Dr. Bob Harrington
Inyo County Water Department
135 South Jackson Street
Independence, CA 93526

July 20, 2010

RE: Hay Ranch Project Conditional Use Permit
Hydrologic Monitoring and Reporting
Second Quarter Report 2010
Inyo County, California

Dear Dr. Harrington:

TEAM Engineering & Management, Inc. (TEAM), is pleased to present the results of hydrologic monitoring activities conducted in Rose Valley relating to the Hay Ranch Project Conditional Use Permit (#2007-003) conducted from April through June 2010.

This Hay Ranch Project Conditional Use Permit, Hydrologic Monitoring and Reporting Second Quarter Report 2010, Inyo County, California was produced per the guidelines of the Inyo County Water Department and the Coso Operating Company Hay Ranch Water Extraction and Delivery System Final Environmental Impact Report’s Hydrologic Monitoring and Mitigation Plan.

Information provided in this report includes a summary of Rose Valley monitoring activities conducted during Phase 1 of the Hay Ranch Project in 2009. Information provided in this report also includes hydrologic monitoring data collected in the second quarter 2010 during Phase 2 of the Hay Ranch Project. This report presents groundwater elevation, surface flow, water quality and Hay Ranch South Production Well pumping data in graphical form.

*   *   *   *   *   *   *

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

Sincerely,

TEAM Engineering & Management, Inc.

Keith Rainville
Staff Geologist
# HAY RANCH PROJECT CONDITIONAL USE PERMIT HYDROLOGIC MONITORING AND REPORTING SECOND QUARTER 2010 INYO COUNTY, CALIFORNIA

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1.0 EXECUTIVE SUMMARY

The following summarizes hydrologic monitoring activities during the second quarter 2010 related to the Coso Operating Company’s Hay Ranch Project Conditional Use Permit (CUP):

- Hay Ranch Project CUP pumping was initiated on December 25, 2009 with groundwater pumped from the Hay Ranch South Production Well. Approximately 326 million gallons of groundwater (999 acre feet) have been pumped through June 18, 2010.

- Monthly groundwater and surface water data were collected from 30 monitoring points throughout Rose Valley as per the schedule set forth in the Hay Ranch Project CUP’s Hydrologic Monitoring and Mitigation Plan (HMMP).

- The HMMP set 0.5-year groundwater elevation Trigger Levels for specific monitoring wells. Based on data collected by TEAM Engineering & Management, Inc. (TEAM) during the June monitoring event, the 0.5-year Trigger Level for the Dunmovin Well was exceeded. Inyo County Water Department (ICWD) was notified verbally and in writing of this event in a timely manner. No “Maximum Acceptable Drawdowns” at specific monitoring wells were exceeded in the second quarter 2010.

- Quarterly groundwater samples were collected from the Hay Ranch South, Coso Junction Store #2, and Little Lake Ranch North wells. These samples were analyzed for Total Dissolved Solids. None of these samples exceeded “Threshold Requiring Action Levels.”

- Monthly data transmittal, including groundwater and surface water hydrographs, occurred between TEAM and ICWD. Monthly update letters and groundwater and surface water hydrographs have been posted on the ICWD’s public website: www.inyowater.org.

- Quarterly hydrographs which compare Rose Valley groundwater elevations, surface flow amounts, and Total Dissolved Solid amounts to Hay Ranch Project CUP pumping amounts over time are included in this report.

- Work on Phase 3 of the Hay Ranch Project was initiated with ICWD retaining Daniel B. Stephens and Associates (DBS&A) as the groundwater modeler. An initial field visit with TEAM, DBS&A and ICWD was conducted in April and hydrologic data, including monitoring data through May 2010, was transmitted from ICWD and TEAM to DBS&A.
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 Conditional Use Permit (CUP) for the project: Hay Ranch Water Extraction Project and 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, Inyo County Water Department (ICWD) approved TEAM Engineering & Management, Inc. (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.
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 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. 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 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 Coso Operating Company. 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.

### 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 are artesian at the top of each well casing. 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 consumption and irrigation. At the Davis Ranch South Well, water from the PVC pipe flows into a pond.

At the Davis Ranch North and South Wells, pressure transducers have been installed to record well head levels. A small change in head in these wells (hundredths of a foot) will result in increased or decreased flow.

Outflow from the North Well cannot be directly measured without interrupting the sensitive Davis Ranch water-delivery system. However, due to the simplicity of the water delivery system at the South Well, outflow can be directly measured without disruption. A flow metering system consisting of a trapezoidal flume and stilling well with a data-logging pressure transducer has been installed (Davis Ranch South Flow) in the PVC outflow pipe. Hourly flow measurements are being recorded by the Davis Ranch South Flow flume.

### 3.3 Little Lake Ranch Monitoring Points

The Little Lake Ranch (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 for growth of avian forage.

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 pumped. 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. These concrete weirs have a slat system in place and a pair of three-inch diameter holes which can be plugged 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 regulated by LLR staff to place water in 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.
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 loses 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; in this example of water-management, 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.

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 Total Dissolved Solids (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. 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, and the baseline groundwater elevations are summarized in Table 3.
4.0 PHASE 2 MONITORING AND REPORTING

With the initiation of Hay Ranch South Production Well groundwater pumping by COC on December 25, 2009, the Hay Ranch Project entered into the Phase 2 Startup Monitoring and Reporting period as outlined in the HMMP. The objective of Phase 2 is to document the response of the Rose Valley aquifer to pumping at the Hay Ranch. In addition to monthly groundwater and surface water data collection from the 30 monitoring points in Rose Valley, during the initial three months of Phase 2 monitoring weekly data was collected from specific areas of Rose Valley. This hydrologic data will be used to improve initial estimates of aquifer specific yield, storage coefficients, hydraulic conductivity and groundwater recharge rates to validate or revise the numeric groundwater model.

4.1 MONITORING AND REPORTING

During the second quarter 2010, monthly data collection occurred at the 30 monitoring points in Rose Valley. In addition, quarterly groundwater samples were collected from three wells in Rose Valley to gather TDS data in June.

As part of Phase 2 Start-Up Monitoring and Reporting, groundwater elevation (GWE) drawdown Trigger Levels have been established for certain Rose Valley monitoring wells. Table 3.1 of the HMMP for the Hay Ranch Project establishes the Trigger Level drawdown amounts compared to pre-pumping baseline GWEs for specific monitoring wells. Trigger Levels have been set for the 0.5-year time period. Based on data collected by TEAM during the June 2010 monthly monitoring event, the 0.5-year Trigger Level for the Dunmovin Well has been exceeded. Table 3 compares June GWEs, pre-pumping baseline GWEs and the 0.5-year trigger levels for Hay Ranch Project monitoring points.

The baseline GWE for the Dunmovin Well, set by ICWD in January 2010, is 3252.73 feet. The GWE at Dunmovin Well as measured at 9:02 on June 21 was 3252.28 feet. The 0.5-year Trigger Level for Dunmovin Well is 0.3 feet. The Dunmovin Well’s GWE has decreased by 0.45 feet compared to its baseline, exceeding its Trigger Level drawdown by 0.15 feet. The Dunmovin Well’s GWE was 2.35 feet above its Maximum Acceptable Drawdown level. The maximum GWE recorded at the Dunmovin Well was 3253.60 and occurred on January 21, 2010. The minimum GWE recorded at the Dunmovin Well was 3252.07 and occurred on September 16, 2009. ICWD was notified by TEAM and COC in writing in a timely manner regarding this trigger level exceedance (Appendix B). As a result of the Dunmovin Well’s Trigger Level exceedance, HMMP Tasks 1.1.h and 1.1.i have been initiated. Assessment of the Dunmovin Well’s total depth, pump depth and pump performance will be made in the third quarter, and a mitigation plan for potential impacts from the Hay Ranch pumping to the Dunmovin Well will be developed.

Groundwater elevations were above 0.5-year Trigger Levels at all other Hay Ranch Project monitoring wells which have baseline and trigger levels established during the second quarter. Also, no Maximum Acceptable Drawdowns were exceeded in Hay Ranch Project trigger wells.

Hydrographs from the 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 www.inyowater.org/coso/default.htm. The June 2010 monthly hydrographs are included in this report as Appendix A.

Monthly reads from the Hay Ranch South Production Well totalizers documenting groundwater extraction amounts are included in this report as Table 2.

Hydrographs which combine various Rose Valley monitoring points comparing GWEs to Hay Ranch South Well 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 South 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 contours.

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

A hydrograph which combines 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 LRR 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.

A hydrograph which combines surface water flows in the Little Lake Ranch area to Hay Ranch South 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 South 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 14-16, comparing TDS levels in Rose Valley monitoring wells with Hay Ranch South 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 South pumping rates are listed on the right axis, in average acre feet per day.

A hydrograph which combines the amount of groundwater being pumped from the Hay Ranch North and South wells in acre feet (AF) with a hypothetical pumping amount is included in this report as Figure 17. The hypothetical pumping amount assumes a linear pumping rate (approximately 8.2 AF/day) which starts on December 25, 2009 and reaches 3000 AF on December 25, 2010. The Hay Ranch Project CUP sets 3000 AF as the maximum amount of groundwater extraction allowed in the first year of project pumping.
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

On June 18, 2010 groundwater samples were collected from the Hay Ranch South, Coso Junction Store #2, and LLR North wells and analyzed for TDS as part of the quarterly monitoring activities specified in the HMMP. These groundwater samples were analyzed by TestAmerica, Inc., a California-Certified Analytical Laboratory. Prior to sample collection, groundwater was purged from each well until groundwater physical parameters, as monitored by a Horiba U52 MPS hand-held unit, stabilized.

At the Hay Ranch South Well (HRS), the groundwater sample, HRS, was collected from the production outflow pipe at 14:33 hours. Approximately 5,400 gallons of groundwater were purged from the well preceding sample collection. The laboratory analytical result from HRS was TDS 760 mg/L. The previous laboratory analytical result for HRS, sampled March 15, 2010, was TDS 740 mg/L.

At the Coso Junction Store #2 Well (CJS#2), the groundwater sample, CJS#2, was collected from the groundwater holding tank located 20 yards north of this active supply well. The CJS#2 groundwater sample was collected from the holding tank’s sample port at 15:07 hours. Approximately 10 gallons of water was purged from the holding tank’s sample port preceding sample collection. The laboratory analytical result from CJS#2 was TDS 500 mg/L. The previous laboratory analytical result for CJS#2, sampled March 15, 2010, was TDS 490 mg/L.

At the LLR North Well (LLR North), the groundwater sample, LLR North, was collected at 11:42 hours. Approximately 20 gallons of groundwater were purged from the well preceding sample collection. The laboratory analytical result from LLR North was TDS 570 mg/L. The previous laboratory analytical result for LLR North, sampled March 15, 2010, was 510 mg/L.

At all three wells, the TDS values from the June 18, 2010 groundwater sampling event were below “Threshold Requiring Action” values as specified in Table 3-2 of the HMMP (1500 mg/L for Coso Junction Store #2 and LLR North Well, and 2000 mg/L for Hay Ranch South Well).

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

Field sheets are copied and archived at TEAM. Data from these sheets is input into the project database program “Coso.dbf” 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

During the second quarter 2010, there were two operational issues of note:

At Little Lake Ranch, the Hotel Well is a seasonally artesian well. During Phase 1 monitoring system set-up, the magnitude of groundwater elevation fluctuations at the Hotel Well was unquantified. In September 2009, temporary well security at the Hotel Well was installed along with a pressure transducer. From September 2009 to early January 2010, groundwater elevations in the Hotel Well were below this security casing. In mid January 2010, groundwater levels at the Hotel Well became elevated above the top of the security casing. When the well became artesian, the pressure transducer was removed and the well was sealed. Manual DTW measurements were taken using a temporary casing extension. In May 2010, groundwater levels declined below the top of casing and the pressure transducer was reinstalled.

Groundwater elevation data from 2010 will be used to assess the magnitude of head changes in this well. If feasible, the Hotel Well casing will be raised to create a non-artesian monitoring point. A more permanent security system will then be installed to allow continuous groundwater level monitoring using a pressure transducer.

At the Hay Ranch Property, Coso Operating Company completed installation of a permanent water tank between the Hay Ranch North and South Wells in May and subsequently removed the temporary groundwater holding tank and associated infrastructure. With the completion of the permanent tank, groundwater flow from the Hay Ranch South Well is being recorded by a new totalizer; the new, HRS B Totalizer measures Hay Ranch South Well flow into the permanent water tank. This totalizer went on-line May 12, 2010 with an initial reading of 0 gallons. The existing totalizer, HRS A Totalizer, which has been capturing all flow previously pumped from the Hay Ranch South Well, was removed. The amount of groundwater captured by HRS A for the Hay Ranch Project was 245,294,000 gallons (753 acre feet). The Hay Ranch North Well was not operational as of June 18, but a totalizer for groundwater pumped from this well has been installed at the new permanent tank, HRN C Totalizer.

4.5 Additional Observations and Project Events

Work on Phase 3: Model Recalibration and Redefinition of Pumping Rates and Duration was initiated with ICWD retaining Daniel B. Stephens and Associates (DBS&A) as the groundwater modeler for Phase 3 of the Hay Ranch Project. An initial field visit to Rose Valley with TEAM, DBS&A, and ICWD staff was conducted on April 30, 2010. The purpose of this field event was to introduce DBS&A staff to the Hay Ranch Project.

Hay Ranch Project hydrologic data, including groundwater monitoring data through May 2010, was transmitted from ICWD and TEAM to DBS&A.
5.0 GENERAL CONDITIONS

Geology, hydrogeology and geochemistry are inexact sciences, and investigative data commonly contain large uncertainties. The behavior of groundwater can be complex. Our judgments and conclusions are based upon the analytical data obtained from groundwater measurements collected by TEAM, data supplied to TEAM by COC, Inyo County and other sources, as well as our experience on similar projects. Services performed for this project by TEAM Engineering & Management, Inc. are in accordance with professional standards for groundwater and hydrologic assessment investigations; no guarantees are either expressed or implied.
<table>
<thead>
<tr>
<th>Well ID</th>
<th>Well Name</th>
<th>Hay Ranch Project FEIR HMMP reference names from HMMP Tables 3-1 and 3-2</th>
<th>Monitoring Role</th>
<th>Current Well Use</th>
<th>Transducer Installed</th>
<th>Data Logging Frequency</th>
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<tr>
<td>RV-10</td>
<td>Enchanted Village</td>
<td>Wells located west of Haiwee Reservoir</td>
<td>Observation</td>
<td>Active Supply</td>
<td>No</td>
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<tr>
<td>RV-20</td>
<td>LADWP V816</td>
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<td>Cal Pumice</td>
<td>Pumice Mine Well</td>
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<tr>
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<td>Dunmovin</td>
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<td>Production</td>
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<td>HR 1A</td>
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<td>Red Hill (BLM)</td>
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<td>Well 18-28 or Navy 18-28 Well</td>
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<tr>
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<td>RV-210</td>
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<tr>
<td>RV-220</td>
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<tr>
<td>RV-230</td>
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<td>Flume</td>
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<td>RV-240</td>
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<td>Coso Springs</td>
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<td>Yes****</td>
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</table>

GWQ- Groundwater Quality monitoring well
* 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.
** Trigger Levels for RV-120 were not set in HMMP Table 3-1. However, a preliminary baseline level was set in January, 2010.
*** RV-250 LLR Siphon Well supplies water directly to LLR Pond 2, not LLR Pond 1 as erroneously stated in the HMMP.
**** RV-260 LLR Hotel Well is a seasonally artesian well. Hourly pressure transducer reads are occurring during periods of non-artesian groundwater elevations.
### HAY RANCH SOUTH PRODUCTION WELL

<table>
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<tr>
<th>Date Numeric</th>
<th>Date Short</th>
<th>Total Days Elapsed</th>
<th>Total Gallons Pumped Since 12/25/2009</th>
<th>Total Acre Feet Pumped Since 12/25/2009</th>
<th>Days in Period</th>
<th>Total Gallons Pumped for period</th>
<th>Acre Feet Pumped for period</th>
<th>Average Daily Acre Feet Pumped for period</th>
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Notes:
Data based on manual reads by TEAM of the Hay Ranch North and South Well Totalizers.
Hay Ranch Project groundwater pumping was initiated on 12/25/09.
The HRS A Totalizer, measuring groundwater pumped from Hay Ranch South Well, was discontinued on May 12, 2010 and subsequently uninstalled.
As of May 12, 2010 groundwater pumped from Hay Ranch South Well is flowing into the permanent Hay Ranch Water Tank and is measured by the HRS B Totalizer.
The Hay Ranch North Well is currently offline, but groundwater pumped from this well will be measured at the HRN C Totalizer.

TEAM ENGINEERING & MANAGEMENT, INC.
Bishop and Mammoth Lakes, California

7/15/2010
<table>
<thead>
<tr>
<th>Well ID</th>
<th>Monitoring Point</th>
<th>Baseline GWE*</th>
<th>Recent Date</th>
<th>Recent GWE</th>
<th>Recent GWE Compared to Baseline</th>
<th>Recent GWE Above Max DD**</th>
<th>Trigger Level At .5 year elapsed</th>
<th>Recent GWE Compared to Trigger Level</th>
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<tr>
<td>RV-30</td>
<td>Cal Pumice</td>
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<td>TBD****</td>
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GWE  Groundwater elevation in feet above mean sea level
* Baseline groundwater elevations set in January, 2010 and approved by Inyo County Water Department
** Max DD: Maximum Acceptable Drawdown from HMMP Table 3-1
*** Cal Pumice Well baseline groundwater elevation has not been set
**** Trigger Levels and Maximum Acceptable Drawdown levels for Red Hill Well have not been set
FIGURES
FIGURE 1
OVERVIEW OF ROSE VALLEY HYDROLOGIC MONITORING POINTS

Coso Operating Company
Hay Ranch Project

Date: 9/22/09
Created by: KR
LLR North Well (RV180)
LLR Dock Well (RV210)
LLR Hotel Well (RV260)
LLR 395 Well (Supply)
LLR Still Well (RV220) (Little Lake Surface Level)
LLR Ranch House Well (Supply)
LLR Siphon Well (RV250)
LLR Coso Springs Flow (RV240)
LLR Lake Outflow (RV230)
LLR North Culvert Flow (RV245)
Siphon Well Outflow
Pond 1 Weir
Pond 2 Weir
Little Lake Weirs
Little Lake Gap

FIGURE 2
LITTLE LAKE RANCH AREA
Coso Operating Company
Hay Ranch Project

LEGEND:
- Point of Interest

Date created: 3/25/10
Created by: GF
FIGURE 3
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
Cal Pumice, Dunmovin, HR 1A and HR 2A

Note: Groundwater elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 4
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
HR 1A, HR 1B and HR 1C

Note: GWE data based on manual DTW measurements. HR South pumping is average acre feet per day.
Screened intervals: HR 1A 170-260 feet; HR 1B 490-540 feet; HR 1C 340-405 feet.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 5
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
HR 2A, HR 2B and HR 2C

Note: GWE data based on manual DTW measurements. HR South pumping is average acre feet per day.
Screened intervals: HR 2A 180-300 feet; HR 2B 519-584 feet; HR 2C 370-420 feet.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements.

Hay Ranch South pumping is average acre feet per day.

Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 7
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
Davis Ranch North and South

Note: Groundwater elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 8
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
Red Hill, Lego and G-36

Note: Groundwater elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 9
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
18-28 and Cinder Road

Note: Groundwater elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 10
GROUNDWATER ELEVATION and HR SOUTH PUMPING:
Fossil Falls and LLR North

Note: Groundwater elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.

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7/15/2010
FIGURE 11
WATER ELEVATION and HR SOUTH PUMPING:
LLR Dock, LLR Stilling and LLR Hotel

Note: Groundwater and surface water elevation data based on manual depth-to-water measurements.
Hay Ranch South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 12
WATER ELEVATION and LITTLE LAKE OUTFLOW:
LLR Dock and LLR Stilling

Note: Groundwater and surface water elevations based on pressure transducer data. Little Lake Outflow based on pressure transducer data; flow is cubic feet per second. Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 13
LLR FLOW and HR SOUTH PUMPING:
North Culvert, Coso Springs and Little Lake Outflow

Note: Little Lake Ranch Flows are cubic feet per second.
HR South pumping is average acre feet per day.
Flows at Little Lake Outflow and North Culvert are influenced both by natural and water management processes at LLR.
FIGURE 14
TOTAL DISSOLVED SOLIDS and HR SOUTH PUMPING:
HR 1A, HR 1B and HR 1C

Note: TDS data from in-well transducers. HR South pumping is average acre feet per day. Screened intervals: HR 1A 170-260 feet; HR 1B 490-540 feet; HR 1C 340-405 feet. Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 15
TOTAL DISSOLVED SOLIDS and HR SOUTH PUMPING:
HR 2A, HR 2B and HR 2C

Note: TDS data from in-well transducers. HR South pumping is average acre feet per day.
Screened intervals: HR 2A 180-300 feet; HR 2B 519-584 feet; HR 2C 370-420 feet.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.

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FIGURE 16
TOTAL DISSOLVED SOLIDS and HR SOUTH PUMPING:
Red Hill and LLR North

Note: TDS data from in-well transducers. HR South pumping is average acre feet per day.
Coso Operating initiated Hay Ranch Project pumping on 12/25/09.
FIGURE 17
HYPOTHETICAL AND ACTUAL HAY RANCH PROJECT PUMPING

Note: Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
The "linear pumping rate" shown above is a hypothetical pumping rate that reaches 3000 Acre Feet (AF) in one year
with pumping evenly distributed at 8.2 AF/day.
APPENDIX A

HAY RANCH PROJECT CUP
MONTHLY HYDROGRAPHS
JUNE 18 and 21, 2010
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV010 - Enchanted Village Well

Note: Groundwater elevation data based on manual depth-to-water measurements. DTW measured to .01 foot; GWE calculated using approximate surface elevation. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
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.
Note: A data gap exists in 2009 during a LADWP pump test on a nearby well.
The notable DTW change from 11/19/09 to 12/17/09 was confirmed by in-well PT.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Dunmovin Well is an active domestic supply well.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations. Screened interval is 170-260 feet. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Screened interval is 490-540 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

6/28/2010
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV062 - Hay Ranch 1C Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Screened interval is 340-405 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations. Screened interval is 180-300 feet. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV081 - Hay Ranch 2B Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Screened interval is 519-584 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

6/28/2010
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV082 - Hay Ranch 2C Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Screened interval is 370-420 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
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.
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.

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Note: Groundwater elevation data based on manual depth-to-water measurements. DTW measured to .01 foot; GWE calculated using approximate surface elevation. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. DTW measured to .01 foot; GWE calculated using approximate surface elevation. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV120 - Red Hill Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
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)
RV140 - Lego 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)
RV150 - Cinder Road Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
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)
RV170 - Fossil Falls 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.
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)
RV210 - Little Lake Ranch Dock Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Surface water elevation data based on manual depth-to-water measurements. Lines between data points are approximations. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data adjusted by BaroTroll and correlated to Manual DTW.
The 12/3/09 GWE decrease was confirmed by in-well PT and manual DTW. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements.
Screened interval 170-260 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements.
Screened interval 490-540 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Transducer
RV062 - HR 1C Well

Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements.
Screened interval 340-405 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

GW Elevation - Daily Averages
GW Elevation - Hourly
GW elevation - MANUAL DTW
GROUNDWATER ELEVATION DATA - Transducer

RV080 - HR 2A Well

Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements.
Screened interval 519-584 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements.
Screened interval 370-420 feet.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
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. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Transducer
RV100- Coso Junction Store#1 Well

Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Vented transducer data correlated to Manual DTW measurements.
DTW measured to .01 foot; GWE calculated using approximate surface elevation.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Vented transducer data correlated to Manual DTW measurements. PT experienced technical difficulties from 12/09 to 1/10 and was replaced in 2/10. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data adjusted by BaroTroll and correlated to Manual DTW.
Data from 10/17/09 is omitted as PT slipped less than 1 foot.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Transducer data (absolute pressure) adjusted by data logged from BaroTroll and correlated to Manual DTW measurements. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Transducer
RV180 - Little Lake Ranch North Well

Note: Vented transducer data correlated to Manual DTW measurements.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Transducer
RV210 - Little Lake Ranch Dock Well

Note: Vented transducer data correlated to Manual DTW measurements.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
GROUNDWATER ELEVATION DATA - Transducer
RV260 - Little Lake Ranch Hotel Well

Note: Vented transducer data correlated to Manual DTW measurements.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
BAROMETRIC PRESSURE
as Logged by BaroTroll

Note: BaroTroll located in well casing of well HR-2B. Records atmospheric pressure.
Significant pressure dip in January 2010 caused by large storm.
Note: Davis Ranch South Flow captures flow from the Davis Ranch South Well.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Surface Flow- Transducer
RV 230- Little Lake Outflow

Flow (cfs)

Note: Flows through Little Lake Outflow are influenced by natural and water management processes at Little Lakes Ranch. Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Note: Coso Springs is an artesian spring.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.
Surface Flow- Transducer
RV 245- North Culvert

Note: Flows through North Culvert are influenced by natural and water management processes at Little Lakes Ranch.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

6/28/2010
APPENDIX B

WRITTEN NOTIFICATION OF
TRIGGER LEVEL EXCEEDANCE AT DUNMOVIN WELL
JUNE 28-29, 2010
June 29, 2010

SENT BY TELECOPY (760- 878-2552 ) AND U.S. MAIL

Dr. Bob Harrington  
Director Inyo County Water Department  
P.O. Box 337  
Independence, CA 93526

Re: Hay Ranch Trigger Level for Dunmovin Well

Dear Bob:

Per the requirements of the HMMP for the Coso Hay Ranch Project, this written response is being submitted as a follow-up to the verbal notification made to the County on June 22, 2010, concerning a trigger level exceeded at the Dunmovin Well (RM-40). Details regarding the exceeded trigger level are noted in the attached report from TEAM Engineering & Management which was submitted to the County on June 28, 2010.

Coso Operating Company, in acknowledge of your e-mail response dated June 24, 2010, concerning the exceeded trigger level for the Dunmovin Well, has initiated actions as required under Tasks 1.1.h and 1.1.i of the HMMP. These actions include assessment of current pump depth and performance, as well as developing an updated mitigation plan to address adverse effects, if any, from continued drawdown relating to pumping at the Hay Ranch Project. Coso Operating Company has contracted with TEAM Engineering & Management to carry out these activities as they are knowledgeable concerning the well history as well as familiar with the well owner and requirements of the HMMP.

Please let me know if there is anything further we need to do at this point to properly comply with the requirements of the HMMP, or any additional questions you may have. I can be reached at 760-764-1300, ext-207.

Sincerely,

Chris Ellis  
Site Manager  
Coso Operating Company, LLC
Dr. Bob Harrington  
Inyo County Water Department  
135 South Jackson Street  
Independence, CA 93526  

June 28, 2010

RE: Hay Ranch Project Trigger Level Exceeded at Dunmovin Well  
Rose Valley, Inyo County, California  
Hay Ranch Project Conditional Use Permit #2007-03

Dear Dr. Harrington:

This letter report is intended to document that, based on groundwater elevation data collected by TEAM Engineering & Management (TEAM) on June 21, 2010 a Trigger Level for the Hay Ranch Project has been exceeded at the Dunmovin Well (RV40) in Rose Valley.

On June 18 and 21, TEAM conducted the monthly hydrologic monitoring event for the Hay Ranch Project. Coso Operating Company (COC) began project pumping at the Hay Ranch South Well on December 25, 2009 and approximately 0.5 years have elapsed since pumping began. Approximately 999 acre feet of groundwater have been extracted from the Hay Ranch South well through June 18, 2010.

In Table 3.1 of the Hydrologic Monitoring and Mitigation Plan (HMMP) for the Hay Ranch Project, Trigger Levels have been set for the 0.5 year time period at specific monitoring wells. Based on data collected by TEAM on June 21, the 0.5-year Trigger Level for the Dunmovin well has been exceeded.

The baseline groundwater elevation (GWE) for Dunmovin, set by Inyo County Water Department in January 2010, is 3252.73 feet. The GWE at Dunmovin as measured at 9:02 on June 21 was 3252.28 feet. The 0.5-year Trigger Level for Dunmovin is 0.3 feet. The Dunmovin GWE has decreased by 0.45 feet compared to its baseline, exceeding its Trigger Level drawdown by 0.15 feet. The Dunmovin GWE was 2.35 feet above its Maximum Acceptable Drawdown level. Table 1 lists the Hay Ranch Project GWE reads taken at Dunmovin Well. The maximum GWE recorded at Dunmovin Well was 3253.60 and occurred on January 21, 2010. The minimum GWE recorded at the Dunmovin Well was 3252.07 and occurred on September 16, 2009. A hydrograph of the Dunmovin well is attached as Figure 1.

Groundwater elevations are above 0.5-year trigger levels at all other Hay Ranch Project monitoring wells which have baseline and trigger levels established.

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

Sincerely,

TEAM Engineering & Management, Inc.

Keith Rainville  
Staff Geologist

S:\Coso\Dunmovin Trigger June_10
## Table 1
### Field Observations of Dunmovin Well
**December 17, 2008 to June 21, 2010**

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<th>Well Name</th>
<th>Date</th>
<th>Time</th>
<th>GWE*</th>
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* GWE- Groundwater elevation in feet above mean sea level

**Baseline GWE set January 2010:** 3252.73
**June 21, 2010 GWE:** 3252.28

**Drawdown:** 0.45
**0.5 Year Trigger Level:** 0.30
**Amount June 21, 2010 GWE below Trigger:** 0.15

<table>
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<th>Date</th>
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<td>Minimum GWE at Dunmovin</td>
<td>9/16/2009</td>
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<tr>
<td>Recent GWE at Dunmovin</td>
<td>6/21/2010</td>
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</table>
FIGURE 1
GROUNDWATER ELEVATION DATA - Long-Term (Manual)
RV040 - Dunmovin Well

Note: Groundwater elevation data based on manual depth-to-water measurements. Lines between data points are approximations.
Dunmovin Well is an active domestic supply well.
Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

6/25/2010