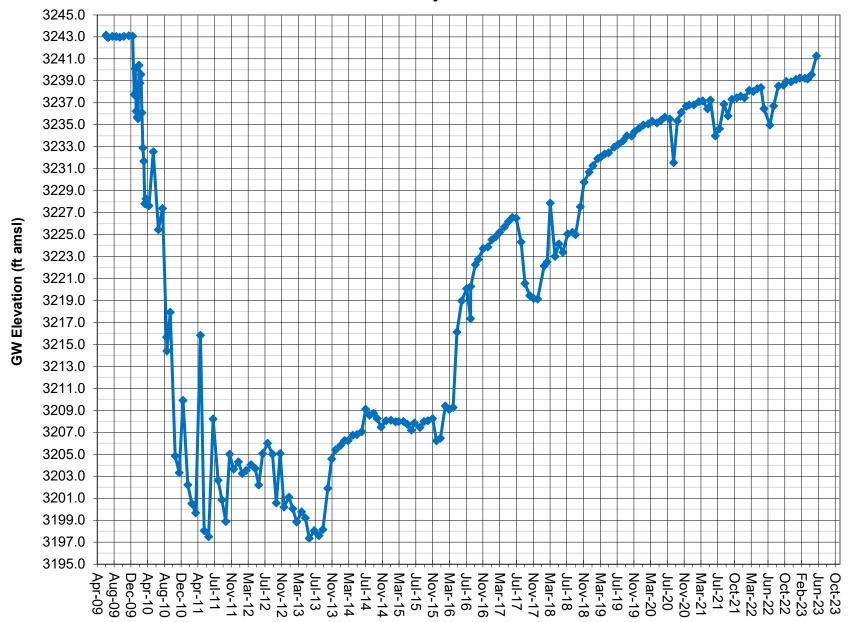


GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV060 - Hay Ranch 1A Well



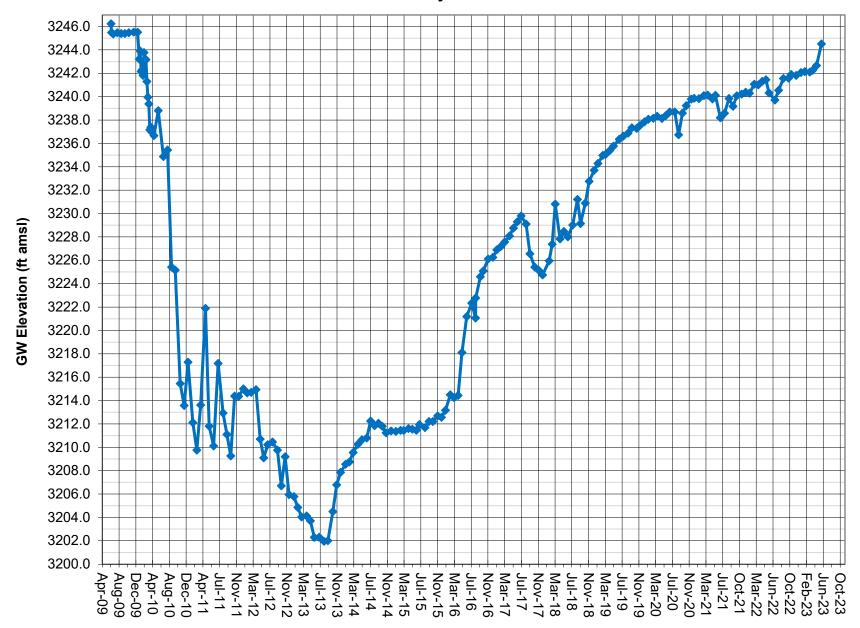
Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 170-260 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV061 - Hay Ranch 1B Well



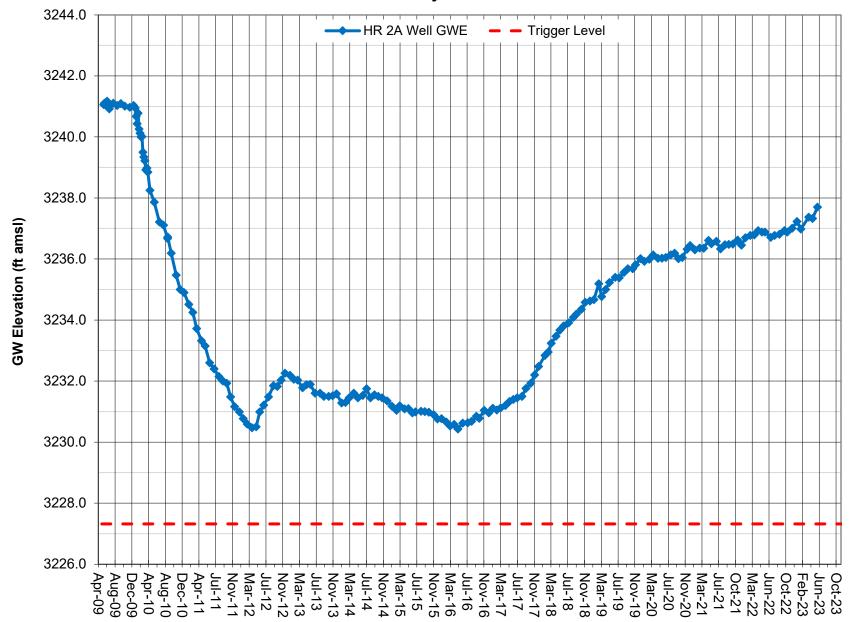
Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 490-540 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV062 - Hay Ranch 1C Well



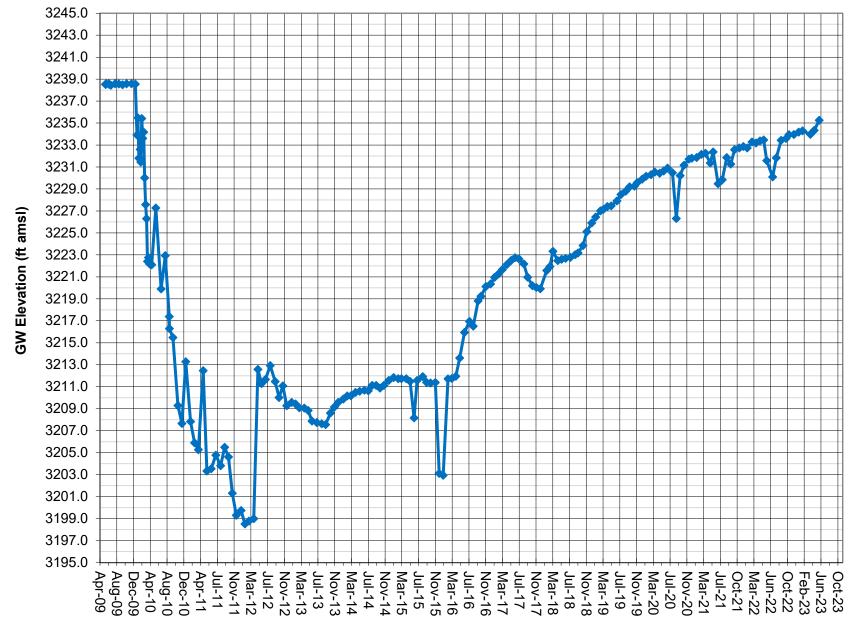
Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 340-405 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV080- Hay Ranch 2A Well



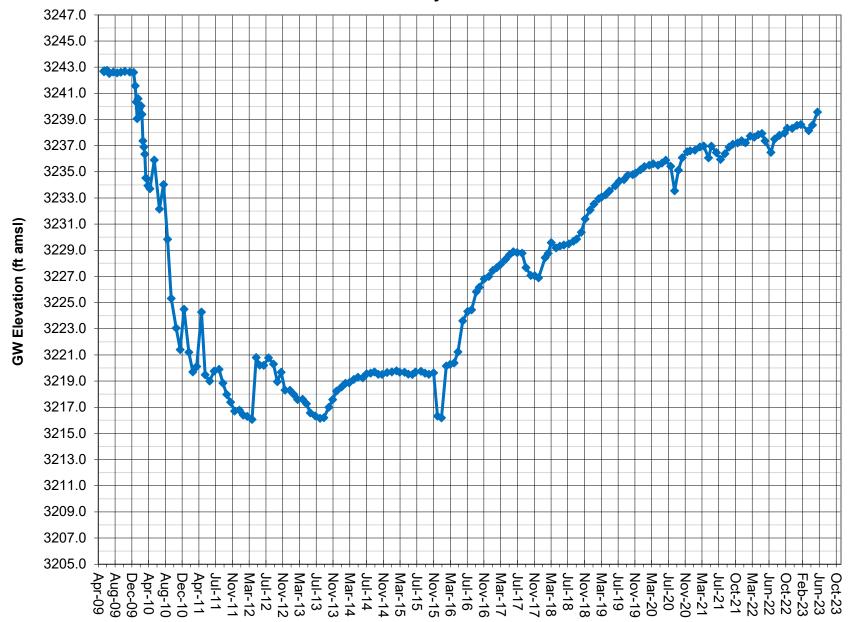
Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 180-300 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV081 - Hay Ranch 2B Well



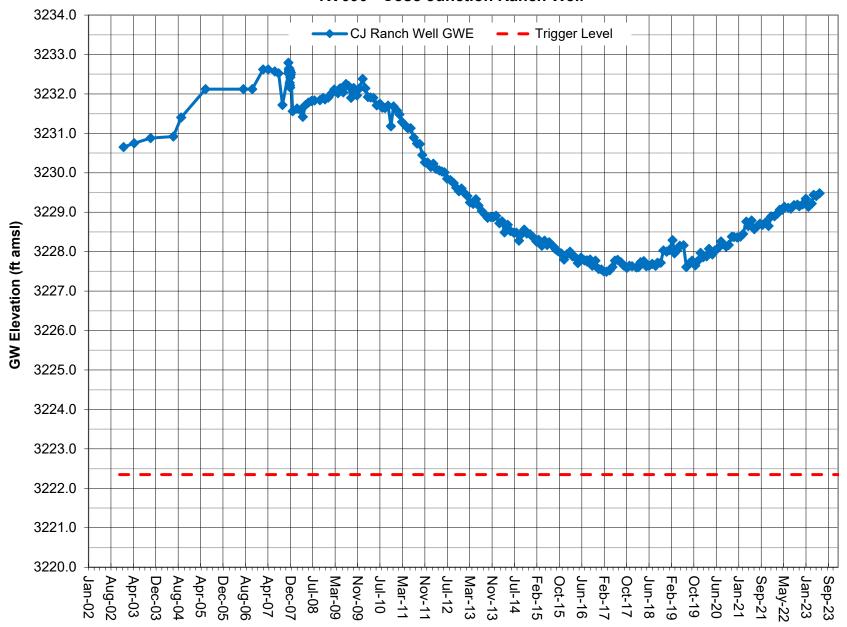
Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 519-584 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV082 - Hay Ranch 2C Well



Note: Groundwater elevation data based on manual depth-to-water measurements. Screened interval is 370-420 feet.

GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV090 - Coso Junction Ranch Well

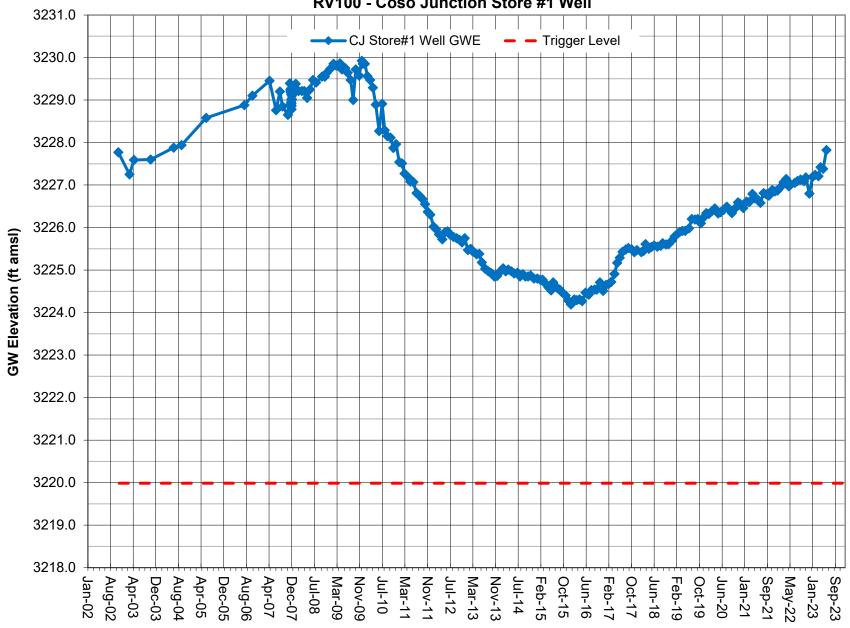


Note: Groundwater elevation data based on manual depth-to-water measurements.

Coso Operating Co. conducted a pump test on the Hay Ranch South Well in fourth quarter 2007.

Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

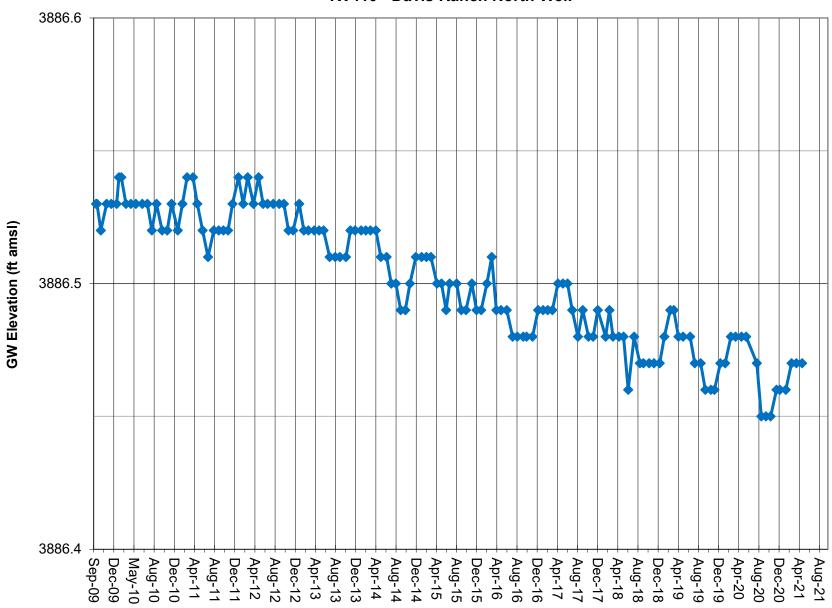
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV100 - Coso Junction Store #1 Well



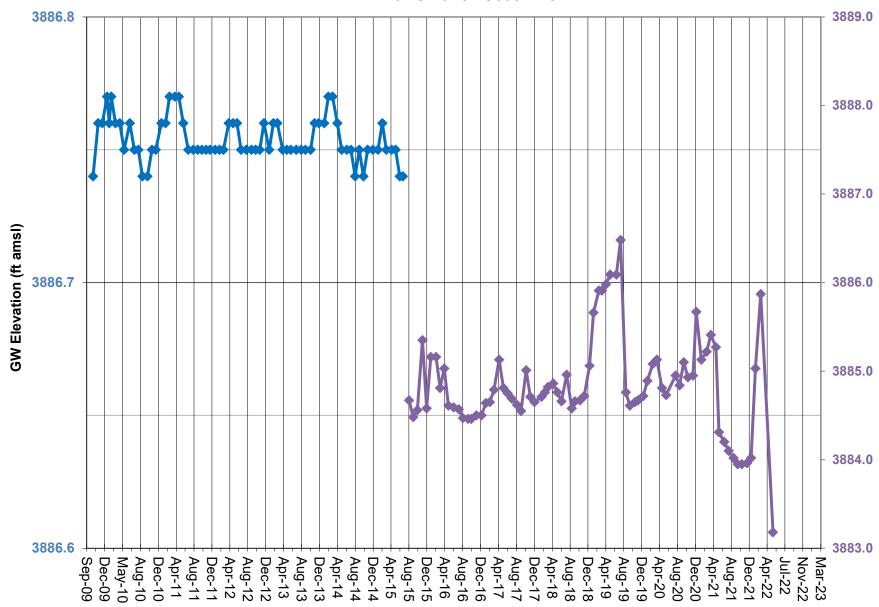
Note: Groundwater elevation data based on manual depth-to-water measurements.

Well is adjacent to actively pumped domestic well.

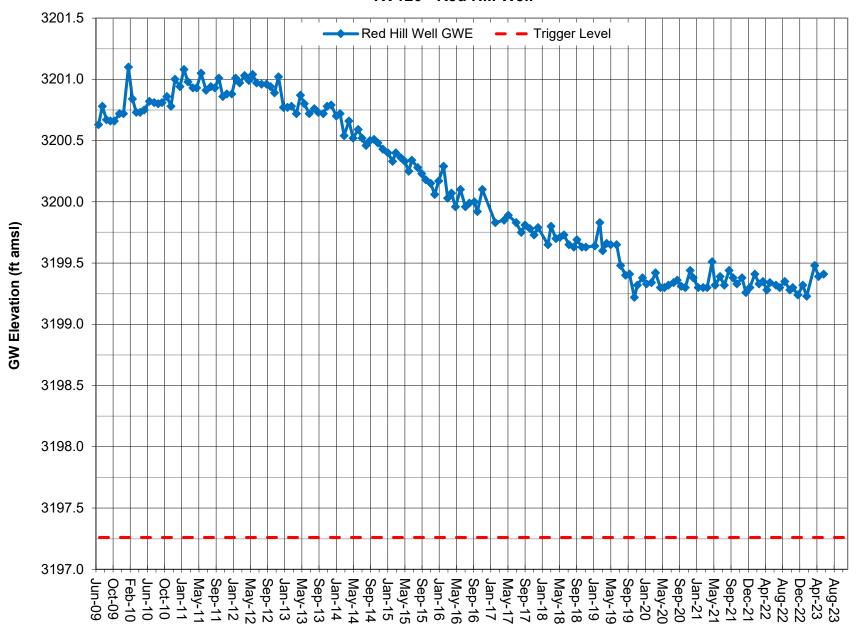
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV110 - Davis Ranch North Well



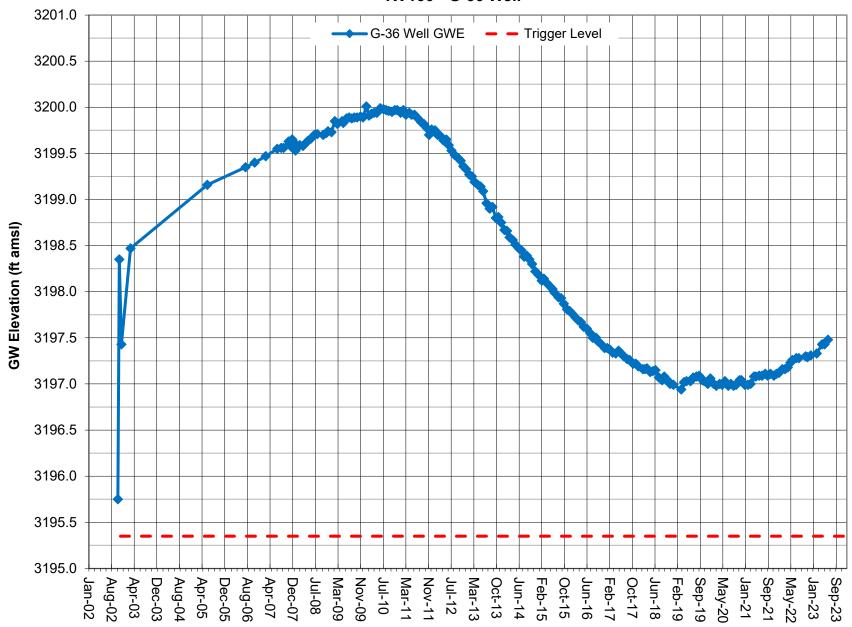
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV111 - Davis Ranch South Well



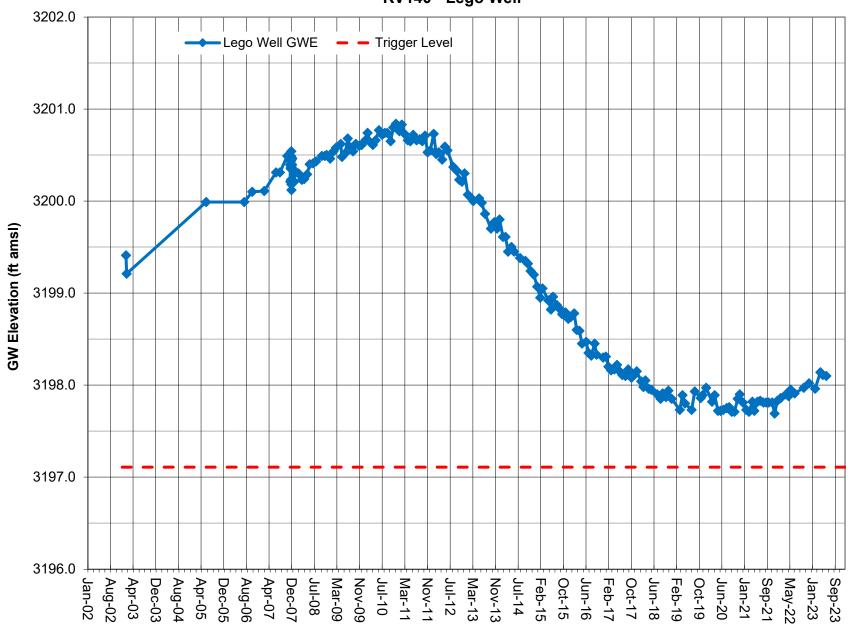
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV120 - Red Hill Well



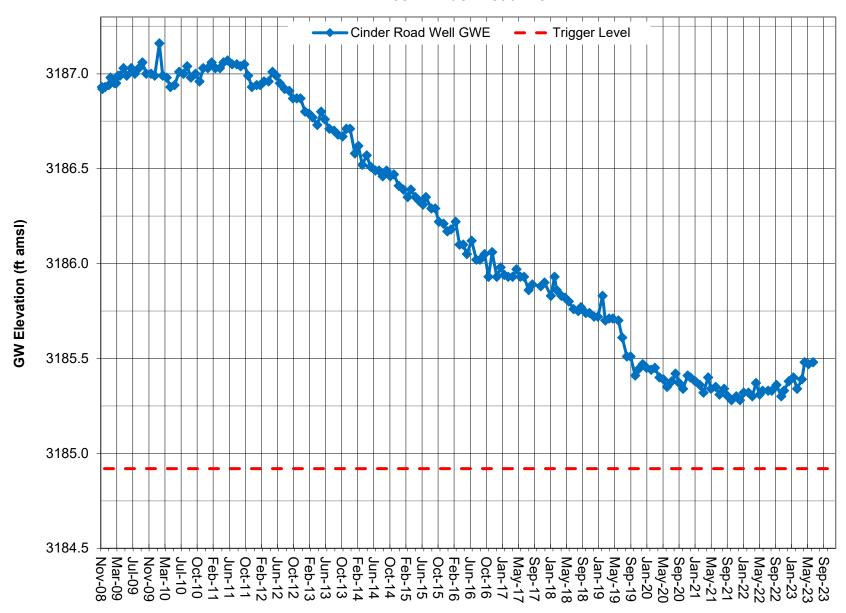
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV130 - G-36 Well



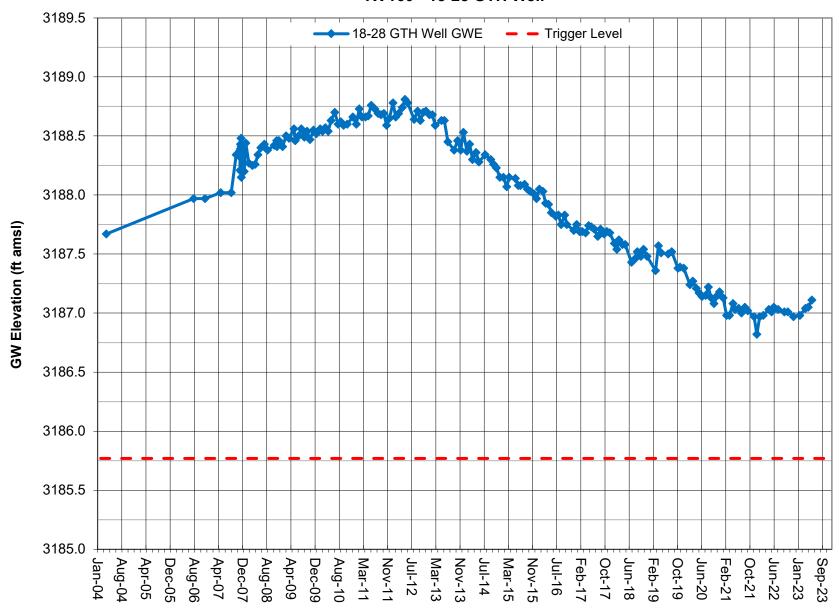
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV140 - Lego Well



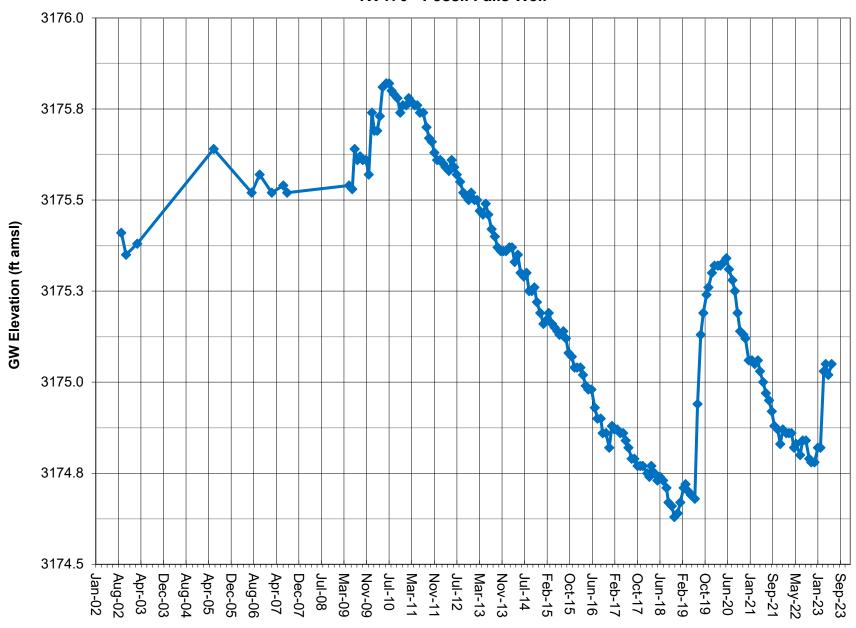
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV150 - Cinder Road Well



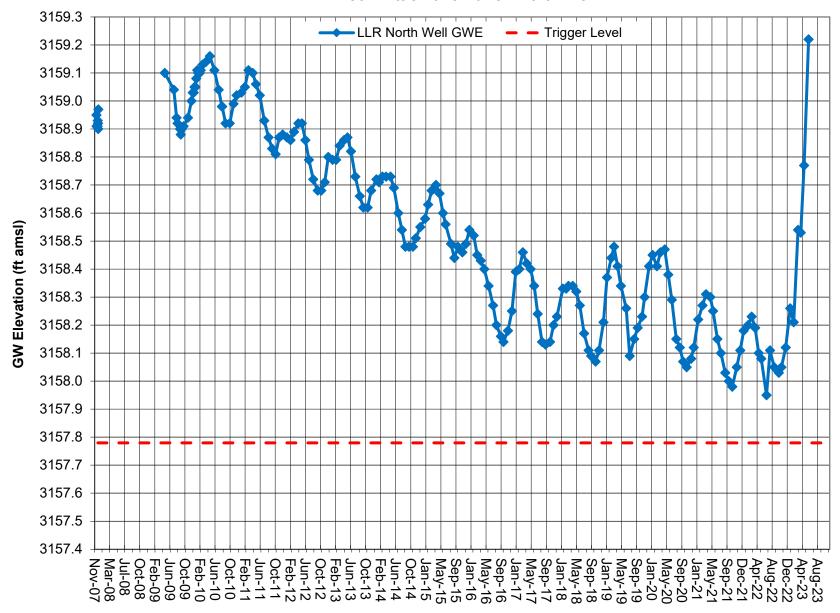
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV160 - 18-28 GTH Well



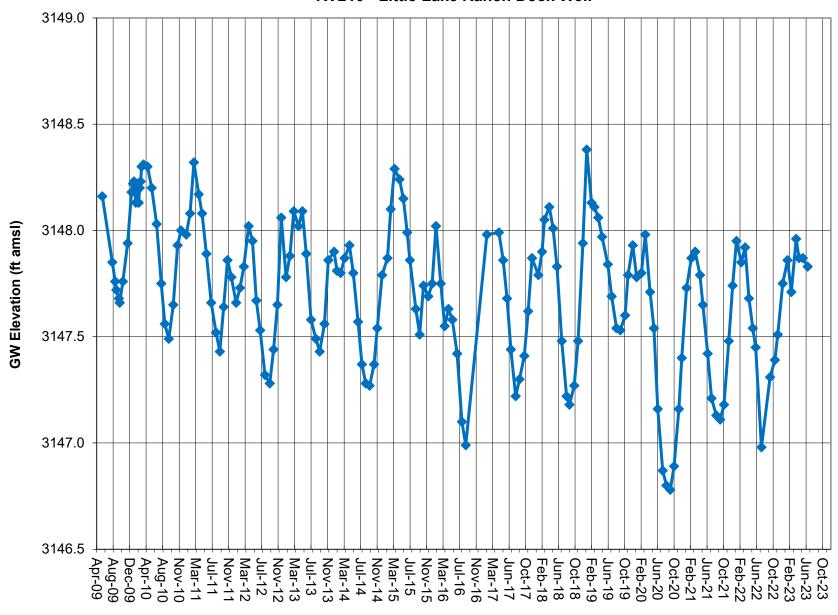
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV170 - Fossil Falls Well



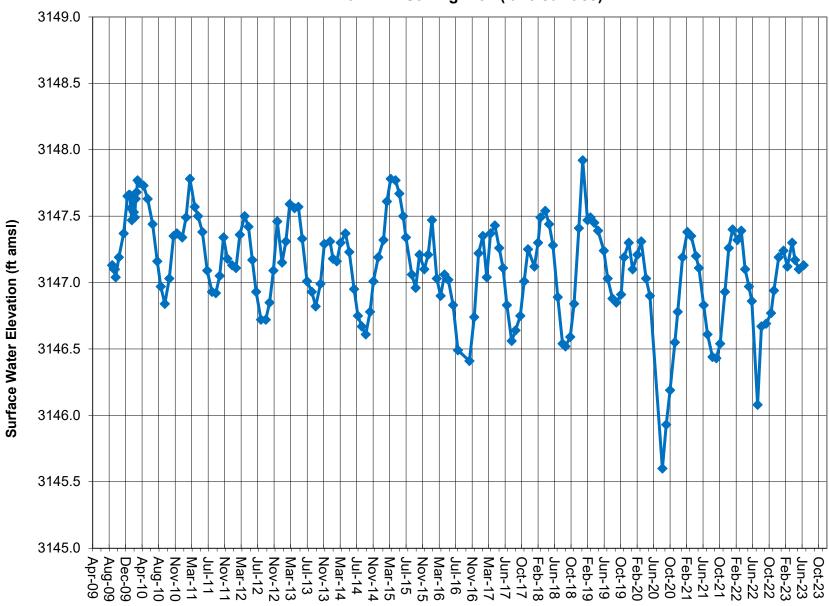
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV180 - Little Lake Ranch North Well



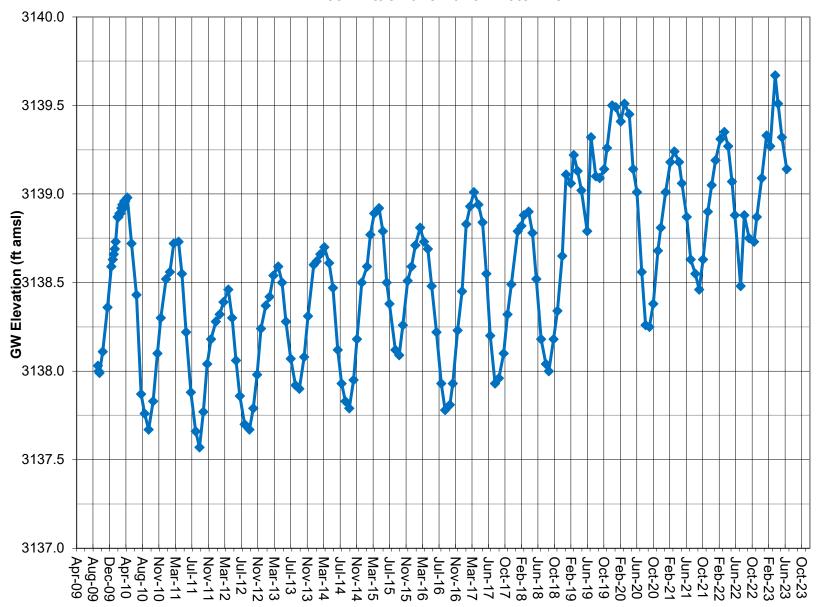
GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV210 - Little Lake Ranch Dock Well



SURFACE WATER ELEVATION DATA - Long-Term (Manual) RV220 - LLR Stilling Well (lake surface)

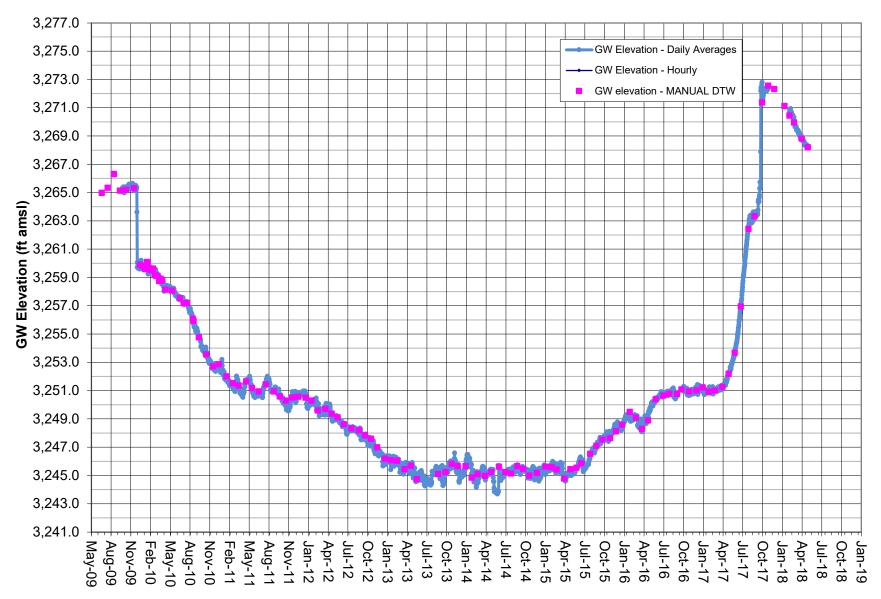


GROUNDWATER ELEVATION DATA - Long-Term (Manual) RV260 - Little Lake Ranch Hotel Well



GROUNDWATER ELEVATION DATA TRANSDUCER

GROUNDWATER ELEVATION DATA - Transducer RV030 - Cal Pumice Well

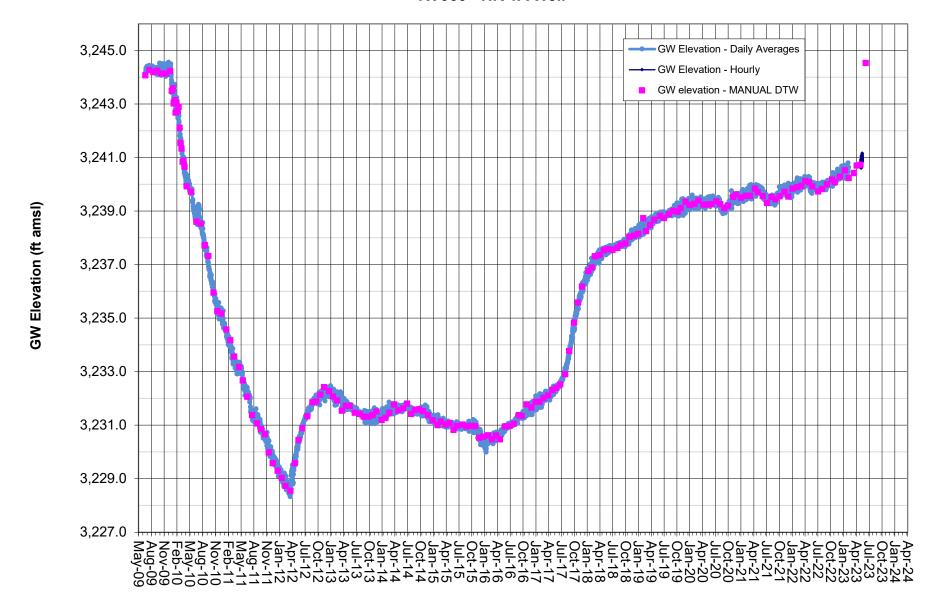


Note: Transducer data adjusted by BaroTroll and correlated to Manual DTW.

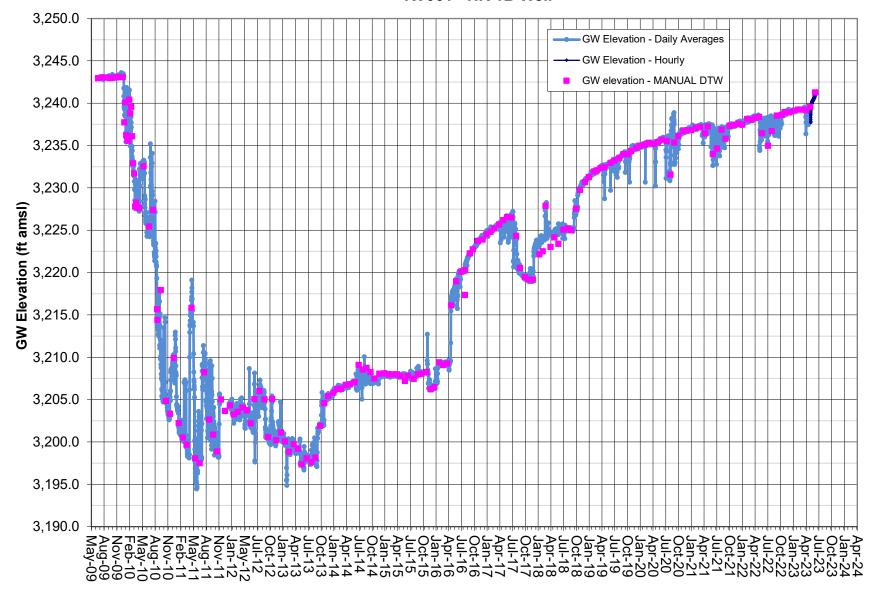
COC initiated Hay Ranch Project pumping on 12/25/09.

Transducer removed Dec. 2017, as approved by ICWD. Well measured to be Dry to about 250' in June 2018.

GROUNDWATER ELEVATION DATA - Transducer RV060 - HR 1A Well

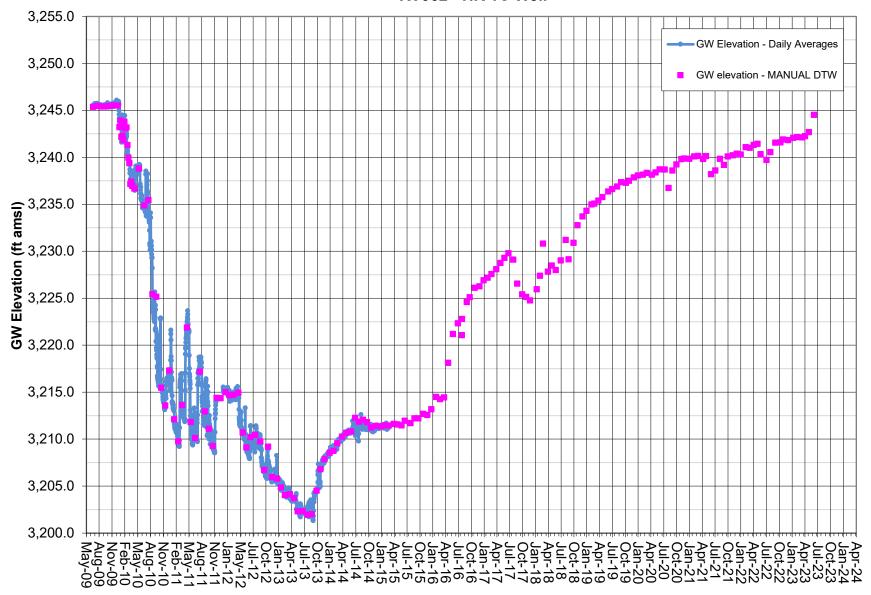


GROUNDWATER ELEVATION DATA - Transducer RV061 - HR 1B Well

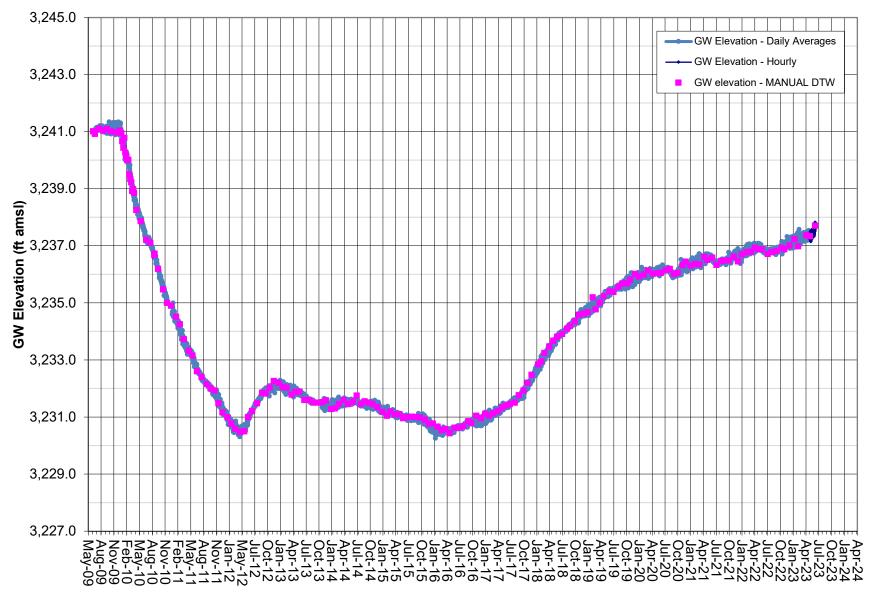


Note: Screened interval 490-540 feet.

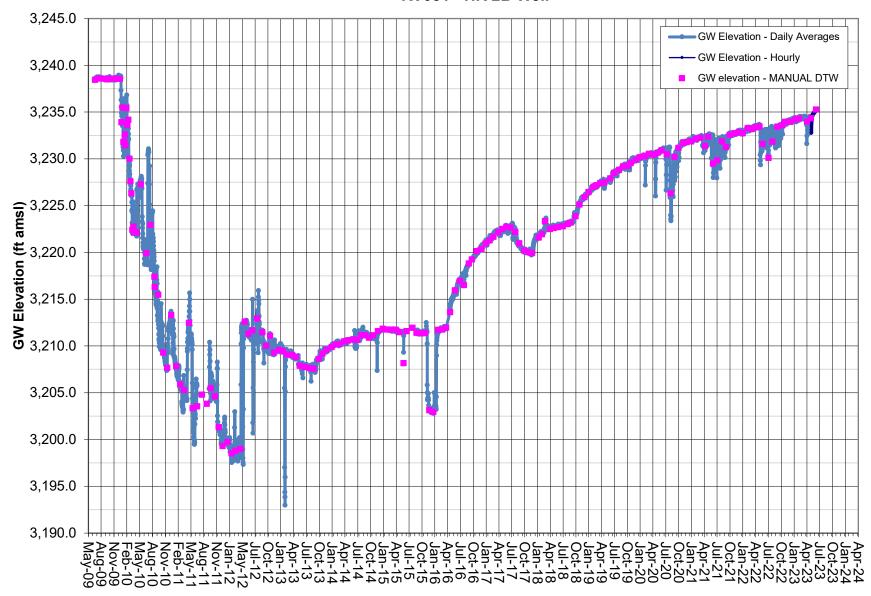
GROUNDWATER ELEVATION DATA - Transducer RV062 - HR 1C Well



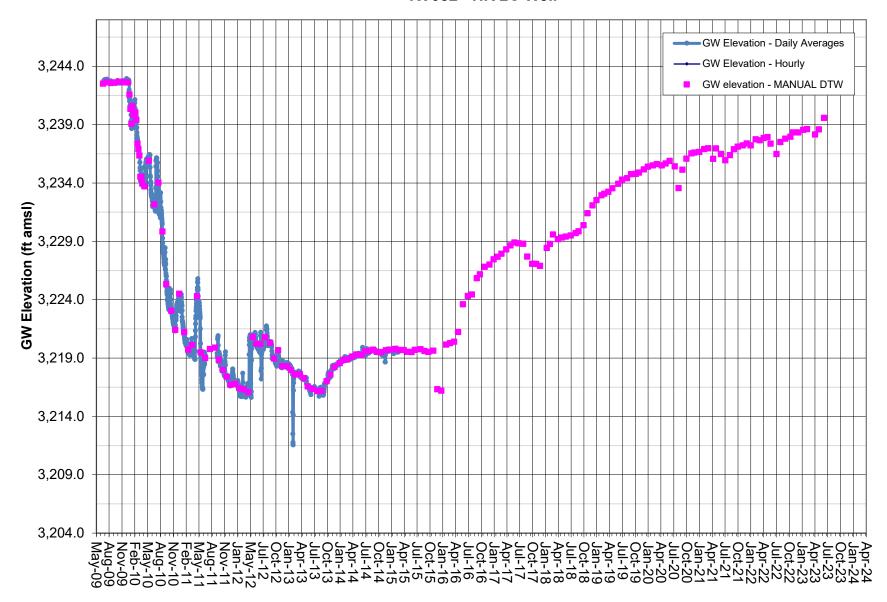
GROUNDWATER ELEVATION DATA - Transducer RV080 - HR 2A Well



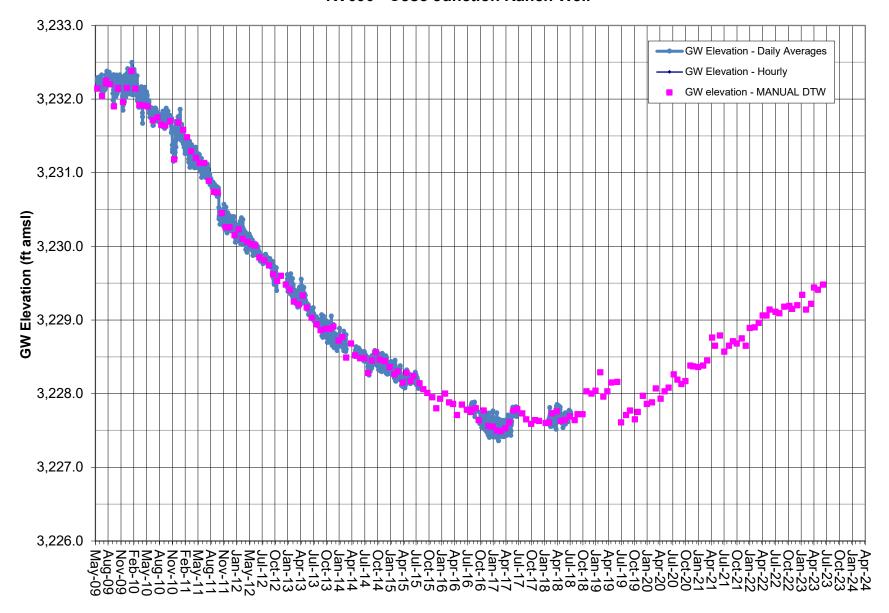
GROUNDWATER ELEVATION DATA - Transducer RV081 - HR 2B Well



GROUNDWATER ELEVATION DATA - Transducer RV082 - HR 2C Well

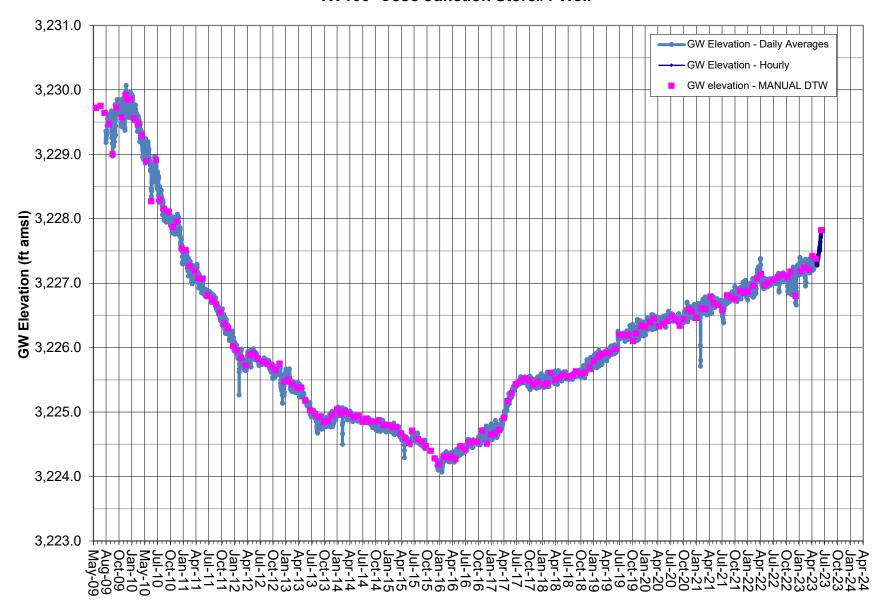


GROUNDWATER ELEVATION DATA - Transducer RV090 - Coso Junction Ranch Well

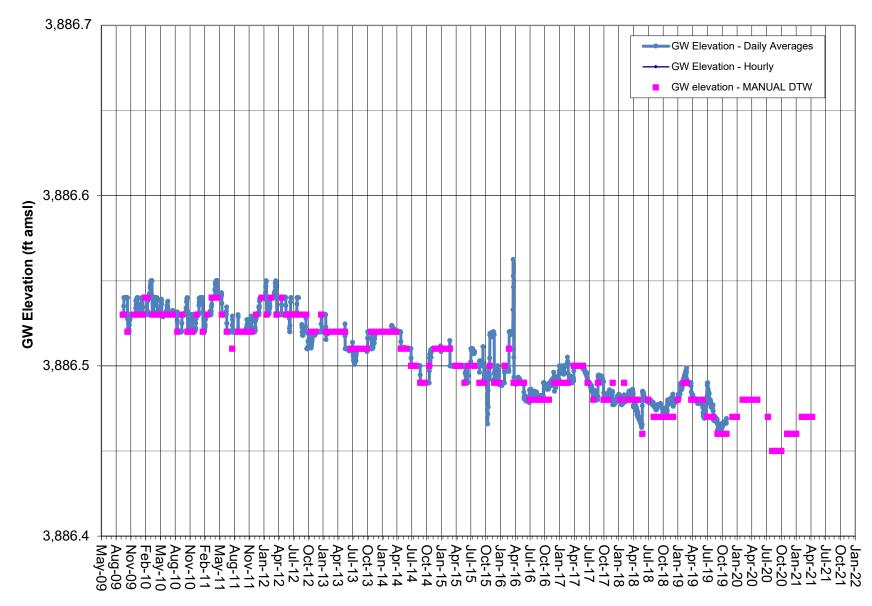


Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. COC initiated Hay Ranch Project pumping on 12/25/09.

GROUNDWATER ELEVATION DATA - Transducer RV100- Coso Junction Store#1 Well

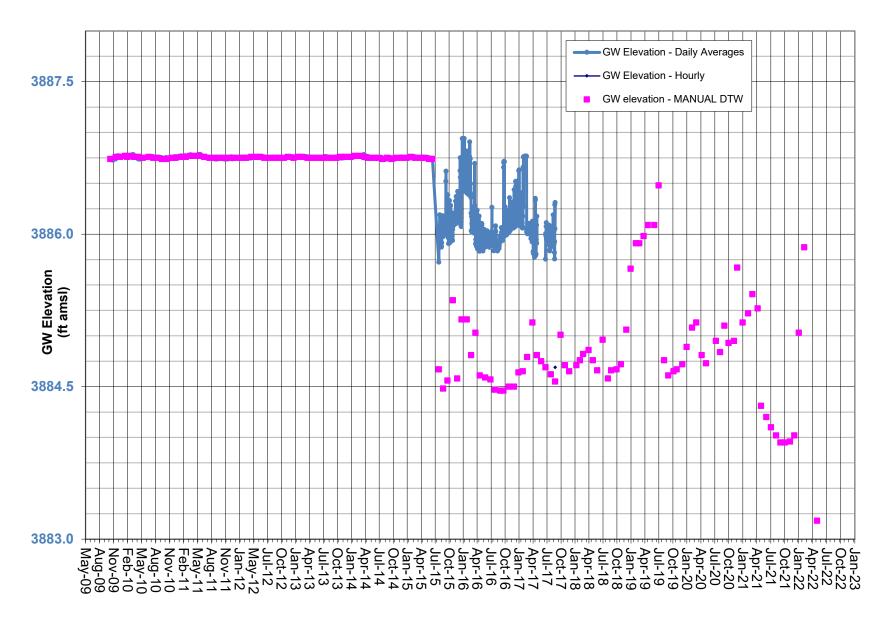


GROUNDWATER ELEVATION DATA - Transducer RV110 - Davis Ranch North Well



Note: DTW measured to .01 foot; GWE calculated using approximate surface elevation. In-well infrastructure installed in May 2021 does not allow DTW measurement.

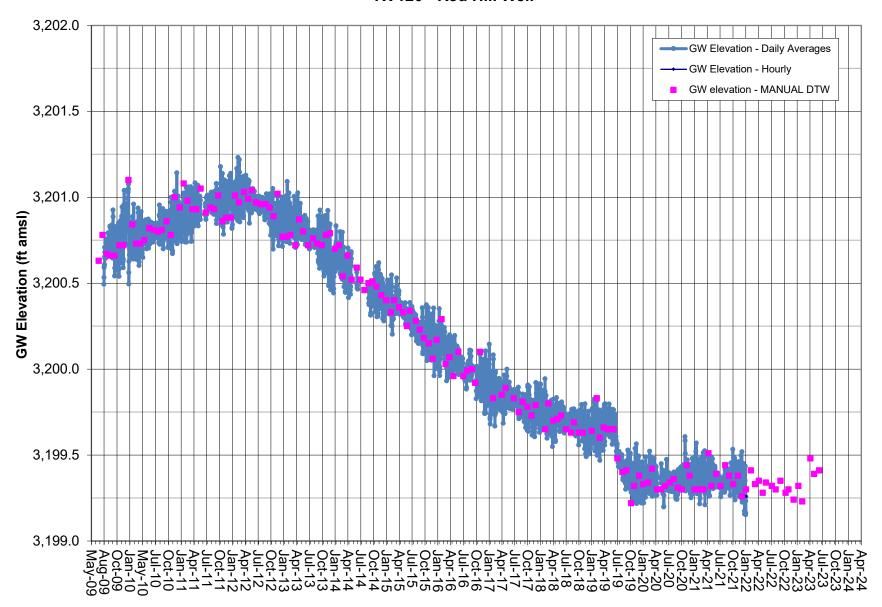
GROUNDWATER ELEVATION DATA - Transducer RV111 - Davis Ranch South Well



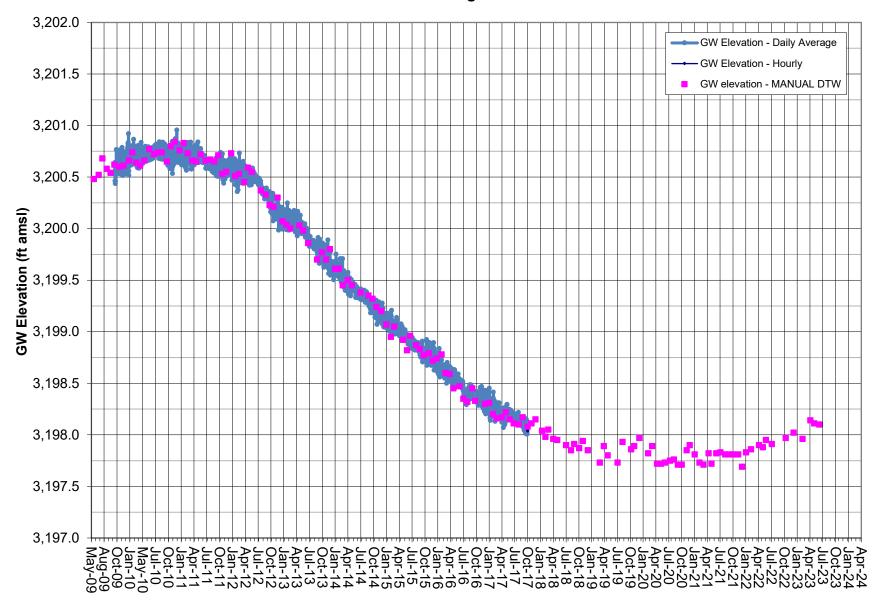
Note: Transducer data correlated to Manual DTW measurements. Solar water supply pump installed in DR South in July 2015, which affects the accuracy of DTW correlation.

Transducer removed 10/18/17. Monitoring discontinued in May 2022.

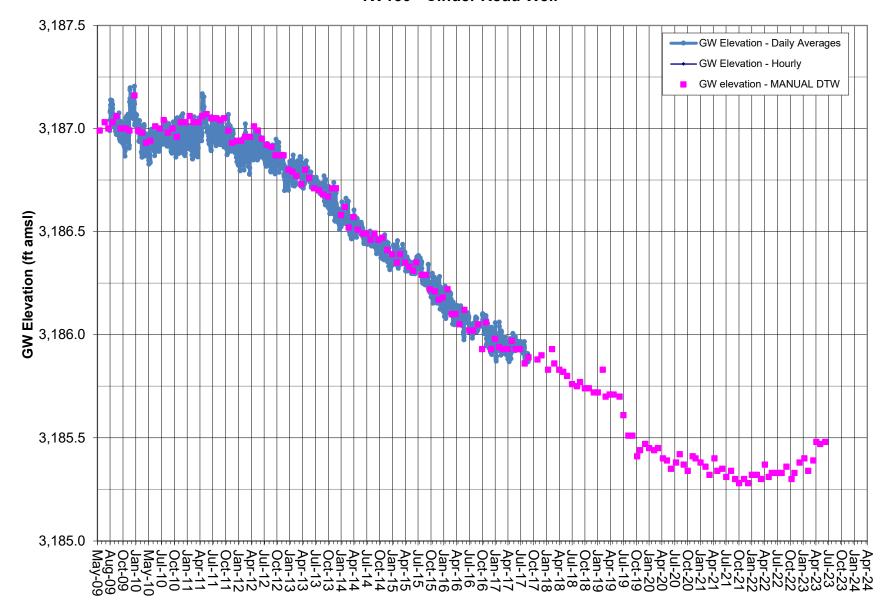
GROUNDWATER ELEVATION DATA - Transducer RV120 - Red Hill Well



GROUNDWATER ELEVATION DATA - Transducer RV140 - Lego Well

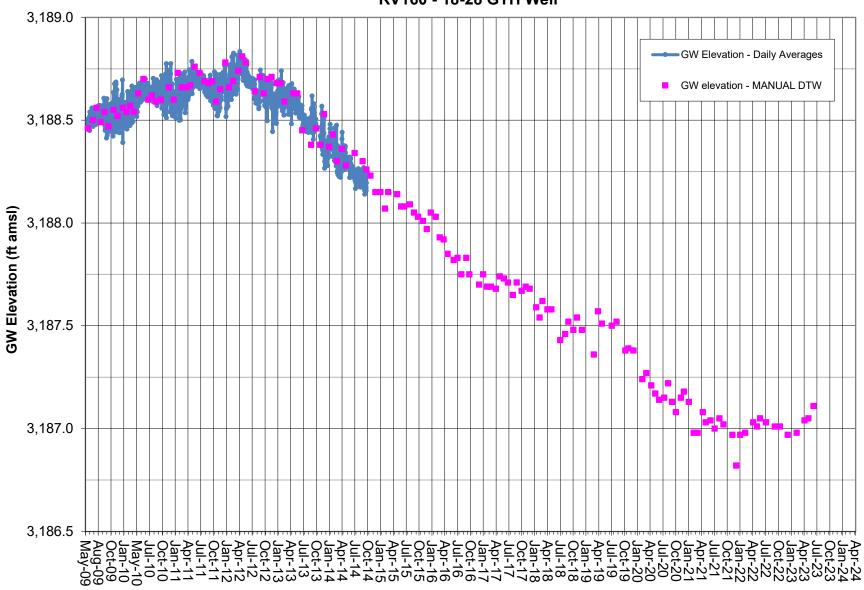


GROUNDWATER ELEVATION DATA - Transducer RV150 - Cinder Road Well

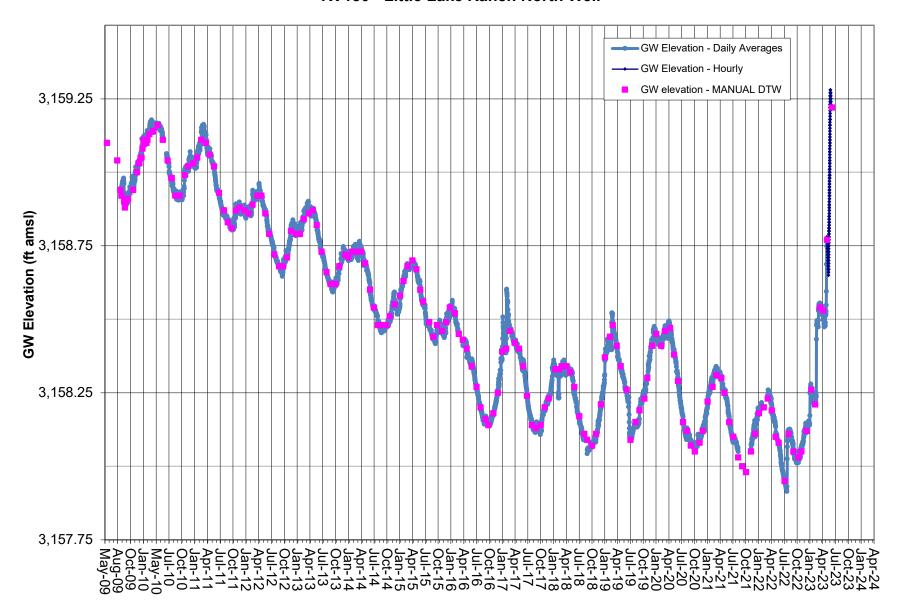


Note: Transducer data adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09. Transducer removed in Oct. 2017 as approved by ICWD.

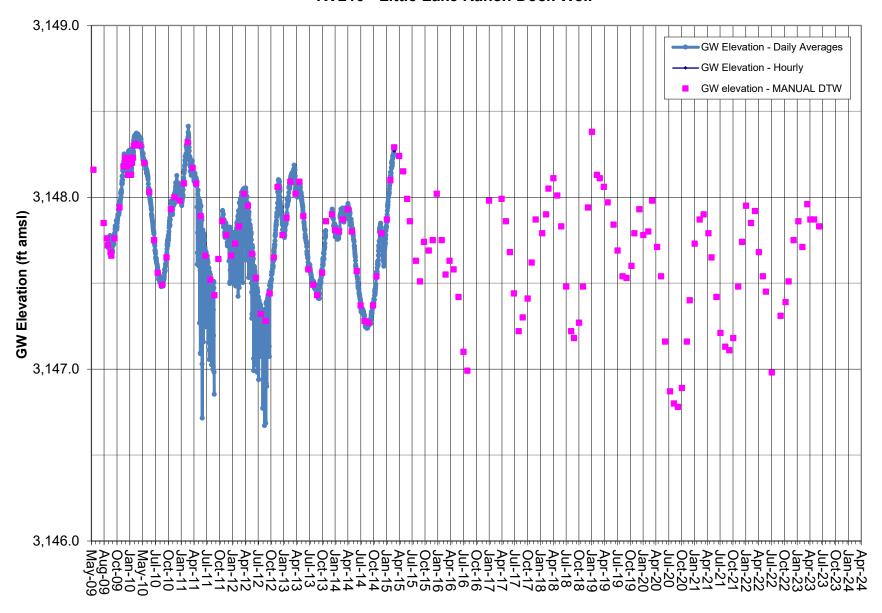
GROUNDWATER ELEVATION DATA - Transducer RV160 - 18-28 GTH Well



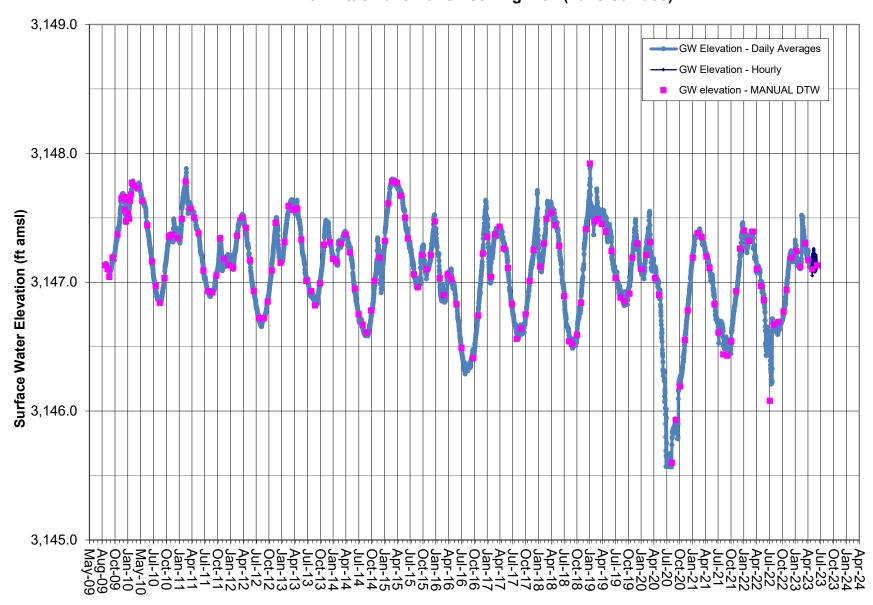
GROUNDWATER ELEVATION DATA - Transducer RV180 - Little Lake Ranch North Well



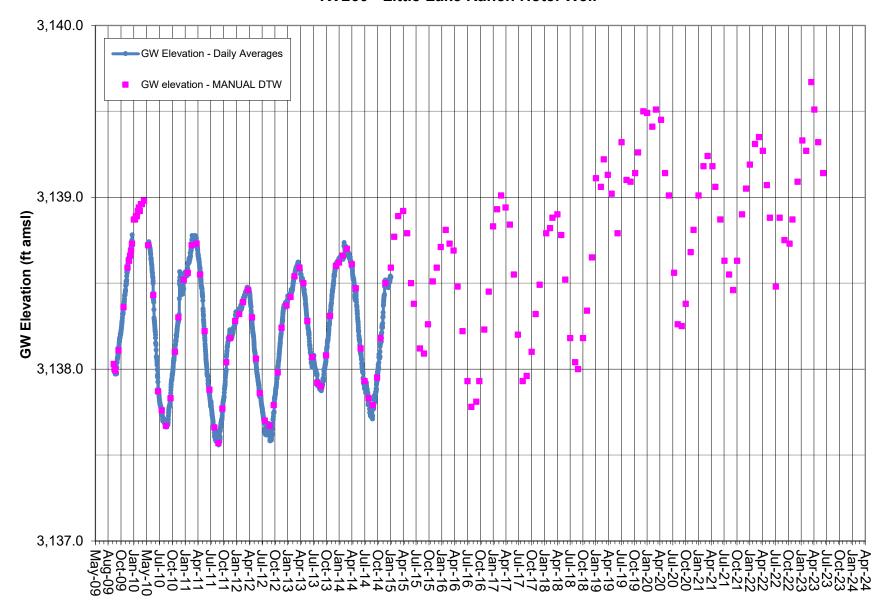
GROUNDWATER ELEVATION DATA - Transducer RV210 - Little Lake Ranch Dock Well



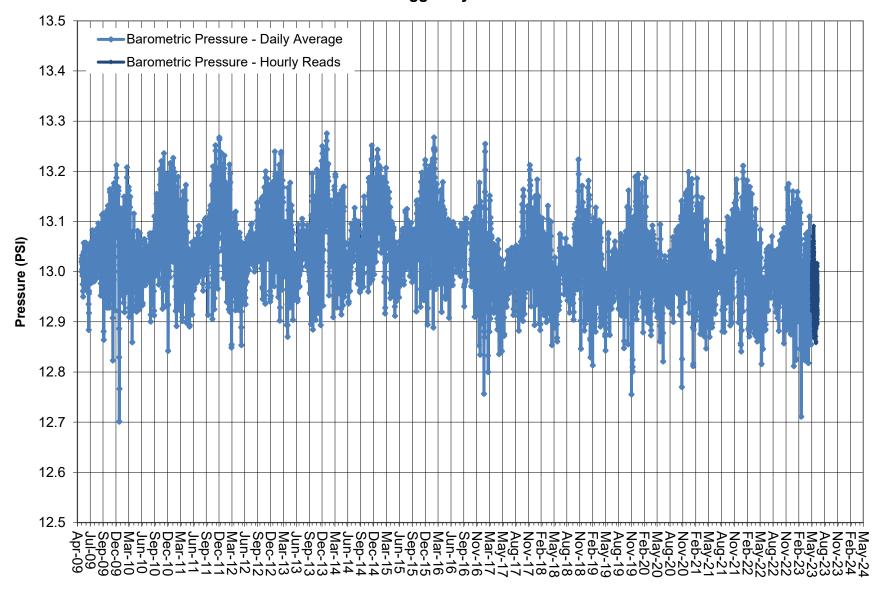
SURFACE WATER ELEVATION DATA - Transducer RV220 - Little Lake Ranch Stilling Well (Lake Surface)



GROUNDWATER ELEVATION DATA - Transducer RV260 - Little Lake Ranch Hotel Well



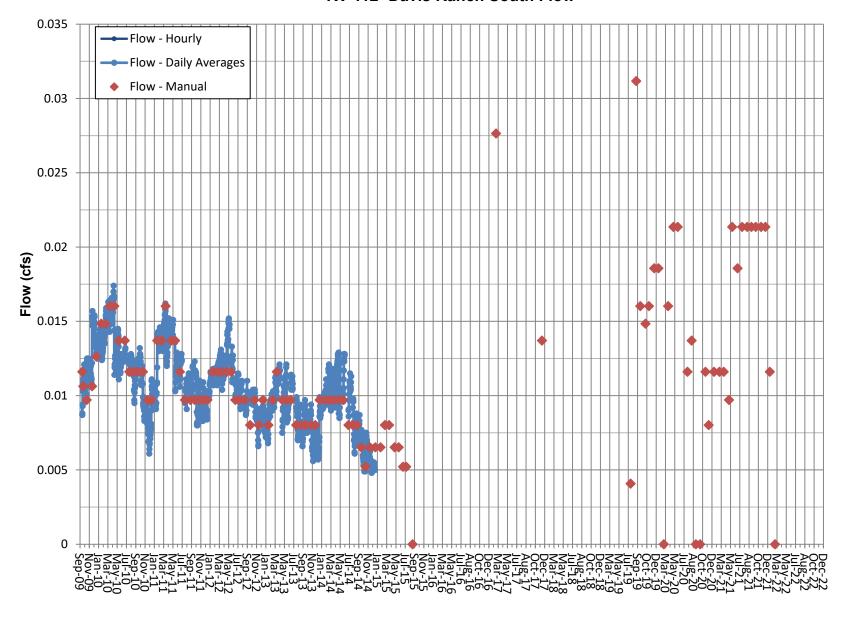
BAROMETRIC PRESSURE as Logged by BaroTroll



Note: BaroTroll located in well casing of well HR-2B. Used to adjust pressure readings in non-vented transducers.

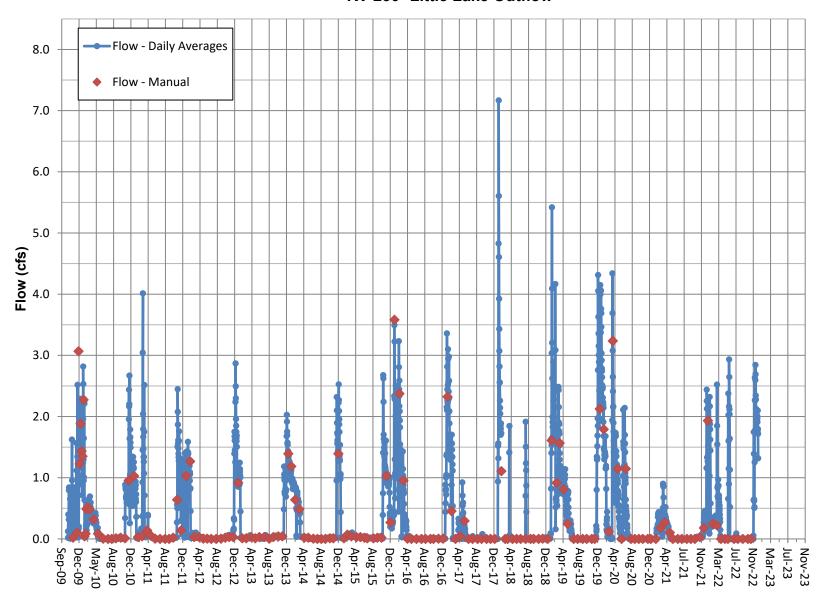
SURFACE FLOW TRANSDUCER

Surface Flow- Transducer RV 112- Davis Ranch South Flow

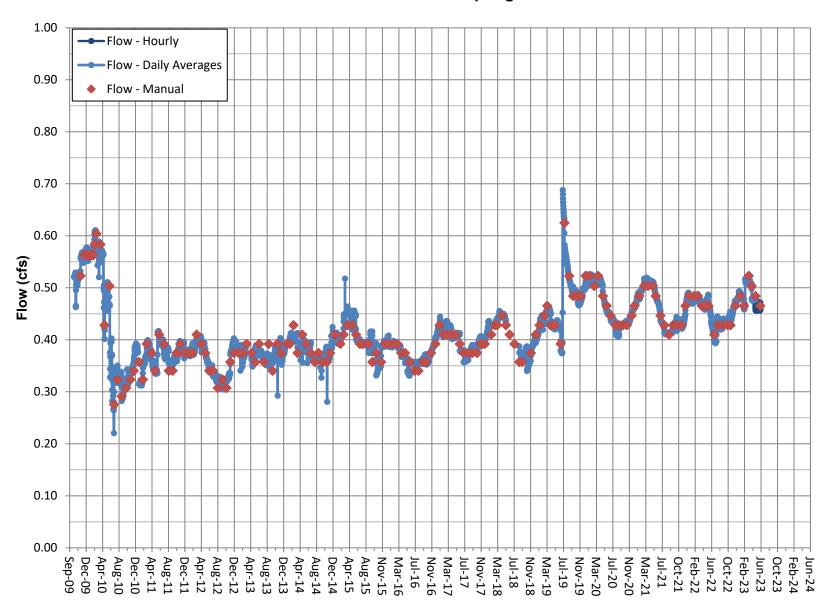


Note: Transducer removed in 2015, water supply pump was installed in DR South Well in July 2015. Flume removed in March 2022.

Surface Flow- Transducer RV 230- Little Lake Outflow

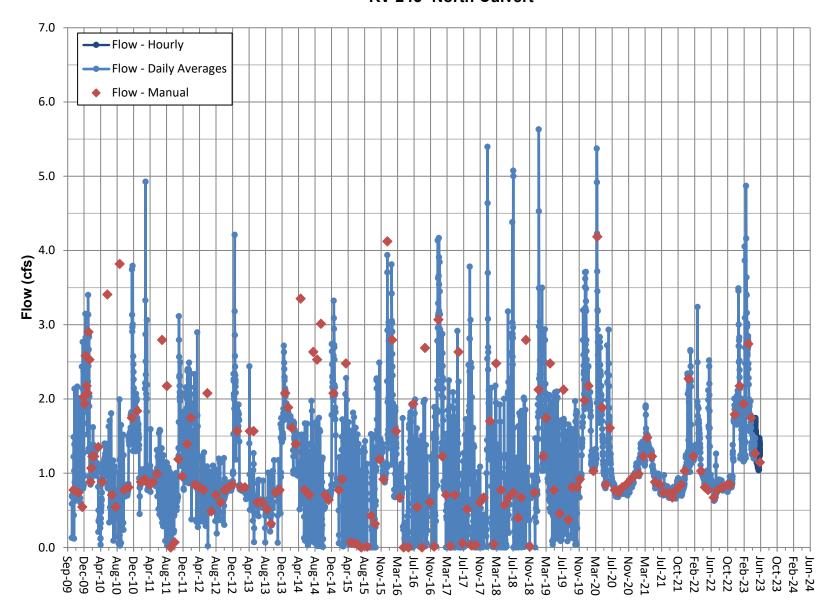


Surface Flow- Transducer RV 240- Coso Springs



Note: Coso Springs is an artesian spring.

Surface Flow- Transducer RV 245- North Culvert



HAY RANCH PROJECT

CONDITIONAL USE PERMIT

HYDROLOGIC MONITORING REPORT

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