



Annual Surveillance Report January 2021 to December 2021 for Santiago Creek Dam DSOD Dam No. 75-000

Irvine, California

Submitted to:
Irvine Water District
Dams & Storage
15600 Sand Canyon Avenue
Irvine, CA 92618



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September 29, 2022
GEI Project No. 1901888



Consulting
Engineers and
Scientists

September 29, 2022
GEI Project No. 1901888

Ms. Danielle Drake,
Assistant Engineer – Dams & Storage
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

**Re: Santiago Creek Dam, DSOD Dam No. 75-000,
Annual Surveillance Report from January 2021 to December 2021**

Dear Ms. Drake:

GEI Consultants, Inc. (GEI) is pleased to submit this Annual Surveillance Report for Santiago Creek Dam covering the period from January 2021 to December 2021. This report is part of the scope of work described under our Professional Service Agreement between Irvine Ranch Water District (District) and GEI Consultants Inc. (GEI) dated February 11, 2019.

We appreciate this opportunity to provide the District with our services. Please contact Emerson Revolorio at erevolorio@geiconsultants.com or Rich Sanchez at rsanchez@geiconsultants.com with any questions.

Sincerely,

GEI CONSULTANTS, INC.



Richard Sanchez, P.E.
Principal Engineer



Emerson Revolorio, P.E.
Project Engineer

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April 19, 2022

Reservoir Dam Valve Exercising Table

As-Built Plans and Details for Outlet Works

CNC Survey Report

Acronyms and Abbreviations

AF	acre-feet
BM	Bench Mark
District	Irvine Ranch Water District
Districts	Irvine Ranch Water District and Serrano Water District
DSOD	State of California, Department of Water Resources, Division of Safety of Dams
El, EL, Elev	elevation
E(+)/W(-)	East-West
ft	feet
GEI	GEI Consultants, Inc.
gpm	gallons per minute
H:V	horizontal to vertical
NAVD 88	National American Vertical Datum of 1988
NGS	National Geodetic Survey
NGVD 29	National Geodetic Vertical Datum of 1929
No.	number
NOAA	National Oceanic and Atmospheric Administration
N(+)/S(-)	North-South
P.E.	Professional Engineer
Piez	Piezometer
Ref.	Reference
W.S.	Water Surface
YR	year

1.0 Introduction and Background

1.1 General

This report presents the results of the dam safety monitoring and surveillance program for Santiago Creek Dam conducted by the Irvine Ranch Water District and the Serrano Water District (Districts), and GEI Consultants, Inc. (GEI) between January 2021 and December 2021. Irvine Ranch Water District and Serrano Water District jointly own and operate the dam and reservoir. The term "Districts" is used when referring to both responsible parties. This report includes a review of previous surveillance reports, a compilation of the field measurements, observations, and conclusions related to the general condition and safety of the dam. In addition, recommendations are provided for continued operation, surveillance, and monitoring of the dam. This report is submitted as part of the jurisdictional requirements of the State of California, Department of Water Resources, Division of Safety of Dams (DSOD).

Table 2 presents field measurements of piezometer water levels and reservoir water surface elevations since 2007. Table 3 presents elevations of Benchmark BM-0 and Survey Monuments BM-1 through BM-5 since 1989. Table 4 presents net horizontal displacements since 1994 for Survey Monuments BM-1 through BM-5, both in the North-South and East-West Directions.

Figures 2 through 7 are graphs representing piezometer levels and reservoir water surface elevations for the 2-year period between January 2020 and December 2021. Figures 8 through 13 are graphs representing the historical piezometer levels and reservoir water surface elevations. Figures 14 and 15 represent the elevations of the survey monuments at the dam. Figure 16 represents the historical net horizontal displacements for the survey monuments in the North-South direction, while Figure 17 represents the historical net horizontal displacements for the survey monuments in the East-West direction. The historical plots reflect long-term trends and overall performance of the dam and reservoir. The use of long-term and short-term plots help to more easily identify any adverse trends or significant deviations in the data.

In July 2002, a survey was performed to determine the vertical conversion factor from the original construction datum to the National American Vertical Datum of 1988 (NAVD 88). That survey showed that a vertical conversion factor of 1.90 feet is to be added to elevations from the original construction datum to obtain NAVD 88 elevations. Although the original construction datum had been assumed to be North Geodetic Vertical Datum of 1929 (NGVD 29), the 1.90-foot vertical conversion factor is to be used in place of the National Oceanic and Atmospheric Administration (NOAA) National Geodetic Survey (NGS) online program "VERTCON" used previously to convert elevations, since there is no confirmation that the original construction datum was NGVD 29. Therefore, elevations referenced to the original construction datum are indicated simply as "construction datum" (AECOM, 2016).

1.2 Dam and Reservoir

Santiago Creek Dam is a rolled and compacted earthfill embankment dam that was completed in 1933 on Santiago Creek and Limestone Wash. The dam is 136 feet high with a dam crest length of 1,425 feet and a crest width of 10 feet. The crest of the dam is at Elevation 810.0 feet (construction datum) or Elevation 811.9 feet (NAVD 88). All elevations presented in this report are referenced to NAVD 88 unless “construction datum” is noted. Figure 1 depicts the general plan view of the dam, spillway, and outlet tower. The upstream face has a slope of 1.5:1 (Horizontal:Vertical) above Elevation of 799.4 feet, and 2.5:1 below Elevation of 799.4 feet. The downstream face has a slope of 1.5:1 above Elevation 791.9 feet, and 2:1 below Elevation of 791.9 feet. As used in this report, the left and right designations are as viewed looking downstream.

The dam is reported as being founded on bedrock for the upstream one-third of the dam, beneath the imperious upstream zone and on alluvium under the central and downstream shell area (Figures 1B–1D).

As documented in *"Dams within the Jurisdiction of the State of California"* (DSOD, 2000), the reservoir has a drainage area of 63.1 square miles, a reservoir area of 650 acres, and a storage capacity of 25,000 acre-feet at the spillway crest.

The Certificate of Approval issued by DSOD authorizes the effective spillway crest to be raised by four feet using stoplogs to Elevation 794 feet (construction datum) between April 1 through September 30 of each year. Currently the Districts are operating the reservoir under an interim restriction Elevation of 762.5 (construction datum) to mitigate the potential of future spillway spills and the potential of damage prior to fixing the spillway.

A reservoir caretaker's house is located above and away from the right abutment of the dam. A rain gage is located near the caretaker's house.

1.3 Spillway

The open-channel spillway is located on the left abutment of the dam. The spillway crest is at Elevation of 790.0 feet (construction datum) or Elevation 791.9 feet (NAVD 88), providing 20 feet of total freeboard. The reinforced-concrete spillway consists of an approach apron, control ogee structure, chute, and flip-bucket. According to a report by AECOM (2016), the spillway was extensively modified in late 1969 and/or early 1970 after being damaged by high spillway discharges from the February 1969 flood event. The original waste channel and lower chute were removed due to damage, and the flip-bucket was added at the end of the remaining chute. A portion of the left wall of the original spillway channel was left in place immediately downstream of the flip-bucket on the right abutment.

There is an 8-foot deep concrete cutoff wall at the upstream end of the spillway (Spillway Station 0+00), and shallower cutoffs at Spillway Stations 1+05, 2+00, 2+75, and 3+10. A subdrain system consisting of a tile drain surrounded by stone was placed downstream of the cutoff at Spillway Station 0+00, upstream of the other cutoffs, and was daylighted through the spillway chute at Spillway Station 3+14.

1.4 Outlet Works

The outlet works consists of a 135-foot-high circular reinforced concrete outlet tower with gated intakes at eight different elevations spaced at 10 foot intervals, a reinforced concrete-encased 60-inch welded steel outlet conduit, and a downstream control house where reservoir discharges can be released in the event of an emergency. The lower four intake gates have been inoperable due to siltation for more than 30 years. The remaining intake gates are operable. The outlet conduit is 592 feet long and it splits near the downstream toe of the dam into a 36-inch diameter main pipe and a 30-inch diameter emergency release pipe (blowoff). Water moving through the outlet conduit is controlled by the main valve located in the control house which is normally kept open to supply water through the Irvine Lake Pipeline (ILP) to the Districts' customers. The emergency release pipe (blowoff) is controlled by a diverter valve, which is normally kept closed. It can be opened in an emergency to release water into the streambed immediately downstream of the control house.

The District provided a Reservoir Dam Valve Exercising summary table which states the outlet gate valves at elevations 750, 740, 730 and 720 feet and downstream outlet valves were exercised on March 24, 2021. The table is provided in the Appendix of this report. As-built plans and details of the outlet works are provided in the appendix of this report

2.0 Field Measurements

2.1 General

There are currently 22 open-well piezometers, one benchmark and five survey monuments being monitored at Santiago Creek Dam. District personnel measure the piezometric levels in the piezometers and the reservoir water level weekly and immediately following significant seismic events. The benchmark and survey monuments have been typically surveyed annually by a licensed surveyor under contract with the District. Precipitation is measured at an on-site rain gage. Any seepage through the dam or its foundation are through the alluvial materials and not measured. Figure 1 is a site and instrumentation plan showing the layout of the dam and appurtenances, as well as the locations of the piezometers and survey monuments.

Throughout this report, instrumentation measurements and readings that remained within historical limits and followed historical trends will be classified as normal. Historical limit is classified as the range between maximum and minimum water levels within the past ten years.

Based on the ten-year historical data from January 2011 through December 2021, the reservoir water surface elevation varied from a minimum Elevation of 735.6 feet to a maximum Elevation of 792.6 feet. During the 2021 review period, the reservoir water surface elevation varied from a minimum Elevation of 735.6 feet to a maximum Elevation of 743.0 feet (48.9 feet below the spillway crest). The reservoir elevations that were read on the same dates as the piezometers are included in Table 2 that covers the period from January 2007 to December 2021. The reservoir water surface elevations during the 2021 review period remained within historical range.

2.2 Piezometers

An open-well piezometer is a small-diameter well used mainly to measure piezometric water levels within subgrades. It is typically installed as a casing in a vertical borehole and has a discrete perforated zone near its bottom to enable monitoring of changes in groundwater levels within that zone. More than one piezometer can be installed within a single, larger-diameter borehole. These groups of piezometers are often referred to as multi-stage or nested piezometers. The tip of each piezometer is placed at its own discrete depth interval. The borehole is filled with permeable sandy material across the vertical zone corresponding to the sensing zone of the piezometer.

The 22 open-well piezometers being monitored at Santiago Creek Dam are labeled as R-1 Upper-Middle-Lower, R-2 Upper-Middle-Lower, R-3 Upper-Middle-Lower, R-4 Upper-Lower, R-5 Upper-Lower, R-6 Upper-Lower, R-7 Upper-Lower, No. 1, No. 2, No. 3, No. 4 and No. 5. The seven piezometers R-1 through R-7 with an "Upper", "Middle", or "Lower"

designation are nested piezometers. Piezometers No. 1 and No. 2 were installed in 1964, while Piezometers No. 3, No. 4, and No. 5 were installed in 2011. Piezometers R-1 through R-6 were installed in 1969, while Piezometer R-7 was installed in 1990.

The piezometric water levels in the piezometers were generally measured on a weekly basis during the current 2021 review period. Figures 2 through 7 are plots representing the piezometer levels and reservoir water surface levels during the past two years (January 2020 through December 2021), while Figures 8 through 12 are plots representing the historical piezometer water levels and reservoir levels since 2011 and Figure 13 since 2012. Table 2 lists piezometer water levels data since 2007. The top elevations of the monitored piezometers were surveyed on May 21, 2012, and Table 3 lists the pre and post May 2012 survey of the top elevations and the new total depth of each piezometer. According to the 2015 Annual Surveillance Report by AECOM (2016), maintenance work was conducting during 2015 on selected piezometers to clear possible blockage due to several abnormal readings.

Table 1 provides the ranges between maximum and minimum water levels in each piezometer based on trends from the ten-year historical data from January 2011 through December 2021 and the ranges between maximum and minimum water levels during the 2021 review period. Outlier readings with isolated spikes or drops were not included in the maximum and minimum water level range.

Table 1. Piezometers – Maximum and Minimum Water Level Ranges

Piezometer	Last 10-year Maximum and Minimum Range (ft)	2021 Review Period Maximum and Minimum Range (ft)	Comment
R-1 Upper	2.1	0.7	
R-1 Middle	7.2	0	
R-1 Lower	15.0	0.7	Readings from 11/14/2011 to 12/9/2011 omitted due to isolated spikes. Water level returned back to trend and historic range values.
R-2 Upper	23.0	0.5	Piezometer is dry at elevation 711.68 ft. Readings from 3/19/2011, 3/30/2011 and 1/15/2020 omitted due to isolated spikes. Water level returned back to trend and historic range values.
R-2 Middle	2.3	0.3	
R-2 Lower	3.1	0.2	Reading on 8/18/2012 omitted due to isolated drop. Water level returned back to trend and historic range values.
R-3 Upper	0.9	0	Piezometer is dry at elevation 737.5 ft. Readings from 5/21/2012 to 4/30/2013 omitted due to isolated spike. Water level returned back to trend and historic range values.
R-3 Middle	3.5	0.3	Reading on 5/21/2012 omitted due to isolated spike. Water level returned back to trend and historic range values.
R-3 Lower	0.9	0.9	Piezometer is dry at elevation 676 ft.
R-4 Upper	18.3	0	
R-4 Lower	11.8	3.7	Piezometer is dry at elevation 700 ft. Readings from 5/21/2012 to 6/4/2012 omitted due to isolated spikes. Water level returned back to trend and historic range values.
R-5 Upper	4.8	0.4	
R-5 Lower	23.5	4.3	Reading on 1/9/2019 omitted due to isolated drop. Water level returned back to trend and historic range values.
R-6 Upper	27.4	0.8	Piezometer is dry at elevation 700 ft.
R-6 Lower	7.6	2.0	
R-7 Upper	5.1	0.7	Piezometer is dry at elevation 677.2 ft.
R-7 Lower	7.6	1.4	
No. 1	25.8	1.5	
No. 2	2.7	0.3	Piezometer is dry at elevation 677.7 ft.
No. 3	5.6	0.3	
No. 4	1.0	0	Reading on 6/4/2012 omitted due to isolated spike. Water level returned back to trend and historic range values.
No. 5	2.4	0	Reading on 6/4/2012 omitted due to isolated spike. Water level returned back to trend and historic range values.

Piezometer R-1 is located on the dam crest near Station 6+00. Figures 2 and 8 represent the 2-year and the historical water levels measured in Piezometers R-1 Upper, R-1 Middle, and R-1 Lower. Piezometer R-1 Upper, installed in the pervious shell material, did not show a response to reservoir level changes and remained dry consistently near Elevation 734 feet. Piezometer R-1 Middle has its tip near the base of the pervious shell material, while Piezometer R-1 Lower was installed in the underlying alluvial foundation. The water level in Piezometer R-1 Middle did not fluctuate and remained consistently at Elevation 702.2 feet during the 2021 review period. Piezometers R-1 Upper and R-1 Middle appear to be dry since both water levels are near the piezometer tip elevation. The water level in Piezometer R-1 Lower fluctuated 0.7 feet during the 2021 period. Historically, both the Middle and Lower R-1 piezometers fluctuate slightly with reservoir water level changes.

Piezometer R-2 is located on the dam crest near Station 2+50. Figures 3 and 9 represent the 2-year and the historical piezometric levels measured in Piezometers R-2 Upper, R-2 Middle, and R-2 Lower. The water level in Piezometer R-2 Upper, installed in the pervious shell material, varied from dry to 0.5 feet throughout the review period, this is normal for this piezometer. The January 15, 2020, reading for Piezometer R-2 Upper was most likely recorded erroneously and not considered as a valid number. Piezometer R-2 Middle was installed near the interface of the dam embankment and alluvium foundation; the water level during the 2021 period was consistent with past historic levels. Piezometer R-2 Lower was installed in the foundation bedrock; the water level for this piezometer fluctuated 0.2 feet between maximum and minimum piezometric levels during the 2021 period and within past historic limits.

Piezometer R-3 is located on the dam crest near the right abutment at approximately Station 9+50. Figures 4 and 10 represent the 2-year and the historical piezometric levels measured in Piezometers R-3 Upper, R-3 Middle, and R-3 Lower. The 2012 R-3 Upper readings that were recorded above the reservoir level are considered erroneous; this piezometer has been dry historically. Piezometer R-3 Upper is installed in terrace materials in the right abutment and was dry during the 2021 review period. Piezometer R-3 Middle was also installed in terrace materials and its water level remained essentially at Elevation 752 feet throughout the review period which is within historic levels. This piezometer has historically recorded levels above the reservoir stage and should be cleaned out to ensure there is no blockage that could be impacting readings. Piezometer R-3 Lower was installed in the foundation bedrock; the level for this piezometer varied from dry to 0.9 feet throughout the review period and within historic measurements.

Piezometer R-4 is located on the downstream bench of the dam, downstream of Piezometer R-2. Figures 3 and 9 represent the 2-year and the historical water levels measured in Piezometers R-4 Upper and R-4 Lower. Piezometer R-4 Upper was installed in foundation alluvium and was cleaned in July 2015, resulting in the water levels in this piezometer to drop by approximately 10 feet. After the cleaning, the water levels in Piezometer R-4 Upper remained between an elevation of 682 feet and 686 feet. The water level for this piezometer did not fluctuate and remained at Elevation 685.2 during the 2021 review. Piezometer R-4 Lower is installed in the underlying bedrock and the water levels remained within historic trends.

Piezometer R-5 is located on the downstream bench of the dam, downstream of Piezometer R-1. Figures 2 and 8 represent the 2-year and the historical water levels measured in Piezometers R-5 Upper and R-5 Lower. Piezometer R-5 Upper was installed near the embankment alluvium foundation interface and its water level only varied by 0.4 feet throughout the 2021 review period, near Elevation 677.9 feet. This level is consistent with historical measurements. Piezometer R-5 Upper has shown very little response to the reservoir water level changes. Piezometer R-5 Lower was installed in bedrock. Based on a

review of historical data, the piezometer is showing reaction to changes in the reservoir level. This piezometer has been bailed in the past due to potential blockage and for the last ten years the levels are now fluctuating above and below Elevation 710 depending on the reservoir level (Figure 8).

Piezometer R-6 is located on the dam crest near Station 5+00. Figures 5 and 11 represent the 2-year and the historical water levels measured in Piezometers R-6 Upper and R-6 Lower. Piezometer R-6 Upper is installed in the pervious shell material. The piezometric level in this piezometer ranged between dry and 0.8 feet during the 2021 review period. Historically, Piezometer R-6 Upper fluctuates slightly with reservoir water level changes. In addition, due to the 2015 cleaning of this piezometer, the level for the last 5 years has been consistent near Elevation 700. Piezometer R-6 Lower was installed in the alluvial bedrock foundation interface. The water level fluctuated 2 feet between maximum and minimum during the 2021 review period. These levels are within historical ranges.

Piezometer R-7 is located on the downstream bench of the dam at approximately Station 3+50. Figures 6 and 12 represent the 2-year and the historical piezometric levels measured in Piezometers R-7 Upper and R-7 Lower. Piezometer R-7 Upper was installed in the pervious shell alluvial foundation interface. The water level in this piezometer fluctuated 0.7 feet between maximum and minimum during the 2021 review period. These levels and variation are consistent with past measurements for this piezometer. It was reported that the Districts performed maintenance cleaning and re-sounded the bottom of Piezometer R-7 Upper to confirm the bottom elevation in 2017. Piezometer R-7 Lower was installed in the underlying bedrock. The water level in Piezometer R-7 Lower ranged between Elevation 665.7 and 667.1 feet during the 2021 review period, fluctuating only 1.4 feet. Historically, measured levels in this piezometer showed slight fluctuations to changes in the reservoir. During our inspection, Piezometer R-7 lower was dry.

Piezometer No. 1 is located on the dam crest near Station 4+00, while Piezometer No. 2 is located at the downstream toe of the dam, downstream of Piezometer No. 1. Piezometer No. 1 was installed in the lower section of the pervious shell material, while Piezometer No. 2 was installed in the foundation alluvium. Figures 6 and 12 represent the 2-year and the historical water levels measured in Piezometers No. 1 and No. 2. The piezometric level in Piezometer No. 1 during the 2021 report period fluctuated 1.5 feet. Historically, Piezometer No.1 responded to the reservoir water surface elevation changes until 2015 then became rather consistent between approximately Elevations 702 to 705 feet. The level in Piezometer No. 2 remained at approximately 679.5 feet during the 2021 report and historically has shown slight response to the reservoir water surface elevation changes. During the inspection, GEI measured the water level elevation at 678.6 feet. GEI noticed a strong odor coming out of the well. GEI believes the smell comes from stagnant water.

Piezometers No. 3, No. 4, and No. 5 are 2-inch-diameter piezometers that were installed along the downstream toe of the dam in 2011 in boreholes that had been drilled during the investigation into the alluvial deposits below the dam's foundation as part of the liquefaction evaluation performed by the Districts. Figures 7 and 13 represent the 2-year and the historical water levels measured in Piezometers No. 3, No. 4 and No. 5. During the 2021 review period, Piezometer No. 3 varied from Elevation 658.0 to Elevation 658.3 a maximum fluctuation of 0.3 feet. During the inspection, GEI measured the water level elevation at 658.5 feet. GEI noticed a strong odor coming out of the well. GEI believes the smell comes from stagnant water. Piezometer No. 4 remained constant at Elevation 660.3 feet and Piezometer No. 5 remained constant at 664.3. Historically, all three piezometers have shown very little response to the changes in the reservoir water surface elevation. The levels of Piezometer No. 3, No. 4, and No. 5 are within past levels (Figure 13). The Districts performed maintenance cleaning of Piezometer No. 3 in 2017 resulting in no significant changes to the post 2017 piezometric levels.

Based on GEI's review, the piezometer data remained normal and consistent with historical levels during the 2021 review period. There are no indications of any adverse conditions at the dam embankment, abutments, or foundation. The data confirms the well-drained conditions within the dam which is also confirmed by the lack of any evidence of seepage at the dam.

2.3 Survey Movements

There is a total of five survey monuments (BM-1 through BM-5) and one benchmark (BM-0) being monitored at Santiago Creek Dam. The survey monuments' elevations and net horizontal displacements are typically measured annually. Benchmark BM-0 is located on the right abutment of the dam. Survey Monuments BM-1, BM-2 and BM-3 are located along the crest of the dam. Survey Monument BM-4 is located on the right side of the bridge walkway over the spillway. Survey Monument BM-5 is located on the left side of the bridge walkway over the spillway. Figure 1 shows the locations of the survey monuments and benchmark.

Surveys of the monuments' elevations along with a determination of the net horizontal displacements of the survey monuments for the 2021 review period were performed on May 12, 2022. The survey report is provided in the Appendix of this report. Graphical plots representing the survey monuments' elevations since 1989 are presented in Figures 14 and 15. Table 3 lists the elevation data of the survey monuments since 1989.

Surveys to measure the net horizontal displacements of the survey monuments began in 1994. Graphical plots representing the monuments' net horizontal displacements since 1994 are presented in Figures 16 and 17. Table 4 lists the monuments' net horizontal displacement data since 1994.

The vertical movement data (Table 3) of the survey monuments indicates settlement at less than 0.1 of a foot since 1989. The net horizontal displacements in the north-south and west-east directions for BM-1 through BM-4 has been less than 0.5 inch since 1994. Based on the data it appears ambient temperatures and the different reservoir water levels during the surveys could be attributing to the slight variations in the survey measurements. The net horizontal displacement for BM-5 was up to approximately 0.9 inch in the upstream direction since 1994. Based on the historical graph (Figure 17) there is a small incremental trend of movement for BM-5 in the upstream direction. This small movement could be partially attributed to the left abutment sloughing of weathered material in the vicinity of this monument. This small amount of movement will be monitored and is not considered a problem at this time, especially considering the Districts are moving forward with plans for a major rehabilitation of the spillway, including addressing the left abutment sloughing, in the coming years.

Based on GEI's review of the historical data, the horizontal and vertical movements are minimal and within acceptable tolerances. There are no significant movements or signs of instability.

3.0 Field Evaluations

3.1 Field Evaluation on April 19, 2022

A field evaluation and inspection were performed by Richard Sanchez, Lorena Manriquez and Emerson Revolorio of GEI, Danielle Drake and Casey King of the District on April 19, 2022. The reservoir level was reported to be at Elevation 742 and 49.9 feet below the spillway crest. Weather conditions were clear and sunny. Photos taken by GEI are included in the Appendix of this report.

3.1.1 Dam

The crest of dam, downstream toe area, sections of the upstream and downstream slopes, right abutment area, and groin areas were walked. The inspection team stopped at various locations to observe and take photos of existing conditions. See Photos 1-4 and 15-18. The gravel surface crest, slopes, right abutment area, and groin areas did not have any unusual signs of instability or movement. The upstream slope concrete lining had long standing temperature shrinkage cracking and needs to be monitored annually. During the inspection, GEI observed vegetation growing in the cracks of the upstream slope concrete surface, see Photo 3. The downstream slope has small tree/brush vegetation that needs to be cut down, see Photos 4 and 15-18. No active rodent holes were observed during the inspection. The Districts did have rodent control feeder boxes along the downstream face of the dam, but most had little to no poison. The right abutment area and both downstream groin areas were inspected, and no unusual conditions were seen. GEI observed minor overgrown brush and trees near the right groin, see Photos 4 and 15. The downstream toe area of the dam was walked, and no unusual signs were seen. The downstream face and toe of the dam did not have any signs of seepage or wet spots. The rock knob between the dam and spillway had no signs of movement or instability. The left abutment weathered material above the spillway continues to slough, see Photos 9 and 10. The Districts are moving forward with major spillway rehabilitation that includes the left abutment sloughing repairs.

3.1.2 Spillway

The reinforced concrete spillway bridge, approach, and chute were walked and inspected, see Photos 5-6, 8, and 11-14. The spillway was clear. As previously noted, the Districts are currently moving forward with the design of a new spillway structure to replace the existing spillway. The new spillway will address the overall concerns with the aging structure. The Districts had completed borehole drilling and sampling on the spillway in support of the design phase for the spillway rehabilitation project. Borehole locations were marked along the spillway, see Photos 11 and 12. There are various localized concrete areas especially on the bridge parapets and approach that require concrete repairs. The spillway drains at the end of the chute were dry.

During the inspection, GEI also observed the longstanding undercutting/erosion at the downstream end of the spillway chute, see Photo 14. The Districts are operating the reservoir under an interim restriction (Elevation 762.5) to mitigate the potential of future spillway spills and the potential of damage prior to fixing the spillway.

3.1.3 Outlet Works

The above water portion of the concrete outlet tower was observed from the spillway approach area, see Photo 7. Although at a distance away, no unusual signs were seen. It was reported the outlet gate at Elevation 740 had been fully repaired. It was reported that during the next DSOD inspection the outlet gates would be exercised and a boat would be taken to the outlet tower to perform a closer more detailed inspection. The four lower outlet gates have been silted over. It was reported the upper outlet gates and downstream outlet valves plus blowoff valve were fully operational. The upper outlet gates and downstream valves were not exercised during this inspection. According to the District, the outlet gates at elevations 750, 740, 730, and 720 feet were exercised on March 24, 2021. According to the Reservoir Dam Valve Exercising table provided by the District, the downstream valves were also exercised on March 24, 2021. Based on visual observation the emergency blowoff valve and dissipator structure appeared to be in satisfactory condition, see Photo 19. During our inspection, the District reported that the emergency blowoff valve hadn't been operated in some time. It was agreed that all operable valves would be exercised during the next DSOD inspection.

3.1.4 Seepage

No seepage or wet spots were seen on the downstream slope or toe area of the dam. There is no seepage collection system for this dam. The alluvium foundation acts as a drain blanket for the dam.

4.0 Conclusions and Recommendations

4.1 Conclusions

- 1) Based on the review of available instrumentation data and the field inspection, the dam does not appear to have signs of structural deficiencies, seepage, and instability.
- 2) Minor vegetation growing in the cracks of the upstream slop concrete surface.
- 3) Overgrown trees and brush vegetation were observed growing on the downstream slope and toe of the dam.
- 4) There was a lack of poison in the rodent control feeder boxes.
- 5) Piezometers' water levels were within historical ranges. No unusual conditions were detected from the piezometer data.
- 6) Horizontal and vertical movement appears to be minimal and consistent with historical data and trends; with the exception of BM 5 which indicates a slow but small upstream continued movement, see Figure 16 and 17. GEI believes this movement is attributed to the sloughing of the left abutment material, see Photos 9 and 10.
- 7) Tower outlet facilities were not closely inspected during this inspection. A boat is required to access and closely inspect the outlet tower plus exercise the outlet gates at the tower. It was reported that a boat would be scheduled during the next DSOD inspection to access the outlet tower. The downstream diversion outlet and blowoff valves were also not exercised during this inspection. The Districts reported all operational valves had been exercised on March 24, 2021.
- 8) The spillway is considered to be in poor to fair condition requiring several repairs that the Districts are aware of and are in the process of implementing a large spillway rehabilitation project.
- 9) Piezometer R-1 Upper and R-1 Middle water levels are being recorded near the piezometer tip elevation and appear to be dry.
- 10) Piezometer R-3 Middle levels are above the reservoir stage and within historically recorded levels.

4.2 Recommendations

- 1) Fill the rodent control feeder boxes monthly with poison and backfill any new rodent holes observed along the dam.
- 2) Remove vegetation in the cracks of the upstream slope concrete surface.
- 3) Surveyor needs to provide reservoir elevation, reservoir water temperature, air temperature and weather conditions for each survey.
- 4) Cut down all small trees and brush growing on the downstream slope and toe area of the dam before they become overgrown.
- 5) Boat transport should be planned and scheduled for these annual inspections to be able to inspect the outlet intake tower and exercise the outlet intake gates. In addition, the downstream outlet diversion and blowoff valves should also be exercised during the next inspection.
- 6) The Districts should continue with localize repairs of spillway concrete cracks and spalled areas as required considering the Districts are moving forward with a major spillway rehabilitation project that is currently under development. This would include the left abutment sloughing next to the spillway approach and the undercutting/erosion at the downstream end of the spillway chute.
- 7) During normal inspection and operation of the dam and its appurtenances, the Districts' personnel shall observe the condition of the dam and appurtenances, looking for any signs of distress, instability, or movement, increased seepage, or other unusual conditions, and continue ensuring the Santiago Creek Dam facilities are fully functional. Any unusual observations should be reported immediately to the Dam Safety Engineer.
- 8) An inspection and evaluation of the dam shall be performed immediately after any earthquake with a Magnitude of 4.0 or greater within a 50-mile radius of the dam.
- 9) Piezometers R-1 Upper and R-1 Middle need to be checked if they are dry.
- 10) Piezometer R-3 Middle recorded levels are above the reservoir stage and this piezometer should be cleaned out to ensure there is no blockage that could be impacting readings.

Santiago Creek Dam Action Item Summary

Item	Location	Maintenance	Measures
Rodent control feeder boxes	Throughout dam	Lack of poison in rodent control feeder boxes	Place poison in all the rodent control feeder boxes
Outlet intake Tower	Reservoir	Outlet intake gates/valves need to be exercised	Boat transport should be planned and scheduled for exercising the outlet intake gates/valves for each annual inspection
Downstream outlet diversion and blowoff valves	Control house	Outlet diversion and blowoff valves need to be exercised	Outlet diversion and blowoff valves need to be exercised for each annual inspection
Upstream face	Dam upstream face concrete surface	Minor vegetation growing in the cracks	Remove vegetation
Movement Surveys	Throughout dam	Need additional information	Provide reservoir elevation, reservoir water temperature, air temperature and weather conditions for each survey
Downstream face	Dam downstream face	Slight overgrown of brush and small trees	Remove overgrown brush and trees
Downstream right groin	Downstream side where dam meets right abutment	Overgrown vegetation	Remove overgrown vegetation
Piezometers	R-1 Upper and R-1 Middle	Water level readings near piezometer tip elevations	Confirm if piezometers are dry
Piezometer	R-3 Middle	Recorded water levels are above the reservoir stage	Clean out piezometer if blocked. Monitor monthly

5.0 Limitations

This report presents observations made, conclusions drawn, and opinions formed from (1) a visual inspection of Santiago Creek Dam and its appurtenant structures, and (2) a review of instrumentation data, including piezometer levels, survey data and seepage rates, collected by the Districts. The purpose of the inspection and review is to assess the safety of the structure for continuing operation. Reuse of this report for any other purposes, in part or in whole, is at the sole risk of the user.

In the context intended above, the term "safety" is interpreted to be restricted specifically to major structural and control features of the project in regard to their adequacy against possible catastrophic failure due to natural or operational events. No consideration is given herein to those public safety aspects related to voluntary occupancy or use of project features in such manner as to result in personal mishaps.

The undersigned who performed the inspection and reviewed the instrumentation data and prepared this report, desire that it be clearly understood that the conclusions regarding the condition and safety of the dam and related facilities are not guaranteed but do represent our best judgment. Inevitably, such judgment must be recognized to be affected to an uncertain degree by the practical limitations that affect all dam evaluations, relative principally to approximate knowledge of the existing properties of the structures and their foundations, the potential for storm or seismic damage, and the uncertainties that are known to exist in estimating margins of report represents the results of our surveillance program for Santiago Creek Dam, covering safety.

The conclusions and professional opinions presented herein were developed by GEI Consultants, Inc. for the Irvine Ranch Water District and Serrano Water District in accordance with generally accepted engineering principles and practices. We make no other warranty, either express or implied.

6.0 References

AECOM, 2016, 2015 Annual Surveillance Report for Santiago Creek Dam, No. 75-000, Orange County, California; by AECOM; dated April 21, 2016.

DSOD (California Department of Water Resources, Division of Safety of Dams), Inspection of Dam and Reservoir in Certified Status October 20, 2020.

Tables

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
1/10/2007	749.70		77.50		109.20		117.40		100.00	
1/19/2007	749.40		77.50		109.20		117.40		100.00	
1/29/2007	749.60		77.50		109.20		117.40		100.00	
2/7/2007	750.00		77.50		109.20		117.60		100.00	
2/16/2007	750.20		77.50		109.20		117.70		100.00	
2/26/2007	750.60		77.50		109.20		118.00		100.00	
3/6/2007	751.70		77.50		109.20		118.10		100.00	
3/17/2007	755.10		77.50		109.20		118.40		100.00	
3/25/2007	756.30		77.50		109.20		118.40		100.00	
4/6/2007	760.00		77.50		109.20		118.50		100.00	
4/16/2007	762.90		77.50		109.20		118.50		100.00	
4/27/2007	767.10		77.50		109.20		118.50		100.00	
5/9/2007	766.80		77.50		109.20		118.50		100.00	
5/19/2007	764.80		77.50		109.20		118.60		100.00	
5/29/2007	762.80		77.50		109.20		118.70		100.00	
6/8/2007	761.20		77.50		109.20		118.60		100.00	
6/18/2007	759.90		77.50		109.20		118.60		100.00	
6/28/2007	758.10		77.50		109.20		118.80		100.00	
7/10/2007	756.70		77.50		109.20		119.00		100.00	
7/19/2007	755.80		77.50		109.20		119.10		100.00	
7/30/2007	754.90		77.50		109.20		119.20		100.00	
8/11/2007	754.40		77.50		109.20		119.20		100.00	
8/22/2007	753.80		77.50		109.20		119.20		100.00	
8/30/2007	753.30		77.50		109.20		119.20		100.00	
9/7/2007	753.20		77.50		109.20		119.20		100.00	
9/18/2007	753.00		77.50		109.20		119.20		100.00	
9/27/2007	753.60		77.50		109.20		119.20		100.00	

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
10/8/2007	754.90		77.50		109.20		119.20		100.00	
10/17/2007	756.20		77.50		109.20		119.20		100.00	
10/30/2007	757.80		77.50		109.20		119.40		100.00	
11/9/2007	759.60		77.50		109.20		119.20		100.00	
11/19/2007	763.60		77.50		109.20		119.20		100.00	
11/28/2007	766.50		77.50		109.20		119.40		100.00	
12/8/2007	768.70		77.50		109.20		119.60		100.00	
12/18/2007	768.50		77.50		109.20		119.70		100.00	
12/28/2007	769.30		77.50		109.20		119.90		100.00	
1/9/2008	770.50		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
1/19/2008	770.30		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
1/29/2008	772.70		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
2/9/2008	774.10		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
2/19/2008	774.40		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
2/27/2008	775.00		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
3/7/2008	775.00		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
3/18/2008	775.00		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
3/29/2008	774.90		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
4/10/2008	775.00		77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90
4/20/2008	774.80		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
5/5/2008	774.65		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
5/13/2008	773.90		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
5/21/2008	772.85		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
5/31/2008	772.10		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
6/9/2008	771.20		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
6/18/2008	770.50		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90
6/26/2008	769.60		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90

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JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
7/8/2008	768.10		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
7/19/2008	766.60		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
7/29/2008	765.50	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
8/4/2008	764.60	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
8/9/2008	764.25	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
8/19/2008	763.20	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
8/28/2008	762.25	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90
9/6/2008	761.00	0.00	77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90
9/17/2008	760.10	0.00	77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90
9/29/2008	759.20	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
10/8/2008	759.00	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
10/18/2008	758.90	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
10/29/2008	761.30	0.00	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/8/2008	764.30	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
11/17/2008	766.90	0.00	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/25/2008	769.90	1.71	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
12/4/2008	773.90		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
12/13/2008	777.30		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
12/21/2008	779.10		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
12/30/2008	779.40	3.99	77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
1/8/2009	779.30		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
1/19/2009	778.50		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
1/29/2009	778.30	0.38	77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
2/12/2009	779.80		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90
2/19/2009	781.30		77.50	734.00	109.20	702.30	119.80	691.50	100.00	711.90
2/27/2009	782.20	4.33	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
3/10/2009	782.70		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90

Notes:

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**TABLE 2
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PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
3/20/2009	782.40		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90
3/25/2009	782.20	0.43	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
4/4/2009	785.30		77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90
4/13/2009	788.50		77.50	734.00	109.20	702.30	119.60	691.90	99.00	712.90
4/21/2009	790.50		77.50	734.00	109.20	702.30	119.30	692.20	95.90	716.00
4/26/2009	791.20	0.00	77.50	734.00	109.20	702.30	119.30	692.20	94.80	717.10
5/4/2009	791.30		77.50	734.00	109.20	702.30	118.80	692.70	92.10	719.80
5/13/2009	790.60		77.50	734.00	109.20	702.30	118.50	693.00	91.80	720.10
5/21/2009	789.90		77.50	734.00	109.20	702.30	118.30	693.20	90.80	721.10
5/30/2009	789.30	0.00	77.50	734.00	109.20	702.30	118.20	693.30	89.00	722.90
6/8/2009	788.70		77.50	734.00	109.20	702.30	118.00	693.50	88.80	723.10
6/17/2009	788.20		77.50	734.00	109.20	702.30	117.70	693.80	88.70	723.20
6/27/2009	787.60	0.00	77.50	734.00	109.20	702.30	117.40	694.10	88.50	723.40
7/7/2009	786.80		77.50	734.00	109.20	702.30	117.40	694.10	88.60	723.30
7/15/2009	786.10		77.50	734.00	109.20	702.30	117.40	694.10	88.70	723.20
7/22/2009	785.50		77.50	734.00	109.20	702.30	117.40	694.10	88.70	723.20
7/30/2009	784.70	0.00	77.50	734.00	109.20	702.30	117.50	694.00	88.90	723.00
8/8/2009	783.90		77.50	734.00	109.20	702.30	116.90	694.60	89.30	722.60
8/15/2009	783.30		77.50	734.00	109.20	702.30	116.60	694.90	89.70	722.20
8/26/2009	782.30	0.00	77.50	734.00	109.20	702.30	116.20	695.30	90.10	721.80
9/5/2009	781.50		77.50	734.00	109.20	702.30	116.20	695.30	90.90	721.00
9/12/2009	780.80		77.50	734.00	109.20	702.30	116.30	695.30	91.60	720.30
9/19/2009	780.20		77.50	734.00	109.20	702.30	116.00	695.50	91.80	720.10
9/28/2009	779.50	0.00	77.50	734.00	109.20	702.30	115.90	695.60	92.10	719.00
10/8/2009	778.50		77.50	734.00	109.20	702.30	115.90	695.60	92.90	719.00
10/19/2009	777.80		77.50	734.00	109.20	702.30	116.00	695.50	93.60	718.30
10/30/2009	776.80	0.24	77.50	734.00	109.20	702.30	116.00	695.50	94.10	717.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
11/9/2009	776.10		77.50	734.00	109.20	702.30	116.00	695.50	94.70	717.20
11/20/2009	775.40		77.50	734.00	109.20	702.30	116.00	695.50	95.00	716.90
11/28/2009	774.90	0.00	77.50	734.00	109.20	702.30	116.00	695.50	95.60	716.30
12/9/2009	774.60		77.50	734.00	109.20	702.30	116.20	695.30	96.20	715.70
12/18/2009	774.60		77.50	734.00	109.20	702.30	116.20	695.30	96.70	715.20
12/29/2009	774.30	3.56	77.50	734.00	109.20	702.30	116.40	695.10	97.00	714.90
1/9/2010	773.90		77.50	734.00	109.20	702.30	116.50	695.00	97.10	714.80
1/17/2010	773.60		77.50	734.00	109.20	702.30	116.50	695.00	97.20	714.70
1/28/2010	779.90	7.84	77.50	734.00	109.20	702.30	116.50	695.00	97.20	714.70
2/4/2010	780.15		77.50	734.00	109.20	702.30	116.50	695.00	96.90	715.00
2/12/2010	783.40		77.50	734.00	109.20	702.30	116.50	695.00	96.60	715.30
2/19/2010	784.00		77.50	734.00	109.20	702.30	116.60	695.00	96.20	715.70
2/26/2010	784.45	2.69	77.50	734.00	109.20	702.30	116.60	694.90	95.90	716.00
3/6/2010	785.60		77.50	734.00	109.20	702.30	116.60	694.90	95.80	716.10
3/15/2010	786.20		77.50	734.00	109.20	702.30	116.50	695.00	94.80	717.10
3/16/2010	786.30		77.50	734.00	109.20	702.30	116.40	695.10	94.80	717.10
3/24/2010	786.20	2.03	77.50	734.00	109.20	702.30	116.30	695.10	93.80	718.10
4/2/2010	785.80		77.50	734.00	109.10	702.40	116.00	695.50	92.20	719.70
4/4/2010	785.80		77.50	734.00	109.10	702.40	116.00	695.50	92.10	719.80
4/12/2010	787.40		77.50	734.00	109.10	702.40	116.00	695.50	91.60	720.30
4/20/2010	790.10		77.50	734.00	109.10	702.40	115.90	695.60	90.80	721.10
4/28/2010	792.60	1.19	77.50	734.00	109.10	702.40	115.90	695.60	90.10	721.80
5/6/2010	792.90		77.50	734.00	109.10	702.40	115.90	695.60	88.70	725.90
5/14/2010	792.40		77.50	734.00	109.10	702.40	115.70	696.00	86.00	727.40
5/21/2010	792.10		77.50	734.00	109.10	702.40	115.50	696.30	84.50	729.20
5/29/2010	791.70	0.00	77.50	734.00	109.10	702.50	115.20	696.80	82.70	730.00
6/8/2010	791.00		77.50	734.00	109.00	702.50	114.70	696.80	81.90	730.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
6/15/2010	790.60		77.50	734.00	109.00	702.50	114.40	697.30	81.60	730.70
6/22/2010	790.10		77.50	734.00	109.00	702.50	114.20	697.70	81.20	731.00
6/29/2010	789.70	0.00	77.50	734.00	109.00	702.50	113.80	697.80	80.90	731.00
7/8/2010	789.20		77.50	734.00	109.00	702.50	113.70	697.80	80.90	731.00
7/16/2010	788.70		77.50	734.00	109.00	702.50	113.50	698.10	80.90	731.00
7/23/2010	788.30		77.50	734.00	109.00	702.50	113.40	698.10	80.90	731.00
7/31/2010	787.70	0.00	77.50	734.00	109.00	702.30	113.40	698.20	80.80	730.70
8/7/2010	787.30		77.50	734.00	109.20	702.30	113.30	698.30	81.20	730.10
8/15/2010	786.70		77.50	734.00	109.20	702.30	113.20	698.40	81.80	729.60
8/23/2010	786.10		77.50	734.00	109.20	702.30	113.10	698.50	82.30	729.10
8/29/2010	785.60	0.00	77.50	734.00	109.20	702.30	113.00	698.50	82.80	728.60
9/8/2010	784.90		77.50	734.00	109.20	702.30	113.00	698.50	83.30	728.30
9/17/2010	784.20		77.50	734.00	109.20	702.30	113.00	698.50	83.60	727.30
9/27/2010	783.50	0.00	77.50	734.00	109.20	702.30	113.00	698.50	84.70	727.30
10/8/2010	782.80		77.50	734.00	109.20	702.30	113.00	698.50	84.60	726.60
10/18/2010	782.20		77.50	734.00	109.20	702.30	113.00	698.50	85.10	726.20
10/28/2010	782.00	1.76	77.50	734.00	109.20	702.30	113.00	698.50	85.70	725.90
11/4/2010	781.70		77.50	734.00	109.20	702.30	113.00	698.50	86.00	725.50
11/15/2010	781.10		77.50	734.00	109.20	702.30	113.00	698.50	86.40	725.00
11/26/2010	780.80	1.33	77.50	734.00	109.20	702.30	113.00	698.50	86.80	725.00
12/8/2010	780.50		77.50	734.00	109.20	702.30	113.00	698.50	86.90	724.70
12/16/2010	780.40		77.50	734.00	109.20	702.40	113.00	698.30	87.20	726.20
12/30/2010	792.60	11.72	77.50	734.00	109.10	704.40	113.20	698.30	83.70	730.10
1/6/2011	792.20		77.50	734.00	107.10	704.20	113.20	698.30	81.80	730.10
1/7/2011	792.20		77.50	734.00	107.30	704.80	113.20	698.80	81.80	730.10
1/17/2011	792.00		77.50	734.00	106.70	705.00	112.70	699.00	79.80	733.00
1/27/2011	791.80	1.11	77.50	734.00	106.50	705.00	112.50	699.00	78.90	733.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
2/5/2011	791.80		77.50	734.00	106.00	705.70	112.30	699.40	78.90	733.00
2/15/2011	791.80		77.50	734.00	105.80	705.70	112.10	699.50	78.90	733.20
2/23/2011	792.20	2.87	77.50	734.00	105.60	706.40	112.00	699.90	78.70	733.90
3/8/2011	792.10		77.50	734.00	105.10	706.90	111.60	700.10	78.00	734.30
3/19/2011	791.80		77.50	734.00	104.60	707.20	111.40	700.30	77.60	740.80
3/30/2011	791.50	3.23	77.50	734.00	104.30	707.50	111.20	700.60	71.10	740.80
4/7/2011	792.10		77.50	734.00	104.00	707.70	110.90	700.80	77.10	734.70
4/16/2011	792.50		77.50	734.00	103.80	707.90	110.70	701.00	77.20	734.70
4/23/2011	792.60		77.50	734.00	103.60	708.10	110.50	701.10	77.20	734.70
4/30/2011	792.60	0.00	77.50	734.00	103.40	708.30	110.40	701.10	77.20	734.70
5/9/2011	792.40		77.50	734.00	103.20	708.50	110.40	701.20	77.20	734.70
5/16/2011	792.40		77.50	734.00	103.00	708.70	110.30	701.40	77.20	734.60
5/24/2011	792.40		77.50	734.00	102.80	708.90	110.10	701.50	77.30	734.60
5/31/2011	792.40	0.81	77.50	734.00	102.60	709.20	110.00	700.50	77.30	734.60
6/8/2011	792.10		77.50	734.00	102.30	709.20	111.00	701.60	77.30	734.60
6/16/2011	791.90		77.50	734.00	102.30	709.20	109.90	701.90	77.30	734.60
6/23/2011	791.80		77.50	734.00	102.30	709.30	109.60	702.10	77.30	734.60
6/30/2011	791.60	0.00	77.50	734.00	102.20	709.30	109.40	702.30	77.30	734.30
7/8/2011	791.40		77.50	734.00	102.20	709.30	109.20	702.30	77.60	734.00
7/14/2011	791.20		77.50	734.00	102.20	709.30	109.20	702.50	77.90	733.80
7/21/2011	790.90		77.50	734.00	102.20	709.30	109.00	702.70	78.10	733.40
7/30/2011	790.40	0.00	77.50	734.00	102.20	709.30	108.80	702.50	78.50	732.80
8/9/2011	789.90		77.50	734.00	102.20	709.30	109.00	702.70	79.10	732.60
8/15/2011	789.70		77.50	734.00	102.20	709.30	108.80	702.50	79.30	732.30
8/24/2011	789.00		77.50	734.00	102.20	709.30	109.00	701.90	79.60	731.90
9/1/2011	788.65	0.00	77.50	734.00	102.20	709.10	109.60	701.80	80.00	730.50
9/9/2011	787.90		77.50	734.00	102.40	709.10	109.70	701.70	81.40	730.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
9/16/2011	787.30		77.50	734.00	102.50	709.10	109.80	701.70	81.60	730.10
9/23/2011	787.00		77.50	734.00	102.60	708.80	109.80	701.60	81.80	729.90
9/29/2011	786.80	0.08	77.50	734.00	102.70	708.80	109.90	701.30	82.00	729.20
10/8/2011	786.60		77.50	734.00	102.80	708.50	110.20	701.20	82.70	728.80
10/15/2011	786.40		77.50	734.00	103.00	708.40	110.30	701.20	83.10	728.40
10/26/2011	786.00	1.29	77.50	734.00	103.10	708.30	110.30	701.20	83.50	728.10
11/5/2011	785.50		77.50	734.00	103.20	708.30	110.30	701.20	83.80	727.60
11/14/2011	785.40		77.50	734.00	103.20	708.00	110.30	706.50	84.30	727.40
11/22/2011	785.10		77.50	734.00	103.50	707.70	110.30	704.50	84.50	727.20
11/30/2011	785.10	1.79	77.50	734.00	103.80	707.40	110.30	704.50	84.70	727.00
12/9/2011	784.80		77.50	734.00	104.10	707.20	110.30	700.50	84.90	727.00
12/17/2011	784.60		77.50	734.00	104.30	707.30	111.00	700.40	84.90	726.80
12/22/2011	784.50		77.50	734.00	104.20	707.20	111.10	700.30	85.10	726.80
12/30/2011	784.30	0.45	77.50	734.00	104.30	707.20	111.20	700.30	85.20	726.50
1/7/2012	784.00		77.50	734.00	104.30	707.10	111.20	700.30	85.40	726.20
1/14/2012	783.80		77.50	734.00	104.40	707.00	111.20	700.20	85.70	726.00
1/21/2012	783.60		77.50	734.00	104.50	706.90	111.30	700.20	85.90	725.90
1/28/2012	783.60	1.72	77.50	734.00	104.60	706.90	111.30	700.20	86.00	725.90
2/7/2012	783.40		77.50	734.00	104.60	706.90	111.30	700.20	86.00	725.80
2/15/2012	783.40		77.50	734.00	104.60	706.80	111.30	700.20	86.10	725.80
2/25/2012	783.40	0.62	77.50	734.00	104.70	706.50	111.30	699.80	86.10	725.50
3/5/2012	783.20		77.50	734.00	105.00	706.30	111.70	699.60	86.40	725.20
3/15/2012	782.70		77.50	734.00	105.20	706.10	111.90	699.60	86.70	725.00
3/22/2012	782.60	2.01	77.50	734.00	105.40	706.00	111.90	699.60	86.90	725.00
4/3/2012	782.50		77.50	734.00	105.50	705.90	111.90	699.60	86.90	724.90
4/12/2012	782.10		77.50	734.00	105.60	705.80	111.90	699.50	87.00	724.90
4/21/2012	782.00		77.50	734.00	105.70	705.80	112.00	699.50	87.00	724.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
4/23/2012	781.90	1.32	77.50	734.00	105.70	705.80	112.00	699.40	87.20	724.90
5/1/2012	781.70		77.50	734.00	105.70	705.90	112.10	699.40	87.00	724.80
5/7/2012	781.30		77.50	734.00	105.60	706.30	112.10	699.40	87.10	724.60
5/21/2012	780.90		77.50	733.90	105.20	705.50	112.10	699.30	87.30	724.20
5/25/2012	780.00	0.06	77.50	733.90	105.90	705.50	112.10	699.00	87.50	724.20
6/4/2012	779.60		77.50	733.90	105.90	705.50	112.40	699.00	87.50	723.50
6/13/2012	778.70		77.50	733.90	105.90	705.20	112.40	699.00	88.20	723.50
6/20/2012	778.00		77.50	733.90	106.20	705.10	112.40	699.00	88.20	723.10
6/25/2012	777.30	0.00	77.50	733.90	106.30	705.10	112.50	698.90	88.60	722.40
7/4/2012	776.30		77.50	733.90	106.30	704.90	112.50	698.90	89.30	721.90
7/13/2012	775.70		77.50	733.90	106.50	704.80	112.50	698.70	89.80	721.10
7/20/2012	775.20		77.50	733.90	106.60	704.50	112.70	698.50	90.60	720.70
7/30/2012	775.00	0.10	77.50	733.90	106.90	704.40	112.90	698.40	91.00	719.10
8/8/2012	773.00		77.50	733.90	107.00	704.30	113.00	698.40	92.60	719.00
8/9/2012	772.90		77.50	733.90	107.10	704.10	113.00	698.20	92.70	718.20
8/18/2012	772.00		77.50	733.90	107.30	704.00	113.20	698.10	93.50	717.10
8/27/2012	771.10		77.50	733.90	107.40	704.00	113.30	698.10	94.60	717.10
8/29/2012	770.90	0.00	77.50	733.90	107.40	703.80	113.30	697.70	94.60	714.70
9/8/2012	769.80		77.50	733.90	107.60	703.60	113.70	697.60	97.00	714.70
9/15/2012	768.90		77.50	733.90	107.80	703.40	113.80	697.60		713.70
9/29/2012	767.80	0.00	77.50	733.90	108.00	703.10	113.80	697.40	98.00	712.70
10/11/2012	766.80		77.50	733.90	108.30	702.90	114.00	697.20	99.00	712.70
10/23/2012	765.90	1.10	77.50	733.90	108.50	702.40	114.20	696.60	99.00	712.70
11/12/2012	764.60		77.50	733.90	109.00	702.40	114.80	696.60	99.00	712.70
11/23/2012	764.30	0.16	77.50	733.90	109.00	702.40	114.80	696.60	99.00	712.70
12/12/2012	764.50	2.46	77.50	734.00	109.00	702.50	114.80	696.50	99.00	712.10
12/27/2012	769.10		77.50	734.00	109.00	702.50	115.00	696.50	99.80	711.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
1/16/2013	770.40		77.50	734.00	109.00	702.50	115.00	696.50	100.00	711.90
1/28/2013	769.90	1.82	77.50	734.00	109.00	702.40	115.00	698.50	100.00	711.90
2/15/2013	769.60		77.50	734.00	109.10	702.30	113.00	696.10	100.00	711.90
2/26/2013	769.40	0.68	77.50	734.00	109.20	702.30	115.40	696.10	100.00	712.80
3/13/2013	768.80		77.50	734.00	109.20	702.30	116.00	696.10	99.10	712.80
3/26/2013	768.60	0.66	77.50	734.00	109.20	702.30	116.00	696.10	99.10	712.80
4/10/2013	771.10		77.50	734.00	109.20	702.30	116.00	695.50	99.10	712.10
4/30/2013	772.20	0.00	77.50	734.00	109.20	702.30	116.00	695.10	99.80	712.80
5/9/2013	771.90		77.60	734.00	109.20	702.30	116.40	695.10	99.10	712.80
5/15/2013	771.70		77.60	734.00	109.20	702.30	116.40	695.10	99.10	712.80
5/22/2013	771.40		77.60	734.00	109.20	702.30	116.40	695.10	99.10	712.70
5/30/2013	771.00	0.00	77.60	734.00	109.20	702.40	116.40	695.00	99.20	712.70
6/6/2013	770.80		77.50	734.00	109.10	702.40	116.50	695.00	99.20	712.70
6/13/2013	769.30		77.50	734.00	109.10	702.40	116.50	695.00	99.20	712.70
6/20/2013	769.00		77.50	734.00	109.10	702.40	116.50	695.00	99.20	712.70
6/26/2013	768.60	0.00	77.50	734.00	109.10	702.40	116.50	695.00	99.20	712.70
7/2/2013	767.80		77.50	734.00	109.10	702.40	116.50	694.90	99.20	712.70
7/10/2013	766.90		77.50	734.00	109.10	702.40	116.60	694.80	99.20	712.70
7/16/2013	766.50		77.50	734.00	109.10	702.40	116.70	694.80	99.20	712.70
7/29/2013	765.20	0.00	77.50	734.00	109.10	702.40	116.70	695.00	99.20	712.70
8/5/2013	764.50		77.50	734.00	109.10	702.40	116.50	694.60	99.20	712.70
8/12/2013	763.80		77.50	734.00	109.10	702.40	116.90	694.60	99.20	712.70
8/19/2013	763.30		77.50	734.00	109.10	702.40	116.90	694.60	99.20	712.50
8/26/2013	762.40	0.00	77.50	734.00	109.10	702.40	116.90	694.60	99.40	712.70
9/2/2013	761.50		77.50	734.00	109.10	702.20	116.90	694.30	99.20	712.40
9/10/2013	760.70		77.50	734.00	109.30	702.20	117.20	694.30	99.50	712.40
9/17/2013	759.90		77.50	734.00	109.30	702.20	117.20	694.30	99.50	712.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
9/23/2013	759.40		77.50	734.00	109.30	702.20	117.20	694.30	99.50	712.70
9/30/2013	758.70	0.00	77.50	734.00	109.30	702.10	117.20	694.20	99.20	712.70
10/7/2013	758.30		77.50	734.00	109.40	702.10	117.30	694.20	99.20	712.70
10/14/2013	757.60		77.50	734.00	109.40	702.10	117.30	694.00	99.20	712.70
10/21/2013	756.60		77.50	734.00	109.40	702.10	117.50	694.00	99.20	712.70
10/28/2013	756.00	0.00	77.50	734.00	109.40	702.10	117.50	693.60	99.20	712.70
11/4/2013	755.70		77.50	734.00	109.40	702.10	117.90	693.70	99.20	712.70
11/11/2013	756.10		77.50	734.00	109.40	702.10	117.80	693.60	99.20	712.70
11/18/2013	755.70		77.50	734.00	109.40	702.10	117.90	693.60	99.20	712.60
11/25/2013	755.40	0.55	77.50	734.00	109.40	702.10	117.90	693.60	99.30	712.70
12/2/2013	755.30		77.50	734.00	109.40	702.10	117.90	693.50	99.20	712.30
12/10/2013	755.40		77.50	734.00	109.40	702.10	118.00	693.50	99.60	712.50
12/16/2013	755.20		77.50	734.00	109.40	702.10	118.00	693.30	99.40	712.60
12/23/2013	755.20		77.50	734.00	109.40	702.10	118.20	693.30	99.30	712.70
12/30/2013	754.80	0.83	77.50	734.00	109.40	702.30	118.20	693.30	99.20	711.70
1/6/2014	754.50		77.50	734.00	109.20	702.30	118.20	693.10	100.20	712.10
1/13/2014	755.00		77.50	734.00	109.20	702.30	118.40	693.10	99.80	712.30
1/20/2014	754.60		77.50	734.00	109.20	702.30	118.40	693.10	99.60	712.60
1/27/2014	754.30	0.00	77.50	734.00	109.20	702.30	118.40	692.90	99.30	711.60
2/3/2014	754.10		77.50	734.00	109.20	702.30	118.60	692.90	100.30	711.90
2/10/2014	754.70		77.50	734.00	109.20	702.30	118.60	692.90	100.00	712.00
2/17/2014	754.50		77.50	734.00	109.20	702.30	118.60	692.80	99.90	712.10
2/24/2014	754.20	0.83	77.50	734.00	109.20	702.30	118.70	692.70	99.80	712.10
3/3/2014	754.50		77.50	734.00	109.20	702.30	118.80	692.80	99.80	712.20
3/10/2014	755.20		77.50	734.00	109.20	702.30	118.70	692.70	99.70	712.00
3/19/2014	755.90		77.50	734.00	109.20	702.30	118.80	692.70	99.90	712.00
3/25/2014	758.80		77.50	734.00	109.20	702.30	118.80	692.70	99.90	712.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
3/29/2014	760.50		77.50	734.00	109.20	702.30	118.80	692.70	99.90	712.10
3/31/2014	761.60	1.85	77.50	734.00	109.20	702.30	118.80	692.60	99.80	712.00
4/1/2014	762.00		77.50	734.00	109.20	702.30	118.90	692.60	99.90	712.00
4/8/2014	764.70		77.50	734.00	109.20	702.30	118.90	692.60	99.90	712.00
4/15/2014	766.60		77.50	734.00	109.20	702.30	118.90	692.40	99.90	712.00
4/22/2014	768.60		77.50	734.00	109.20	702.30	119.10	692.40	99.90	712.00
4/29/2014	770.40	0.88	77.50	734.00	109.20	702.30	119.10	692.30	99.90	712.00
5/5/2014	769.70		77.50	734.00	109.20	702.30	119.20	692.30	99.90	712.00
5/12/2014	769.00		77.50	734.00	109.20	702.30	119.20	692.30	99.90	712.00
5/19/2014	768.00		77.50	734.00	109.20	702.30	119.20	692.30	99.90	712.00
5/26/2014	767.10	0.00	77.50	734.00	109.20	702.30	119.20	692.20	99.90	712.00
6/2/2014	766.20		77.50	734.00	109.20	702.30	119.30	692.20	99.90	712.00
6/9/2014	765.40		77.50	734.00	109.20	702.30	119.30	692.20	99.90	712.00
6/16/2014	764.30		77.50	734.00	109.20	702.30	119.30	692.20	99.90	712.00
6/23/2014	763.10		77.50	734.00	109.20	702.30	119.30	692.20	99.90	712.00
6/27/2014	762.30	0.00	77.50	734.00	109.20	702.30	119.30	692.10	99.90	712.00
7/7/2014	760.90		77.50	734.00	109.20	702.30	119.40	692.10	99.90	712.00
7/14/2014	760.00		77.50	734.00	109.20	702.30	119.40	692.10	99.90	712.00
7/21/2014	759.10		77.50	734.00	109.20	702.30	119.40	692.10	99.90	712.00
7/28/2014	757.90	0.06	77.50	734.00	109.20	702.30	119.40	692.00	99.90	712.00
8/4/2014	756.80		77.50	734.00	109.20	702.30	119.50	692.00	99.90	712.00
8/11/2014	755.60		77.50	734.00	109.20	702.30	119.50	692.00	99.90	712.00
8/18/2014	754.70		77.50	734.00	109.20	702.30	119.50	692.00	99.90	712.00
8/25/2014	753.30	0.05	77.50	734.00	109.20	702.30	119.50	691.90	99.90	712.00
9/2/2014	751.60		77.50	734.00	109.20	702.30	119.60	691.90	99.90	712.00
9/8/2014	750.50		77.50	734.00	109.20	702.30	119.60	691.90	99.90	712.00
9/15/2014	749.40		77.50	734.00	109.20	702.30	119.60	691.90	99.90	712.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
9/22/2014	748.30		77.50	734.00	109.20	702.30	119.60	691.90	99.90	712.00
9/29/2014	747.20	0.00	77.50	734.00	109.20	702.30	119.60	691.70	99.90	712.00
10/6/2014	745.70		77.50	734.00	109.20	702.30	119.80	691.70	99.90	712.00
10/13/2014	746.70		77.50	734.00	109.20	702.30	119.80	691.60	99.90	711.90
10/20/2014	746.60		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
10/27/2014	745.80	0.00	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/3/2014	746.40		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/10/2014	747.20		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/17/2014	747.70		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90
11/24/2014	748.80	0.61	77.50	734.00	109.20	702.30	119.90	691.40	100.00	711.90
12/1/2014	748.30		77.50	734.00	109.20	702.30	120.10	691.40	100.00	711.90
12/8/2014	749.10		77.50	734.00	109.20	702.30	120.10	691.40	100.00	711.90
12/15/2014	749.80		77.50	734.00	109.20	702.30	120.10	691.30	100.00	711.90
12/29/2014	750.90	5.37	77.50	734.00	109.20	702.30	120.20	691.30	100.00	711.90
1/5/2015	751.30		77.50	734.00	109.20	702.30	120.20	691.20	100.00	712.00
1/12/2015	751.80		77.50	734.00	109.20	702.30	120.30	691.20	99.90	712.00
1/19/2015	752.30		77.50	734.00	109.20	702.30	120.30	691.20	99.90	712.00
1/26/2015	752.60	1.48	77.50	734.00	109.20	702.30	120.30	691.30	99.90	711.90
2/4/2015	753.10		77.50	734.00	109.20	702.30	120.20	691.20	100.00	711.90
2/9/2015	753.30		77.50	734.00	109.20	702.30	120.30	691.10	100.00	711.90
2/16/2015	753.80		77.50	734.00	109.20	702.30	120.40	691.10	100.00	711.90
2/23/2015	753.90	0.44	77.50	734.00	109.20	702.30	120.40	691.10	100.00	711.90
3/2/2015	754.50		77.50	734.00	109.20	702.30	120.40	691.10	100.00	711.90
3/9/2015	755.00		77.50	734.00	109.20	702.30	120.40	691.10	100.00	711.90
3/16/2015	755.30		77.50	734.00	109.20	702.30	120.40	691.10	100.00	711.90
3/23/2015	755.50		77.50	734.00	109.20	702.30	120.40	691.00	100.00	711.90
3/30/2015	755.70	0.57	77.50	734.00	109.20	702.30	120.50	691.00	100.00	711.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
4/6/2015	755.60		77.50	734.00	109.20	702.30	120.50	690.90	100.00	711.90
4/13/2015	755.80		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
4/20/2015	755.90		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
4/27/2015	755.90	0.20	77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
5/4/2015	755.60		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
5/11/2015	755.30		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
5/18/2015	755.20		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
5/26/2015	755.30	0.95	77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
6/1/2015	755.20		77.50	734.00	109.20	702.30	120.60	690.90	100.00	711.90
6/8/2015	755.10		77.50	734.00	109.20	702.30	120.60	690.80	100.00	711.90
6/15/2015	755.20		77.50	734.00	109.20	702.30	120.70	690.70	100.00	711.90
6/22/2015	754.80		77.50	734.00	109.20	702.30	120.80	690.70	100.00	711.90
6/29/2015	754.20	0.00	77.50	734.00	109.20	702.30	120.80	690.60	100.00	711.90
7/10/2015	753.30		77.50	734.00	109.20	702.30	120.90	690.60	100.00	711.90
7/15/2015	753.00		77.50	734.00	109.20	702.30	120.90	690.60	100.00	711.90
7/21/2015	752.80		77.50	734.00	109.20	702.30	120.90	690.60	100.00	711.60
7/28/2015	752.40	0.00	77.50	734.00	109.20	702.30	120.90	690.60	100.30	711.60
8/4/2015	752.00		77.50	734.00	109.20	702.30	120.90	690.60	100.30	711.60
8/11/2015	751.60		77.50	734.00	109.20	702.30	120.90	690.60	100.30	711.60
8/18/2015	751.10		77.50	734.00	109.20	702.30	120.90	690.60	100.30	711.90
8/25/2015	750.60	0.00	77.50	734.00	109.20	702.30	120.90	690.60	100.00	711.90
9/1/2015	749.90		77.50	734.00	109.20	702.30	120.90	690.50	100.00	711.90
9/8/2015	749.00		77.50	734.00	109.20	702.30	121.00	690.50	100.00	711.90
9/15/2015	748.70		77.50	734.00	109.20	702.30	121.00	690.50	100.00	711.90
9/22/2015	748.40		77.50	734.00	109.20	702.30	121.00	690.50	100.00	711.90
9/29/2015	748.00	2.27	77.50	733.90	109.20	702.20	121.10	690.30	100.00	711.70
10/6/2015	747.60		77.50	733.90	109.20	702.20	121.10	690.20	100.00	711.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
10/13/2015	747.10		77.50	733.90	109.20	702.20	121.20	690.20	100.00	711.70
10/20/2015	746.70		77.50	733.90	109.20	702.20	121.20	690.30	100.00	711.70
10/27/2015	746.00	0.56	77.50	733.90	109.20	702.20	121.10	690.10	100.00	711.70
11/4/2015	745.70		77.50	733.90	109.20	702.20	121.30	690.10	100.00	711.70
11/11/2015	745.20		77.50	733.90	109.20	702.20	121.30	690.00	100.00	711.90
11/18/2015	744.80		77.50	733.90	109.20	702.20	121.40	690.00	99.80	711.70
11/25/2015	744.20	0.12	77.50	733.90	109.20	702.20	121.30	690.00	100.00	711.70
12/1/2015	743.70		77.50	733.90	109.20	702.20	121.40	690.00	100.00	711.70
12/8/2015	743.10		77.50	733.90	109.20	702.20	121.40	689.90	100.00	711.70
12/15/2015	742.70		77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
12/22/2015	742.30		77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
12/29/2015	742.10	1.29	77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
1/5/2016	741.70		77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
1/12/2016	742.30		77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
1/19/2016	742.00		77.50	733.90	109.20	702.20	121.50	689.60	100.00	711.70
1/26/2016	741.80	3.51	77.50	733.90	109.20	702.20	121.60	689.90	100.00	711.70
2/2/2016	741.40		77.50	733.90	109.20	702.20	121.50	689.90	100.00	711.70
2/9/2016	741.00		77.50	733.90	109.20	702.20	121.70	689.80	100.00	711.70
2/16/2016	740.50		77.50	733.90	109.20	702.20	121.60	689.70	100.00	711.70
2/23/2016	740.20	0.35	77.50	733.90	109.20	702.20	121.70	689.70	100.00	711.70
3/1/2016	739.70		77.50	733.90	109.20	702.20	121.70	689.70	100.00	711.70
3/9/2016	739.40		77.50	733.90	109.20	702.20	121.70	689.70	100.00	711.70
3/17/2016	739.30		77.50	733.90	109.20	702.20	121.70	689.60	100.00	711.70
3/23/2016	739.10		77.50	733.90	109.20	702.20	121.80	689.60	100.00	711.70
3/30/2016	738.50	1.59	77.50	733.90	109.20	702.20	121.80	689.60	100.00	711.70
4/6/2016	738.00		77.50	733.90	109.20	702.20	121.80	689.50	100.00	713.70
4/13/2016	737.60		77.50	733.90	109.20	702.20	121.90	689.50	98.00	713.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
4/20/2016	736.90		77.50	733.90	109.20	702.20	121.90	689.50	98.00	713.70
4/27/2016	736.20	0.07	77.50	733.90	109.20	702.20	121.90	689.90	98.00	711.70
5/4/2016	736.90		77.50	733.90	109.20	702.20	121.80	689.90	100.00	711.70
5/11/2016	737.50		77.50	733.90	109.20	702.20	122.00	689.90	100.00	711.70
5/18/2016	737.00		77.50	733.90	109.20	702.20	122.00	689.90	100.00	711.70
5/25/2016	737.60	1.21	77.50	733.90	109.20	702.20	122.00	689.90	100.00	711.70
6/1/2016	737.60		77.50	733.90	109.20	702.20	122.00	689.90	100.00	711.70
6/8/2016	737.90		77.50	733.90	109.20	702.20	122.00	689.80	100.00	711.70
6/15/2016	738.00		77.30	733.90	109.20	702.20	122.00	689.80	100.00	711.70
6/23/2016	737.70		77.30	733.90	109.20	702.20	122.00	689.70	100.00	711.70
6/29/2016	737.50	0.00	77.30	733.90	109.20	702.20	122.00	689.30	100.00	711.70
7/6/2016	737.40		77.50	733.90	109.20	702.20	122.10	689.30	100.00	711.70
7/15/2016	737.40		77.50	733.90	109.20	702.20	122.10	689.30	100.00	711.80
7/20/2016	737.10		77.50	733.90	109.20	702.20	122.10	689.30	99.80	711.80
7/27/2016	736.70	0.00	77.50	733.90	109.20	702.20	122.10	689.10	99.90	711.70
8/3/2016	736.90		77.50	733.90	109.20	702.20	122.30	689.10	100.00	711.70
8/10/2016	737.10		77.50	733.90	109.20	702.20	122.30	689.10	100.00	711.40
8/17/2016	736.60		77.50	733.90	109.20	702.20	122.30	689.10	100.30	711.40
8/24/2016	736.70		77.50	733.90	109.20	702.20	122.30	689.10	100.30	711.40
8/30/2016	736.70	0.00	77.50	733.90	109.20	702.20	122.30	689.10	100.30	711.40
9/7/2016	737.30		77.50	733.90	109.20	702.20	122.30	689.00	100.30	711.60
9/14/2016	737.90		77.50	733.90	109.20	702.20	122.40	689.00	100.10	711.60
9/21/2016	738.80		77.50	733.90	109.20	702.20	122.40	689.00	100.10	711.60
9/28/2016	739.60	0.00	77.50	733.90	109.20	702.20	122.40	689.10	100.10	711.60
10/5/2016	739.50		77.50	733.90	109.20	702.20	122.30	688.90	100.10	711.60
10/12/2016	739.20		77.50	733.90	109.20	702.20	122.50	688.90	100.10	711.60
10/19/2016	739.30		77.50	733.90	109.20	702.20	122.50	688.90	100.10	711.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
10/26/2016	740.00	0.89	77.50	733.90	109.20	702.20	122.50	688.90	100.10	711.60
11/2/2016	741.80		77.50	733.90	109.20	702.20	122.50	688.80	100.10	711.60
11/9/2016	741.80		77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
11/16/2016	744.00		77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
11/23/2016	747.60		77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
11/29/2016	750.90	1.62	77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
12/7/2016	753.40		77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
12/14/2016	753.70		77.50	733.90	109.20	702.20	122.60	688.80	100.10	711.60
12/21/2016	755.60		77.50	733.90	109.20	702.20	122.60	688.70	100.10	711.70
12/28/2016	757.00	4.37	77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
1/4/2017	757.50		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
1/13/2017	758.10		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
1/18/2017	758.30		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
1/25/2017	758.00	6.73	77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
2/1/2017	769.10		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
2/8/2017	769.70		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
2/15/2017	770.10		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
2/22/2017	771.80	4.17	77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
3/1/2017	771.90		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
3/8/2017	771.20		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
3/15/2017	770.60		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
3/22/2017	769.60		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
3/29/2017	768.40	0.13	77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.70
4/5/2017	769.10		77.50	733.90	109.20	702.20	122.70	688.60	100.00	711.70
4/12/2017	768.00		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
4/19/2017	767.90		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
4/26/2017	767.70	0.07	77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
5/1/2017	767.40		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
5/10/2017	766.50		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
5/17/2017	765.90		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
5/24/2017	765.70		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
5/30/2017	765.50	0.36	77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
6/7/2017	765.30		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
6/14/2017	765.10		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
6/21/2017	764.80		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
6/28/2017	764.70	0.05	77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
7/5/2017	764.20		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
7/12/2017	763.80		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
7/19/2017	763.20		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
7/26/2017	762.70	0.00	77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
8/2/2017	761.90		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
8/9/2017	761.60		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
8/16/2017	761.20		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
8/23/2017	760.60		77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
8/30/2017	759.80	0.05	77.50	733.90	109.20	702.20	122.80	688.60	100.00	711.70
9/6/2017	758.90		77.50	733.90	109.20	702.20	122.80	688.70	100.00	711.70
9/13/2017	758.70		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.40
9/20/2017	758.30		77.50	733.90	109.20	702.20	122.70	688.70	100.30	711.40
9/27/2017	757.80	0.00	77.50	733.90	109.20	702.20	122.70	688.70	100.30	711.40
10/4/2017	757.60		77.50	733.90	109.20	702.20	122.70	688.70	100.30	711.40
10/10/2017	757.10		77.50	733.90	109.20	702.20	122.70	688.70	100.30	711.50
10/18/2017	756.90		77.50	733.90	109.20	702.20	122.70	688.70	100.20	711.60
10/25/2017	756.60	0.00	77.50	733.90	109.20	702.20	122.70	688.70	100.10	711.60
11/1/2017	755.70		77.50	733.90	109.20	702.20	122.70	688.70	100.10	711.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
11/8/2017	755.30		77.50	733.90	109.20	702.20	122.70	688.70	100.10	711.60
11/15/2017	755.10	0.29	77.50	733.90	109.20	702.20	122.70	688.70	100.10	711.50
12/6/2017	754.20		77.50	733.90	109.20	702.20	122.70	688.70	100.20	711.50
12/13/2017	753.90		77.50	733.90	109.20	702.20	122.70	688.70	100.20	711.70
12/20/2017	753.60		77.50	733.90	109.20	702.20	122.70	688.70	100.00	711.60
12/27/2017	753.30	0.00	77.50	733.90	109.20	702.20	122.70	688.70	100.10	711.60
1/3/2018	753.10		77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58
1/10/2018	753.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68
1/17/2018	753.00		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68
1/24/2018	752.80		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68
1/30/2018	752.60	1.79	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68
2/7/2018	752.30		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68
2/14/2018	751.80		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68
2/21/2018	750.20		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68
2/27/2018	750.30	0.60	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68
3/7/2018	750.20		77.50	733.91	109.30	702.13	122.80	688.58	100.00	711.68
3/15/2018	750.10		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58
3/21/2018	750.80		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58
3/28/2018	750.90	0.56	77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58
4/4/2018	751.70		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58
4/11/2018	751.70		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48
4/18/2018	750.80		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
4/25/2018	749.50	0.05	77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
5/1/2018	750.50		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
5/8/2018	749.40		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
5/15/2018	748.30		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48
5/22/2018	747.00		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
5/29/2018	745.60	0.32	77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
6/6/2018	744.70		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38
6/13/2018	743.70		77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38
6/20/2018	742.50		77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38
6/27/2018	741.20	0.00	77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38
7/5/2018	739.80		77.50	733.91	109.30	702.13	123.10	688.28	100.30	711.38
7/11/2018	738.70		77.50	733.91	109.30	702.13	123.10	688.28	100.30	711.38
7/18/2018	738.50		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
7/25/2018	738.40	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
8/1/2018	738.10		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
8/8/2018	737.80		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
8/15/2018	737.70		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
8/22/2018	737.90		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
8/29/2018	737.90	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38
9/5/2018	738.00		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48
9/12/2018	737.90		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48
9/19/2018	737.60		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48
9/26/2018	737.30	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48
10/3/2018	737.50		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48
10/10/2018	737.70		77.50	733.91	109.30	702.13	123.30	688.08	100.20	711.48
10/17/2018	738.20		77.50	733.91	109.30	702.13	123.30	688.08	100.20	711.48
10/24/2018	738.60		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48
10/30/2018	738.50	0.69	77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48
11/7/2018	738.40		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48
11/16/2018	737.70		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48
11/21/2018	737.50		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48
11/28/2018	737.20	1.66	77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
12/5/2018	737.60		75.50	735.91	109.30	702.13	123.40	687.98	100.10	711.58
12/12/2018	737.70		75.50	735.91	109.30	702.13	123.40	687.98	100.10	711.58
12/19/2018	737.60		75.50	735.91	109.30	702.13	123.60	687.78	100.10	711.58
12/27/2018	737.40	2.05	75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48
1/2/2019	737.10		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48
1/9/2019	738.40		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48
1/16/2019	738.50		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48
1/23/2019	740.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58
1/30/2019	740.70	5.18	75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58
2/6/2019	745.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58
2/13/2019	747.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58
2/20/2019	764.70		75.50	735.91	109.30	702.13	123.50	687.88	100.10	711.58
2/27/2019	766.80	8.65	75.50	735.91	109.20	702.23	123.60	687.78	100.10	711.58
3/6/2019	769.50		75.50	735.91	109.20	702.23	123.50	687.88	100.10	711.58
3/13/2019	772.00		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48
3/20/2019	773.30		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48
3/27/2019	774.30	2.49	75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48
4/3/2019	774.50		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48
4/10/2019	774.70		75.50	735.91	109.20	702.23	123.40	687.98	100.30	711.38
1/17/2019	774.80		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
4/24/2019	774.90	0.10	75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
5/1/2019	774.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
5/8/2019	774.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
5/15/2019	774.60		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
5/22/2019	773.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
5/29/2019	773.10	1.07	75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
6/5/2019	772.10		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
6/12/2019	770.80		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48
6/19/2019	769.50		75.50	735.91	109.20	702.23	123.40	687.98	99.90	711.78
6/26/2019	768.10	0.03	75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/3/2019	766.70		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/5/2019	766.20		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/10/2019	765.10		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/17/2019	763.40		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/24/2019	761.70		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
7/30/2019	760.50	0.00	75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
8/7/2019	759.60		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
8/14/2019	758.80		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18
8/21/2019	757.80		75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18
8/28/2019	757.20	0.00	75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18
9/4/2019	756.70		75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18
9/11/2019	756.30		75.50	735.91	109.20	702.23	123.10	688.28	99.40	712.28
9/18/2019	755.90		75.50	735.91	109.20	702.23	123.00	688.38	99.40	712.28
9/25/2019	755.20	0.00	75.50	735.91	109.20	702.23	122.90	688.48	99.40	712.28
10/2/2019	754.60		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28
10/10/2019	754.30		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28
10/16/2019	753.90		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28
10/26/2019	752.70		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28
10/30/2019	752.30	0.00	77.60	733.81	109.20	702.23	122.80	688.58	99.40	712.28
11/6/2019	751.70		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
11/13/2019	751.30		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
11/20/2019	751.20		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
11/27/2019	751.10	2.38	77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
12/4/2019	751.20		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
12/11/2019	751.40		77.50	733.91	109.20	702.23	122.80	688.58	99.40	712.28
12/18/2019	751.30		77.50	733.91	109.20	702.23	122.60	688.78	99.40	712.28
12/26/2019	751.60	4.61	77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
1/2/2020	751.80		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28
1/8/2020	751.90		77.50	733.91	109.20	702.23	122.50	688.88	100.20	711.48
1/15/2020	751.90		77.50	733.91	109.20	702.23	122.50	688.88	9.00	
1/22/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
1/29/2020	752.00	0.15	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
2/5/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
2/12/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
2/19/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38
2/26/2020	751.90	0.53	77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38
3/4/2020	751.80		77.50	733.91	109.20	702.23	122.40	688.98	100.00	711.68
3/11/2020	751.80		77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98
3/18/2020	752.10		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
3/25/2020	753.30	4.31	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
4/1/2020	753.60		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
4/8/2020	755.80		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
4/15/2020	760.50		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
4/22/2020	761.50		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
4/29/2020	761.90	3.88	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
5/6/2020	761.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
5/13/2020	762.10		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
5/20/2020	762.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
5/27/2020	762.10	0.03	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
6/3/2020	761.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
6/10/2020	761.80		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18
6/19/2020	760.10		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18
6/24/2020	759.00	0.00	77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18
7/1/2020	757.30		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18
7/8/2020	755.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
7/15/2020	754.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
7/22/2020	752.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
7/29/2020	751.40	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
8/5/2020	749.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
8/12/2020	749.60		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
8/19/2020	749.10		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
8/26/2020	747.90	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/2/2020	746.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/9/2020	745.70		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/16/2020	745.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/19/2020	747.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/23/2020	749.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
9/30/2020	743.50	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
10/7/2020	742.70		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
10/14/2020	741.60		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
10/21/2020	740.30		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
10/28/2020	739.90	0.00	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
11/4/2020	739.40		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
11/10/2020	739.20		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
11/18/2020	739.00		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
11/25/2020	738.80	0.54	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
12/2/2020	738.50		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
12/9/2020	738.20		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
12/16/2020	738.00		77.50	733.91	109.20	702.23	122.40	688.98	100.00	711.68
12/23/2020	738.20	1.72	77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38
1/6/2021	742.10		77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38
1/13/2021	742.10		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
1/20/2021	741.80		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
1/27/2021	741.70	1.36	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
2/3/2021	741.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
2/10/2021	741.60		77.50	733.91	109.20	702.23	122.30	689.08	99.60	712.08
2/17/2021	741.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18
2/24/2021	741.00	0.14	77.50	733.91	109.20	702.23	122.30	689.08	99.60	712.08
3/3/2021	740.80		77.50	733.91	109.20	702.23	122.30	689.08	100.10	711.58
3/10/2021	740.60		77.50	733.91	109.20	702.23	122.40	688.98	99.90	711.78
3/17/2021	741.00		77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98
3/24/2021	740.90		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
3/31/2021	740.60	1.53	77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
4/7/2021	740.80		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
4/14/2021	740.70		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
4/21/2021	741.30		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
4/28/2021	742.00	0.00	77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98
5/5/2021	741.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
5/15/2021	740.80		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08
5/19/2021	740.40		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18
5/26/2021	740.10	0.05	77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18
6/2/2021	739.60		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18
6/9/2021	738.30		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18
6/16/2021	737.20		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18
6/23/2021	736.00		77.40	734.01	109.20	702.23	122.50	688.88	99.50	712.18

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675	
Total Depth (ft)			78.0		110.0		141.5		100.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U		R-1M		R-1L		R-2U	
6/30/2021	736.40	0.00	77.40	734.01	109.20	702.23	122.50	688.88	99.50	712.18
7/7/2021	737.00		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18
7/14/2021	737.40		77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18
7/21/2021	737.80		77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18
7/28/2021	736.40	0.05	77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18
8/4/2021	736.30		77.40	734.01	109.20	702.23	122.70	688.68	99.50	712.18
8/11/2021	735.90		77.30	734.11	109.20	702.23	122.70	688.68	99.50	712.18
8/18/2021	735.90		77.20	734.21	109.20	702.23	122.70	688.68	99.50	712.18
8/25/2021	735.70	0.00	77.00	734.41	109.20	702.23	122.70	688.68	99.60	712.08
9/1/2021	735.60		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18
9/8/2021	736.00		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18
9/15/2021	737.00		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18
9/22/2021	737.50		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18
9/29/2021	738.00	0.00	76.90	734.51	109.20	702.23	122.70	688.68	99.50	712.18
10/6/2021	738.20		76.90	734.51	109.20	702.23	122.70	688.68	100.30	711.38
10/13/2021	738.70		77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38
10/22/2021	738.80		77.60	733.81	109.20	702.23	122.70	688.68	100.30	711.38
10/27/2021	739.00	0.46	77.40	734.01	109.20	702.23	122.70	688.68	100.30	711.38
11/3/2021	739.60		77.40	734.01	109.20	702.23	122.90	688.48	100.30	711.38
11/10/2021	740.20		77.40	734.01	109.20	702.23	122.90	688.48	100.30	711.38
11/17/2021	740.20		77.50	733.91	109.20	702.23	122.90	688.48	100.30	711.38
11/24/2021	739.90	0.00	77.50	733.91	109.20	702.23	122.90	688.48	100.30	711.38
12/1/2021	739.50		77.50	733.91	109.20	702.23	123.00	688.38	100.30	711.38
12/8/2021	739.40		77.50	733.91	109.20	702.23	123.00	688.38	100.30	711.38
12/15/2021	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.70	711.98
12/22/2021	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08
12/29/2021	743.00	7.24	77.50	733.91	109.20	702.23	123.00	688.38	100.20	711.48

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
1/10/2007	749.70		140.30		144.90		74.50		71.20	
1/19/2007	749.40		140.30		144.90		74.50		71.20	
1/29/2007	749.60		140.30		144.90		74.50		71.20	
2/7/2007	750.00		140.30		144.90		74.50		71.20	
2/16/2007	750.20		140.30		144.90		74.50		71.20	
2/26/2007	750.60		140.30		144.90		74.50		71.20	
3/6/2007	751.70		140.30		144.90		74.50		71.20	
3/17/2007	755.10		140.30		144.90		74.50		71.20	
3/25/2007	756.30		140.30		145.00		74.50		71.20	
4/6/2007	760.00		140.30		145.00		74.50		71.20	
4/16/2007	762.90		140.30		145.00		74.50		71.10	
4/27/2007	767.10		140.30		145.00		74.50		71.10	
5/9/2007	766.80		140.30		145.00		74.50		71.20	
5/19/2007	764.80		140.30		145.00		74.50		71.20	
5/29/2007	762.80		140.30		145.00		74.50		71.10	
6/8/2007	761.20		140.30		145.00		74.50		71.10	
6/18/2007	759.90		140.30		145.00		74.50		71.10	
6/28/2007	758.10		140.30		145.00		74.50		71.10	
7/10/2007	756.70		140.30		145.00		74.50		71.10	
7/19/2007	755.80		140.30		145.00		74.50		71.10	
7/30/2007	754.90		140.30		145.00		74.50		71.10	
8/11/2007	754.40		140.30		145.00		74.50		71.10	
8/22/2007	753.80		140.30		145.00		74.50		71.10	
8/30/2007	753.30		140.30		145.00		74.50		71.10	
9/7/2007	753.20		140.30		145.00		74.50		71.10	
9/18/2007	753.00		140.30		145.00		74.50		71.10	
9/27/2007	753.60		140.30		145.00		74.50		71.10	

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
10/8/2007	754.90		140.30		145.00		74.50		71.10	
10/17/2007	756.20		140.30		145.00		74.50		71.10	
10/30/2007	757.80		140.30		145.00		74.50		71.10	
11/9/2007	759.60		140.30		145.00		74.50		71.10	
11/19/2007	763.60		140.30		145.00		74.50		71.10	
11/28/2007	766.50		140.30		145.00		74.50		71.10	
12/8/2007	768.70		140.30		145.00		74.50		71.10	
12/18/2007	768.50		140.30		145.00		74.50		71.00	
12/28/2007	769.30		140.30		145.00		74.50		70.50	
1/9/2008	770.50		140.30	671.60	145.00	666.90	74.50	737.70	70.80	741.40
1/19/2008	770.30		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
1/29/2008	772.70		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
2/9/2008	774.10		140.30	671.60	145.00	666.90	74.50	737.70	70.80	741.40
2/19/2008	774.40		140.30	671.60	145.00	666.90	74.50	737.70	70.80	741.40
2/27/2008	775.00		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
3/7/2008	775.00		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
3/18/2008	775.00		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
3/29/2008	774.90		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
4/10/2008	775.00		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
4/20/2008	774.80		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
5/5/2008	774.65		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
5/13/2008	773.90		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
5/21/2008	772.85		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
5/31/2008	772.10		140.30	671.60	145.00	666.90	74.50	737.70	70.70	741.50
6/9/2008	771.20		140.30	671.60	145.00	666.90	74.50	737.70	70.80	741.40
6/18/2008	770.50		140.30	671.60	144.90	667.00	74.50	737.70	70.80	741.40
6/26/2008	769.60		140.30	671.60	144.80	667.10	74.50	737.70	70.80	741.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
7/8/2008	768.10		140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
7/19/2008	766.60		140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
7/29/2008	765.50	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
8/4/2008	764.60	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
8/9/2008	764.25	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
8/19/2008	763.20	0.00	140.00	671.90	144.70	667.20	74.50	737.70	70.80	741.40
8/28/2008	762.25	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
9/6/2008	761.00	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
9/17/2008	760.10	0.00	140.00	671.90	144.80	667.00	74.50	737.70	70.80	741.40
9/29/2008	759.20	0.00	140.00	671.90	144.50	667.40	74.50	737.70	70.80	741.40
10/8/2008	759.00	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
10/18/2008	758.90	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
10/29/2008	761.30	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
11/8/2008	764.30	0.00	140.00	671.90	144.80	667.00	74.50	737.70	70.80	741.40
11/17/2008	766.90	0.00	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
11/25/2008	769.90	1.71	140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
12/4/2008	773.90		140.00	671.90	144.80	667.10	74.50	737.70	70.80	741.40
12/13/2008	777.30		140.00	671.90	144.90	667.00	74.50	737.70	70.50	741.70
12/21/2008	779.10		140.00	671.90	144.90	667.00	74.50	737.70	70.20	742.00
12/30/2008	779.40	3.99	140.00	671.90	144.90	667.00	74.50	737.70	69.80	742.20
1/8/2009	779.30		140.00	671.90	144.80	667.10	74.50	737.70	70.00	742.20
1/19/2009	778.50		140.00	671.90	144.70	667.20	74.50	737.70	69.90	742.30
1/29/2009	778.30	0.38	140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
2/12/2009	779.80		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
2/19/2009	781.30		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
2/27/2009	782.20	4.33	140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
3/10/2009	782.70		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
3/20/2009	782.40		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
3/25/2009	782.20	0.43	140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
4/4/2009	785.30		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
4/13/2009	788.50		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
4/21/2009	790.50		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
4/26/2009	791.20	0.00	140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
5/4/2009	791.30		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
5/13/2009	790.60		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
5/21/2009	789.90		140.00	671.90	144.70	667.20	74.50	737.70	69.80	742.40
5/30/2009	789.30	0.00	140.00	671.90	144.70	667.20	74.50	737.70	69.90	742.30
6/8/2009	788.70		140.00	671.90	144.70	667.20	74.50	737.70	69.90	742.30
6/17/2009	788.20		140.00	671.90	144.70	667.20	74.50	737.70	69.90	742.30
6/27/2009	787.60	0.00	140.00	671.90	144.70	667.20	74.50	737.70	69.90	742.30
7/7/2009	786.80		140.00	671.90	144.50	667.40	74.50	737.70	69.90	742.30
7/15/2009	786.10		140.00	671.90	143.40	668.50	74.50	737.70	69.90	742.30
7/22/2009	785.50		140.00	671.90	143.40	668.50	74.50	737.70	69.90	742.30
7/30/2009	784.70	0.00	140.00	671.90	143.40	668.50	74.50	737.70	69.90	742.30
8/8/2009	783.90		140.00	671.90	143.50	668.40	74.50	737.70	69.90	742.30
8/15/2009	783.30		140.00	671.90	143.60	668.30	74.50	737.70	69.90	742.30
8/26/2009	782.30	0.00	140.00	671.90	143.60	668.30	74.50	737.70	69.90	742.30
9/5/2009	781.50		140.00	671.90	143.70	668.20	74.50	737.70	69.90	742.30
9/12/2009	780.80		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
9/19/2009	780.20		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
9/28/2009	779.50	0.00	140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.00
10/8/2009	778.50		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
10/19/2009	777.80		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
10/30/2009	776.80	0.24	140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
11/9/2009	776.10		140.00	671.90	143.90	668.00	74.50	737.70	69.90	742.30
11/20/2009	775.40		140.00	671.90	144.00	667.90	74.50	737.70	69.90	742.30
11/28/2009	774.90	0.00	140.00	671.90	143.00	668.90	74.50	737.70	69.90	742.30
12/9/2009	774.60		140.00	671.90	143.00	668.90	74.50	737.70	69.90	742.30
12/18/2009	774.60		140.00	671.90	143.00	668.90	74.50	737.70	69.90	742.30
12/29/2009	774.30	3.56	140.00	671.90	143.00	668.90	74.50	737.70	69.90	742.30
1/9/2010	773.90		140.00	671.90	143.10	668.80	74.50	737.70	69.90	742.30
1/17/2010	773.60		140.00	671.90	143.20	668.70	74.50	737.70	69.90	742.30
1/28/2010	779.90	7.84	140.00	671.90	143.00	668.90	74.50	737.70	69.90	742.30
2/4/2010	780.15		140.00	671.90	143.90	666.00	74.50	737.70	69.90	742.30
2/12/2010	783.40		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
2/19/2010	784.00		140.00	671.90	143.80	668.10	74.50	737.70	69.90	742.30
2/26/2010	784.45	2.69	140.00	671.90	143.80	666.10	74.50	737.70	69.90	742.30
3/6/2010	785.60		140.00	671.90	143.70	666.20	74.50	737.70	69.70	742.50
3/15/2010	786.20		140.00	671.90	143.70	668.20	74.50	737.70	69.50	742.70
3/16/2010	786.30		140.00	671.90	143.70	668.20	74.50	737.70	69.50	742.70
3/24/2010	786.20	2.03	140.00	671.90	143.70	668.20	74.50	737.70	69.50	742.70
4/2/2010	785.80		140.00	671.90	143.60	668.30	74.50	737.70	69.00	743.20
4/4/2010	785.80		140.00	671.90	143.60	668.30	74.50	737.70	69.00	743.20
4/12/2010	787.40		140.00	671.90	143.50	668.40	74.50	737.70	69.00	743.20
4/20/2010	790.10		140.00	671.90	143.50	668.40	74.50	737.70	69.00	743.20
4/28/2010	792.60	1.19	140.00	671.90	143.40	668.50	74.50	737.70	69.00	743.20
5/6/2010	792.90		140.00	671.90	143.20	668.80	74.50	737.70	69.00	743.20
5/14/2010	792.40		140.00	671.90	143.10	668.90	74.50	737.70	69.00	743.10
5/21/2010	792.10		140.00	671.90	143.00	669.00	74.50	737.70	69.10	743.10
5/29/2010	791.70	0.00	140.00	671.90	142.90	669.00	74.50	737.70	69.10	743.10
6/8/2010	791.00		140.00	671.90	142.90	669.10	74.50	737.70	69.10	743.10

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
6/15/2010	790.60		140.00	671.90	142.80	669.10	74.50	737.70	69.10	743.10
6/22/2010	790.10		140.00	671.90	142.80	669.10	74.50	737.70	69.10	743.10
6/29/2010	789.70	0.00	140.00	671.90	142.80	668.00	74.50	737.70	69.10	743.10
7/8/2010	789.20		140.00	671.90	143.00	668.90	74.50	737.70	69.10	743.10
7/16/2010	788.70		140.00	671.90	143.00	668.80	74.50	737.70	69.10	743.10
7/23/2010	788.30		140.00	671.90	143.10	668.80	74.50	737.70	69.10	743.10
7/31/2010	787.70	0.00	140.00	671.90	143.10	668.90	74.50	737.70	69.10	743.10
8/7/2010	787.30		140.00	671.90	143.00	668.80	74.50	737.70	69.10	743.10
8/15/2010	786.70		140.00	671.90	143.10	668.80	74.50	737.70	69.10	743.10
8/23/2010	786.10		140.00	671.90	143.10	668.80	74.50	737.70	69.10	743.00
8/29/2010	785.60	0.00	140.00	671.90	143.10	668.80	74.50	737.70	69.10	743.10
9/8/2010	784.90		140.00	671.90	143.10	668.80	74.50	737.70	69.10	743.10
9/17/2010	784.20		140.00	671.90	143.10	668.70	74.50	737.70	69.10	743.10
9/27/2010	783.50	0.00	140.00	671.90	143.20	668.70	74.50	737.70	69.10	743.10
10/8/2010	782.80		140.00	671.90	143.20	668.70	74.50	737.70	69.10	743.10
10/18/2010	782.20		140.00	671.90	143.20	668.00	74.50	737.70	69.10	743.10
10/28/2010	782.00	1.76	140.00	671.90	143.30	668.60	74.50	737.70	69.10	743.10
11/4/2010	781.70		140.00	671.90	143.30	668.60	74.50	737.70	69.10	743.10
11/15/2010	781.10		140.00	671.90	143.30	668.60	74.50	737.70	69.10	743.10
11/26/2010	780.80	1.33	140.00	671.90	143.30	668.60	74.50	737.70	69.10	743.10
12/8/2010	780.50		140.00	671.90	143.30	668.60	74.50	737.70	69.10	743.10
12/16/2010	780.40		140.00	672.00	143.30	669.00	74.50	736.80	69.10	749.90
12/30/2010	792.60	11.72	139.90	671.90	142.90	668.80	75.40	737.60	62.80	749.90
1/6/2011	792.20		140.00	671.90	143.10	668.80	74.60	737.60	62.30	749.90
1/7/2011	792.20		140.00	671.90	143.10	668.80	74.60	737.60	62.30	749.90
1/17/2011	792.00		139.00	672.80	143.10	668.80	74.60	737.60	62.30	749.90
1/27/2011	791.80	1.11	139.10	672.90	143.10	668.80	74.60	737.60	62.30	750.10

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
2/5/2011	791.80		139.00	672.90	143.10	668.80	74.60	737.60	62.10	750.10
2/15/2011	791.80		139.00	672.90	143.10	668.80	74.60	737.60	62.10	750.20
2/23/2011	792.20	2.87	139.00	672.90	143.10	668.80	74.60	737.60	62.00	750.20
3/8/2011	792.10		139.00	672.90	143.10	668.80	74.60	737.60	62.00	750.20
3/19/2011	791.80		139.00	672.90	143.10	668.80	74.60	737.40	62.00	750.80
3/30/2011	791.50	3.23	139.00	672.90	143.10	668.90	74.80	737.40	61.40	750.90
4/7/2011	792.10		139.00	672.90	143.00	668.20	74.80	737.40	61.30	751.50
4/16/2011	792.50		139.00	672.90	143.70	668.20	74.80	737.40	60.70	751.80
4/23/2011	792.60		139.70	672.00	143.40	669.10	74.70	737.60	60.40	752.20
4/30/2011	792.60	0.00	139.90	672.00	142.80	669.10	74.60	737.60	60.00	752.20
5/9/2011	792.40		139.90	672.00	142.80	669.10	74.60	737.60	60.00	752.20
5/16/2011	792.40		139.90	672.00	142.80	669.10	74.60	737.60	60.00	752.30
5/24/2011	792.40		139.90	672.00	142.80	669.10	74.60	737.60	59.90	752.30
5/31/2011	792.40	0.81	139.90	671.90	142.80	669.10	74.60	737.60	59.90	752.30
6/8/2011	792.10		140.00	671.90	142.80	669.10	74.60	737.60	59.90	752.30
6/16/2011	791.90		140.00	671.90	142.80	669.10	74.60	737.60	59.90	752.30
6/23/2011	791.80		140.00	671.90	142.80	669.10	74.60	737.60	59.90	752.30
6/30/2011	791.60	0.00	140.00	671.90	142.80	669.00	74.60	737.60	60.00	752.30
7/8/2011	791.40		140.00	671.90	142.90	669.00	74.60	737.60	59.90	752.30
7/14/2011	791.20		140.00	671.90	142.90	669.00	74.60	737.60	59.90	752.00
7/21/2011	790.90		140.00	671.00	142.90	669.00	74.60	737.60	59.90	752.30
7/30/2011	790.40	0.00	140.00	671.90	142.90	669.00	74.60	737.60	59.90	752.30
8/9/2011	789.90		140.00	671.90	142.90	668.00	74.60	737.60	59.90	752.30
8/15/2011	789.70		140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.30
8/24/2011	789.00		140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.30
9/1/2011	788.65	0.00	140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.30
9/9/2011	787.90		140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
9/16/2011	787.30		140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.30
9/23/2011	787.00		140.00	671.90	143.00	668.90	74.60	737.60	59.90	752.00
9/29/2011	786.80	0.08	140.00	671.90	143.00	668.80	74.60	737.60	59.90	752.30
10/8/2011	786.60		140.00	671.00	143.10	668.60	74.60	737.60	59.90	752.30
10/15/2011	786.40		140.00	671.90	143.30	668.50	74.60	737.60	59.90	752.30
10/26/2011	786.00	1.29	140.00	671.90	143.40	668.50	74.60	737.60	59.90	752.30
11/5/2011	785.50		140.00	671.90	143.40	668.50	74.60	737.60	59.90	752.30
11/14/2011	785.40		140.00	671.90	143.40	668.50	74.60	737.60	59.90	753.40
11/22/2011	785.10		140.00	671.90	143.40	668.50	74.60	737.60	58.80	752.90
11/30/2011	785.10	1.79	140.00	671.90	143.50	668.40	74.60	737.60	59.30	752.80
12/9/2011	784.80		140.00	671.80	143.50	668.40	74.60	737.60	59.40	752.70
12/17/2011	784.60		140.10	671.80	143.50	668.60	74.60	737.60	59.50	752.60
12/22/2011	784.50		140.10	671.70	143.30	668.60	74.60	737.60	59.60	752.40
12/30/2011	784.30	0.45	140.20	671.70	143.30	668.40	74.60	737.60	59.80	752.40
1/7/2012	784.00		140.20	671.80	143.50	668.40	74.60	737.60	59.70	752.60
1/14/2012	783.80		140.10	671.80	143.50	668.30	74.60	737.60	59.60	752.50
1/21/2012	783.60		140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50
1/28/2012	783.60	1.72	140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50
2/7/2012	783.40		140.10	671.80	143.60	668.20	74.60	737.60	59.70	752.50
2/15/2012	783.40		140.10	671.80	143.70	668.30	74.60	737.60	59.60	752.50
2/25/2012	783.40	0.62	140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.60
3/5/2012	783.20		140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50
3/15/2012	782.70		140.10	671.80	143.60	668.20	74.60	737.60	59.70	752.50
3/22/2012	782.60	2.01	140.10	671.80	143.70	668.30	74.60	737.60	59.70	752.00
4/3/2012	782.50		140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50
4/12/2012	782.10		140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50
4/21/2012	782.00		140.10	671.80	143.60	668.30	74.60	737.60	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
4/23/2012	781.90	1.32	140.10	671.80	143.60	668.30	74.60	737.60	59.70	
5/1/2012	781.70		140.10	671.80	143.90	668.30	74.60	737.60	59.70	
5/7/2012	781.30		140.10	671.80	143.60	668.00	74.60	737.60	59.70	
5/21/2012	780.90		140.10	671.60	143.60	668.00	74.60	737.60	59.70	752.30
5/25/2012	780.00	0.06	140.10	671.60	143.70	668.00	4.30	807.70	59.70	752.30
6/4/2012	779.60		140.10	671.60	143.70	668.00	4.30	807.70	59.70	752.30
6/13/2012	778.70		140.10	671.60	143.70	668.00	4.30	807.70	59.70	752.30
6/20/2012	778.00		140.10	671.60	143.70	668.00	4.30	807.70	59.70	752.30
6/25/2012	777.30	0.00	140.10	671.60	143.70	667.90	4.30	807.70	59.70	752.30
7/4/2012	776.30		140.10	671.60	143.80	667.70	4.30	807.70	59.70	752.30
7/13/2012	775.70		140.10	671.60	144.00	667.00	4.30	807.70	59.70	752.30
7/20/2012	775.20		140.10	671.60	144.00	667.60	4.30	807.70	59.70	752.30
7/30/2012	775.00	0.10	140.10	671.60	144.00	667.60	4.30	807.80	59.70	752.30
8/8/2012	773.00		140.10	671.60	144.10	667.60	4.20	807.80	59.70	752.30
8/9/2012	772.90		140.10	671.50	144.10	667.60	4.20	807.80	59.70	752.30
8/18/2012	772.00		140.20	671.50	144.10	661.60	4.20	807.80	59.70	752.30
8/27/2012	771.10		140.20	671.50	144.10	667.60	4.20	807.80	59.70	752.30
8/29/2012	770.90	0.00	140.20	671.50	144.10	667.60	4.20	807.80	59.70	752.30
9/8/2012	769.80		140.20	671.50	144.10	667.60	4.20	807.80	59.70	752.30
9/15/2012	768.90		140.20	671.50	144.10	667.60	4.20	807.80	59.70	752.00
9/29/2012	767.80	0.00	140.20	671.40	144.10	667.50	4.20	807.80	59.70	752.30
10/11/2012	766.80		140.30	671.40	144.20	667.40	4.20	807.80	59.70	752.30
10/23/2012	765.90	1.10	140.30	671.40	144.30	667.40	4.20	807.80	59.70	752.30
11/12/2012	764.60		140.30	671.40	144.30	667.00	4.20	807.80	59.70	752.30
11/23/2012	764.30	0.16	140.30	671.40	144.30	667.40	4.20	807.80	59.70	752.30
12/12/2012	764.50	2.46	140.30	671.60	144.30	667.60	4.20	807.80	59.70	752.50
12/27/2012	769.10		140.30	671.60	144.30	667.60	4.20	808.00	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
1/16/2013	770.40		140.30	671.60	144.30	667.50	4.20	808.00	59.70	752.50
1/28/2013	769.90	1.82	140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
2/15/2013	769.60		140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
2/26/2013	769.40	0.68	140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
3/13/2013	768.80		140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
3/26/2013	768.60	0.66	140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
4/10/2013	771.10		140.30	671.60	144.40	667.50	4.20	808.00	59.70	752.50
4/30/2013	772.20	0.00	140.30	671.70	144.40	667.30	4.20	807.60	59.70	752.50
5/9/2013	771.90		140.20	671.70	144.60	667.30	4.60	738.40	59.70	752.50
5/15/2013	771.70		140.20	671.70	144.60	667.30	73.80	738.40	59.70	752.50
5/22/2013	771.40		140.20	671.70	144.60	667.30	73.80	738.40	59.70	752.50
5/30/2013	771.00	0.00	140.20	671.60	144.60	667.30	73.80	738.30	59.70	752.40
6/6/2013	770.80		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
6/13/2013	769.30		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
6/20/2013	769.00		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
6/26/2013	768.60	0.00	140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
7/2/2013	767.80		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
7/10/2013	766.90		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
7/16/2013	766.50		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
7/29/2013	765.20	0.00	140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
8/5/2013	764.50		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
8/12/2013	763.80		140.30	671.60	144.60	667.00	73.90	738.30	59.80	752.40
8/19/2013	763.30		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
8/26/2013	762.40	0.00	140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
9/2/2013	761.50		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
9/10/2013	760.70		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
9/17/2013	759.90		140.30	671.60	144.60	667.00	73.90	738.30	59.80	752.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
9/23/2013	759.40		140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.40
9/30/2013	758.70	0.00	140.30	671.60	144.60	667.30	73.90	738.30	59.80	752.50
10/7/2013	758.30		140.30	671.60	144.60	667.30	73.90	738.30	59.70	752.50
10/14/2013	757.60		140.30	671.60	144.60	667.30	73.90	738.30	59.70	752.50
10/21/2013	756.60		140.30	671.60	144.60	667.30	73.90	738.30	59.70	752.50
10/28/2013	756.00	0.00	140.30	671.60	144.60	667.20	73.90	738.30	59.70	752.50
11/4/2013	755.70		140.30	671.50	144.70	667.20	73.90	738.30	59.70	752.50
11/11/2013	756.10		140.40	671.50	144.70	667.20	73.90	738.30	59.70	752.50
11/18/2013	755.70		140.40	671.60	144.70	667.20	73.90	738.30	59.70	752.50
11/25/2013	755.40	0.55	140.30	671.60	144.70	667.10	73.90	738.30	59.70	752.50
12/2/2013	755.30		140.30	671.60	144.80	667.00	73.90	738.30	59.70	752.50
12/10/2013	755.40		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
12/16/2013	755.20		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
12/23/2013	755.20		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
12/30/2013	754.80	0.83	140.30	671.50	144.90	666.90	73.90	738.30	59.70	752.50
1/6/2014	754.50		140.40	671.50	145.00	666.90	73.90	738.30	59.70	752.50
1/13/2014	755.00		140.40	671.50	145.00	666.90	73.90	738.30	59.70	752.50
1/20/2014	754.60		140.40	671.50	145.00	666.90	73.90	738.30	59.70	752.50
1/27/2014	754.30	0.00	140.40	671.60	145.00	666.90	73.90	738.30	59.70	752.50
2/3/2014	754.10		140.30	671.70	145.00	666.90	73.90	738.30	59.70	752.50
2/10/2014	754.70		140.20	671.70	145.00	666.90	73.90	738.30	59.70	752.50
2/17/2014	754.50		140.20	671.50	145.00	666.90	73.90	738.30	59.70	752.50
2/24/2014	754.20	0.83	140.40	671.50	145.00	666.90	73.90	738.30	59.70	752.50
3/3/2014	754.50		140.40	671.60	145.00	666.90	73.90	738.30	59.70	752.50
3/10/2014	755.20		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
3/19/2014	755.90		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.00
3/25/2014	758.80		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
3/29/2014	760.50		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
3/31/2014	761.60	1.85	140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
4/1/2014	762.00		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
4/8/2014	764.70		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
4/15/2014	766.60		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
4/22/2014	768.60		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.00
4/29/2014	770.40	0.88	140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
5/5/2014	769.70		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
5/12/2014	769.00		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
5/19/2014	768.00		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
5/26/2014	767.10	0.00	140.30	671.60	145.00	667.00	73.90	738.30	59.70	752.50
6/2/2014	766.20		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
6/9/2014	765.40		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
6/16/2014	764.30		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
6/23/2014	763.10		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
6/27/2014	762.30	0.00	140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
7/7/2014	760.90		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
7/14/2014	760.00		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
7/21/2014	759.10		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
7/28/2014	757.90	0.06	140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
8/4/2014	756.80		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
8/11/2014	755.60		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
8/18/2014	754.70		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
8/25/2014	753.30	0.05	140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
9/2/2014	751.60		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
9/8/2014	750.50		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
9/15/2014	749.40		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
9/22/2014	748.30		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
9/29/2014	747.20	0.00	140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
10/6/2014	745.70		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
10/13/2014	746.70		140.30	671.60	144.90	667.00	73.90	738.30	59.70	752.50
10/20/2014	746.60		140.30	671.60	144.90	666.90	73.90	738.30	59.70	752.50
10/27/2014	745.80	0.00	140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
11/3/2014	746.40		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
11/10/2014	747.20		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
11/17/2014	747.70		140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
11/24/2014	748.80	0.61	140.30	671.60	145.00	666.90	73.90	738.30	59.70	752.50
12/1/2014	748.30		140.30	671.90	145.00	666.90	73.90	738.30	59.70	752.50
12/8/2014	749.10		140.00	671.90	145.00	666.00	73.90	738.30	59.70	752.50
12/15/2014	749.80		140.00	671.50	145.10	666.70	73.90	738.30	59.70	752.50
12/29/2014	750.90	5.37	140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
1/5/2015	751.30		140.40	671.70	145.20	666.70	73.90	738.30	59.70	752.50
1/12/2015	751.80		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
1/19/2015	752.30		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
1/26/2015	752.60	1.48	140.20	671.50	145.20	666.70	73.90	738.30	59.70	752.50
2/4/2015	753.10		140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
2/9/2015	753.30		140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
2/16/2015	753.80		140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
2/23/2015	753.90	0.44	140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
3/2/2015	754.50		140.40	671.50	145.20	666.70	73.90	738.30	59.70	752.50
3/9/2015	755.00		140.40	671.70	145.20	666.70	73.90	738.30	59.70	752.50
3/16/2015	755.30		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
3/23/2015	755.50		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
3/30/2015	755.70	0.57	140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
4/6/2015	755.60		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.40
4/13/2015	755.80		140.20	671.70	145.20	666.70	73.90	738.30	59.80	752.40
4/20/2015	755.90		140.20	671.70	145.20	666.70	73.90	738.30	59.80	752.40
4/27/2015	755.90	0.20	140.20	671.70	145.20	666.70	73.90	738.30	59.80	752.50
5/4/2015	755.60		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
5/11/2015	755.30		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.40
5/18/2015	755.20		140.20	671.70	145.20	666.70	73.90	738.30	59.80	752.40
5/26/2015	755.30	0.95	140.20	671.70	145.20	666.70	73.90	738.30	59.80	752.50
6/1/2015	755.20		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
6/8/2015	755.10		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
6/15/2015	755.20		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
6/22/2015	754.80		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
6/29/2015	754.20	0.00	140.20	671.80	145.20	666.40	73.90	738.30	59.70	752.50
7/10/2015	753.30		140.10	671.80	145.50	666.70	73.90	738.30	59.70	752.50
7/15/2015	753.00		140.10	671.50	145.20	666.90	73.90	738.30	59.70	752.50
7/21/2015	752.80		140.40	671.20	145.00	666.70	73.90	738.30	59.70	752.50
7/28/2015	752.40	0.00	140.70	671.20	145.20	666.70	73.90	738.30	59.70	752.50
8/4/2015	752.00		140.70	671.60	145.20	666.70	73.90	738.30	59.70	752.50
8/11/2015	751.60		140.30	671.60	145.20	666.70	73.90	738.30	59.70	752.50
8/18/2015	751.10		140.30	671.60	145.20	666.70	73.90	738.30	59.70	752.50
8/25/2015	750.60	0.00	140.30	671.60	145.20	666.70	73.90	738.30	59.70	752.50
9/1/2015	749.90		140.30	671.70	145.20	666.70	73.90	738.30	59.70	752.50
9/8/2015	749.00		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
9/15/2015	748.70		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
9/22/2015	748.40		140.20	671.70	145.20	666.70	73.90	738.30	59.70	752.50
9/29/2015	748.00	2.27	140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
10/6/2015	747.60		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
10/13/2015	747.10		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
10/20/2015	746.70		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
10/27/2015	746.00	0.56	140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
11/4/2015	745.70		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
11/11/2015	745.20		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
11/18/2015	744.80		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
11/25/2015	744.20	0.12	140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
12/1/2015	743.70		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
12/8/2015	743.10		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
12/15/2015	742.70		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
12/22/2015	742.30		140.20	671.50	145.20	666.50	73.90	738.10	59.70	752.50
12/29/2015	742.10	1.29	140.20	671.50	145.20	666.40	73.90	738.10	59.70	752.50
1/5/2016	741.70		140.20	671.50	145.30	666.30	73.90	738.10	59.70	752.50
1/12/2016	742.30		140.20	671.50	145.40	666.40	73.90	738.10	59.70	752.50
1/19/2016	742.00		140.20	671.50	145.30	666.30	73.90	738.10	59.70	752.50
1/26/2016	741.80	3.51	140.20	671.50	145.40	666.30	73.90	738.10	59.70	752.50
2/2/2016	741.40		140.20	671.50	145.40	666.30	73.90	738.10	59.70	752.40
2/9/2016	741.00		140.20	671.50	145.40	666.30	73.90	738.10	59.80	752.40
2/16/2016	740.50		140.20	671.50	145.40	666.30	73.90	738.10	59.80	752.40
2/23/2016	740.20	0.35	140.20	671.50	145.40	666.30	73.90	738.10	59.80	752.40
3/1/2016	739.70		140.20	671.50	145.40	666.30	73.90	738.10	59.80	752.40
3/9/2016	739.40		140.20	671.50	145.40	666.30	73.90	738.10	59.80	752.40
3/17/2016	739.30		140.20	671.50	145.40	666.20	73.90	738.10	59.80	752.40
3/23/2016	739.10		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
3/30/2016	738.50	1.59	140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
4/6/2016	738.00		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
4/13/2016	737.60		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
4/20/2016	736.90		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
4/27/2016	736.20	0.07	140.20	671.50	145.50	666.40	73.90	738.10	59.80	752.50
5/4/2016	736.90		140.20	671.50	145.50	666.40	73.90	738.10	59.80	752.50
5/11/2016	737.50		140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.50
5/18/2016	737.00		140.20	671.50	145.50	666.40	73.90	738.10	59.80	752.50
5/25/2016	737.60	1.21	140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.50
6/1/2016	737.60		140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.50
6/8/2016	737.90		140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.40
6/15/2016	738.00		140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.40
6/23/2016	737.70		140.20	671.50	145.50	666.30	73.90	738.10	59.80	752.40
6/29/2016	737.50	0.00	140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
7/6/2016	737.40		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
7/15/2016	737.40		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
7/20/2016	737.10		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
7/27/2016	736.70	0.00	140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
8/3/2016	736.90		140.20	671.50	145.50	666.20	73.90	738.10	59.80	752.40
8/10/2016	737.10		140.20	671.40	145.50	666.20	73.90	738.10	59.80	752.40
8/17/2016	736.60		140.30	671.40	145.50	666.20	73.90	738.10	59.80	752.40
8/24/2016	736.70		140.30	671.20	145.50	666.20	73.90	738.10	59.80	752.40
8/30/2016	736.70	0.00	140.50	671.40	145.50	666.20	73.90	738.10	59.80	752.40
9/7/2016	737.30		140.30	671.40	145.50	666.20	73.90	738.10	59.80	752.40
9/14/2016	737.90		140.30	671.40	145.50	666.20	73.90	738.10	59.80	752.40
9/21/2016	738.80		140.30	671.40	145.50	666.20	73.90	738.10	59.80	752.40
9/28/2016	739.60	0.00	140.30	671.40	145.50	666.20	73.90	738.10	59.80	752.40
10/5/2016	739.50		140.30	671.40	145.50	666.10	73.90	738.10	59.80	752.40
10/12/2016	739.20		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
10/19/2016	739.30		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
10/26/2016	740.00	0.89	140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
11/2/2016	741.80		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
11/9/2016	741.80		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
11/16/2016	744.00		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
11/23/2016	747.60		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
11/29/2016	750.90	1.62	140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
12/7/2016	753.40		140.30	671.40	145.60	666.10	73.90	738.10	59.80	752.40
12/14/2016	753.70		140.30	671.70	145.60	666.20	73.90	738.10	59.80	752.40
12/21/2016	755.60		140.00	672.10	145.50	666.20	73.90	738.10	59.80	752.40
12/28/2016	757.00	4.37	139.60	672.10	145.50	666.20	73.90	738.10	59.80	752.40
1/4/2017	757.50		139.60	671.60	145.50	666.20	73.90	738.10	59.80	752.40
1/13/2017	758.10		140.10	672.10	145.50	666.20	73.90	738.10	59.80	752.40
1/18/2017	758.30		139.60	673.30	145.50	666.10	73.90	738.10	59.80	752.40
1/25/2017	758.00	6.73	138.40	673.30	145.60	666.10	73.90	738.10	59.80	752.40
2/1/2017	769.10		138.40	671.40	145.60	666.30	73.90	738.10	59.80	752.40
2/8/2017	769.70		140.30	671.40	145.40	666.30	73.90	738.10	59.80	752.40
2/15/2017	770.10		140.30	671.40	145.50	666.50	73.90	738.10	59.80	752.40
2/22/2017	771.80	4.17	140.30	671.40	145.20	666.50	73.90	738.10	59.80	752.40
3/1/2017	771.90		140.30	671.40	145.20	666.50	73.90	738.10	59.80	752.40
3/8/2017	771.20		140.30	671.50	145.20	666.50	73.90	738.10	59.80	752.40
3/15/2017	770.60		140.20	671.60	145.20	666.50	73.90	738.10	59.80	752.40
3/22/2017	769.60		140.10	671.50	145.20	666.50	73.90	738.10	59.80	752.40
3/29/2017	768.40	0.13	140.20	671.50	145.20	666.50	73.90	738.10	59.80	752.40
4/5/2017	769.10		140.20	671.50	145.20	666.50	73.90	738.10	59.80	752.40
4/12/2017	768.00		140.20	671.50	145.20	666.70	73.90	738.10	59.80	752.40
4/19/2017	767.90		140.20	671.50	145.00	666.60	73.90	738.10	59.80	752.40
4/26/2017	767.70	0.07	140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
5/1/2017	767.40		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
5/10/2017	766.50		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
5/17/2017	765.90		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
5/24/2017	765.70		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
5/30/2017	765.50	0.36	140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
6/7/2017	765.30		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
6/14/2017	765.10		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
6/21/2017	764.80		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
6/28/2017	764.70	0.05	140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
7/5/2017	764.20		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
7/12/2017	763.80		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
7/19/2017	763.20		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
7/26/2017	762.70	0.00	140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
8/2/2017	761.90		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
8/9/2017	761.60		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
8/16/2017	761.20		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
8/23/2017	760.60		140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
8/30/2017	759.80	0.05	140.20	671.50	145.10	666.60	73.90	738.10	59.80	752.40
9/6/2017	758.90		140.20	671.60	145.10	666.60	73.90	738.10	59.80	752.30
9/13/2017	758.70		140.10	671.50	145.10	666.00	73.90	738.10	59.90	752.30
9/20/2017	758.30		140.20	671.50	145.10	666.60	73.90	738.10	59.90	752.30
9/27/2017	757.80	0.00	140.20	671.50	145.10	666.60	73.90	738.10	59.90	752.30
10/4/2017	757.60		140.20	671.50	145.10	666.60	73.90	738.10	59.90	752.30
10/10/2017	757.10		140.20	671.50	145.10	666.50	73.90	738.10	59.90	752.30
10/18/2017	756.90		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
10/25/2017	756.60	0.00	140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
11/1/2017	755.70		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
11/8/2017	755.30		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
11/15/2017	755.10	0.29	140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
12/6/2017	754.20		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
12/13/2017	753.90		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
12/20/2017	753.60		140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
12/27/2017	753.30	0.00	140.20	671.50	145.20	666.50	73.90	738.10	59.90	752.30
1/3/2018	753.10		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
1/10/2018	753.10		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
1/17/2018	753.00		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
1/24/2018	752.80		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
1/30/2018	752.60	1.79	140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
2/7/2018	752.30		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
2/14/2018	751.80		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
2/21/2018	750.20		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
2/27/2018	750.30	0.60	140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
3/7/2018	750.20		140.20	671.48	145.20	666.48	73.90	738.10	59.90	752.13
3/15/2018	750.10		140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
3/21/2018	750.80		140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
3/28/2018	750.90	0.56	140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
4/4/2018	751.70		140.30	671.38	145.30	666.38	73.70	738.30	59.90	752.13
4/11/2018	751.70		140.30	671.38	145.30	666.38	73.70	738.30	59.90	752.13
4/18/2018	750.80		140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
4/25/2018	749.50	0.05	140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
5/1/2018	750.50		140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
5/8/2018	749.40		140.30	671.38	145.30	666.38	73.90	738.10	59.90	752.13
5/15/2018	748.30		140.10	671.58	145.30	666.38	73.90	738.10	60.00	752.03
5/22/2018	747.00		140.10	671.58	145.30	666.38	73.90	738.10	60.00	752.03

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
5/29/2018	745.60	0.32	140.20	671.48	145.40	666.28	73.90	738.10	60.00	752.03
6/6/2018	744.70		140.20	671.48	145.40	666.28	73.90	738.10	60.00	752.03
6/13/2018	743.70		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
6/20/2018	742.50		140.20	671.48	145.40	666.28	73.90	738.10	60.00	752.03
6/27/2018	741.20	0.00	140.20	671.48	145.40	666.28	73.90	738.10	60.00	752.03
7/5/2018	739.80		140.20	671.48	145.50	666.18	73.90	738.10	60.00	752.03
7/11/2018	738.70		140.20	671.48	145.50	666.18	73.90	738.10	60.00	752.03
7/18/2018	738.50		140.20	671.48	145.50	666.18	73.90	738.10	60.00	752.03
7/25/2018	738.40	0.00	140.20	671.48	145.50	666.18	73.90	738.10	60.00	752.03
8/1/2018	738.10		140.20	671.48	145.50	666.18	73.90	738.10	60.00	752.03
8/8/2018	737.80		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
8/15/2018	737.70		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
8/22/2018	737.90		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
8/29/2018	737.90	0.00	140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
9/5/2018	738.00		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
9/12/2018	737.90		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
9/19/2018	737.60		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
9/26/2018	737.30	0.00	140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
10/3/2018	737.50		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
10/10/2018	737.70		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
10/17/2018	738.20		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
10/24/2018	738.60		140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
10/30/2018	738.50	0.69	140.30	671.38	145.50	666.18	73.90	738.10	60.00	752.03
11/7/2018	738.40		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
11/16/2018	737.70		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
11/21/2018	737.50		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
11/28/2018	737.20	1.66	140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
12/5/2018	737.60		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
12/12/2018	737.70		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
12/19/2018	737.60		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
12/27/2018	737.40	2.05	140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
1/2/2019	737.10		140.30	671.38	145.60	666.08	73.90	738.10	60.00	752.03
1/9/2019	738.40		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
1/16/2019	738.50		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
1/23/2019	740.80		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
1/30/2019	740.70	5.18	140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
2/6/2019	745.80		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
2/13/2019	747.80		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
2/20/2019	764.70		140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
2/27/2019	766.80	8.65	140.30	671.38	145.70	665.98	73.90	738.10	60.00	752.03
3/6/2019	769.50		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
3/13/2019	772.00		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
3/20/2019	773.30		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
3/27/2019	774.30	2.49	140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
4/3/2019	774.50		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
4/10/2019	774.70		140.30	671.38	145.40	666.28	73.90	738.10	60.00	752.03
1/17/2019	774.80		140.30	671.38	145.20	666.48	73.90	738.10	60.00	752.03
4/24/2019	774.90	0.10	140.30	671.38	145.20	666.48	73.90	738.10	60.00	752.03
5/1/2019	774.90		140.30	671.38	145.20	666.48	73.90	738.10	60.00	752.03
5/8/2019	774.90		140.30	671.38	145.20	666.48	73.90	738.10	60.00	752.03
5/15/2019	774.60		140.30	671.38	145.10	666.58	73.90	738.10	60.00	752.03
5/22/2019	773.90		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
5/29/2019	773.10	1.07	140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
6/5/2019	772.10		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
6/12/2019	770.80		140.20	671.48	145.10	666.58	73.90	738.10	60.00	752.03
6/19/2019	769.50		140.20	671.48	145.10	666.58	73.90	738.10	60.00	752.03
6/26/2019	768.10	0.03	140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
7/3/2019	766.70		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
7/5/2019	766.20		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
7/10/2019	765.10		140.30	671.38	145.00	666.68	73.90	738.10	60.00	752.03
7/17/2019	763.40		140.30	671.38	145.00	666.68	73.90	738.10	60.00	752.03
7/24/2019	761.70		140.30	671.38	145.00	666.68	73.90	738.10	60.00	752.03
7/30/2019	760.50	0.00	140.30	671.38	145.00	666.68	73.90	738.10	60.00	752.03
8/7/2019	759.60		140.30	671.38	145.00	666.68	73.90	738.10	60.00	752.03
8/14/2019	758.80		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
8/21/2019	757.80		140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
8/28/2019	757.20	0.00	140.20	671.48	145.00	666.68	73.90	738.10	60.00	752.03
9/4/2019	756.70		140.20	671.48	145.00	666.68	75.90	736.10	60.00	752.03
9/11/2019	756.30		140.20	671.48	145.00	666.68	75.90	736.10	60.00	752.03
9/18/2019	755.90		140.20	671.48	145.00	666.68	75.90	736.10	60.00	752.03
9/25/2019	755.20	0.00	140.30	671.38	145.00	666.68	75.90	736.10	60.00	752.03
10/2/2019	754.60		140.30	671.38	145.00	666.68	75.90	736.10	60.00	752.03
10/10/2019	754.30		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
10/16/2019	753.90		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
10/26/2019	752.70		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
10/30/2019	752.30	0.00	140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
11/6/2019	751.70		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
11/13/2019	751.30		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
11/20/2019	751.20		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
11/27/2019	751.10	2.38	140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
12/4/2019	751.20		140.30	671.38	145.10	666.58	75.90	736.10	60.00	752.03
12/11/2019	751.40		140.20	671.48	145.20	666.48	75.90	736.10	60.00	752.03
12/18/2019	751.30		140.20	671.48	145.20	666.48	75.90	736.10	60.00	752.03
12/26/2019	751.60	4.61	140.20	671.48	145.20	666.48	75.90	736.10	60.00	752.03
1/2/2020	751.80		140.20	671.48	145.20	666.48	75.90	736.10	60.00	752.03
1/8/2020	751.90		140.20	671.48	145.20	666.48	75.90	736.10	60.00	752.03
1/15/2020	751.90		140.30	671.38	145.30	666.38	75.90	736.10	60.00	752.03
1/22/2020	751.90		140.10	671.58	145.30	666.38	75.90	736.10	60.00	752.03
1/29/2020	752.00	0.15	140.20	671.48	145.30	666.38	75.90	736.10	60.00	752.03
2/5/2020	751.90		140.20	671.48	145.30	666.38	75.90	736.10	60.00	752.03
2/12/2020	751.90		140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
2/19/2020	751.90		140.30	671.38	145.30	666.38	75.90	736.10	60.10	751.93
2/26/2020	751.90	0.53	140.30	671.38	145.30	666.38	75.90	736.10	60.10	751.93
3/4/2020	751.80		140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
3/11/2020	751.80		140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
3/18/2020	752.10		140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
3/25/2020	753.30	4.31	140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
4/1/2020	753.60		140.20	671.48	145.30	666.38	75.90	736.10	60.10	751.93
4/8/2020	755.80		140.30	671.38	145.30	666.38	75.90	736.10	60.10	751.93
4/15/2020	760.50		140.30	671.38	145.20	666.48	75.90	736.10	60.10	751.93
4/22/2020	761.50		140.20	671.48	145.20	666.48	75.90	736.10	60.10	751.93
4/29/2020	761.90	3.88	140.20	671.48	145.20	666.48	75.90	736.10	60.10	751.93
5/6/2020	761.20		140.20	671.48	145.20	666.48	75.90	736.10	60.10	751.93
5/13/2020	762.10		140.10	671.58	145.20	666.48	75.90	736.10	60.10	751.93
5/20/2020	762.20		140.10	671.58	145.20	666.48	75.90	736.10	60.10	751.93
5/27/2020	762.10	0.03	140.10	671.58	145.20	666.48	75.90	736.10	60.10	751.93
6/3/2020	761.90		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
6/10/2020	761.80		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
6/19/2020	760.10		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
6/24/2020	759.00	0.00	140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
7/1/2020	757.30		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
7/8/2020	755.80		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
7/15/2020	754.40		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
7/22/2020	752.90		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
7/29/2020	751.40	0.00	140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
8/5/2020	749.90		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
8/12/2020	749.60		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
8/19/2020	749.10		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
8/26/2020	747.90	0.00	140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
9/2/2020	746.40		140.10	671.58	145.20	666.48	73.90	738.10	60.10	751.93
9/9/2020	745.70		140.10	671.58	145.30	666.38	73.90	738.10	60.10	751.93
9/16/2020	745.20		140.10	671.58	145.30	666.38	73.90	738.10	60.10	751.93
9/19/2020	747.80		140.10	671.58	145.30	666.38	73.90	738.10	60.10	751.93
9/23/2020	749.40		140.10	671.58	145.30	666.38	73.90	738.10	60.10	751.93
9/30/2020	743.50	0.00	140.10	671.58	145.30	666.38	73.90	738.10	60.10	751.93
10/7/2020	742.70		140.10	671.58	145.40	666.28	73.90	738.10	60.10	751.93
10/14/2020	741.60		140.10	671.58	145.40	666.28	73.90	738.10	60.10	751.93
10/21/2020	740.30		140.20	671.48	145.40	666.28	73.90	738.10	60.10	751.93
10/28/2020	739.90	0.00	140.20	671.48	145.40	666.28	73.90	738.10	60.10	751.93
11/4/2020	739.40		140.20	671.48	145.40	666.28	73.90	738.10	60.10	751.93
11/10/2020	739.20		140.20	671.48	145.40	666.28	73.90	738.10	60.20	751.83
11/18/2020	739.00		140.20	671.48	145.40	666.28	73.90	738.10	60.10	751.93
11/25/2020	738.80	0.54	140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83
12/2/2020	738.50		140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
12/9/2020	738.20		140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83
12/16/2020	738.00		140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83
12/23/2020	738.20	1.72	140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83
1/6/2021	742.10		140.10	671.58	145.50	666.18	73.90	738.10	60.20	751.83
1/13/2021	742.10		140.10	671.58	145.60	666.08	73.90	738.10	60.20	751.83
1/20/2021	741.80		140.10	671.58	145.60	666.08	73.90	738.10	60.20	751.83
1/27/2021	741.70	1.36	140.30	671.38	145.70	665.98	73.90	738.10	60.20	751.83
2/3/2021	741.80		140.30	671.38	145.70	665.98	73.90	738.10	60.20	751.83
2/10/2021	741.60		140.10	671.58	145.60	666.08	73.90	738.10	60.20	751.83
2/17/2021	741.40		140.10	671.58	145.60	666.08	73.90	738.10	60.20	751.83
2/24/2021	741.00	0.14	140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
3/3/2021	740.80		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
3/10/2021	740.60		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
3/17/2021	741.00		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
3/24/2021	740.90		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
3/31/2021	740.60	1.53	140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
4/7/2021	740.80		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
4/14/2021	740.70		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
4/21/2021	741.30		140.10	671.58	145.60	666.08	73.90	738.10	60.20	751.83
4/28/2021	742.00	0.00	140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
5/5/2021	741.90		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
5/15/2021	740.80		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
5/19/2021	740.40		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
5/26/2021	740.10	0.05	140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
6/2/2021	739.60		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
6/9/2021	738.30		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
6/16/2021	737.20		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
6/23/2021	736.00		140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-2 Middle		R-2 Lower		R-3 Upper		R-3 Middle	
Top Ref. Elev. (ft)			811.900		811.900		812.200		812.200	
Top Ref. Elev. (ft) After 5/21/2012			811.675		811.675		812.000		812.025	
Tip Elev. (ft)			670.175		654.675		737.500		690.025	
Total Depth (ft)			141.5		157.0		74.5		122.0	
Total Depth (ft) After 5/21/2012			141.5		157.0		74.5		122.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-2M		R-2L		R-3U		R-3M	
6/30/2021	736.40	0.00	140.20	671.48	145.60	666.08	73.90	738.10	60.20	751.83
7/7/2021	737.00		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
7/14/2021	737.40		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
7/21/2021	737.80		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
7/28/2021	736.40	0.05	140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
8/4/2021	736.30		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
8/11/2021	735.90		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
8/18/2021	735.90		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
8/25/2021	735.70	0.00	140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
9/1/2021	735.60		140.30	671.38	145.60	666.08	73.90	738.10	60.20	751.83
9/8/2021	736.00		140.30	671.38	145.70	665.98	73.90	738.10	60.20	751.83
9/15/2021	737.00		140.30	671.38	145.70	665.98	73.90	738.10	60.20	751.83
9/22/2021	737.50		140.20	671.48	145.70	665.98	73.90	738.10	60.20	751.83
9/29/2021	738.00	0.00	140.30	671.38	145.70	665.98	73.90	738.10	60.20	751.83
10/6/2021	738.20		140.10	671.58	145.70	665.98	73.90	738.10	60.20	751.83
10/13/2021	738.70		140.10	671.58	145.70	665.98	73.90	738.10	60.20	751.83
10/22/2021	738.80		140.10	671.58	145.70	665.98	73.90	738.10	60.20	751.83
10/27/2021	739.00	0.46	140.20	671.48	145.70	665.98	73.90	738.10	60.20	751.83
11/3/2021	739.60		140.40	671.28	145.70	665.98	73.90	738.10	60.30	751.73
11/10/2021	740.20		140.40	671.28	145.70	665.98	73.90	738.10	60.30	751.73
11/17/2021	740.20		140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
11/24/2021	739.90	0.00	140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
12/1/2021	739.50		140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
12/8/2021	739.40		140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
12/15/2021	740.00		140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
12/22/2021	740.00		140.30	671.38	145.70	665.98	73.90	738.10	60.30	751.73
12/29/2021	743.00	7.24	140.20	671.48	145.70	665.98	73.90	738.10	60.50	751.53

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
1/10/2007	749.70		135.70		52.00		88.80		74.50	
1/19/2007	749.40		135.70		52.10		88.90		74.50	
1/29/2007	749.60		135.70		52.10		88.90		74.50	
2/7/2007	750.00		135.70		52.00		88.90		74.50	
2/16/2007	750.20		135.70		52.10		88.90		74.50	
2/26/2007	750.60		135.70		52.10		89.00		74.50	
3/6/2007	751.70		135.70		52.10		89.00		74.50	
3/17/2007	755.10		135.70		52.10		89.10		74.50	
3/25/2007	756.30		135.70		52.10		89.10		74.50	
4/6/2007	760.00		135.70		52.10		89.10		74.50	
4/16/2007	762.90		135.70		52.10		89.00		74.50	
4/27/2007	767.10		135.70		52.10		89.00		74.50	
5/9/2007	766.80		135.70		52.10		89.00		74.50	
5/19/2007	764.80		135.70		52.10		89.00		74.50	
5/29/2007	762.80		135.70		52.10		89.00		74.50	
6/8/2007	761.20		135.70		52.10		89.00		74.50	
6/18/2007	759.90		135.70		52.10		89.00		74.50	
6/28/2007	758.10		135.70		52.10		89.00		74.50	
7/10/2007	756.70		135.70		52.10		89.10		74.50	
7/19/2007	755.80		135.70		52.10		89.20		74.50	
7/30/2007	754.90		135.70		52.10		89.20		74.50	
8/11/2007	754.40		135.70		52.10		89.20		74.50	
8/22/2007	753.80		135.70		52.10		89.20		74.50	
8/30/2007	753.30		135.70		52.10		89.20		74.50	
9/7/2007	753.20		135.70		52.10		89.20		74.50	
9/18/2007	753.00		135.70		52.10		89.20		74.50	
9/27/2007	753.60		135.70		52.10		89.20		74.50	

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
10/8/2007	754.90		135.70		52.10		89.20		74.50	
10/17/2007	756.20		135.70		52.20		89.20		74.50	
10/30/2007	757.80		135.70		52.30		89.10		74.50	
11/9/2007	759.60		135.70		52.10		89.20		74.50	
11/19/2007	763.60		135.70		52.20		89.10		74.50	
11/28/2007	766.50		135.70		52.40		89.00		74.50	
12/8/2007	768.70		135.70		52.10		89.00		74.50	
12/18/2007	768.50		135.70		52.20		89.00		74.50	
12/28/2007	769.30		135.70		52.40		89.00		74.50	
1/9/2008	770.50		135.70	676.50	52.30	699.80	89.00	663.10	74.50	677.90
1/19/2008	770.30		135.70	676.50	52.40	699.70	89.00	663.10	74.50	677.90
1/29/2008	772.70		135.70	676.50	52.40	699.70	89.00	663.10	74.50	677.90
2/9/2008	774.10		135.70	676.50	52.40	699.70	89.00	663.10	74.50	677.90
2/19/2008	774.40		135.70	676.50	52.20	699.90	88.90	663.20	74.50	677.90
2/27/2008	775.00		135.70	676.50	52.20	699.90	88.90	663.20	74.50	677.90
3/7/2008	775.00		135.70	676.50	52.20	699.90	88.90	663.20	74.50	677.90
3/18/2008	775.00		135.70	676.50	52.20	699.90	89.00	663.10	74.50	677.90
3/29/2008	774.90		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
4/10/2008	775.00		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
4/20/2008	774.80		135.70	676.50	52.00	700.10	88.90	663.20	74.50	677.90
5/5/2008	774.65		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
5/13/2008	773.90		135.70	676.50	52.00	700.10	88.90	663.20	74.50	677.90
5/21/2008	772.85		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
5/31/2008	772.10		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
6/9/2008	771.20		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.00
6/18/2008	770.50		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
6/26/2008	769.60		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
7/8/2008	768.10		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
7/19/2008	766.60		135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
7/29/2008	765.50	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
8/4/2008	764.60	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
8/9/2008	764.25	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
8/19/2008	763.20	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
8/28/2008	762.25	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.50	677.90
9/6/2008	761.00	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.40	678.00
9/17/2008	760.10	0.00	135.70	676.50	52.00	700.10	89.00	663.10	74.00	678.40
9/29/2008	759.20	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
10/8/2008	759.00	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
10/18/2008	758.90	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
10/29/2008	761.30	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
11/8/2008	764.30	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
11/17/2008	766.90	0.00	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
11/25/2008	769.90	1.71	135.70	676.50	52.00	700.10	89.00	663.10	73.70	678.70
12/4/2008	773.90		135.70	676.50	52.10	700.00	88.80	663.30	73.70	678.70
12/13/2008	777.30		135.70	676.50	52.10	700.00	88.80	663.30	73.70	678.70
12/21/2008	779.10		135.70	676.50	52.20	700.00	88.80	663.30	73.70	678.70
12/30/2008	779.40	3.99	135.70	676.50	52.20	699.90	88.80	663.30	73.50	678.90
1/8/2009	779.30		135.70	676.50	52.20	699.90	88.80	663.30	73.60	678.80
1/19/2009	778.50		135.70	676.50	52.20	699.90	88.80	663.30	73.80	678.60
1/29/2009	778.30	0.38	135.70	676.50	52.20	699.90	88.80	663.30	74.00	678.40
2/12/2009	779.80		135.70	676.50	52.20	699.90	88.80	663.30	73.50	678.90
2/19/2009	781.30		135.70	676.50	52.20	699.00	88.80	663.30	73.40	679.00
2/27/2009	782.20	4.33	135.70	676.50	52.20	699.90	88.80	663.30	73.30	679.10
3/10/2009	782.70		135.70	676.50	52.20	699.90	88.80	663.30	73.40	679.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
3/20/2009	782.40		135.70	676.50	52.10	700.00	88.80	663.30	73.40	679.00
3/25/2009	782.20	0.43	135.70	676.50	51.90	700.00	88.70	663.40	73.50	678.90
4/4/2009	785.30		135.70	676.50	51.90	700.20	88.40	663.70	73.60	678.80
4/13/2009	788.50		135.70	676.50	51.90	700.20	88.30	663.80	73.80	678.60
4/21/2009	790.50		135.70	676.50	51.90	700.20	88.20	663.90	73.90	678.50
4/26/2009	791.20	0.00	135.70	676.50	51.90	700.20	88.20	663.90	73.90	678.50
5/4/2009	791.30		135.70	676.50	51.90	700.20	87.60	664.50	74.00	678.40
5/13/2009	790.60		135.70	676.50	51.90	700.20	87.50	664.60	74.00	678.40
5/21/2009	789.90		135.70	676.50	51.90	700.20	87.30	664.80	74.10	678.30
5/30/2009	789.30	0.00	135.70	676.50	51.90	700.20	87.20	664.90	74.10	678.30
6/8/2009	788.70		135.70	676.50	51.90	700.20	87.20	664.90	74.10	678.30
6/17/2009	788.20		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
6/27/2009	787.60	0.00	135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
7/7/2009	786.80		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
7/15/2009	786.10		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
7/22/2009	785.50		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
7/30/2009	784.70	0.00	135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
8/8/2009	783.90		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
8/15/2009	783.30		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
8/26/2009	782.30	0.00	135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
9/5/2009	781.50		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
9/12/2009	780.80		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
9/19/2009	780.20		135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
9/28/2009	779.50	0.00	135.70	676.50	51.90	700.20	87.10	665.00	73.90	678.50
10/8/2009	778.50		135.70	676.50	51.90	700.20	87.20	664.90	73.90	678.00
10/19/2009	777.80		135.70	676.50	51.90	700.20	87.20	664.90	73.90	678.50
10/30/2009	776.80	0.24	135.70	676.50	51.90	700.20	87.40	664.70	73.90	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
11/9/2009	776.10		135.70	676.50	51.90	700.20	87.50	664.60	73.90	678.50
11/20/2009	775.40		135.70	676.50	52.00	700.10	87.70	664.00	73.90	678.50
11/28/2009	774.90	0.00	135.70	676.50	52.00	700.00	87.80	664.30	73.90	678.50
12/9/2009	774.60		135.70	676.50	52.10	700.00	87.90	664.20	73.80	678.60
12/18/2009	774.60		135.70	676.50	52.10	700.00	87.90	664.20	73.80	678.60
12/29/2009	774.30	3.56	135.70	676.50	52.10	700.00	87.90	664.20	73.70	678.70
1/9/2010	773.90		135.70	676.50	52.10	700.00	87.90	664.20	73.90	678.00
1/17/2010	773.60		135.70	676.50	52.10	700.00	87.90	664.20	73.80	678.60
1/28/2010	779.90	7.84	135.70	676.50	52.10	700.00	87.90	664.20	74.10	678.30
2/4/2010	780.15		135.70	676.50	52.00	700.00	87.80	664.30	74.10	678.30
2/12/2010	783.40		135.70	676.50	51.90	700.00	87.80	664.30	74.10	678.30
2/19/2010	784.00		135.70	676.50	51.80	700.00	87.80	664.30	74.10	678.30
2/26/2010	784.45	2.69	135.70	676.50	51.60	700.50	87.60	664.50	74.10	678.30
3/6/2010	785.60		135.70	676.50	51.60	700.50	87.60	664.50	74.10	678.30
3/15/2010	786.20		135.50	676.70	51.50	700.60	87.60	664.00	74.10	678.30
3/16/2010	786.30		135.50	676.70	51.50	700.60	87.60	664.50	74.10	678.30
3/24/2010	786.20	2.03	135.70	676.50	51.40	700.70	87.60	664.50	73.90	678.50
4/2/2010	785.80		135.80	676.50	51.50	700.60	87.60	664.50	73.50	678.90
4/4/2010	785.80		135.80	676.40	51.50	700.60	87.60	664.50	73.50	678.90
4/12/2010	787.40		135.90	676.30	51.50	700.60	87.50	664.60	73.40	679.00
4/20/2010	790.10		136.00	676.20	51.50	700.60	87.40	664.70	73.40	679.00
4/28/2010	792.60	1.19	136.00	676.20	51.50	700.60	87.30	664.80	73.50	678.90
5/6/2010	792.90		136.00	676.20	51.50	700.60	87.40	664.80	73.50	678.90
5/14/2010	792.40		136.00	676.10	51.50	700.60	87.30	665.00	73.50	678.80
5/21/2010	792.10		136.10	676.10	51.50	700.60	87.10	665.10	73.60	678.80
5/29/2010	791.70	0.00	136.10	676.10	51.50	700.50	87.00	665.20	73.60	678.80
6/8/2010	791.00		136.10	676.10	51.60	700.50	86.90	665.30	73.60	679.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
6/15/2010	790.60		136.10	676.10	51.60	700.50	86.80	665.40	73.60	678.80
6/22/2010	790.10		136.10	676.10	51.60	700.50	86.70	665.40	73.60	678.80
6/29/2010	789.70	0.00	136.10	676.10	51.60	700.50	86.70	665.00	73.60	679.00
7/8/2010	789.20		136.10	676.10	51.60	700.50	86.80	665.40	73.40	678.60
7/16/2010	788.70		136.10	676.10	51.60	700.50	86.70	665.30	73.80	678.00
7/23/2010	788.30		136.10	676.10	51.60	700.50	86.80	665.00	73.90	678.00
7/31/2010	787.70	0.00	136.10	676.10	51.60	700.50	86.80	665.30	74.00	678.50
8/7/2010	787.30		136.10	676.10	51.60	700.50	86.80	665.20	73.90	678.40
8/15/2010	786.70		136.10	676.10	51.60	700.50	86.90	665.20	74.00	678.40
8/23/2010	786.10		136.10	676.10	51.60	700.50	86.90	665.20	74.00	678.50
8/29/2010	785.60	0.00	136.10	676.10	51.60	700.50	86.90	665.00	73.90	678.50
9/8/2010	784.90		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.00
9/17/2010	784.20		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
9/27/2010	783.50	0.00	136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
10/8/2010	782.80		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
10/18/2010	782.20		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
10/28/2010	782.00	1.76	136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
11/4/2010	781.70		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
11/15/2010	781.10		136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
11/26/2010	780.80	1.33	136.10	676.10	51.60	700.50	86.90	665.20	73.90	678.50
12/8/2010	780.50		136.10	676.00	51.60	700.50	86.90	665.20	73.90	678.00
12/16/2010	780.40		136.10	676.10	51.60	700.50	86.90	654.10	73.90	678.80
12/30/2010	792.60	11.72	136.10	676.10					73.60	678.80
1/6/2011	792.20		136.10	676.10					73.60	678.80
1/7/2011	792.20		136.10	676.10	51.60	700.30	98.00	655.10	73.60	678.40
1/17/2011	792.00		136.10	676.10	51.80	700.30	97.00	665.90	74.00	678.50
1/27/2011	791.80	1.11	136.10	676.10	51.80	700.30	86.20	665.90	73.90	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
2/5/2011	791.80		136.10	676.00	51.80	700.30	86.20	665.90	73.90	678.50
2/15/2011	791.80		136.20	676.00	51.80	700.30	86.20	665.90	73.90	678.50
2/23/2011	792.20	2.87	136.20	676.00	51.80	700.30	86.20	665.90	73.90	678.80
3/8/2011	792.10		136.20	676.00	51.80	700.30	86.20	665.90	73.60	679.60
3/19/2011	791.80		136.20	676.00	51.80	700.30	86.20	665.90	72.80	680.10
3/30/2011	791.50	3.23	136.20	676.00	51.80	700.30	86.20	665.90	72.30	680.20
4/7/2011	792.10		136.20	676.00	51.80	700.30	86.20	665.90	72.20	680.20
4/16/2011	792.50		136.20	676.00	51.80	700.30	86.20	665.90	72.20	680.40
4/23/2011	792.60		136.20	676.00	51.80	700.30	86.20	665.80	72.00	680.40
4/30/2011	792.60	0.00	136.10	676.10	51.80	700.40	86.30	665.80	72.00	680.40
5/9/2011	792.40		136.10	676.00	51.70	700.40	86.30	665.80	72.30	679.90
5/16/2011	792.40		136.20	676.00	51.70	700.40	86.30	665.80	72.50	679.40
5/24/2011	792.40		136.20	675.90	51.70	700.40	86.30	665.70	73.00	678.80
5/31/2011	792.40	0.81	136.30	675.90	51.70	700.40	86.40	665.70	73.60	678.50
6/8/2011	792.10		136.30	675.90	51.70	700.40	86.40	665.40	73.90	678.50
6/16/2011	791.90		136.30	675.90	51.70	700.40	86.70	665.70	73.90	680.30
6/23/2011	791.80		136.30	675.90	51.70	700.40	86.40	665.70	72.10	679.90
6/30/2011	791.60	0.00	136.30	675.90	51.70	700.40	86.40	665.70	72.50	679.10
7/8/2011	791.40		136.30	675.90	51.70	700.40	86.40	665.70	73.30	
7/14/2011	791.20		136.30	675.90	51.70	700.40	86.40	665.70	n/a	678.90
7/21/2011	790.90		136.30	675.90	51.70	700.40	86.40	665.70	73.50	678.70
7/30/2011	790.40	0.00	136.30	675.80	51.70	700.40	86.40	665.60	73.70	678.70
8/9/2011	789.90		136.40	675.80	51.70	700.40	86.50	665.60	73.70	678.70
8/15/2011	789.70		136.40	675.70	51.70	700.40	86.50	665.50	73.70	678.70
8/24/2011	789.00		136.50	676.30	51.70	700.40	86.60	665.40	73.70	678.70
9/1/2011	788.65	0.00	135.90	676.20	51.70	700.30	86.70	665.40	73.70	678.70
9/9/2011	787.90		136.00	676.10	51.80	700.30	86.70	665.40	73.70	678.70

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
9/16/2011	787.30		136.10	676.10	51.80	700.30	86.70	665.30	73.70	678.70
9/23/2011	787.00		136.10	676.10	51.80	700.30	86.80	665.30	73.70	678.70
9/29/2011	786.80	0.08	136.10	676.10	51.80	700.30	86.80	665.20	73.70	678.80
10/8/2011	786.60		136.10	676.10	51.80	700.30	86.90	665.20	73.60	679.00
10/15/2011	786.40		136.10	676.10	51.80	700.30	86.90	665.10	73.40	679.10
10/26/2011	786.00	1.29	136.10	676.10	51.80	700.30	87.00	665.10	73.30	679.20
11/5/2011	785.50		136.10	676.10	51.80	700.30	87.00	665.10	73.20	679.30
11/14/2011	785.40		136.10	676.20	51.80	700.30	87.00	665.00	73.10	679.10
11/22/2011	785.10		136.00	676.40	51.80	700.30	87.10	665.00	73.30	679.10
11/30/2011	785.10	1.79	135.80	676.40	51.80	700.30	87.10	665.00	73.30	679.10
12/9/2011	784.80		136.10	676.40	51.80	700.20	87.10	665.00	73.30	679.10
12/17/2011	784.60		136.10	676.40	51.90	700.20	87.10	665.00	73.30	679.10
12/22/2011	784.50		136.30	676.40	51.90	700.20	87.10	665.00	73.30	679.10
12/30/2011	784.30	0.45	136.30	675.90	51.90	700.20	87.10	665.00	73.30	679.00
1/7/2012	784.00		136.30	675.90	51.90	700.20	87.10	665.00	72.80	679.90
1/14/2012	783.80		136.30	675.90	51.90	700.20	87.10	665.00	72.50	680.50
1/21/2012	783.60		136.30	675.90	51.90	700.20	87.10	665.00	71.90	680.70
1/28/2012	783.60	1.72	136.30	676.10	51.90	700.10	87.10	665.00	71.70	680.00
2/7/2012	783.40		136.10	676.10	52.00	700.10	87.10	665.00	71.60	681.00
2/15/2012	783.40		136.10	676.10	52.00	700.10	87.10	665.00	71.40	681.00
2/25/2012	783.40	0.62	136.10	676.10	52.00	700.10	87.10	665.00	71.40	681.00
3/5/2012	783.20		136.10	676.10	52.00	700.10	87.10	665.00	71.40	681.00
3/15/2012	782.70		136.10	676.10	52.00	700.10	87.10	665.00	71.40	681.00
3/22/2012	782.60	2.01	136.20	676.10	52.00	700.10	87.10	664.90	71.40	681.80
4/3/2012	782.50		136.10	676.10	52.00	700.10	87.20	664.90	70.60	681.80
4/12/2012	782.10		136.10	676.10	52.00	700.10	87.20	664.80	70.60	681.60
4/21/2012	782.00		136.10	676.10	52.00	700.10	87.30	664.80	70.80	681.60

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
4/23/2012	781.90	1.32	136.10	676.10	52.00	700.10	87.30	664.80	70.60	681.80
5/1/2012	781.70		136.10	676.10	52.00	700.10	87.30	664.80	70.60	681.80
5/7/2012	781.30		136.10	676.10	52.00	700.10	87.30	664.80	70.60	681.70
5/21/2012	780.90		136.10	676.00	52.00	699.70	87.30	666.20	70.70	680.30
5/25/2012	780.00	0.06	136.00	676.00	54.80	701.00	88.30	667.20	71.60	678.50
6/4/2012	779.60		135.80	676.10	53.50	700.80	87.30	667.20	73.40	678.50
6/13/2012	778.70		135.90	676.10	53.70	700.50	87.30	665.10	73.40	678.50
6/20/2012	778.00		135.80	676.40	54.00	699.70	89.40	664.20	73.40	678.50
6/25/2012	777.30	0.00	135.60	676.40	54.80	699.60	90.30	664.20	73.40	678.30
7/4/2012	776.30		136.00	676.40	54.90	699.60	90.30	664.10	73.60	678.20
7/13/2012	775.70		135.90	676.00	54.90	699.60	90.40	664.00	73.70	678.20
7/20/2012	775.20		136.00	675.90	54.90	699.50	90.50	664.00	73.70	678.10
7/30/2012	775.00	0.10	136.10	675.90	55.00	699.50	90.50	664.00	73.80	678.10
8/8/2012	773.00		136.10	675.90	55.00	699.50	90.50	663.90	73.80	678.10
8/9/2012	772.90		136.10	675.90	55.00	699.50	90.60	663.80	73.80	678.10
8/18/2012	772.00		136.10	675.90	55.00	699.50	90.70	663.80	73.80	678.10
8/27/2012	771.10		136.10	675.90	55.00	699.50	90.70	663.80	73.80	678.10
8/29/2012	770.90	0.00	136.10	675.90	55.00	699.50	90.70	663.80	73.80	678.10
9/8/2012	769.80		136.10	675.90	55.00	699.50	90.70	663.90	73.80	678.10
9/15/2012	768.90		136.10	675.90	55.00	699.50	90.60	663.90	73.80	678.10
9/29/2012	767.80	0.00	136.10	675.90	55.00	699.50	90.60	663.70	73.80	678.10
10/11/2012	766.80		136.10	675.90	55.00	699.50	90.80	663.50	73.80	678.10
10/23/2012	765.90	1.10	136.10	675.90	55.00	699.50	91.00	663.50	73.80	678.20
11/12/2012	764.60		136.10	675.90	55.00	699.40	91.00	663.30	73.70	678.20
11/23/2012	764.30	0.16	136.10	675.90	55.10	699.40	91.20	663.30	73.70	678.20
12/12/2012	764.50	2.46	136.10	676.10	55.10	697.00	91.20	660.90	73.70	678.70
12/27/2012	769.10		136.10	676.10	55.10	697.00	91.20	660.90	73.70	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
1/16/2013	770.40		137.00	675.20	55.10	697.00	91.20	660.80	73.80	678.60
1/28/2013	769.90	1.82	137.00	676.10	55.10	697.00	91.30	660.70	73.80	678.60
2/15/2013	769.60		136.10	676.10	55.10	697.00	91.40	660.70	73.80	678.60
2/26/2013	769.40	0.68	136.10	676.20	55.10	696.90	91.40	660.70	73.80	678.60
3/13/2013	768.80		136.00	676.20	55.20	696.90	91.40	660.70	73.80	678.60
3/26/2013	768.60	0.66	136.00	676.20	55.20	696.80	91.40	660.70	73.80	678.60
4/10/2013	771.10		136.00	676.20	55.30	696.80	91.40	660.70	73.80	678.60
4/30/2013	772.20	0.00	136.00	676.20	55.30	696.80	91.40	660.70	73.80	678.50
5/9/2013	771.90		136.00	676.20	55.30	696.80	91.40	660.70	73.90	678.50
5/15/2013	771.70		136.00	676.20	55.30	696.80	91.40	660.70	73.90	678.50
5/22/2013	771.40		136.00	676.20	55.30	696.80	91.40	660.80	73.90	678.90
5/30/2013	771.00	0.00	136.00	676.50	55.30	696.80	91.30	660.80	73.50	678.60
6/6/2013	770.80		135.70	676.50	55.30	696.80	91.30	660.80	73.80	678.60
6/13/2013	769.30		135.70	676.50	55.30	696.80	91.30	660.80	73.80	678.60
6/20/2013	769.00		135.70	676.50	55.30	696.80	91.40	660.80	73.80	678.60
6/26/2013	768.60	0.00	135.70	676.50	55.30	696.80	91.30	660.80	73.80	678.60
7/2/2013	767.80		135.70	676.50	55.30	696.80	91.30	660.80	73.80	678.60
7/10/2013	766.90		135.70	676.50	55.30	696.80	91.30	660.70	73.80	678.60
7/16/2013	766.50		135.70	676.50	55.30	696.80	91.40	660.70	73.80	678.60
7/29/2013	765.20	0.00	135.70	676.50	55.30	696.80	91.40	660.80	73.80	678.60
8/5/2013	764.50		135.70	676.50	55.30	696.80	91.30	660.80	73.80	678.00
8/12/2013	763.80		135.70	676.50	55.30	696.80	91.30	660.60	73.80	678.60
8/19/2013	763.30		135.70	676.50	55.30	696.80	91.50	660.60	73.80	678.60
8/26/2013	762.40	0.00	135.70	676.50	55.30	696.80	91.50	660.80	73.80	678.60
9/2/2013	761.50		135.70	676.00	55.30	696.80	91.30	660.60	73.80	678.60
9/10/2013	760.70		136.20	676.00	55.30	696.80	91.50	660.60	73.80	678.60
9/17/2013	759.90		136.20	676.00	55.30	696.80	91.50	660.60	73.80	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
9/23/2013	759.40		136.20	676.00	55.30	696.80	91.50	660.60	73.80	678.60
9/30/2013	758.70	0.00	136.20	676.30	55.30	696.80	91.50	660.60	73.80	678.60
10/7/2013	758.30		135.90	676.30	55.30	696.80	91.50	660.60	73.80	678.60
10/14/2013	757.60		135.90	676.50	55.30	696.80	91.50	660.60	73.80	678.60
10/21/2013	756.60		135.70	676.50	55.30	696.70	91.50	660.50	73.80	678.60
10/28/2013	756.00	0.00	135.70	676.30	55.40	696.70	91.60	660.60	73.80	678.60
11/4/2013	755.70		135.90	676.50	55.40	696.70	91.50	660.40	73.80	678.60
11/11/2013	756.10		135.70	676.50	55.40	696.70	91.70	660.40	73.80	678.60
11/18/2013	755.70		135.70	676.50	55.40	696.70	91.70	660.40	73.80	678.60
11/25/2013	755.40	0.55	135.70	676.30	55.40	696.70	91.70	660.50	73.80	678.60
12/2/2013	755.30		135.90	676.30	55.40	696.70	91.60	660.50	73.80	678.50
12/10/2013	755.40		135.90	676.50	55.40	696.70	91.60	660.50	73.90	678.60
12/16/2013	755.20		135.70	676.50	55.40	696.70	91.60	660.40	73.80	678.50
12/23/2013	755.20		135.70	676.50	55.40	696.60	91.70	660.30	73.90	678.50
12/30/2013	754.80	0.83	135.70	676.50	55.50	696.60	91.80	660.30	73.90	678.30
1/6/2014	754.50		135.70	676.50	55.50	696.60	91.80	660.30	74.10	678.60
1/13/2014	755.00		135.80	676.50	55.50	696.60	91.80	660.30	73.80	678.70
1/20/2014	754.60		135.70	676.50	55.50	696.60	91.80	660.30	73.70	678.70
1/27/2014	754.30	0.00	135.70	676.50	55.50	696.60	91.80	660.30	73.70	678.50
2/3/2014	754.10		135.70	676.10	55.50	696.60	91.80	660.30	73.90	678.50
2/10/2014	754.70		136.10	676.30	55.50	696.60	91.80	660.30	73.90	678.60
2/17/2014	754.50		135.90	676.00	55.50	696.60	91.80	660.30	73.80	678.60
2/24/2014	754.20	0.83	135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.60
3/3/2014	754.50		135.70	676.10	55.50	696.60	91.80	660.30	73.80	678.60
3/10/2014	755.20		136.10	676.50	55.50	696.60	91.80	660.20	73.80	678.60
3/19/2014	755.90		135.70	676.10	55.50	696.60	91.90	660.20	73.80	678.60
3/25/2014	758.80		136.10	676.10	55.50	696.60	91.90	660.20	73.80	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
3/29/2014	760.50		136.10	676.10	55.50	696.50	91.90	660.30	73.80	678.60
3/31/2014	761.60	1.85	136.10	676.10	55.60	696.60	91.80	660.30	73.80	678.60
4/1/2014	762.00		135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.60
4/8/2014	764.70		135.70	676.30	55.50	696.60	91.80	660.30	73.80	678.60
4/15/2014	766.60		135.90	676.50	55.50	696.60	91.80	660.30	73.80	678.60
4/22/2014	768.60		135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.60
4/29/2014	770.40	0.88	135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.60
5/5/2014	769.70		135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.60
5/12/2014	769.00		135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.00
5/19/2014	768.00		135.70	676.50	55.50	696.60	91.80	660.30	73.80	678.50
5/26/2014	767.10	0.00	135.70	676.50	55.50	696.60	91.80	660.30	73.90	678.50
6/2/2014	766.20		135.70	676.50	55.50	696.60	91.80	660.30	73.90	678.50
6/9/2014	765.40		135.70	676.50	55.50	696.60	91.80	660.30	73.90	678.40
6/16/2014	764.30		135.70	676.50	55.50	696.60	91.80	660.30	74.00	678.40
6/23/2014	763.10		135.70	676.50	55.50	696.60	91.80	660.30	74.00	678.40
6/27/2014	762.30	0.00	135.70	676.50	55.50	696.50	91.80	660.30	74.00	678.50
7/7/2014	760.90		135.70	676.00	55.60		91.80		73.90	678.50
7/14/2014	760.00		135.70	676.50	55.60		91.80		73.90	678.50
7/21/2014	759.10		135.70	676.50	55.60	696.50	91.80	660.30	73.90	678.50
7/28/2014	757.90	0.06	135.70	676.50	55.60	696.50	91.80	660.30	73.90	678.50
8/4/2014	756.80		135.70	676.50	55.60	696.50	91.80	660.30	73.90	678.50
8/11/2014	755.60		135.70	676.50	55.60	696.50	91.80	660.20	73.90	678.60
8/18/2014	754.70		135.70	676.50	55.60	696.50	91.90	660.20	73.80	678.60
8/25/2014	753.30	0.05	135.70	676.00	55.60	696.50	91.90	660.30	73.80	678.60
9/2/2014	751.60		136.20	676.00	55.60	696.50	91.80	660.30	73.80	678.60
9/8/2014	750.50		136.20	676.00	55.60	696.50	91.80	660.30	73.80	678.60
9/15/2014	749.40		135.70	676.50	55.60	696.50	91.80	660.30	73.80	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
9/22/2014	748.30		135.70	676.50	55.60	696.40	91.80	660.10	73.80	678.50
9/29/2014	747.20	0.00	135.70	676.00	55.70	696.50	92.00	660.20	73.90	678.50
10/6/2014	745.70		136.20	676.00	55.60	696.50	91.90	660.10	73.90	678.50
10/13/2014	746.70		136.20	676.00	55.60	696.40	92.00	660.10	73.90	678.50
10/20/2014	746.60		136.20	676.00	55.70	696.40	92.00	660.10	73.90	678.50
10/27/2014	745.80	0.00	136.20	676.00	55.70	696.40	92.00	660.10	73.90	678.50
11/3/2014	746.40		136.20	676.00	55.70	696.40	92.00	660.10	73.90	678.50
11/10/2014	747.20		136.20	676.50	55.70	696.40	92.00	660.10	73.90	678.50
11/17/2014	747.70		135.70	676.50	55.70	696.40	92.00	660.10	73.90	678.50
11/24/2014	748.80	0.61	135.70	676.50	55.70	696.40	92.00	660.10	73.90	678.50
12/1/2014	748.30		135.70	676.50	55.70	696.40	92.00	660.10	73.90	678.50
12/8/2014	749.10		135.70	676.50	55.70	696.40	92.00	660.00	73.90	678.50
12/15/2014	749.80		135.70	676.50	55.70	696.40	92.00	660.10	73.90	678.50
12/29/2014	750.90	5.37	135.70	676.50	55.70	696.40	92.00	660.10	73.90	678.50
1/5/2015	751.30		135.70	676.00	55.70	696.40	92.00	660.10	73.90	678.40
1/12/2015	751.80		136.20	676.00	55.70	696.40	92.00	660.10	74.00	678.40
1/19/2015	752.30		136.20	676.00	55.70	696.40	92.00	660.10	74.00	678.50
1/26/2015	752.60	1.48	135.80	676.50	55.70	696.40	92.00	660.10	73.90	678.50
2/4/2015	753.10		135.70	676.50	55.70	696.30	92.00	660.10	73.90	678.00
2/9/2015	753.30		135.70	676.50	55.80	696.00	92.00	660.00	73.90	678.00
2/16/2015	753.80		135.70	676.50	55.80	696.30	92.00	660.10	73.90	678.00
2/23/2015	753.90	0.44	135.70	676.50	55.80	696.30	92.00	660.00	73.90	678.00
3/2/2015	754.50		135.70	676.00	55.80	696.30	92.00	660.10	73.90	678.50
3/9/2015	755.00		135.70	676.10	55.80	696.30	92.00	660.10	73.90	678.50
3/16/2015	755.30		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
3/23/2015	755.50		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
3/30/2015	755.70	0.57	136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
4/6/2015	755.60		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
4/13/2015	755.80		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
4/20/2015	755.90		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
4/27/2015	755.90	0.20	136.10	676.50	55.80	696.30	92.00	660.10	73.90	678.50
5/4/2015	755.60		135.70	676.50	55.80	696.30	92.00	660.10	73.90	678.50
5/11/2015	755.30		135.70	676.10	55.80	696.30	92.00	660.10	73.90	678.50
5/18/2015	755.20		136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
5/26/2015	755.30	0.95	136.10	676.10	55.80	696.30	92.00	660.10	73.90	678.50
6/1/2015	755.20		136	676.20	55.80	696.30	92.00	660.10	73.90	678.50
6/8/2015	755.10		136	676.20	55.80	696.30	92.00	660.10	73.90	678.50
6/15/2015	755.20		136	676.20	55.80	696.30	92.00	660.10	73.90	678.50
6/22/2015	754.80		136	676.20	55.80	696.30	92.00	660.10	73.90	678.50
6/29/2015	754.20	0.00	136	676.20	55.80	686.30	92.00	660.10	73.90	678.50
7/10/2015	753.30		136	676.20	65.80	684.30	92.00	660.10	73.90	678.50
7/15/2015	753.00		136	676.20	67.80	682.70	92.00	660.10	73.90	678.50
7/21/2015	752.80		136	676.20	69.40	682.80	92.00	660.10	73.90	678.50
7/28/2015	752.40	0.00	136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
8/4/2015	752.00		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
8/11/2015	751.60		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
8/18/2015	751.10		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
8/25/2015	750.60	0.00	136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
9/1/2015	749.90		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
9/8/2015	749.00		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
9/15/2015	748.70		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
9/22/2015	748.40		136	676.20	69.30	682.80	92.00	660.10	73.90	678.50
9/29/2015	748.00	2.27	136	676.00	69.30	685.20	92.00	662.50	73.90	678.00
10/6/2015	747.60		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
10/13/2015	747.10		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
10/20/2015	746.70		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
10/27/2015	746.00	0.56	136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
11/4/2015	745.70		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
11/11/2015	745.20		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
11/18/2015	744.80		136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
11/25/2015	744.20	0.12	136.00	676.00	69.30	685.20	92.00	662.50	73.90	678.00
12/1/2015	743.70		136.00	676.20	69.30	685.20	92.00	662.50	73.90	678.00
12/8/2015	743.10		135.80	676.20	69.30	685.20	92.00	662.50	73.90	678.00
12/15/2015	742.70		135.80	676.20	69.30	685.20	92.00	662.50	73.90	678.00
12/22/2015	742.30		135.80	676.20	69.30	685.20	92.00	662.50	73.90	678.00
12/29/2015	742.10	1.29	136.00	676.20	69.30	685.20	92.00	662.30	73.90	678.00
1/5/2016	741.70		135.80	676.20	69.30	685.20	92.20	662.30	73.90	678.00
1/12/2016	742.30		135.80	676.20	69.30	685.20	92.20	662.30	73.90	678.00
1/19/2016	742.00		135.80	676.00	69.30	685.00	92.20	662.30	73.90	678.00
1/26/2016	741.80	3.51	136.00	676.00	69.30	685.00	92.20	662.30	73.90	678.00
2/2/2016	741.40		136.00	676.00	69.30	685.20	92.20	662.30	73.90	678.00
2/9/2016	741.00		136.00	676.00	69.30	685.20	92.20	662.30	73.90	678.00
2/16/2016	740.50		136.00	676.20	69.30	685.20	92.20	662.20	73.90	677.90
2/23/2016	740.20	0.35	135.80	676.20	69.30	685.20	92.30	662.20	74.00	677.90
3/1/2016	739.70		135.80	676.10	69.30	685.20	92.30	662.40	74.00	677.90
3/9/2016	739.40		135.90	676.10	69.30	685.20	92.10	662.40	74.00	677.90
3/17/2016	739.30		135.90	676.00	69.30	685.20	92.10	662.40	74.00	677.00
3/23/2016	739.10		136.00	676.00	69.30	685.00	92.10	662.40	74.00	677.90
3/30/2016	738.50	1.59	136.00	676.00	69.30	685.20	92.10	662.30	74.00	677.90
4/6/2016	738.00		136.00	676.00	69.30	685.10	92.20	662.30	74.00	677.90
4/13/2016	737.60		136.00	676.00	69.40	685.10	92.20	662.30	74.00	677.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
4/20/2016	736.90		136.00	676.00	69.40	685.10	92.20	662.30	74.00	677.90
4/27/2016	736.20	0.07	136.00	675.00	69.40	685.20	92.20	662.40	74.00	678.00
5/4/2016	736.90		137.00	674.00	69.30	685.00	92.10	662.40	74.00	678.00
5/11/2016	737.50		138.00	673.00	69.30	685.00	92.10	662.20	74.00	678.00
5/18/2016	737.00		139.00	676.20	69.50	685.00	92.30	662.20	74.00	678.00
5/25/2016	737.60	1.21	135.80	676.20	69.50	685.00	92.30	662.20	73.90	678.00
6/1/2016	737.60		135.80	676.20	69.50	685.00	92.30	662.20	73.90	678.00
6/8/2016	737.90		135.80	676.20	69.50	685.30	92.30	662.20	73.90	678.00
6/15/2016	738.00		135.80	676.20	69.20	685.30	92.30	662.20	73.90	678.00
6/23/2016	737.70		135.80	676.20	69.20	685.30	92.30	662.20	73.90	677.90
6/29/2016	737.50	0.00	135.80	676.20	69.20	685.30	92.30	662.20	73.90	678.00
7/6/2016	737.40		135.80	676.00	69.20	685.30	92.30	662.20	73.90	678.00
7/15/2016	737.40		136.00	676.00	69.20	685.30	92.30	662.20	73.90	678.00
7/20/2016	737.10		136.00	676.00	69.20	685.30	92.30	662.20	73.90	678.00
7/27/2016	736.70	0.00	136.00	676.00	69.20	685.00	92.30	662.20	73.90	678.00
8/3/2016	736.90		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
8/10/2016	737.10		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
8/17/2016	736.60		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
8/24/2016	736.70		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
8/30/2016	736.70	0.00	136	676.00	69.30	685.20	92.30	662.20	73.90	678.00
9/7/2016	737.30		136	676.00	69.30	685.20	92.30	662.20	73.90	678.00
9/14/2016	737.90		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
9/21/2016	738.80		136.00	676.00	69.30	685.20	92.30	662.20	73.90	678.00
9/28/2016	739.60	0.00	136.00	676.00	69.30	685.00	92.30	662.20	73.90	678.00
10/5/2016	739.50		136.00	676.00	69.30	685.30	92.30	662.20	73.90	678.00
10/12/2016	739.20		136.00	676.00	69.20	685.30	92.30	662.20	73.90	678.00
10/19/2016	739.30		136.00	676.00	69.20	685.30	92.30	662.20	73.90	678.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
10/26/2016	740.00	0.89	136.00	675.00	69.20	685.20	92.30	662.20	73.90	678.00
11/2/2016	741.80		137.00	675.00	69.30	685.20	92.30	662.20	73.90	678.00
11/9/2016	741.80		138.00	676.20	69.30	685.20	92.30	662.20	73.90	678.00
11/16/2016	744.00		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
11/23/2016	747.60		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
11/29/2016	750.90	1.62	135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
12/7/2016	753.40		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
12/14/2016	753.70		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
12/21/2016	755.60		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
12/28/2016	757.00	4.37	135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
1/4/2017	757.50		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
1/13/2017	758.10		135.80	676.20	69.30	685.20	92.30	662.20	73.90	678.00
1/18/2017	758.30		135.80	676.20	69.30	685.10	92.30	662.70	73.90	678.20
1/25/2017	758.00	6.73	135.80	676.20	69.40	685.10	91.80	662.70	73.70	678.20
2/1/2017	769.10		135.80	675.90	69.40	685.10	91.80	662.70	73.70	678.00
2/8/2017	769.70		136.10	675.90	69.40	685.10	91.80	662.70	73.90	678.00
2/15/2017	770.10		136.10	675.90	69.40	685.10	91.80	662.70	73.90	678.00
2/22/2017	771.80	4.17	136.10	675.90	69.40	685.10	91.80	662.70	73.90	678.00
3/1/2017	771.90		136.10	675.90	69.40	685.10	91.80	662.70	73.90	678.00
3/8/2017	771.20		136.10	675.00	69.40	685.10	91.80	662.70	73.90	677.80
3/15/2017	770.60		136.10	675.90	69.40	685.10	91.80	662.70	74.10	677.90
3/22/2017	769.60		136.10	675.90	69.40	685.10	91.80	662.70	74.00	678.00
3/29/2017	768.40	0.13	136.10	675.90	69.40	685.10	91.80	662.70	73.90	678.00
4/5/2017	769.10		136.10	676.20	69.40	685.10	91.80	662.70	73.90	678.00
4/12/2017	768.00		135.80	676.20	69.40	685.00	91.80	662.20	73.90	678.00
4/19/2017	767.90		135.80	676.20	69.50	685.10	92.30	662.20	73.90	678.00
4/26/2017	767.70	0.07	135.80	676.20	69.40	685.10	92.30	662.20	73.90	678.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
5/1/2017	767.40		135.80	676.20	69.40	684.90	92.30	662.20	73.90	678.00
5/10/2017	766.50		135.80	676.20	69.60	684.90	92.30	662.20	73.90	678.00
5/17/2017	765.90		135.80	676.20	69.60	684.90	92.30	662.20	73.90	678.00
5/24/2017	765.70		135.80	676.20	69.60	684.90	92.30	662.20	73.90	678.00
5/30/2017	765.50	0.36	135.80	676.20	69.60	684.90	92.30	662.20	73.90	678.00
6/7/2017	765.30		135.80	676.00	69.60	684.90	92.30	662.20	73.90	678.00
6/14/2017	765.10		136.00	676.00	69.60	684.90	92.30	662.20	73.90	678.00
6/21/2017	764.80		136.00	676.00	69.60	684.90	92.30	662.20	73.90	678.00
6/28/2017	764.70	0.05	136.00	676.00	69.60	684.90	92.30	662.20	73.90	678.00
7/5/2017	764.20		136.00	676.00	69.60	684.90	92.30	662.70	73.90	678.00
7/12/2017	763.80		136.00	676.00	69.60	684.90	91.80	662.60	73.90	678.00
7/19/2017	763.20		136.00	676.00	69.60	684.90	91.90	662.60	73.90	678.00
7/26/2017	762.70	0.00	136.00	676.00	69.60	684.90	91.90	662.60	73.90	678.00
8/2/2017	761.90		136.00	676.00	69.60	685.10	91.90	662.60	73.90	678.00
8/9/2017	761.60		136.00	676.00	69.40	685.10	91.90	662.70	73.90	678.00
8/16/2017	761.20		136.00	676.00	69.40	685.10	91.80	662.60	73.90	678.00
8/23/2017	760.60		136.00	676.00	69.40	685.10	91.90	662.70	73.90	678.00
8/30/2017	759.80	0.05	136.00	676.00	69.40	685.10	91.80	662.70	73.90	678.00
9/6/2017	758.90		136.00	676.00	69.40	685.10	91.80	662.70	73.90	677.80
9/13/2017	758.70		136.00	676.00	69.40	685.30	91.80	662.70	74.10	677.70
9/20/2017	758.30		136.00	676.00	69.20	685.20	91.80	662.70	74.20	677.70
9/27/2017	757.80	0.00	136.00	676.00	69.30	685.20	91.80	662.70	74.20	677.70
10/4/2017	757.60		136.00	676.00	69.30	685.40	91.80	662.40	74.20	677.70
10/10/2017	757.10		136.00	676.00	69.10	685.60	92.10	662.40	74.10	677.80
10/18/2017	756.90		136.00	676.00	68.90	685.50	92.10	662.40	74.10	677.80
10/25/2017	756.60	0.00	136.00	675.00	69.00	685.50	92.10	662.40	74.10	677.80
11/1/2017	755.70		137.00	676.20	69.00	685.50	92.10	662.40	74.10	677.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
11/8/2017	755.30		135.80	676.20	69.00	685.50	92.10	662.40	74.10	677.80
11/15/2017	755.10	0.29	135.80	676.20	69.00	685.50	92.10	662.40	74.10	677.80
12/6/2017	754.20		136.00	676.20	69.00	685.50	92.10	662.40	74.10	677.80
12/13/2017	753.90		136.00	676.10	69.00	685.50	92.10	662.40	74.10	677.80
12/20/2017	753.60		135.90	676.10	69.00	685.50	92.10	662.40	74.10	677.80
12/27/2017	753.30	0.00	135.80	676.10	69.00	685.50	92.10	662.40	74.10	677.80
1/3/2018	753.10		135.80	676.20	69.00	685.46	92.10	662.36	74.00	677.93
1/10/2018	753.10		136.00	676.00	69.00	685.46	91.90	662.56	73.90	678.03
1/17/2018	753.00		136.00	676.00	69.00	685.46	91.90	662.56	74.00	677.93
1/24/2018	752.80		136.00	676.00	69.00	685.46	91.90	662.56	74.00	677.93
1/30/2018	752.60	1.79	136.00	676.00	69.00	685.46	92.00	662.46	74.00	677.93
2/7/2018	752.30		136.00	676.00	69.00	685.46	91.90	662.56	74.00	677.93
2/14/2018	751.80		136.00	676.00	68.90	685.56	91.90	662.56	73.90	678.03
2/21/2018	750.20		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
2/27/2018	750.30	0.60	136.00	676.00	69.10	685.36	92.10	662.36	73.90	678.03
3/7/2018	750.20		136.00	676.00	69.10	685.36	92.10	662.36	73.90	678.03
3/15/2018	750.10		135.80	676.20	69.10	685.36	92.10	662.36	73.90	678.03
3/21/2018	750.80		136.00	676.00	69.10	685.36	92.10	662.36	73.90	678.03
3/28/2018	750.90	0.56	136.00	676.00	69.10	685.36	92.10	662.36	73.90	678.03
4/4/2018	751.70		136.00	676.00	69.10	685.36	92.10	662.36	73.90	678.03
4/11/2018	751.70		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
4/18/2018	750.80		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
4/25/2018	749.50	0.05	136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
5/1/2018	750.50		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
5/8/2018	749.40		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
5/15/2018	748.30		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
5/22/2018	747.00		136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
5/29/2018	745.60	0.32	136.00	676.00	69.30	685.16	92.10	662.36	73.90	678.03
6/6/2018	744.70		136.00	676.00	69.30	685.16	92.10	662.36	74.00	677.93
6/13/2018	743.70		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
6/20/2018	742.50		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
6/27/2018	741.20	0.00	136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
7/5/2018	739.80		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
7/11/2018	738.70		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
7/18/2018	738.50		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
7/25/2018	738.40	0.00	136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/1/2018	738.10		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/8/2018	737.80		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/15/2018	737.70		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/22/2018	737.90		136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/29/2018	737.90	0.00	136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
9/5/2018	738.00		136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
9/12/2018	737.90		136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
9/19/2018	737.60		136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
9/26/2018	737.30	0.00	136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
10/3/2018	737.50		136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
10/10/2018	737.70		136.00	676.00	69.30	685.16	90.10	664.36	74.10	677.83
10/17/2018	738.20		136.00	676.00	69.30	685.16	90.10	664.36	74.10	677.83
10/24/2018	738.60		136.00	676.00	69.30	685.16	90.10	664.36	74.10	677.83
10/30/2018	738.50	0.69	136.00	676.00	69.30	685.16	90.10	664.36	74.10	677.83
11/7/2018	738.40		136.00	676.00	69.30	685.16	90.10	664.36	73.80	678.13
11/16/2018	737.70		136.00	676.00	69.30	685.16	90.10	664.36	74.00	677.93
11/21/2018	737.50		136.00	676.00	69.30	685.16	90.10	664.36	74.20	677.73
11/28/2018	737.20	1.66	136.00	676.00	69.30	685.16	90.10	664.36	74.30	677.63

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
12/5/2018	737.60		136.00	676.00	69.30	685.16	90.10	664.36	74.10	677.83
12/12/2018	737.70		136.00	676.00	69.30	685.16	90.10	664.36	74.00	677.93
12/19/2018	737.60		136.00	676.00	69.30	685.16	90.10	664.36	74.00	677.93
12/27/2018	737.40	2.05	136.00	676.00	69.30	685.16	90.10	664.36	74.00	677.93
1/2/2019	737.10		136.00	676.00	69.20	685.26	90.10	664.36	74.00	677.93
1/9/2019	738.40		136.00	676.00	69.20	685.26	90.10	664.36	74.00	677.93
1/16/2019	738.50		136.00	676.00	69.20	685.26	90.10	664.36	74.00	677.93
1/23/2019	740.80		135.80	676.20	69.20	685.26	90.10	664.36	74.00	677.93
1/30/2019	740.70	5.18	135.90	676.10	69.20	685.26	90.10	664.36	74.00	677.93
2/6/2019	745.80		135.90	676.10	69.20	685.26	92.10	662.36	74.00	677.93
2/13/2019	747.80		135.90	676.10	69.20	685.26	92.10	662.36	74.00	677.93
2/20/2019	764.70		135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
2/27/2019	766.80	8.65	135.80	676.20	69.20	685.26	91.70	662.76	74.00	677.93
3/6/2019	769.50		135.80	676.20	69.20	685.26	91.70	662.76	74.00	677.93
3/13/2019	772.00		135.80	676.20	69.20	685.26	91.70	662.76	74.00	677.93
3/20/2019	773.30		135.80	676.20	69.20	685.26	91.70	662.76	74.00	677.93
3/27/2019	774.30	2.49	135.80	676.20	69.20	685.26	91.70	662.76	74.00	677.93
4/3/2019	774.50		135.80	676.20	69.20	685.26	92.80	661.66	74.00	677.93
4/10/2019	774.70		135.80	676.20	69.20	685.26	92.00	662.46	74.00	677.93
1/17/2019	774.80		135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
4/24/2019	774.90	0.10	135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
5/1/2019	774.90		135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
5/8/2019	774.90		135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
5/15/2019	774.60		135.80	676.20	69.20	685.26	92.10	662.36	74.00	677.93
5/22/2019	773.90		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
5/29/2019	773.10	1.07	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
6/5/2019	772.10		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
6/12/2019	770.80		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
6/19/2019	769.50		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
6/26/2019	768.10	0.03	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
7/3/2019	766.70		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
7/5/2019	766.20		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
7/10/2019	765.10		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
7/17/2019	763.40		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
7/24/2019	761.70		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
7/30/2019	760.50	0.00	135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
8/7/2019	759.60		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
8/14/2019	758.80		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
8/21/2019	757.80		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
8/28/2019	757.20	0.00	135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
9/4/2019	756.70		135.70	676.30	69.30	685.16	92.10	662.36	74.00	677.93
9/11/2019	756.30		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
9/18/2019	755.90		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
9/25/2019	755.20	0.00	135.80	676.20	69.30	685.16	91.90	662.56	74.00	677.93
10/2/2019	754.60		135.80	676.20	69.30	685.16	91.90	662.56	74.00	677.93
10/10/2019	754.30		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
10/16/2019	753.90		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
10/26/2019	752.70		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
10/30/2019	752.30	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
11/6/2019	751.70		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
11/13/2019	751.30		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
11/20/2019	751.20		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
11/27/2019	751.10	2.38	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
12/4/2019	751.20		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
12/11/2019	751.40		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
12/18/2019	751.30		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
12/26/2019	751.60	4.61	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
1/2/2020	751.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
1/8/2020	751.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
1/15/2020	751.90		135.70	676.30	69.30	685.16	92.10	662.36	74.10	677.83
1/22/2020	751.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
1/29/2020	752.00	0.15	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
2/5/2020	751.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
2/12/2020	751.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
2/19/2020	751.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
2/26/2020	751.90	0.53	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
3/4/2020	751.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
3/11/2020	751.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
3/18/2020	752.10		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
3/25/2020	753.30	4.31	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
4/1/2020	753.60		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
4/8/2020	755.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
4/15/2020	760.50		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
4/22/2020	761.50		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
4/29/2020	761.90	3.88	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
5/6/2020	761.20		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
5/13/2020	762.10		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
5/20/2020	762.20		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
5/27/2020	762.10	0.03	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
6/3/2020	761.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
6/10/2020	761.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
6/19/2020	760.10		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
6/24/2020	759.00	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
7/1/2020	757.30		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
7/8/2020	755.80		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
7/15/2020	754.40		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
7/22/2020	752.90		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
7/29/2020	751.40	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
8/5/2020	749.90		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
8/12/2020	749.60		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
8/19/2020	749.10		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
8/26/2020	747.90	0.00	135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/2/2020	746.40		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/9/2020	745.70		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/16/2020	745.20		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/19/2020	747.80		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/23/2020	749.40		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
9/30/2020	743.50	0.00	135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
10/7/2020	742.70		136.00	676.00	69.30	685.16	93.10	661.36	74.10	677.83
10/14/2020	741.60		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
10/21/2020	740.30		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
10/28/2020	739.90	0.00	135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
11/4/2020	739.40		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
11/10/2020	739.20		136.10	675.90	69.30	685.16	93.10	661.36	74.20	677.73
11/18/2020	739.00		136.10	675.90	69.30	685.16	93.10	661.36	74.20	677.73
11/25/2020	738.80	0.54	135.90	676.10	69.30	685.16	93.10	661.36	74.00	677.93
12/2/2020	738.50		135.90	676.10	69.30	685.16	93.10	661.36	74.00	677.93

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
12/9/2020	738.20		135.90	676.10	69.30	685.16	93.10	661.36	74.10	677.83
12/16/2020	738.00		135.80	676.20	69.30	685.16	93.10	661.36	74.10	677.83
12/23/2020	738.20	1.72	136.10	675.90	69.30	685.16	93.10	661.36	74.00	677.93
1/6/2021	742.10		136.10	675.90	69.30	685.16	93.10	661.36	74.00	677.93
1/13/2021	742.10		136.10	675.90	69.30	685.16	93.10	661.36	74.10	677.83
1/20/2021	741.80		136.10	675.90	69.30	685.16	93.10	661.36	74.10	677.83
1/27/2021	741.70	1.36	135.80	676.20	69.30	685.16	93.10	661.36	74.20	677.73
2/3/2021	741.80		135.80	676.20	69.30	685.16	93.10	661.36	74.20	677.73
2/10/2021	741.60		135.80	676.20	69.30	685.16	93.10	661.36	74.00	677.93
2/17/2021	741.40		135.80	676.20	69.30	685.16	93.10	661.36	74.00	677.93
2/24/2021	741.00	0.14	135.80	676.20	69.30	685.16	93.10	661.36	74.20	677.73
3/3/2021	740.80		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
3/10/2021	740.60		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
3/17/2021	741.00		135.90	676.10	69.30	685.16	92.10	662.36	74.20	677.73
3/24/2021	740.90		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
3/31/2021	740.60	1.53	135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
4/7/2021	740.80		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
4/14/2021	740.70		135.80	676.20	69.30	685.16	92.10	662.36	74.10	677.83
4/21/2021	741.30		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
4/28/2021	742.00	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
5/5/2021	741.90		135.80	676.20	69.30	685.16	92.10	662.36	74.30	677.63
5/15/2021	740.80		135.80	676.20	69.30	685.16	92.10	662.36	74.40	677.53
5/19/2021	740.40		135.80	676.20	69.30	685.16	92.10	662.36	74.00	677.93
5/26/2021	740.10	0.05	136.10	675.90	69.30	685.16	92.10	662.36	74.30	677.63
6/2/2021	739.60		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
6/9/2021	738.30		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
6/16/2021	737.20		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
6/23/2021	736.00		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-3 Lower		R-4 Upper		R-4 Lower		R-5 Upper	
Top Ref. Elev. (ft)			812.200		752.100		752.100		752.400	
Top Ref. Elev. (ft) After 5/21/2012			811.995		754.455		754.455		751.930	
Tip Elev. (ft)			675.995		667.100		655.600		654.430	
Total Depth (ft)			136.0		85.0		96.5		97.5	
Total Depth (ft) After 5/21/2012			136.0		87.4		99.9		97.5	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3L		R-4U		R-4L		R-5U	
6/30/2021	736.40	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
7/7/2021	737.00		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
7/14/2021	737.40		135.80	676.20	69.30	685.16	92.10	662.36	74.30	677.63
7/21/2021	737.80		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
7/28/2021	736.40	0.05	136.00	676.00	69.30	685.16	92.10	662.36	74.20	677.73
8/4/2021	736.30		135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
8/11/2021	735.90		135.40	676.60	69.30	685.16	92.10	662.36	74.20	677.73
8/18/2021	735.90		135.10	676.90	69.30	685.16	92.10	662.36	74.20	677.73
8/25/2021	735.70	0.00	135.80	676.20	69.30	685.16	92.10	662.36	74.20	677.73
9/1/2021	735.60		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
9/8/2021	736.00		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
9/15/2021	737.00		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
9/22/2021	737.50		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
9/29/2021	738.00	0.00	135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
10/6/2021	738.20		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
10/13/2021	738.70		135.90	676.10	69.30	685.16	91.10	663.36	74.20	677.73
10/22/2021	738.80		135.80	676.20	69.30	685.16	91.10	663.36	74.20	677.73
10/27/2021	739.00	0.46	135.80	676.20	69.30	685.16	91.10	663.36	74.20	677.73
11/3/2021	739.60		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
11/10/2021	740.20		135.80	676.20	69.30	685.16	90.90	663.56	74.20	677.73
11/17/2021	740.20		135.80	676.20	69.30	685.16	90.90	663.56	74.30	677.63
11/24/2021	739.90	0.00	135.80	676.20	69.30	685.16	90.90	663.56	74.30	677.63
12/1/2021	739.50		135.80	676.20	69.30	685.16	90.90	663.56	74.30	677.63
12/8/2021	739.40		135.80	676.20	69.30	685.16	91.10	663.36	74.40	677.53
12/15/2021	740.00		135.80	676.20	69.30	685.16	91.10	663.36	74.20	677.73
12/22/2021	740.00		135.80	676.20	69.30	685.16	91.10	663.36	74.20	677.73
12/29/2021	743.00	7.24	135.80	676.20	69.30	685.16	91.10	663.36	74.20	677.73

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
1/10/2007	749.70		82.30		96.00		133.20		72.20	
1/19/2007	749.40		82.40		96.00		132.20		72.20	
1/29/2007	749.60		82.50		96.00		132.30		72.20	
2/7/2007	750.00		82.40		96.00		133.20		72.20	
2/16/2007	750.20		82.40		96.00		133.20		72.20	
2/26/2007	750.60		82.30		96.00		133.10		72.20	
3/6/2007	751.70		82.30		96.00		132.90		72.20	
3/17/2007	755.10		82.30		96.00		132.00		72.20	
3/25/2007	756.30		82.20		96.00		133.00		72.20	
4/6/2007	760.00		82.20		96.00		133.00		72.20	
4/16/2007	762.90		82.20		96.00		133.00		72.20	
4/27/2007	767.10		82.10		96.00		133.00		72.20	
5/9/2007	766.80		82.20		96.00		133.00		72.20	
5/19/2007	764.80		82.20		96.00		133.00		72.20	
5/29/2007	762.80		82.20		96.00		133.00		72.20	
6/8/2007	761.20		82.20		96.00		133.00		72.20	
6/18/2007	759.90		82.20		96.00		133.00		72.20	
6/28/2007	758.10		82.20		96.00		133.00		72.20	
7/10/2007	756.70		82.20		96.00		133.00		72.20	
7/19/2007	755.80		82.30		96.00		133.00		72.20	
7/30/2007	754.90		82.30		96.00		132.90		72.20	
8/11/2007	754.40		82.30		96.00		132.90		72.20	
8/22/2007	753.80		82.30		96.00		132.90		72.20	
8/30/2007	753.30		82.30		96.00		132.90		72.20	
9/7/2007	753.20		82.30		96.00		132.90		72.20	
9/18/2007	753.00		82.30		96.00		132.90		72.20	
9/27/2007	753.60		82.30		96.00		132.90		72.20	

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
10/8/2007	754.90		82.30		96.20		132.90		72.20	
10/17/2007	756.20		82.30		96.40		132.90		72.20	
10/30/2007	757.80		82.30		96.20		132.90		72.20	
11/9/2007	759.60		82.30		96.60		133.10		72.20	
11/19/2007	763.60		82.30		96.90		133.20		72.20	
11/28/2007	766.50		82.30		97.10		133.60		72.20	
12/8/2007	768.70		82.30		97.00		133.70		72.20	
12/18/2007	768.50		82.30		96.90		133.80		72.20	
12/28/2007	769.30		82.30		96.80		133.80		72.20	
1/9/2008	770.50		82.30	670.10	97.40	714.80	133.50	678.70	72.20	678.50
1/19/2008	770.30		82.30	670.10	97.70	714.50	133.40	678.80	72.20	678.50
1/29/2008	772.70		82.30	670.10	98.00	714.20	133.10	679.10	72.20	678.50
2/9/2008	774.10		82.30	670.10	98.30	713.90	133.20	679.00	72.20	678.50
2/19/2008	774.40		82.30	670.10	97.90	714.30	132.90	679.30	72.20	678.50
2/27/2008	775.00		82.30	670.10	97.90	714.30	133.00	679.20	72.20	678.50
3/7/2008	775.00		82.20	670.20	97.80	714.40	133.20	679.00	72.20	678.50
3/18/2008	775.00		82.20	670.20	97.70	714.50	133.30	678.90	72.20	678.50
3/29/2008	774.90		82.20	670.20	97.50	714.70	133.40	678.80	72.20	678.50
4/10/2008	775.00		82.20	670.20	97.50	714.70	133.10	679.10	72.20	678.50
4/20/2008	774.80		82.20	670.20	97.40	714.80	132.90	679.30	72.20	678.50
5/5/2008	774.65		82.10	670.30	97.70	714.50	133.10	679.10	72.20	678.50
5/13/2008	773.90		82.10	670.30	97.70	714.50	133.20	679.00	72.20	678.50
5/21/2008	772.85		82.00	670.40	97.60	714.60	133.20	679.00	72.20	678.50
5/31/2008	772.10		82.00	670.40	97.60	714.60	133.30	678.90	72.20	678.50
6/9/2008	771.20		82.00	670.40	97.70	714.50	133.30	678.90	72.20	678.50
6/18/2008	770.50		82.00	670.40	97.80	714.40	133.30	678.90	72.20	678.50
6/26/2008	769.60		82.10	670.30	98.00	714.20	133.30	678.90	72.20	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
7/8/2008	768.10		82.00	670.40	98.50	713.70	133.60	678.60	72.20	678.50
7/19/2008	766.60		82.20	670.20	98.80	713.40	133.70	678.50	72.20	678.50
7/29/2008	765.50	0.00	82.20	670.20	98.90	713.30	133.60	678.60	72.20	678.50
8/4/2008	764.60	0.00	82.00	670.40	98.90	713.30	133.60	678.60	72.20	678.50
8/9/2008	764.25	0.00	82.00	670.40	98.90	713.30	133.50	678.70	72.20	678.50
8/19/2008	763.20	0.00	82.00	670.40	98.80	713.40	133.40	678.80	72.20	678.50
8/28/2008	762.25	0.00	82.00	670.40	98.70	713.50	133.20	679.00	72.20	678.50
9/6/2008	761.00	0.00	82.20	670.20	98.90	713.30	133.20	679.00	72.20	678.50
9/17/2008	760.10	0.00	82.20	670.20	99.20	713.00	133.30	678.90	72.20	678.50
9/29/2008	759.20	0.00	82.30	670.10	99.50	712.70	133.30	678.90	72.20	678.50
10/8/2008	759.00	0.00	82.40	670.00	99.80	712.40	133.20	679.00	72.20	678.50
10/18/2008	758.90	0.00	82.40	670.00	100.20	712.00	133.20	679.00	72.20	678.50
10/29/2008	761.30	0.00	82.40	670.00	100.60	711.60	133.20	679.00	72.20	678.50
11/8/2008	764.30	0.00	82.40	670.00	100.30	711.90	133.50	678.70	72.20	678.50
11/17/2008	766.90	0.00	82.40	670.00	99.00	713.20	133.50	678.70	72.20	678.50
11/25/2008	769.90	1.71	82.40	670.00	98.40	713.80	133.40	678.80	72.20	678.50
12/4/2008	773.90		82.00	670.40	98.60	713.60	133.10	679.10	72.20	678.50
12/13/2008	777.30		81.70	670.70	98.60	713.60	133.10	679.10	72.20	678.50
12/21/2008	779.10		81.10	671.30	98.60	713.60	133.10	679.10	72.20	678.50
12/30/2008	779.40	3.99	80.60	671.80	98.60	713.60	133.10	679.10	72.20	678.50
1/8/2009	779.30		81.00	671.40	98.00	714.20	133.10	679.10	72.20	678.50
1/19/2009	778.50		81.70	670.70	96.90	715.30	133.10	679.10	72.20	678.50
1/29/2009	778.30	0.38	82.00	670.40	96.00	716.20	133.10	679.10	72.20	678.50
2/12/2009	779.80		79.60	672.80	96.00	716.20	132.60	679.60	72.20	676.50
2/19/2009	781.30		79.60	672.80	96.00	716.20	132.90	679.30	72.20	678.50
2/27/2009	782.20	4.33	79.60	672.80	96.00	716.20	133.20	679.00	72.20	678.50
3/10/2009	782.70		80.00	672.40	96.00	716.20	133.30	678.90	72.20	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
3/20/2009	782.40		80.30	672.10	96.00	716.20	133.30	678.90	72.20	678.50
3/25/2009	782.20	0.43	80.60	671.80	95.90	716.30	133.40	678.80	72.20	678.50
4/4/2009	785.30		80.70	671.70	95.80	716.40	133.40	678.80	72.20	678.50
4/13/2009	788.50		80.90	671.50	95.60	716.60	133.40	678.80	72.20	678.50
4/21/2009	790.50		80.90	671.50	95.50	716.70	133.40	678.80	72.20	678.50
4/26/2009	791.20	0.00	80.90	671.50	95.50	716.70	133.40	678.80	72.20	678.50
5/4/2009	791.30		80.90	671.50	95.00	717.20	133.40	678.80	72.20	678.50
5/13/2009	790.60		81.00	671.40	94.60	717.60	133.40	678.80	72.20	678.50
5/21/2009	789.90		81.00	671.40	94.60	717.60	133.20	679.00	72.20	678.50
5/30/2009	789.30	0.00	81.10	671.30	94.40	717.80	133.00	679.20	72.20	678.50
6/8/2009	788.70		81.10	671.30	94.10	718.10	132.90	679.30	72.20	678.50
6/17/2009	788.20		81.10	671.30	95.90	716.30	132.80	679.40	72.20	678.50
6/27/2009	787.60	0.00	81.10	671.30	95.80	716.40	132.80	679.40	72.20	678.50
7/7/2009	786.80		81.20	671.20	93.80	718.40	133.00	679.20	72.20	678.50
7/15/2009	786.10		81.30	671.10	93.80	718.40	133.10	679.10	72.20	678.50
7/22/2009	785.50		81.40	671.00	93.70	718.50	133.10	679.10	72.20	678.50
7/30/2009	784.70	0.00	81.40	671.00	93.70	718.50	133.30	678.90	72.20	678.50
8/8/2009	783.90		81.40	671.00	93.80	718.40	133.50	678.70	72.20	678.50
8/15/2009	783.30		81.40	671.00	93.90	718.30	133.60	678.60	72.20	678.50
8/26/2009	782.30	0.00	81.40	671.00	93.90	718.30	133.90	678.30	72.20	678.50
9/5/2009	781.50		81.40	671.00	94.10	718.10	133.50	678.70	72.20	678.50
9/12/2009	780.80		81.40	671.00	94.20	718.00	133.00	679.20	72.20	678.50
9/19/2009	780.20		81.40	671.00	94.30	717.90	133.00	679.20	72.20	678.50
9/28/2009	779.50	0.00	81.40	671.00	94.40	717.80	132.60	679.60	72.20	678.50
10/8/2009	778.50		81.50	670.90	94.50	717.70	132.80	679.40	72.20	678.50
10/19/2009	777.80		81.60	670.80	94.70	717.50	132.80	679.40	72.20	678.50
10/30/2009	776.80	0.24	81.60	670.80	94.90	717.30	132.90	679.30	72.20	678.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
11/9/2009	776.10		81.60	670.80	94.90	717.30	132.70	679.50	72.20	678.50
11/20/2009	775.40		81.70	670.70	95.00	717.20	132.70	679.50	72.20	678.50
11/28/2009	774.90	0.00	81.70	670.70	95.00	717.20	132.70	679.50	72.20	678.50
12/9/2009	774.60		81.70	670.70	95.40	716.80	133.00	679.20	72.20	678.50
12/18/2009	774.60		81.60	670.80	95.70	716.50	133.10	679.10	72.20	678.50
12/29/2009	774.30	3.56	81.60	670.80	95.90	716.30	133.20	679.00	72.20	678.50
1/9/2010	773.90		81.60	670.80	95.90	716.30	133.30	678.90	72.20	678.50
1/17/2010	773.60		81.60	670.80	95.90	716.30	133.30	678.90	72.20	678.50
1/28/2010	779.90	7.84	81.90	670.50	95.90	716.30	133.40	678.80	72.20	678.50
2/4/2010	780.15		82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.00
2/12/2010	783.40		82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50
2/19/2010	784.00		82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50
2/26/2010	784.45	2.69	82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50
3/6/2010	785.60		81.80	670.60	95.70	716.50	132.90	679.30	72.10	678.60
3/15/2010	786.20		81.60	670.80	95.40	716.80	132.90	679.30	72.10	678.60
3/16/2010	786.30		81.60	670.80	95.40	716.80	132.90	679.30	72.10	678.60
3/24/2010	786.20	2.03	81.00	671.40	95.00	717.20	133.00	679.20	72.10	678.60
4/2/2010	785.80		81.20	671.20	94.70	717.50	133.20	679.00	72.10	678.60
4/4/2010	785.80		81.20	671.20	94.60	717.60	133.20	679.00	72.10	678.60
4/12/2010	787.40		81.30	671.10	94.40	717.80	133.20	679.00	72.10	678.60
4/20/2010	790.10		81.40	671.00	93.80	718.40	133.20	679.00	72.10	678.60
4/28/2010	792.60	1.19	81.40	671.00	93.40	718.80	133.20	679.00	72.10	678.60
5/6/2010	792.90		81.40	670.90	93.00	719.80	133.20	679.20	72.10	678.60
5/14/2010	792.40		81.50	670.90	92.40	721.00	133.00	679.40	72.10	678.60
5/21/2010	792.10		81.50	670.80	91.20	721.10	132.80	680.00	72.10	678.60
5/29/2010	791.70	0.00	81.60	670.90	91.10	721.40	132.20	680.40	72.10	678.60
6/8/2010	791.00		81.50	670.90	90.80	721.70	131.80	680.50	72.10	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
6/15/2010	790.60		81.50	670.00	90.50	722.00	131.70	680.50	72.10	678.60
6/22/2010	790.10		81.60	670.80	90.20	722.60	131.70	680.50	72.10	678.60
6/29/2010	789.70	0.00	81.60	670.90	89.60	722.70	131.70	680.60	72.10	678.60
7/8/2010	789.20		81.50	670.80	89.50	722.70	131.60	680.60	72.10	678.60
7/16/2010	788.70		81.60	670.80	89.50	722.80	131.60	680.70	72.10	678.60
7/23/2010	788.30		81.60	670.80	89.40	722.80	131.50	680.70	72.10	678.60
7/31/2010	787.70	0.00	81.60	670.80	89.40	722.80	131.50	680.70	72.10	678.60
8/7/2010	787.30		81.60	670.80	89.40	722.70	131.50	680.80	72.10	678.60
8/15/2010	786.70		81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60
8/23/2010	786.10		81.60	670.00	89.50	722.70	131.40	680.80	72.10	678.60
8/29/2010	785.60	0.00	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60
9/8/2010	784.90		81.60	670.00	89.50	722.70	131.40	680.80	72.10	678.60
9/17/2010	784.20		81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60
9/27/2010	783.50	0.00	81.60	670.80	89.50	722.40	131.40	680.70	72.10	678.60
10/8/2010	782.80		81.60	670.80	89.80	721.90	131.50	680.70	72.10	678.60
10/18/2010	782.20		81.60	670.80	90.30	721.60	131.50	680.50	72.10	678.60
10/28/2010	782.00	1.76	81.60	670.80	90.60	720.40	131.70	680.90	72.10	678.60
11/4/2010	781.70		81.60	670.80	91.80	720.70	131.30	681.10	72.10	678.60
11/15/2010	781.10		81.60	670.80	91.50	721.00	131.10	681.30	72.10	678.60
11/26/2010	780.80	1.33	81.60	670.80	91.20	721.00	130.90	681.50	72.10	678.60
12/8/2010	780.50		81.60	670.80	91.20	721.20	130.70	681.50		
12/16/2010	780.40		81.60	752.40	91.00	721.80	130.70	680.00		
12/30/2010	792.60	11.72		670.80	90.40	721.80	132.20	680.70		
1/6/2011	792.20		81.60	670.80	90.40	721.80	131.50	680.60		
1/7/2011	792.20		81.60	720.40	90.40	724.10	131.60	682.60		
1/17/2011	792.00		31.10	720.40	88.10	725.10	129.60	680.80	72.10	678.60
1/27/2011	791.80	1.11	32.00	718.90	87.10	725.30	131.40	681.20	72.10	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
2/5/2011	791.80		33.50	718.00	86.90	725.60	131.00	681.40	72.10	678.60
2/15/2011	791.80		34.40	717.60	86.60	725.80	130.80	681.60	72.10	678.60
2/23/2011	792.20	2.87	34.80	717.70	86.40	726.20	130.60	681.30	72.10	678.60
3/8/2011	792.10		34.70	717.70	86.00	726.40	130.90	681.00	72.10	678.60
3/19/2011	791.80		34.70	717.70	85.80	726.70	131.20	680.80	72.10	678.60
3/30/2011	791.50	3.23	34.70	717.70	85.50	726.80	131.40	681.20	72.10	678.60
4/7/2011	792.10		34.70	717.70	85.40	726.90	131.00	681.30	72.10	678.60
4/16/2011	792.50		34.70	717.60	85.30	727.00	130.90	681.60	72.10	678.60
4/23/2011	792.60		34.80	717.70	85.20	727.10	130.60	682.00	72.10	678.60
4/30/2011	792.60	0.00	34.70	717.30	85.10	727.40	130.20	681.60	72.10	678.60
5/9/2011	792.40		35.10	715.30	84.80	727.30	130.60	681.30	72.10	678.60
5/16/2011	792.40		37.10	716.30	84.90	727.30	130.90	681.20	72.10	678.60
5/24/2011	792.40		36.10	715.40	84.90	727.20	131.00	681.20	72.10	678.60
5/31/2011	792.40	0.81	37.00	715.40	85.00	727.20	131.00	681.20	72.10	678.60
6/8/2011	792.10		37.00	715.30	85.00	727.20	131.00	681.20	72.10	678.60
6/16/2011	791.90		37.10	715.30	85.00	727.20	131.00	681.80	72.10	678.60
6/23/2011	791.80		37.10	714.60	85.00	727.20	130.40	681.70	72.10	678.60
6/30/2011	791.60	0.00	37.80	714.60	85.00	727.20	130.50	681.70	72.10	678.60
7/8/2011	791.40		37.80	716.40	85.00	727.20	130.50	681.70	72.10	678.60
7/14/2011	791.20		36.00	717.50	85.00	727.20	130.50	681.70	72.10	678.60
7/21/2011	790.90		34.90	717.40	85.00	727.20	130.50	681.70	72.10	678.60
7/30/2011	790.40	0.00	35.00	717.40	85.00	726.10	130.50	681.80	72.10	678.60
8/9/2011	789.90		35.00	717.40	86.10	726.90	130.40	681.90	72.10	678.60
8/15/2011	789.70		35.00	717.40	85.30	724.50	130.30	682.00	72.10	678.60
8/24/2011	789.00		35.00	717.40	87.70	726.20	130.20	682.10	72.10	678.60
9/1/2011	788.65	0.00	35.00	717.40	86.00	725.00	130.10	681.90	72.10	678.60
9/9/2011	787.90		35.00	717.40	87.20	726.90	130.30	681.70	72.10	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
9/16/2011	787.30		35.00	717.40	85.30	727.20	130.50	681.50	72.10	678.60
9/23/2011	787.00		35.00	717.40	85.00	725.20	130.70	681.30	72.10	678.60
9/29/2011	786.80	0.08	35.00	716.40	87.00	724.60	130.90	681.50	72.10	678.60
10/8/2011	786.60		36.00	714.60	87.60	724.40	130.70	681.80	72.10	678.60
10/15/2011	786.40		37.80	713.80	87.80	724.00	130.40	681.90	72.10	678.60
10/26/2011	786.00	1.29	38.60	713.80	88.20	723.90	130.30	681.90	72.10	678.60
11/5/2011	785.50		38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60
11/14/2011	785.40		38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60
11/22/2011	785.10		38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60
11/30/2011	785.10	1.79	38.60	714.40	88.30	723.90	130.30	681.90	72.10	678.60
12/9/2011	784.80		38.40	714.40	88.30	723.70	130.30	681.60	72.10	678.60
12/17/2011	784.60		38.00	714.80	88.50	723.60	130.60	682.20	72.10	678.60
12/22/2011	784.50		37.60	715.00	88.60	723.00	130.00	681.00	72.10	678.60
12/30/2011	784.30	0.45	37.40	715.30	89.20	722.90	131.20	681.00	72.10	678.60
1/7/2012	784.00		37.10	715.00	89.30	722.80	131.20	681.00	72.10	678.60
1/14/2012	783.80		37.40	715.30	89.40	722.30	131.20	681.00	72.10	678.60
1/21/2012	783.60		37.10	715.70	89.90	722.40	131.20	681.00	72.10	678.60
1/28/2012	783.60	1.72	36.70	715.90	89.80	723.20	131.20	681.00	72.10	678.60
2/7/2012	783.40		36.50	716.00	89.00	722.20	131.20	681.00	72.10	678.60
2/15/2012	783.40		36.40	716.20	90.00	722.10	131.20	681.00	72.10	678.60
2/25/2012	783.40	0.62	36.20	716.20	90.10	722.00	131.20	681.00	72.10	678.60
3/5/2012	783.20		36.20	716.30	90.20	721.80	131.20	681.00	72.10	678.60
3/15/2012	782.70		36.10	716.20	90.40	721.40	131.20	681.00	72.10	678.60
3/22/2012	782.60	2.01	36.20	716.00	90.80	721.30	131.20	681.00	72.10	678.60
4/3/2012	782.50		36.40	716.00	90.90	721.30	131.20	681.00	72.10	678.60
4/12/2012	782.10		36.40	715.80	90.90	721.10	131.20	681.00	72.10	678.60
4/21/2012	782.00		36.60	715.80	91.10	721.10	131.20	681.00	72.10	678.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
4/23/2012	781.90	1.32	36.60	715.80	91.10	721.30	131.20	681.00	72.10	678.60
5/1/2012	781.70		36.60	715.80	90.90	721.20	131.20	681.00	72.10	678.60
5/7/2012	781.30		36.60	715.70	91.00	721.10	131.20	681.00	72.10	678.60
5/21/2012	780.90		36.70	714.60	91.10	720.20	131.20	680.30	72.10	679.10
5/25/2012	780.00	0.06	37.30	715.20	91.30	720.50	131.20	680.30	75.30	682.30
6/4/2012	779.60		36.70	714.60	91.00	720.40	131.20	680.30	72.10	682.30
6/13/2012	778.70		37.30	714.20	91.10	719.60	131.20	680.20	72.10	679.10
6/20/2012	778.00		37.70	714.30	91.90	719.40	131.30	680.20	75.30	679.10
6/25/2012	777.30	0.00	37.60	714.10	92.10	719.10	131.30	680.20	75.30	679.20
7/4/2012	776.30		37.80	714.10	92.40	718.90	131.30	680.30	75.20	679.20
7/13/2012	775.70		37.80	713.90	92.60	718.60	131.20	680.10	75.20	679.20
7/20/2012	775.20		38.00	713.80	92.90	718.40	131.40	680.00	75.20	679.20
7/30/2012	775.00	0.10	38.10	713.00	93.10	718.40	131.50	679.80	75.20	679.20
8/8/2012	773.00		38.10	713.80	93.10	718.40	131.70	679.80	75.20	679.20
8/9/2012	772.90		38.10	713.60	93.10	718.40	131.70	679.80	75.20	679.20
8/18/2012	772.00		38.30	713.40	93.10	718.40	131.70	679.80	75.20	679.10
8/27/2012	771.10		38.50	713.40	93.10	718.40	131.70	679.80	75.30	679.10
8/29/2012	770.90	0.00	38.50	713.00	93.10	718.40	131.70	680.00	75.30	679.10
9/8/2012	769.80		38.90	713.00	93.10	718.40	131.00	681.40	75.30	679.10
9/15/2012	768.90		38.90	712.90	93.10	718.40	130.10	679.00	75.30	679.10
9/29/2012	767.80	0.00	39.00	712.60	93.10	715.80	132.50	678.90	75.30	679.10
10/11/2012	766.80		39.30	712.60	95.70	715.80	132.60	678.90	75.30	679.10
10/23/2012	765.90	1.10	39.30	712.10	95.70	715.80	132.60	679.00	75.30	679.20
11/12/2012	764.60		39.80	712.10	95.70	715.80	132.50	679.30	75.20	679.20
11/23/2012	764.30	0.16	39.80	712.10	95.70	715.80	132.20	678.90	75.20	679.20
12/12/2012	764.50	2.46	39.80	712.40	95.70	716.40	132.60	679.60	75.20	675.50
12/27/2012	769.10		40.00	712.10	95.80	716.40	132.60	679.70	75.20	675.60

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
1/16/2013	770.40		40.30	712.00	95.80	716.40	132.50	679.70	75.10	675.60
1/28/2013	769.90	1.82	40.40	711.80	95.80	716.00	132.50	679.70	75.10	675.60
2/15/2013	769.60		40.60	711.70	95.60	716.60	132.50	677.10	75.10	675.30
2/26/2013	769.40	0.68	40.70	711.50	95.60	716.40	135.10	679.80	75.40	675.60
3/13/2013	768.80		40.90	711.10	95.80	716.40	132.40	679.80	75.10	675.60
3/26/2013	768.60	0.66	41.30	710.80	95.80	716.40	132.40	679.80	75.10	675.60
4/10/2013	771.10		41.60	710.80	95.80	716.40	132.40	679.80	75.10	675.60
4/30/2013	772.20	0.00	41.60	710.40	95.80	716.30	132.40	680.20	75.10	675.10
5/9/2013	771.90		42.00	710.40	95.90	716.30	132.00	680.20	75.60	675.10
5/15/2013	771.70		42.00	710.40	95.90	716.30	132.00	680.20	75.60	675.10
5/22/2013	771.40		42.00	710.40	95.90	716.30	132.00	680.20	75.60	674.80
5/30/2013	771.00	0.00	42.00	710.20	95.90	716.20	132.00	682.30	75.90	675.20
6/6/2013	770.80		42.20	710.20	96.00	716.20	129.90	682.30	75.50	675.20
6/13/2013	769.30		42.20	710.00	96.00	716.20	129.90	679.80	75.50	675.20
6/20/2013	769.00		42.40	710.30	96.00	716.20	132.40	679.00	75.50	675.20
6/26/2013	768.60	0.00	42.10	709.70	96.00	716.20	132.40	682.30	75.50	675.20
7/2/2013	767.80		42.70	709.70	96.00	716.20	129.90	682.30	75.50	675.00
7/10/2013	766.90		42.70	709.70	96.00	716.30	129.90	682.40	75.60	674.90
7/16/2013	766.50		42.70	709.70	95.90	716.30	129.80	682.40	75.80	674.90
7/29/2013	765.20	0.00	42.70	709.70	95.90	716.20	129.80	682.30	75.80	675.20
8/5/2013	764.50		42.70	709.70	96.00	716.40	129.90	682.30	75.50	675.20
8/12/2013	763.80		42.70	709.50	95.80	716.40	129.90	680.40	75.50	675.20
8/19/2013	763.30		42.90	709.50	95.80	716.40	131.80	681.80	75.50	675.20
8/26/2013	762.40	0.00	42.90	709.70	95.80	716.20	130.40	682.30	75.50	675.20
9/2/2013	761.50		42.70	709.20	96.00	716.20	129.90	682.30	75.50	675.20
9/10/2013	760.70		43.20	709.60	96.00	716.20	129.90	682.30	75.50	675.00
9/17/2013	759.90		42.80	713.10	96.00	716.20	129.90	682.30	75.50	675.20

Notes:

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2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
9/23/2013	759.40		39.30	713.10	96.00	716.20	129.90	682.30	75.50	675.20
9/30/2013	758.70	0.00	39.30	712.90	96.00	716.30	129.90	682.20	75.50	675.20
10/7/2013	758.30		39.50	712.90	95.90	716.30	130.00	679.00	75.50	675.20
10/14/2013	757.60		39.50	712.90	95.90	716.30	133.20	679.20	75.50	675.20
10/21/2013	756.60		39.50	712.70	95.90	716.30	133.00	679.20	75.50	675.20
10/28/2013	756.00	0.00	39.70	712.60	95.90	716.30	133.00	679.30	75.50	675.20
11/4/2013	755.70		39.80	712.60	95.90	716.30	132.90	679.30	75.50	675.20
11/11/2013	756.10		39.80	712.50	95.90	716.20	132.90	679.40	75.50	675.20
11/18/2013	755.70		39.90	712.50	96.00	716.20	132.80	679.40	75.50	675.20
11/25/2013	755.40	0.55	39.90	712.40	96.00	716.30	132.80	679.40	75.50	675.20
12/2/2013	755.30		40.00	712.20	95.90	716.20	132.80	679.60	75.50	675.20
12/10/2013	755.40		40.20	712.20	96.00	716.20	132.60	679.60	75.50	675.20
12/16/2013	755.20		40.20	712.10	96.00	716.20	132.60	679.60	75.50	675.20
12/23/2013	755.20		40.30	712.00	96.00	716.20	132.60	679.20	75.50	675.20
12/30/2013	754.80	0.83	40.40	711.90	96.00	716.20	133.00	678.90	75.50	675.20
1/6/2014	754.50		40.50	711.90	96.00	716.10	133.30	678.90	75.50	675.20
1/13/2014	755.00		40.50	711.80	96.10	716.10	133.30	679.30	75.50	675.20
1/20/2014	754.60		40.60	711.70	96.10	716.10	132.90	679.30	75.50	675.20
1/27/2014	754.30	0.00	40.70	711.90	96.10	716.20	132.90	679.50	75.50	675.20
2/3/2014	754.10		40.50	711.60	96.00	716.20	132.70	679.60	75.50	675.20
2/10/2014	754.70		40.80	711.60	96.00	716.20	132.60	679.60	75.50	675.20
2/17/2014	754.50		40.80	711.60	96.00	716.20	132.60	679.60	75.50	675.20
2/24/2014	754.20	0.83	40.80	711.60	96.00	716.20	132.60	679.60	75.50	675.20
3/3/2014	754.50		40.80	711.60	96.00	716.20	132.60	679.60	75.50	675.20
3/10/2014	755.20		40.80	711.20	96.00	716.20	132.60	679.60	75.50	675.20
3/19/2014	755.90		41.20	711.20	96.00	716.20	132.60	679.60	75.50	675.20
3/25/2014	758.80		41.20	711.20	96.00	716.20	132.60	679.60	75.50	675.20

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
3/29/2014	760.50		41.20	711.20	96.00	716.20	132.60	679.80	75.50	675.20
3/31/2014	761.60	1.85	41.20	711.00	96.00	716.20	132.60	679.90	75.50	675.20
4/1/2014	762.00		41.40	711.00	96.00	716.20	132.30	679.90	75.50	675.20
4/8/2014	764.70		41.40	711.00	96.00	716.20	132.30	679.90	75.50	675.20
4/15/2014	766.60		41.40	711.00	96.00	716.20	132.30	679.90	75.50	675.20
4/22/2014	768.60		41.40	711.00	96.00	716.20	132.30	679.90	75.50	675.20
4/29/2014	770.40	0.88	41.40	710.80	96.00	716.20	132.30	679.60	75.50	675.20
5/5/2014	769.70		41.60	710.80	96.00	716.20	132.60	679.60	75.50	675.20
5/12/2014	769.00		41.60	710.60	96.00	716.20	132.60	679.60	75.50	675.20
5/19/2014	768.00		41.60	710.80	96.00	716.20	132.60	679.80	75.50	675.20
5/26/2014	767.10	0.00	41.60	710.50	96.00	716.20	132.60	679.60	75.50	675.20
6/2/2014	766.20		41.90	710.50	96.00	716.20	132.60	679.60	75.50	675.20
6/9/2014	765.40		41.90	710.40	96.00	716.10	132.60	679.60	75.50	675.20
6/16/2014	764.30		42.00	710.40	96.10	716.10	132.60	679.60	75.50	675.20
6/23/2014	763.10		42.00	710.40	96.10	716.10	132.60	679.60	75.50	675.20
6/27/2014	762.30	0.00	42.00	710.20	96.10	715.90	132.60	679.60	75.50	675.20
7/7/2014	760.90		42.20	710.20	96.30	715.90	132.60	679.60	75.50	675.20
7/14/2014	760.00		42.20	710.10	96.30	715.70	132.60	679.60	75.50	675.20
7/21/2014	759.10		42.30	710.10	96.50	715.70	132.60	679.60	75.50	675.20
7/28/2014	757.90	0.06	42.30	710.00	96.50	715.50	132.60	679.60	75.50	675.20
8/4/2014	756.80		42.40	710.00	96.70	715.50	132.60	679.60	75.50	675.20
8/11/2014	755.60		42.40	709.80	96.70	715.80	132.60	679.50	75.50	675.20
8/18/2014	754.70		42.60	709.80	96.40	715.80	132.70	679.50	75.50	675.20
8/25/2014	753.30	0.05	42.60	709.60	96.40	715.70	132.70	679.50	75.50	675.20
9/2/2014	751.60		42.80	709.60	96.50	715.70	132.70	679.50	75.50	675.20
9/8/2014	750.50		42.80	709.60	96.50	715.70	132.70	679.50	75.50	675.20
9/15/2014	749.40		42.80	709.60	96.50	715.70	132.70	679.50	75.50	675.20

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
9/22/2014	748.30		42.80	709.50	96.50	715.70	132.70	679.50	75.50	675.20
9/29/2014	747.20	0.00	42.90	709.30	96.50	715.70	132.70	679.50	75.50	675.20
10/6/2014	745.70		43.10	709.30	96.50	714.50	132.70	679.10	75.50	675.20
10/13/2014	746.70		43.10	709.30	97.70	714.40	133.10	679.10	75.50	675.20
10/20/2014	746.60		43.10	709.30	97.80	714.20	133.10	679.10	75.50	675.20
10/27/2014	745.80	0.00	43.10	709.30	98.00	714.20	133.10	679.00	75.50	675.20
11/3/2014	746.40		43.10	709.30	98.00	714.20	133.20	679.00	75.50	675.00
11/10/2014	747.20		43.10	709.10	98.00	714.10	133.20	678.90	75.50	675.20
11/17/2014	747.70		43.30	709.10	98.10	714.10	133.30	678.90	75.50	675.20
11/24/2014	748.80	0.61	43.30	708.80	98.10	713.70	133.30	679.00	75.50	675.20
12/1/2014	748.30		43.60	708.70	98.50	713.70	133.20	679.00	75.50	675.20
12/8/2014	749.10		43.70	708.70	98.50	712.60	133.20	678.90	75.50	675.20
12/15/2014	749.80		43.70	708.50	99.60	711.40	133.30	678.90	75.50	675.20
12/29/2014	750.90	5.37	43.90	708.50	100.80	711.40	133.30	678.90	75.50	675.20
1/5/2015	751.30		43.90	708.50	100.80	712.30	133.30	679.10	75.50	675.20
1/12/2015	751.80		43.90	708.50	99.90	712.30	133.10	679.10	75.50	675.20
1/19/2015	752.30		43.90	708.30	99.90	712.30	133.10	679.10	75.50	675.20
1/26/2015	752.60	1.48	44.10	708.00	99.90	711.40	133.10	678.90	75.50	675.20
2/4/2015	753.10		43.90	708.00	100.80	711.40	133.30	678.90	75.50	675.20
2/9/2015	753.30		44.20	708.10	100.80	711.40	133.30	678.80	75.50	675.20
2/16/2015	753.80		44.30	708.00	100.80	711.40	133.40	678.80	75.50	675.20
2/23/2015	753.90	0.44	44.30	708.00	100.80	711.30	133.40	678.80	75.50	675.20
3/2/2015	754.50		44.40	708.00	100.90	711.30	133.40	678.80	75.50	675.20
3/9/2015	755.00		44.40	707.80	100.90	710.80	133.40	678.80	75.50	675.20
3/16/2015	755.30		44.60	707.80	101.40	710.80	133.40	678.80	75.50	675.20
3/23/2015	755.50		44.60	707.80	101.40	710.40	133.40	678.50	75.50	675.20
3/30/2015	755.70	0.57	44.60	707.80	101.80	710.40	133.70	678.50	75.50	675.20

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
4/6/2015	755.60		44.60	707.60	101.80	709.90	133.70	678.50	75.50	675.20
4/13/2015	755.80		44.80	707.50	102.30	710.20	133.70	678.50	75.50	675.20
4/20/2015	755.90		44.90	707.50	102.00	710.20	133.70	678.50	75.50	675.20
4/27/2015	755.90	0.20	44.90	707.50	102.00	709.50	133.70	678.50	75.50	675.20
5/4/2015	755.60		44.90	707.50	102.70	709.50	133.70	678.50	75.50	675.20
5/11/2015	755.30		44.90	707.30	102.70	709.00	133.70	678.50	75.50	675.20
5/18/2015	755.20		45.10	707.30	103.20	709.00	133.70	678.50	75.50	675.20
5/26/2015	755.30	0.95	45.10	707.10	103.20	708.50	133.70	678.10	75.50	675.20
6/1/2015	755.20		45.30	707.10	103.70	708.50	134.10	678.10	75.50	675.20
6/8/2015	755.10		45.30	707.00	103.70	707.80	134.10	678.10	75.50	675.20
6/15/2015	755.20		45.40	707.00	104.40	707.80	134.10	678.10	75.50	675.20
6/22/2015	754.80		45.40	707.00	104.40	707.80	134.10	678.10	75.50	675.20
6/29/2015	754.20	0.00	45.40	715.40	104.40	707.00	134.10	678.20	75.50	675.20
7/10/2015	753.30		37.00	715.30	105.20	706.80	134.00	678.20	75.50	675.20
7/15/2015	753.00		37.10	715.20	105.40	706.90	134.00	678.00	75.50	675.20
7/21/2015	752.80		37.20	715.20	105.30	706.90	134.20	677.70	75.50	675.00
7/28/2015	752.40	0.00	37.20	715.20	105.30	706.90	134.50	677.70	75.50	675.20
8/4/2015	752.00		37.20	715.10	105.30	706.60	134.50	677.50	75.50	675.20
8/11/2015	751.60		37.30	715.10	105.60	706.60	134.70	677.50	75.50	675.20
8/18/2015	751.10		37.30	715.00	105.60	706.50	134.70	677.40	75.50	675.20
8/25/2015	750.60	0.00	37.40	715.00	105.70	706.50	134.80	677.40	75.50	675.20
9/1/2015	749.90		37.40	715.00	105.70	706.50	134.80	677.40	75.50	675.20
9/8/2015	749.00		37.40	715.00	105.70	706.50	134.80	677.40	75.50	675.20
9/15/2015	748.70		37.40	715.00	105.70	705.70	134.80	677.40	75.50	675.20
9/22/2015	748.40		37.40	715.00	106.50	705.00	134.80	677.40	75.50	675.20
9/29/2015	748.00	2.27	37.40	714.40	107.20	704.30	134.80	676.70	75.50	678.90
10/6/2015	747.60		37.50	713.90	107.20	704.00	134.80	676.70	75.50	678.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
10/13/2015	747.10		38.00	713.90	107.50	704.00	134.80	676.70	75.50	678.90
10/20/2015	746.70		38.00	713.90	107.50	704.00	134.80	676.70	75.50	678.90
10/27/2015	746.00	0.56	38.00	713.80	107.50	704.00	134.80	676.70	75.50	678.90
11/4/2015	745.70		38.10	713.80	107.50	704.00	134.80	676.70	75.50	678.90
11/11/2015	745.20		38.10	713.70	107.50	704.00	134.80	676.70	75.50	678.90
11/18/2015	744.80		38.20	713.70	107.50	704.00	134.80	676.70	75.50	678.90
11/25/2015	744.20	0.12	38.20	713.60	107.50	701.10	134.80	676.50	75.50	678.90
12/1/2015	743.70		38.30	713.40	110.40	701.00	135.00	676.40	75.50	678.90
12/8/2015	743.10		38.50	713.30	110.50	700.30	135.10	676.30	75.50	678.90
12/15/2015	742.70		38.60	713.00	111.20	700.30	135.20	676.30	75.50	678.90
12/22/2015	742.30		38.50	713.00	111.20	700.90	135.20	676.30	75.50	678.90
12/29/2015	742.10	1.29	38.60	713.20	110.60	700.90	135.20	676.10	75.50	678.00
1/5/2016	741.70		38.70	713.20	111.50	700.00	135.40	676.10	77.50	678.90
1/12/2016	742.30		38.70	713.10	111.50	700.00	135.40	676.10	77.50	678.90
1/19/2016	742.00		38.80	712.90	111.50	699.90	135.40	676.10	77.50	678.90
1/26/2016	741.80	3.51	39.00	712.90	111.60	699.90	135.40	676.10	77.50	678.90
2/2/2016	741.40		39.00	712.80	111.60	700.30	135.40	676.10	77.50	678.90
2/9/2016	741.00		39.10	712.70	111.20	700.20	135.40	676.10	77.50	678.90
2/16/2016	740.50		39.20	712.60	111.30	700.20	135.40	676.10	77.50	678.90
2/23/2016	740.20	0.35	39.30	712.60	111.30	700.20	135.40	676.10	77.50	678.90
3/1/2016	739.70		39.30	712.50	111.30	700.60	135.40	676.10	77.50	678.90
3/9/2016	739.40		39.40	712.50	110.90	700.50	135.40	676.10	77.50	678.90
3/17/2016	739.30		39.40	712.40	111.00	700.50	135.40	676.10	77.50	678.90
3/23/2016	739.10		39.50	712.30	111.00	700.50	135.40	676.10	77.50	678.90
3/30/2016	738.50	1.59	39.60	712.30	111.00	700.50	135.40	676.10	77.50	678.90
4/6/2016	738.00		39.60	712.10	111.30	700.00	135.40	676.10	77.50	678.90
4/13/2016	737.60		39.80	712.20	111.50	700.10	135.40	676.10	77.50	678.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
4/20/2016	736.90		39.70	712.20	111.40	700.10	135.40	676.10	77.50	678.90
4/27/2016	736.20	0.07	39.70	713.30	111.40	700.20	135.40	676.30	77.50	676.90
5/4/2016	736.90		39.60	713.20	111.30	699.90	135.40	676.10	77.50	676.90
5/11/2016	737.50		39.80	713.20	111.60	699.30	135.40	676.10	77.50	676.90
5/18/2016	737.00		40.00	713.10	112.20	698.90	135.40	676.10	77.50	676.90
5/25/2016	737.60	1.21	40.20	712.90	112.60	698.90	135.40	676.10	77.50	676.90
6/1/2016	737.60		40.20	712.90	112.60	698.90	135.40	676.10	75.50	676.90
6/8/2016	737.90		40.20	712.80	112.60	698.90	135.40	676.10	75.50	676.90
6/15/2016	738.00		40.20	712.70	112.60	698.90	135.40	676.10	75.50	676.90
6/23/2016	737.70		40.20	712.60	112.60	698.90	135.50	676.10	75.50	676.90
6/29/2016	737.50	0.00	40.20	711.50	112.60	698.90	135.50	676.00	75.50	676.90
7/6/2016	737.40		40.40	711.30	112.60	698.90	135.50	676.00	75.50	676.90
7/15/2016	737.40		40.60	711.10	112.60	698.90	135.50	675.90	75.50	676.90
7/20/2016	737.10		40.80	711.10	112.60	698.90	135.60	675.90	75.50	676.90
7/27/2016	736.70	0.00	40.80	710.90	112.60	698.90	135.60	675.90	75.50	676.90
8/3/2016	736.90		41.00	711.00	112.60	698.90	135.60	675.90	75.50	676.90
8/10/2016	737.10		40.90	710.80	112.60	698.90	135.60	675.90	75.50	676.90
8/17/2016	736.60		41.10	710.80	112.60	698.90	135.60	675.00	75.50	676.90
8/24/2016	736.70		41.10	710.80	112.60	698.90	135.60	675.90	75.50	676.90
8/30/2016	736.70	0.00	41.10	710.80	112.60	698.90	135.60	675.00	75.50	676.90
9/7/2016	737.30		41.10	710.10	112.60	698.90	135.60	675.90	75.50	676.90
9/14/2016	737.90		41.80	709.50	112.60	698.90	135.60	675.90	75.50	676.90
9/21/2016	738.80		42.40	709.30	112.60	698.90	135.60	675.90	75.50	676.90
9/28/2016	739.60	0.00	42.60	709.30	112.60	698.90	135.60	675.90	75.50	678.90
10/5/2016	739.50		42.60	709.00	112.60	698.90	135.60	675.90	75.50	678.90
10/12/2016	739.20		42.90	708.60	112.60	698.90	135.60	675.90	75.50	678.90
10/19/2016	739.30		43.30	708.70	112.60	698.90	135.60	675.90	75.50	678.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
10/26/2016	740.00	0.89	43.20	708.70	112.60	698.90	135.60	675.90	75.50	678.90
11/2/2016	741.80		43.20	708.70	112.60	698.90	135.60	675.90	75.50	678.90
11/9/2016	741.80		43.20	708.70	112.60	698.90	135.60	675.80	75.50	678.90
11/16/2016	744.00		43.20	708.70	112.60	698.90	135.70	675.80	75.50	678.90
11/23/2016	747.60		43.20	708.70	112.60	698.90	135.70	675.80	75.50	678.90
11/29/2016	750.90	1.62	43.20	708.70	112.60	698.90	135.70	675.00	75.50	678.90
12/7/2016	753.40		43.20	707.20	112.60	698.90	135.70	675.80	75.50	678.90
12/14/2016	753.70		44.70	706.80	112.60	698.90	135.70	675.80	75.50	678.90
12/21/2016	755.60		45.10	706.20	112.60	698.90	135.70	675.80	75.50	678.90
12/28/2016	757.00	4.37	45.70	706.20	112.60	698.90	135.70	675.80	75.50	678.90
1/4/2017	757.50		45.70	705.60	112.60	698.90	135.70	675.80	75.50	678.90
1/13/2017	758.10		46.30	705.40	112.60	698.90	135.70	675.00	75.50	678.90
1/18/2017	758.30		46.50	705.20	112.60	698.90	135.70	675.80	75.50	678.90
1/25/2017	758.00	6.73	46.70	705.20	112.60	698.90	135.70	675.80	75.50	678.90
2/1/2017	769.10		46.70	704.90	112.60	698.90	135.70	675.70	75.50	678.90
2/8/2017	769.70		47.00	705.10	112.60	698.90	135.80	675.80	75.50	678.90
2/15/2017	770.10		46.80	705.20	112.60	698.90	135.70	675.80	75.50	678.90
2/22/2017	771.80	4.17	46.70	705.20	112.60	698.90	135.70	675.80	75.50	678.90
3/1/2017	771.90		46.70	705.20	112.60	698.90	135.70	675.70	75.50	678.90
3/8/2017	771.20		46.70	704.30	112.60	699.20	135.80	675.60	75.50	678.90
3/15/2017	770.60		47.60	703.40	112.30	698.90	135.90	675.60	75.50	678.90
3/22/2017	769.60		48.50	703.20	112.60	698.90	135.90	675.60	75.50	678.90
3/29/2017	768.40	0.13	48.70	703.20	112.60	698.90	135.90	675.60	75.50	678.90
4/5/2017	769.10		48.70	703.10	112.60	699.60	135.90	675.60	75.50	678.90
4/12/2017	768.00		48.80	702.60	111.90	699.70	135.90	675.60	75.50	678.90
4/19/2017	767.90		49.30	702.60	111.80	699.60	135.90	675.60	75.50	678.00
4/26/2017	767.70	0.07	49.30	702.60	111.90	699.60	135.90	675.60	75.50	678.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
5/1/2017	767.40		49.30	702.30	111.90	699.90	135.90	675.90	75.50	678.90
5/10/2017	766.50		49.60	701.90	111.60	700.00	135.60	675.90	75.50	678.90
5/17/2017	765.90		50.00	701.90	111.50	700.00	135.60	675.90	75.50	678.90
5/24/2017	765.70		50.00	702.00	111.50	700.00	135.60	675.90	75.50	678.90
5/30/2017	765.50	0.36	49.90	701.70	111.50	700.00	135.60	675.90	75.50	678.90
6/7/2017	765.30		50.20	701.50	111.50	700.10	135.60	675.90	75.50	678.90
6/14/2017	765.10		50.40	701.20	111.40	700.10	135.60	675.80	75.50	678.90
6/21/2017	764.80		50.70	701.20	111.40	700.40	135.70	675.80	75.50	678.90
6/28/2017	764.70	0.05	50.70	700.40	111.10	700.40	135.70	675.80	75.50	678.90
7/5/2017	764.20		51.50	700.20	111.10	700.20	135.70	675.80	75.50	678.90
7/12/2017	763.80		51.70	700.10	111.30	700.20	135.70	675.80	75.50	678.90
7/19/2017	763.20		51.80	700.10	111.30	700.30	135.70	675.80	75.50	678.90
7/26/2017	762.70	0.00	51.80	700.10	111.20	700.30	135.70	675.80	75.50	678.90
8/2/2017	761.90		51.80	700.10	111.20	700.30	135.70	675.80	75.50	678.90
8/9/2017	761.60		51.80	699.70	111.20	700.30	135.70	675.80	75.50	678.90
8/16/2017	761.20		52.20	699.60	111.20	700.30	135.70	675.80	75.50	678.90
8/23/2017	760.60		52.30	699.60	111.20	700.30	135.70	675.80	75.50	678.90
8/30/2017	759.80	0.05	52.30	699.40	111.20	700.30	135.70	675.80	75.50	678.90
9/6/2017	758.90		52.50	699.00	111.20	700.40	135.70	675.90	75.50	678.90
9/13/2017	758.70		52.90	698.80	111.10	700.30	135.60	675.80	75.50	678.90
9/20/2017	758.30		53.10	698.70	111.20	700.30	135.70	675.80	75.50	678.90
9/27/2017	757.80	0.00	53.20	698.50	111.20	700.30	135.70	675.80	75.50	678.90
10/4/2017	757.60		53.40	698.50	111.20	700.40	135.70	675.70	75.50	678.90
10/10/2017	757.10		53.40	698.30	111.10	700.50	135.80	675.70	75.50	678.90
10/18/2017	756.90		53.60	698.20	111.00	700.50	135.80	675.70	75.50	678.90
10/25/2017	756.60	0.00	53.70	698.10	111.00	700.50	135.80	675.70	75.50	678.90
11/1/2017	755.70		53.80	697.90	111.00	700.50	135.80	675.90	75.50	678.90

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
11/8/2017	755.30		54.00	697.90	111.00	700.50	135.60	675.70	75.50	678.90
11/15/2017	755.10	0.29	54.30	697.50	111.00	700.50	135.80	675.70	75.50	678.00
12/6/2017	754.20		54.40	697.20	111.00	700.50	135.80	675.70	75.50	678.90
12/13/2017	753.90		54.70	697.00	111.00	700.50	135.80	675.70	75.50	678.90
12/20/2017	753.60		54.90	696.90	111.00	700.50	135.80	675.70	75.50	678.90
12/27/2017	753.30	0.00	55.00	696.90	111.00	700.50	135.80	675.70	75.50	678.90
1/3/2018	753.10		55.00	696.92	111.00	700.52	135.80	675.71	75.50	678.86
1/10/2018	753.10		53.90	698.02	111.00	700.52	135.80	675.71	75.50	678.86
1/17/2018	753.00		51.10	700.82	111.00	700.52	135.80	675.71	75.50	678.86
1/24/2018	752.80		50.50	701.42	111.00	700.52	135.80	675.71	75.50	678.86
1/30/2018	752.60	1.79	49.50	702.42	111.00	700.52	135.80	675.71	75.50	678.86
2/7/2018	752.30		49.50	702.42	111.00	700.52	135.80	675.71	75.50	678.86
2/14/2018	751.80		50.20	701.72	111.00	700.52	135.80	675.71	74.30	680.06
2/21/2018	750.20		50.20	701.72	111.00	700.52	135.80	675.71	75.40	678.96
2/27/2018	750.30	0.60	50.40	701.52	111.00	700.52	135.80	675.71	75.40	678.96
3/7/2018	750.20		50.40	701.52	111.00	700.52	135.80	675.71	75.40	678.96
3/15/2018	750.10		50.60	701.32	111.00	700.52	135.80	675.71	77.50	676.86
3/21/2018	750.80		50.80	701.12	111.00	700.52	135.80	675.71	77.50	676.86
3/28/2018	750.90	0.56	50.90	701.02	111.10	700.42	135.80	675.71	77.50	676.86
4/4/2018	751.70		50.90	701.02	111.20	700.32	135.80	675.71	77.50	676.86
4/11/2018	751.70		51.10	700.82	111.40	700.12	135.80	675.71	77.50	676.86
4/18/2018	750.80		51.30	700.62	111.30	700.22	135.80	675.71	77.50	676.86
4/25/2018	749.50	0.05	51.40	700.52	111.40	700.12	135.80	675.71	77.50	676.86
5/1/2018	750.50		51.40	700.52	111.40	700.12	135.80	675.71	77.50	676.86
5/8/2018	749.40		51.50	700.42	111.40	700.12	135.80	675.71	77.50	676.86
5/15/2018	748.30		51.60	700.32	111.30	700.22	135.80	675.71	77.50	676.86
5/22/2018	747.00		51.70	700.22	111.30	700.22	135.80	675.71	77.50	676.86

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
5/29/2018	745.60	0.32	51.80	700.12	111.20	700.32	135.80	675.71	77.50	676.86
6/6/2018	744.70		51.80	700.12	111.20	700.32	135.80	675.71	77.50	676.86
6/13/2018	743.70		51.90	700.02	111.20	700.32	135.80	675.71	77.50	676.86
6/20/2018	742.50		51.90	700.02	111.20	700.32	135.80	675.71	77.50	676.86
6/27/2018	741.20	0.00	52.10	699.82	111.20	700.32	135.80	675.71	77.50	676.86
7/5/2018	739.80		52.10	699.82	111.20	700.32	135.80	675.71	77.50	676.86
7/11/2018	738.70		52.20	699.72	111.20	700.32	135.80	675.71	77.50	676.86
7/18/2018	738.50		52.30	699.62	111.30	700.22	135.90	675.61	77.50	676.86
7/25/2018	738.40	0.00	52.40	699.52	111.30	700.22	135.90	675.61	77.50	676.86
8/1/2018	738.10		52.50	699.42	111.30	700.22	135.90	675.61	77.50	676.86
8/8/2018	737.80		52.50	699.42	111.40	700.12	135.90	675.61	77.50	676.86
8/15/2018	737.70		52.60	699.32	111.40	700.12	135.90	675.61	77.50	676.86
8/22/2018	737.90		52.70	699.22	111.40	700.12	135.90	675.61	77.50	676.86
8/29/2018	737.90	0.00	52.80	699.12	111.50	700.02	135.90	675.61	77.50	676.86
9/5/2018	738.00		52.80	699.12	111.50	700.02	135.90	675.61	77.50	676.86
9/12/2018	737.90		52.90	699.02	111.50	700.02	135.90	675.61	77.50	676.86
9/19/2018	737.60		53.00	698.92	111.50	700.02	135.90	675.61	77.50	676.86
9/26/2018	737.30	0.00	53.00	698.92	111.50	700.02	135.90	675.61	77.50	676.86
10/3/2018	737.50		53.00	698.92	111.60	699.92	135.90	675.61	77.50	676.86
10/10/2018	737.70		53.10	698.82	111.70	699.82	135.90	675.61	77.50	676.86
10/17/2018	738.20		53.10	698.82	111.80	699.72	135.90	675.61	77.50	676.86
10/24/2018	738.60		53.10	698.82	112.30	699.22	135.90	675.61	77.50	676.86
10/30/2018	738.50	0.69	53.10	698.82	112.30	699.22	135.90	675.61	77.50	676.86
11/7/2018	738.40		53.30	698.62	112.60	698.92	135.90	675.61	77.50	676.86
11/16/2018	737.70		53.40	698.52	112.60	698.92	135.90	675.61	77.50	676.86
11/21/2018	737.50		53.50	698.42	112.60	698.92	135.90	675.61	77.50	676.86
11/28/2018	737.20	1.66	53.60	698.32	112.60	698.92	135.90	675.61	77.50	676.86

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
12/5/2018	737.60		53.70	698.22	112.60	698.92	135.90	675.61	77.50	676.86
12/12/2018	737.70		53.80	698.12	112.60	698.92	135.90	675.61	77.50	676.86
12/19/2018	737.60		53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86
12/27/2018	737.40	2.05	53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86
1/2/2019	737.10		53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86
1/9/2019	738.40		60.00	691.92	112.60	698.92	134.50	677.01	77.50	676.86
1/16/2019	738.50		53.50	698.42	112.60	698.92	134.20	677.31	77.50	676.86
1/23/2019	740.80		53.00	698.92	112.60	698.92	134.00	677.51	77.50	676.86
1/30/2019	740.70	5.18	53.10	698.82	112.60	698.92	133.70	677.81	77.50	676.86
2/6/2019	745.80		52.80	699.12	112.60	698.92	131.70	679.81	77.50	676.86
2/13/2019	747.80		52.30	699.62	112.60	698.92	130.70	680.81	77.50	676.86
2/20/2019	764.70		44.50	707.42	112.60	698.92	130.00	681.51	77.50	676.86
2/27/2019	766.80	8.65	35.70	716.22	112.60	698.92	130.40	681.11	77.50	676.86
3/6/2019	769.50		35.70	716.22	112.60	698.92	130.40	681.11	77.50	676.86
3/13/2019	772.00		36.20	715.72	112.60	698.92	130.50	681.01	77.50	676.86
3/20/2019	773.30		36.60	715.32	112.60	698.92	130.70	680.81	77.50	676.86
3/27/2019	774.30	2.49	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
4/3/2019	774.50		37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
4/10/2019	774.70		37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
1/17/2019	774.80		37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
4/24/2019	774.90	0.10	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
5/1/2019	774.90		37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86
5/8/2019	774.90		37.00	714.92	112.60	698.92	130.50	681.01	77.50	676.86
5/15/2019	774.60		37.10	714.82	110.70	700.82	130.50	681.01	77.50	676.86
5/22/2019	773.90		37.20	714.72	110.80	700.72	130.50	681.01	77.50	676.86
5/29/2019	773.10	1.07	37.30	714.62	110.90	700.62	130.50	681.01	77.50	676.86
6/5/2019	772.10		37.40	714.52	110.60	700.92	130.50	681.01	77.50	676.86

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
6/12/2019	770.80		37.60	714.32	110.30	701.22	130.50	681.01	77.50	676.86
6/19/2019	769.50		37.70	714.22	110.40	701.12	130.50	681.01	77.50	676.86
6/26/2019	768.10	0.03	37.80	714.12	110.00	701.52	130.50	681.01	77.50	676.86
7/3/2019	766.70		37.80	714.12	110.00	701.52	130.40	681.11	77.50	676.86
7/5/2019	766.20		38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86
7/10/2019	765.10		38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86
7/17/2019	763.40		38.20	713.72	110.00	701.52	130.40	681.11	77.50	676.86
7/24/2019	761.70		38.10	713.82	110.00	701.52	130.40	681.11	77.50	676.86
7/30/2019	760.50	0.00	38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86
8/7/2019	759.60		38.20	713.72	110.00	701.52	130.40	681.11	77.50	676.86
8/14/2019	758.80		38.40	713.52	110.00	701.52	130.40	681.11	77.50	676.86
8/21/2019	757.80		38.60	713.32	110.00	701.52	130.50	681.01	77.50	676.86
8/28/2019	757.20	0.00	38.80	713.12	110.20	701.32	130.60	680.91	77.50	676.86
9/4/2019	756.70		38.90	713.02	110.20	701.32	130.20	681.31	77.50	676.86
9/11/2019	756.30		39.10	712.82	110.20	701.32	130.00	681.51	77.50	676.86
9/18/2019	755.90		39.20	712.72	110.20	701.32	129.90	681.61	76.00	678.36
9/25/2019	755.20	0.00	39.30	712.62	110.20	701.32	129.80	681.71	76.10	678.26
10/2/2019	754.60		39.40	712.52	110.20	701.32	129.80	681.71	75.10	679.26
10/10/2019	754.30		39.60	712.32	110.30	701.22	129.80	681.71	75.10	679.26
10/16/2019	753.90		39.70	712.22	110.40	701.12	129.80	681.71	75.10	679.26
10/26/2019	752.70		39.80	712.12	110.50	701.02	129.80	681.71	75.10	679.26
10/30/2019	752.30	0.00	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26
11/6/2019	751.70		39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26
11/13/2019	751.30		39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26
11/20/2019	751.20		39.80	712.12	110.50	701.02	129.80	681.71	75.10	679.26
11/27/2019	751.10	2.38	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
12/4/2019	751.20		39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26
12/11/2019	751.40		40.40	711.52	111.80	699.72	129.80	681.71	75.10	679.26
12/18/2019	751.30		40.60	711.32	110.70	700.82	129.80	681.71	75.10	679.26
12/26/2019	751.60	4.61	40.70	711.22	111.20	700.32	129.80	681.71	75.10	679.26
1/2/2020	751.80		40.70	711.22	111.50	700.02	129.80	681.71	75.10	679.26
1/8/2020	751.90		40.80	711.12	111.90	699.62	129.80	681.71	75.10	679.26
1/15/2020	751.90		40.90	711.02	110.80	700.72	129.80	681.71	75.10	679.26
1/22/2020	751.90		41.10	710.82	110.60	700.92	129.80	681.71	75.10	679.26
1/29/2020	752.00	0.15	41.00	710.92	110.50	701.02	129.80	681.71	75.10	679.26
2/5/2020	751.90		41.00	710.92	110.30	701.22	129.80	681.71	75.10	679.26
2/12/2020	751.90		41.20	710.72	110.10	701.42	129.80	681.71	75.30	679.06
2/19/2020	751.90		41.40	710.52	112.80	698.72	130.40	681.11	75.60	678.76
2/26/2020	751.90	0.53	41.60	710.32	112.80	698.72	130.40	681.11	75.20	679.16
3/4/2020	751.80		41.60	710.32	112.80	698.72	130.40	681.11	75.20	679.16
3/11/2020	751.80		41.60	710.32	110.20	701.32	130.40	681.11	75.10	679.26
3/18/2020	752.10		41.80	710.12	110.40	701.12	130.40	681.11	75.10	679.26
3/25/2020	753.30	4.31	41.90	710.02	110.40	701.12	130.40	681.11	75.10	679.26
4/1/2020	753.60		41.90	710.02	110.40	701.12	130.10	681.41	75.10	679.26
4/8/2020	755.80		42.00	709.92	111.40	700.12	130.10	681.41	75.10	679.26
4/15/2020	760.50		42.30	709.62	110.80	700.72	130.30	681.21	75.10	679.26
4/22/2020	761.50		42.30	709.62	110.70	700.82	129.90	681.61	75.10	679.26
4/29/2020	761.90	3.88	42.30	709.62	110.60	700.92	130.00	681.51	75.10	679.26
5/6/2020	761.20		42.30	709.62	110.60	700.92	130.00	681.51	75.10	679.26
5/13/2020	762.10		42.50	709.42	110.70	700.82	129.80	681.71	75.10	679.26
5/20/2020	762.20		42.60	709.32	110.50	701.02	130.10	681.41	75.10	679.26
5/27/2020	762.10	0.03	42.70	709.22	110.60	700.92	130.00	681.51	75.10	679.26
6/3/2020	761.90		42.70	709.22	110.60	700.92	130.00	681.51	75.00	679.36

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
6/10/2020	761.80		42.80	709.12	110.70	700.82	130.10	681.41	75.60	678.76
6/19/2020	760.10		42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76
6/24/2020	759.00	0.00	42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76
7/1/2020	757.30		42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76
7/8/2020	755.80		43.10	708.82	110.50	701.02	129.90	681.61	75.60	678.76
7/15/2020	754.40		43.30	708.62	111.40	700.12	129.90	681.61	75.60	678.76
7/22/2020	752.90		43.40	708.52	111.30	700.22	129.90	681.61	75.60	678.76
7/29/2020	751.40	0.00	43.50	708.42	111.40	700.12	130.00	681.51	75.60	678.76
8/5/2020	749.90		43.50	708.42	111.40	700.12	130.00	681.51	75.60	678.76
8/12/2020	749.60		43.60	708.32	111.30	700.22	130.30	681.21	75.60	678.76
8/19/2020	749.10		43.70	708.22	111.30	700.22	130.50	681.01	75.60	678.76
8/26/2020	747.90	0.00	43.80	708.12	111.30	700.22	130.70	680.81	75.60	678.76
9/2/2020	746.40		44.00	707.92	111.30	700.22	130.70	680.81	75.60	678.76
9/9/2020	745.70		44.00	707.92	111.20	700.32	130.70	680.81	75.60	678.76
9/16/2020	745.20		44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76
9/19/2020	747.80		44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76
9/23/2020	749.40		44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76
9/30/2020	743.50	0.00	44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76
10/7/2020	742.70		44.20	707.72	111.30	700.22	130.70	680.81	74.70	679.66
10/14/2020	741.60		44.30	707.62	111.40	700.12	130.80	680.71	74.60	679.76
10/21/2020	740.30		44.50	707.42	111.40	700.12	130.80	680.71	74.60	679.76
10/28/2020	739.90	0.00	44.60	707.32	112.50	699.02	130.80	680.71	74.50	679.86
11/4/2020	739.40		44.60	707.32	112.50	699.02	130.80	680.71	74.50	679.86
11/10/2020	739.20		44.70	707.22	112.50	699.02	130.60	680.91	74.50	679.86
11/18/2020	739.00		44.70	707.22	112.50	699.02	130.40	681.11	74.50	679.86
11/25/2020	738.80	0.54	44.80	707.12	112.50	699.02	130.20	681.31	74.50	679.86
12/2/2020	738.50		44.80	707.12	112.50	699.02	130.20	681.31	74.50	679.86

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
12/9/2020	738.20		44.90	707.02	112.50	699.02	130.30	681.21	74.50	679.86
12/16/2020	738.00		45.00	706.92	112.50	699.02	130.40	681.11	74.60	679.76
12/23/2020	738.20	1.72	45.20	706.72	112.50	699.02	130.50	681.01	74.60	679.76
1/6/2021	742.10		45.20	706.72	112.50	699.02	130.50	681.01	74.60	679.76
1/13/2021	742.10		45.40	706.52	112.10	699.42	130.50	681.01	74.60	679.76
1/20/2021	741.80		45.40	706.52	112.10	699.42	130.50	681.01	74.60	679.76
1/27/2021	741.70	1.36	45.50	706.42	112.00	699.52	130.50	681.01	74.60	679.76
2/3/2021	741.80		45.50	706.42	112.00	699.52	130.50	681.01	74.60	679.76
2/10/2021	741.60		45.60	706.32	112.00	699.52	130.50	681.01	74.60	679.76
2/17/2021	741.40		45.70	706.22	112.00	699.52	130.40	681.11	74.60	679.76
2/24/2021	741.00	0.14	45.80	706.12	112.00	699.52	130.40	681.11	74.70	679.66
3/3/2021	740.80		45.80	706.12	111.90	699.62	130.40	681.11	74.70	679.66
3/10/2021	740.60		46.00	705.92	111.50	700.02	130.00	681.51	74.60	679.76
3/17/2021	741.00		46.10	705.82	111.50	700.02	130.40	681.11	74.70	679.66
3/24/2021	740.90		46.10	705.82	111.20	700.32	130.10	681.41	74.50	679.86
3/31/2021	740.60	1.53	46.10	705.82	111.10	700.42	130.10	681.41	74.50	679.86
4/7/2021	740.80		46.10	705.82	111.10	700.42	130.10	681.41	74.50	679.86
4/14/2021	740.70		46.30	705.62	110.90	700.62	130.10	681.41	74.40	679.96
4/21/2021	741.30		46.40	705.52	110.70	700.82	130.10	681.41	74.60	679.76
4/28/2021	742.00	0.00	46.40	705.52	111.20	700.32	130.00	681.51	74.60	679.76
5/5/2021	741.90		46.60	705.32	111.70	699.82	130.70	680.81	74.70	679.66
5/15/2021	740.80		46.70	705.22	110.90	700.62	130.60	680.91	74.70	679.66
5/19/2021	740.40		46.70	705.22	111.50	700.02	130.60	680.91	74.60	679.76
5/26/2021	740.10	0.05	46.80	705.12	112.80	698.72	130.10	681.41	74.80	679.56
6/2/2021	739.60		46.90	705.02	111.30	700.22	129.80	681.71	74.80	679.56
6/9/2021	738.30		47.00	704.92	111.30	700.22	129.90	681.61	74.80	679.56
6/16/2021	737.20		47.10	704.82	111.70	699.82	130.00	681.51	74.80	679.56
6/23/2021	736.00		47.10	704.82	111.70	699.82	130.10	681.41	74.80	679.56

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper	
Top Ref. Elev. (ft)			752.400		812.200		812.200		750.700	
Top Ref. Elev. (ft) After 5/21/2012			751.920		811.520		811.510		754.355	
Tip Elev. (ft)			676.920		700.020		674.510		677.200	
Total Depth (ft)			75.0		111.5		137.0		73.5	
Total Depth (ft) After 5/21/2012			75.0		111.5		137.0		77.2	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5L		R-6U		R-6L		R-7U	
6/30/2021	736.40	0.00	47.10	704.82	111.70	699.82	130.10	681.41	74.80	679.56
7/7/2021	737.00		47.20	704.72	112.80	698.72	129.80	681.71	74.80	679.56
7/14/2021	737.40		47.30	704.62	112.80	698.72	130.00	681.51	74.80	679.56
7/21/2021	737.80		47.50	704.42	112.80	698.72	130.40	681.11	74.80	679.56
7/28/2021	736.40	0.05	47.60	704.32	112.80	698.72	130.50	681.01	74.30	680.06
8/4/2021	736.30		47.60	704.32	112.80	698.72	130.50	681.01	74.20	680.16
8/11/2021	735.90		47.60	704.32	112.80	698.72	130.40	681.11	74.20	680.16
8/18/2021	735.90		44.70	707.22	112.80	698.72	130.30	681.21	74.20	680.16
8/25/2021	735.70	0.00	44.80	707.12	112.80	698.72	130.50	681.01	74.20	680.16
9/1/2021	735.60		47.80	704.12	112.80	698.72	130.00	681.51	74.20	680.16
9/8/2021	736.00		47.80	704.12	112.80	698.72	130.10	681.41	74.30	680.06
9/15/2021	737.00		48.00	703.92	112.80	698.72	130.00	681.51	74.30	680.06
9/22/2021	737.50		48.10	703.82	112.80	698.72	129.80	681.71	74.30	680.06
9/29/2021	738.00	0.00	48.20	703.72	112.80	698.72	130.10	681.41	74.10	680.26
10/6/2021	738.20		48.20	703.72	112.80	698.72	131.50	680.01	74.30	680.06
10/13/2021	738.70		48.30	703.62	112.80	698.72	131.80	679.71	74.40	679.96
10/22/2021	738.80		48.40	703.52	112.80	698.72	131.60	679.91	74.80	679.56
10/27/2021	739.00	0.46	48.40	703.52	112.80	698.72	131.50	680.01	74.80	679.56
11/3/2021	739.60		48.50	703.42	112.80	698.72	130.90	680.61	74.50	679.86
11/10/2021	740.20		48.60	703.32	112.80	698.72	130.90	680.61	74.80	679.56
11/17/2021	740.20		48.70	703.22	112.80	698.72	130.90	680.61	74.40	679.96
11/24/2021	739.90	0.00	48.80	703.12	112.80	698.72	130.80	680.71	74.50	679.86
12/1/2021	739.50		48.80	703.12	112.80	698.72	129.80	681.71	74.80	679.56
12/8/2021	739.40		48.90	703.02	112.80	698.72	129.80	681.71	74.80	679.56
12/15/2021	740.00		48.90	703.02	112.80	698.72	130.10	681.41	74.80	679.56
12/22/2021	740.00		48.90	703.02	112.80	698.72	129.80	681.71	74.80	679.56
12/29/2021	743.00	7.24	49.00	702.92	112.80	698.72	129.80	681.71	74.80	679.56

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
1/10/2007	749.70		85.70		103.20		19.40			
1/19/2007	749.40		85.70		103.30		19.40			
1/29/2007	749.60		85.70		103.30		19.40			
2/7/2007	750.00		85.70		103.30		19.40			
2/16/2007	750.20		85.70		103.70		19.40			
2/26/2007	750.60		85.70		103.90		19.40			
3/6/2007	751.70		85.70		104.20		19.40			
3/17/2007	755.10		85.70		104.40		19.40			
3/25/2007	756.30		85.70		104.40		19.40			
4/6/2007	760.00		85.70		104.40		19.40			
4/16/2007	762.90		85.70		104.40		19.40			
4/27/2007	767.10		85.70		104.50		19.40			
5/9/2007	766.80		85.70		104.40		19.40			
5/19/2007	764.80		85.70		104.50		19.40			
5/29/2007	762.80		85.70		104.30		19.40			
6/8/2007	761.20		85.70		104.40		19.40			
6/18/2007	759.90		85.70		104.20		19.40			
6/28/2007	758.10		85.70		104.10		19.40			
7/10/2007	756.70		85.70		104.10		19.40			
7/19/2007	755.80		85.70		104.20		19.40			
7/30/2007	754.90		85.70		104.30		19.40			
8/11/2007	754.40		85.70		104.30		19.40			
8/22/2007	753.80		85.70		104.50		19.40			
8/30/2007	753.30		85.70		104.60		19.40			
9/7/2007	753.20		85.70		104.60		19.40			
9/18/2007	753.00		85.70		104.60		19.40			
9/27/2007	753.60		85.70		104.50		19.40			

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
10/8/2007	754.90		85.70		104.60		19.40			
10/17/2007	756.20		85.70		104.80		19.40			
10/30/2007	757.80		85.70		105.10		19.40			
11/9/2007	759.60		85.70		105.10		19.40			
11/19/2007	763.60		85.70		105.10		19.40			
11/28/2007	766.50		85.70		105.20		19.40			
12/8/2007	768.70		85.70		105.20		19.40			
12/18/2007	768.50		85.70		105.20		19.40			
12/28/2007	769.30		85.70		105.20		19.40			
1/9/2008	770.50		85.70	665.10	105.00	706.50	19.40	678.10		
1/19/2008	770.30		85.70	665.10	104.80	706.70	19.40	678.10		
1/29/2008	772.70		85.70	665.10	104.80	706.70	19.40	678.10		
2/9/2008	774.10		85.70	665.10	104.30	707.20	19.40	678.10		
2/19/2008	774.40		85.70	665.10	103.80	707.70	19.40	678.10		
2/27/2008	775.00		85.70	665.10	103.70	707.80	19.40	678.10		
3/7/2008	775.00		85.70	665.10	103.50	708.00	19.40	678.10		
3/18/2008	775.00		85.70	665.10	103.40	708.10	19.40	678.10		
3/29/2008	774.90		85.70	665.10	103.30	708.20	19.40	678.10		
4/10/2008	775.00		85.70	665.10	103.10	708.40	19.40	678.10		
4/20/2008	774.80		85.70	665.10	102.80	708.70	19.40	678.10		
5/5/2008	774.65		85.70	665.10	102.60	708.90	19.40	678.10		
5/13/2008	773.90		85.70	665.10	102.50	709.00	19.40	678.10		
5/21/2008	772.85		85.70	665.10	102.40	709.10	19.40	678.10		
5/31/2008	772.10		85.70	665.10	102.30	709.00	19.40	678.10		
6/9/2008	771.20		85.70	665.10	102.20	709.30	19.40	678.10		
6/18/2008	770.50		85.70	665.10	102.20	709.30	19.40	678.10		
6/26/2008	769.60		85.70	665.10	102.10	709.40	19.40	678.10		

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
7/8/2008	768.10		85.70	665.10	102.10	709.40	19.40	678.10		
7/19/2008	766.60		85.70	665.10	102.40	709.10	19.40	678.10		
7/29/2008	765.50	0.00	85.70	665.10	102.60	708.90	19.40	678.10		
8/4/2008	764.60	0.00	85.70	665.00	102.60	708.90	19.40	678.10		
8/9/2008	764.25	0.00	85.70	665.10	102.60	708.90	19.40	678.10		
8/19/2008	763.20	0.00	85.70	665.10	102.60	708.90	19.40	678.10		
8/28/2008	762.25	0.00	85.70	665.10	102.60	708.90	19.40	678.10		
9/6/2008	761.00	0.00	85.70	665.10	102.80	708.70	19.40	678.10		
9/17/2008	760.10	0.00	85.70	665.10	103.10	708.40	19.40	678.10		
9/29/2008	759.20	0.00	85.70	665.10	103.40	708.10	19.40	678.10		
10/8/2008	759.00	0.00	85.70	665.10	103.50	708.00	19.40	678.10		
10/18/2008	758.90	0.00	85.70	665.10	103.50	708.00	19.40	678.10		
10/29/2008	761.30	0.00	85.70	665.10	103.70	707.80	19.40	678.10		
11/8/2008	764.30	0.00	85.70	665.10	103.70	707.80	19.40	678.10		
11/17/2008	766.90	0.00	85.70	665.00	103.80	707.00	19.40	678.10		
11/25/2008	769.90	1.71	85.70	665.10	103.90	707.00	19.40	678.10		
12/4/2008	773.90		85.70	665.10	103.80	707.70	19.40	678.10		
12/13/2008	777.30		85.70	665.00	103.80	707.70	19.40	678.10		
12/21/2008	779.10		85.70	665.10	103.80	707.70	19.40	678.10		
12/30/2008	779.40	3.99	85.70	665.10	103.80	707.70	19.40	678.10		
1/8/2009	779.30		85.70	665.10	103.40	708.10	19.40	678.10		
1/19/2009	778.50		85.70	665.10	103.00	708.50	19.40	678.10		
1/29/2009	778.30	0.38	85.70	665.10	102.50	709.00	19.40	678.10		
2/12/2009	779.80		85.70	665.10	101.70	709.80	19.40	678.10		
2/19/2009	781.30		85.70	665.10	101.50	710.00	19.40	678.10		
2/27/2009	782.20	4.33	85.70	665.10	101.40	710.10	19.40	678.10		
3/10/2009	782.70		85.70	665.10	101.40	710.10	19.40	678.10		

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
3/20/2009	782.40		85.70	665.10	101.50	710.00	19.40	678.10		
3/25/2009	782.20	0.43	85.70	665.10	101.40	710.10	19.40	678.10		
4/4/2009	785.30		85.70	665.10	101.40	710.10	19.40	678.10		
4/13/2009	788.50		85.70	665.10	100.00	711.50	19.40	678.10		
4/21/2009	790.50		85.70	665.10	98.30	713.20	19.40	678.10		
4/26/2009	791.20	0.00	85.70	665.10	97.80	713.70	19.40	678.10		
5/4/2009	791.30		85.70	665.10	95.80	715.70	19.40	678.10		
5/13/2009	790.60		85.70	665.10	94.40	717.10	19.40	678.10		
5/21/2009	789.90		85.70	665.10	93.90	717.60	19.40	678.10		
5/30/2009	789.30	0.00	85.70	665.10	93.10	718.40	19.40	678.10		
6/8/2009	788.70		85.70	665.10	93.10	718.40	19.40	678.00		
6/17/2009	788.20		85.70	665.10	93.20	718.30	19.40	678.10		
6/27/2009	787.60	0.00	85.70	665.10	95.20	716.30	19.40	678.10		
7/7/2009	786.80		85.70	665.10	94.90	716.60	19.40	678.10		
7/15/2009	786.10		85.70	665.10	94.60	716.90	19.40	678.10		
7/22/2009	785.50		85.70	665.10	94.40	717.10	19.40	678.10		
7/30/2009	784.70	0.00	85.70	665.10	94.10	717.40	19.40	678.10		
8/8/2009	783.90		85.70	665.10	94.40	717.10	19.40	678.10		
8/15/2009	783.30		85.70	665.10	94.50	717.00	19.40	678.10		
8/26/2009	782.30	0.00	85.70	665.10	94.80	716.70	19.40	678.10		
9/5/2009	781.50		85.70	665.10	95.00	716.50	19.40	678.10		
9/12/2009	780.80		85.70	665.10	95.10	716.40	19.40	678.10		
9/19/2009	780.20		85.70	665.10	95.30	716.20	19.40	678.10		
9/28/2009	779.50	0.00	85.70	665.10	95.50	716.00	19.40	678.10		
10/8/2009	778.50		85.70	665.10	95.70	715.00	19.40	678.10		
10/19/2009	777.80		85.70	665.10	96.00	715.50	19.40	678.10		
10/30/2009	776.80	0.24	85.70	665.10	96.40	715.10	19.40	678.10		

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
11/9/2009	776.10		85.70	665.10	96.50	715.00	19.40	678.10		
11/20/2009	775.40		85.70	665.10	96.90	714.60	19.40	678.10		
11/28/2009	774.90	0.00	85.70	665.10	97.20	714.30	19.40	678.10		
12/9/2009	774.60		85.70	665.10	97.60	713.90	19.40	678.10		
12/18/2009	774.60		85.70	665.10	97.80	713.90	19.40	678.10		
12/29/2009	774.30	3.56	85.70	665.10	98.20	713.30	19.40	678.10		
1/9/2010	773.90		85.70	665.10	98.20	713.30	19.40	678.10		
1/17/2010	773.60		85.70	665.10	98.40	713.10	19.40	678.10		
1/28/2010	779.90	7.84	85.70	665.10	98.40	713.10	19.40	678.10		
2/4/2010	780.15		85.70	665.10	98.00	713.50	19.40	676.10		
2/12/2010	783.40		85.70	665.10	97.90	713.60	19.40	678.10		
2/19/2010	784.00		85.70	665.10	97.70	713.80	19.40	678.10		
2/26/2010	784.45	2.69	85.70	665.10	97.60	713.90	19.40	678.10		
3/6/2010	785.60		85.70	665.10	97.40	714.10	19.30	678.20		
3/15/2010	786.20		85.70	665.10	96.90	714.60	19.30	678.20		
3/16/2010	786.30		85.70	665.10	96.80	714.70	19.30	678.20		
3/24/2010	786.20	2.03	85.70	665.10	96.00	715.50	19.30	678.20		
4/2/2010	785.80		85.70	665.10	95.00	716.50	19.30	678.20		
4/4/2010	785.80		85.70	665.10	95.00	716.50	19.30	678.20		
4/12/2010	787.40		85.70	665.10	95.00	716.50	19.30	678.20		
4/20/2010	790.10		85.70	665.10	95.00	716.50	19.30	678.20		
4/28/2010	792.60	1.19	85.70	665.10	95.00	716.50	19.30	678.20		
5/6/2010	792.90		85.70	665.10	95.00	718.20	19.30	678.20		
5/14/2010	792.40		85.70	665.10	93.30	719.60	19.30	678.20		
5/21/2010	792.10		85.70	665.10	91.90	722.10	19.30	678.20		
5/29/2010	791.70	0.00	85.70	665.10	89.40	722.60	19.30	676.20		
6/8/2010	791.00		85.70	665.10	88.90	722.80	19.30	678.20		

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
6/15/2010	790.60		85.70	665.10	88.70	723.00	19.30	676.20		
6/22/2010	790.10		85.70	665.10	88.50	723.10	19.30	678.20		
6/29/2010	789.70	0.00	85.70	665.10	88.40	723.10	19.30	676.20		
7/8/2010	789.20		85.70	665.10	88.40	723.00	19.30	676.20		
7/16/2010	788.70		85.70	665.10	88.50	722.90	19.30	676.20		
7/23/2010	788.30		85.70	665.10	88.60	722.60	19.30	676.20		
7/31/2010	787.70	0.00	85.70	665.10	88.70	722.60	19.30	678.20		
8/7/2010	787.30		85.70	665.10	89.10	722.20	19.30	678.20		
8/15/2010	786.70		85.70	665.10	89.30	722.00	19.30	678.20		
8/23/2010	786.10		85.70	665.00	89.50	721.80	19.30	678.20		
8/29/2010	785.60	0.00	85.70	665.10	89.70	721.50	19.30	676.20		
9/8/2010	784.90		85.70	665.10	90.00	721.20	19.30	676.20		
9/17/2010	784.20		85.70	665.10	90.30	720.90	19.30	678.20		
9/27/2010	783.50	0.00	85.70	665.10	90.60	720.90	19.30	678.20		
10/8/2010	782.80		85.70	665.10	90.80	720.30	19.30	678.20		
10/18/2010	782.20		85.70	665.10	91.20	720.00	19.30	676.20		
10/28/2010	782.00	1.76	85.70	665.10	91.50	719.80	19.30	678.20		
11/4/2010	781.70		85.70	665.10	91.70	719.70	19.30	676.20		
11/15/2010	781.10		85.70	665.10	91.80	719.50	19.30	678.20		
11/26/2010	780.80	1.33	85.70	665.10	92.00	719.40	19.30	678.20		
12/8/2010	780.50				92.10	719.20	19.30	678.20		
12/16/2010	780.40				92.30	721.70	19.30	677.40		
12/30/2010	792.60	11.72			89.80	721.70				
1/6/2011	792.20				89.80	721.70				
1/7/2011	792.20				89.80	724.30	20.10	677.50		
1/17/2011	792.00		85.70	665.10	87.20	724.00	20.00	677.50		
1/27/2011	791.80	1.11	85.70	665.10	87.50	724.50	20.00	677.50		

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
2/5/2011	791.80		85.70	665.10	87.00	724.70	20.00	677.50		
2/15/2011	791.80		85.70	665.10	86.80	725.20	20.00	677.50		
2/23/2011	792.20	2.87	85.70	665.10	86.30	725.70	20.00	677.50		
3/8/2011	792.10		85.70	665.10	85.80	726.00	20.00	677.50		
3/19/2011	791.80		85.70	665.10	85.50	726.40	20.00	677.50		
3/30/2011	791.50	3.23	85.70	665.10	85.10	726.50	20.00	677.60		
4/7/2011	792.10		85.70	665.10	85.00	726.60	19.90	677.80		
4/16/2011	792.50		85.70	665.10	84.90	726.70	19.70	677.90		
4/23/2011	792.60		85.70	665.10	84.80	726.80	19.60	677.90		
4/30/2011	792.60	0.00	85.70	665.10	84.70	726.70	19.60	677.90		
5/9/2011	792.40		85.70	665.10	84.80	726.70	19.60	677.90		
5/16/2011	792.40		85.70	665.10	84.80	726.60	19.60	677.90		
5/24/2011	792.40		85.70	665.10	84.90	726.50	19.60	677.90		
5/31/2011	792.40	0.81	85.70	665.10	85.00	726.50	19.60	677.90		
6/8/2011	792.10		85.70	665.10	85.00	726.30	19.60	677.90		
6/16/2011	791.90		85.70	665.10	85.20	726.10	19.60	677.90		
6/23/2011	791.80		85.70	665.10	85.40	726.00	19.60	677.90		
6/30/2011	791.60	0.00	85.70	665.30	85.50	726.10	19.60	677.90		
7/8/2011	791.40		85.50	665.10	85.40	726.10	19.60	677.90		
7/14/2011	791.20		85.70	665.00	85.40	725.90	19.60	677.90		
7/21/2011	790.90		85.80	665.20	85.60	725.80	19.60	677.90		
7/30/2011	790.40	0.00	85.60	665.10	85.70	725.20	19.60	677.90		
8/9/2011	789.90		85.70	665.10	86.30	724.70	19.60	677.90		
8/15/2011	789.70		85.70	665.00	86.80	724.40	19.60	677.90		
8/24/2011	789.00		85.80	664.90	87.10	724.20	19.60	677.90		
9/1/2011	788.65	0.00	85.90	664.90	87.30	724.00	19.60	677.90		
9/9/2011	787.90		85.90	664.80	87.50	723.70	19.60	677.90		

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
9/16/2011	787.30		86.00	664.80	87.80	723.30	19.60	677.90		
9/23/2011	787.00		86.00	664.70	88.20	722.90	19.60	677.90		
9/29/2011	786.80	0.08	86.10	664.70	88.60	722.80	19.60	677.90		
10/8/2011	786.60		86.10	664.80	88.70	722.70	19.60	677.90		
10/15/2011	786.40		86.00	664.70	88.80	721.50	19.60	679.40		
10/26/2011	786.00	1.29	86.10	664.80	90.00	721.30	18.10	679.30		
11/5/2011	785.50		86.00	664.70	90.20	721.10	18.20	679.10	34.00	662.00
11/14/2011	785.40		86.10	664.80	90.40	720.90	18.40	679.20	34.00	662.00
11/22/2011	785.10		86.00	664.90	90.60	720.80	18.30	679.30	35.00	661.00
11/30/2011	785.10	1.79	85.90	664.90	90.70	720.70	18.20	679.20	36.30	659.70
12/9/2011	784.80		85.90	664.90	90.80	720.60	18.30	679.20	36.30	659.70
12/17/2011	784.60		85.90	665.00	90.90	720.40	18.30	679.10	36.30	659.70
12/22/2011	784.50		85.80	664.90	91.10	720.30	18.40	679.00	36.30	659.70
12/30/2011	784.30	0.45	85.90	665.00	91.20	720.20	18.50	678.90	36.30	659.70
1/7/2012	784.00		85.80	665.00	91.30	720.10	18.60	679.00	36.30	659.70
1/14/2012	783.80		85.80	665.00	91.40	719.90	18.50	678.90	36.30	659.70
1/21/2012	783.60		85.80	665.00	91.60	719.70	18.60	678.70	36.30	659.70
1/28/2012	783.60	1.72	85.80	665.00	91.80	722.50	18.80	679.10	36.30	659.70
2/7/2012	783.40		85.80	665.00	89.00	721.50	18.40	679.50	36.40	659.60
2/15/2012	783.40		85.80	665.00	90.00	721.50	18.00	679.70	36.40	659.60
2/25/2012	783.40	0.62	85.80	665.00	90.10	721.30	17.80	679.70	36.40	659.60
3/5/2012	783.20		85.80	665.00	90.20	721.10	18.00	678.90	36.40	659.60
3/15/2012	782.70		85.80	665.00	90.40	720.90	18.60	678.40	36.50	659.60
3/22/2012	782.60	2.01	85.80	665.00	90.60	718.90	19.10	678.40	36.50	659.50
4/3/2012	782.50		85.80	665.00	92.60	718.70	19.10	678.40	36.50	659.50
4/12/2012	782.10		85.80	665.00	92.80	718.40	19.10	678.30	36.50	659.50
4/21/2012	782.00		85.80	665.00	93.10	718.40	19.20	678.30	36.50	659.50

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
4/23/2012	781.90	1.32	85.80	665.00	93.10	718.40	19.20	678.30	36.50	659.50
5/1/2012	781.70		85.80	665.00	93.10	718.50	19.20	678.30	36.50	659.50
5/7/2012	781.30		85.80	665.00	93.00	718.50	19.20	675.90	36.50	659.50
5/21/2012	780.90		85.80	667.20	93.00	718.00	21.60	678.20	36.50	659.50
5/25/2012	780.00	0.06	87.20	668.60	93.00	718.50	21.60	678.20	39.80	659.30
6/4/2012	779.60		87.20	668.60	93.00	718.00	21.60	678.50	39.80	662.60
6/13/2012	778.70		87.20	665.20	93.50	718.00	21.30	678.40	39.80	659.30
6/20/2012	778.00		89.20	665.30	93.70	717.60	21.40	678.40	39.80	659.00
6/25/2012	777.30	0.00	89.10	665.60	93.90	717.40	21.40	678.40	39.80	659.30
7/4/2012	776.30		88.80	665.70	94.14	717.10	21.40	678.40	39.90	659.20
7/13/2012	775.70		88.70	665.70	94.40	716.50	21.30	679.40	39.90	659.20
7/20/2012	775.20		88.70	665.60	95.00	716.30	20.40	679.40	39.90	659.20
7/30/2012	775.00	0.10	88.80	665.50	95.20	716.10	20.40	679.00	40.00	659.10
8/8/2012	773.00		88.90	665.50	95.40	716.10	20.30	679.50	40.00	659.10
8/9/2012	772.90		88.90	665.50	95.40	715.40	20.30	679.00	40.00	659.10
8/18/2012	772.00		88.90	665.40	96.10	715.00	20.30	679.40	40.00	659.10
8/27/2012	771.10		89.00	665.40	96.50	715.00	20.40	679.40	40.00	659.10
8/29/2012	770.90	0.00	89.00	665.40	96.50	715.00	20.40	679.40	40.00	659.10
9/8/2012	769.80		89.00	665.40	96.50	715.00	20.40	679.40	40.00	659.00
9/15/2012	768.90		89.00	665.40	96.50	715.00	20.40	679.40	40.00	659.10
9/29/2012	767.80	0.00	89.00	665.40	96.50	713.50	20.40	679.40	40.00	659.10
10/11/2012	766.80		89.00	665.40	98.00	712.30	20.40	679.40	40.10	659.00
10/23/2012	765.90	1.10	89.00	665.50	99.20	712.30	20.40	679.40	40.10	659.00
11/12/2012	764.60		88.90	665.50	99.20	711.70	20.40	679.40	40.10	659.00
11/23/2012	764.30	0.16	88.90	665.50	99.80	711.60	20.40	679.40	40.10	659.00
12/12/2012	764.50	2.46	88.90	661.90	99.90	710.80	20.40	677.10	40.10	659.00
12/27/2012	769.10		88.90	661.90	100.70	712.50	20.40	677.10	40.40	658.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
1/16/2013	770.40		88.90	661.90	99.00	712.50	20.40	677.10	40.10	659.00
1/28/2013	769.90	1.82	88.90	661.90	101.00	707.50	20.40	677.10	40.40	659.00
2/15/2013	769.60		88.90	661.90	104.00	704.50	20.40	676.50	40.10	659.00
2/26/2013	769.40	0.68	88.90	661.80	107.00	711.50	21.00	677.00	40.40	658.70
3/13/2013	768.80		89.00	662.10	100.00	711.50	20.50	677.00	40.40	658.70
3/26/2013	768.60	0.66	88.70	662.10	100.00	711.50	20.50	677.00	40.40	658.70
4/10/2013	771.10		88.70	662.10	100.00	711.50	20.50	677.10	40.40	658.70
4/30/2013	772.20	0.00	88.70	661.00	100.00	710.20	20.40	676.40	40.40	658.70
5/9/2013	771.90		89.00	661.80	101.30	710.20	21.10	676.40	40.40	658.70
5/15/2013	771.70		89.00	661.80	101.30	710.20	21.10	676.40	40.40	658.70
5/22/2013	771.40		89.00	662.60	101.30	710.40	21.10	676.40	40.40	658.70
5/30/2013	771.00	0.00	88.20	662.00	101.10	710.20	21.10	676.40	40.40	658.70
6/6/2013	770.80		88.80	662.10	101.30	710.20	21.10	676.40	40.40	658.70
6/13/2013	769.30		88.70	662.10	101.30	710.20	21.10	676.40	40.40	658.70
6/20/2013	769.00		88.70	662.60	101.30	710.20	21.10	676.40	40.40	658.70
6/26/2013	768.60	0.00	88.20	662.00	101.30	710.20	21.10	676.40	40.40	658.70
7/2/2013	767.80		88.80	662.00	101.30	710.20	21.10	676.40	40.40	658.70
7/10/2013	766.90		88.80	662.10	101.30	710.10	21.10	676.40	40.40	658.70
7/16/2013	766.50		88.70	662.10	101.40	710.00	21.10	676.40	40.40	658.70
7/29/2013	765.20	0.00	88.70	662.00	101.50	709.80	21.10	676.40	40.40	658.70
8/5/2013	764.50		88.80	662.00	101.70	709.80	21.10	676.40	40.40	658.70
8/12/2013	763.80		88.80	662.00	101.70	709.80	21.10	676.40	40.40	658.70
8/19/2013	763.30		88.80	662.00	101.70	709.80	21.10	676.40	40.40	658.70
8/26/2013	762.40	0.00	88.80	662.00	101.70	709.80	21.10	676.40	40.40	658.70
9/2/2013	761.50		88.80	662.00	101.70	709.20	21.10	676.40	40.40	658.70
9/10/2013	760.70		88.80	662.00	102.30	709.20	21.10	676.40	40.40	658.70
9/17/2013	759.90		88.80	662.00	102.30	709.20	21.10	676.40	40.40	658.70

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
9/23/2013	759.40		88.80	662.00	102.30	708.90	21.10	676.40	40.40	658.70
9/30/2013	758.70	0.00	88.80	662.00	102.60	708.90	21.10	676.40	40.40	658.70
10/7/2013	758.30		88.80	662.00	102.60	708.60	21.10	676.40	40.40	658.70
10/14/2013	757.60		88.80	662.00	102.90	708.60	21.10	676.10	40.40	658.70
10/21/2013	756.60		88.80	662.00	102.90	708.50	21.40	676.10	40.40	658.70
10/28/2013	756.00	0.00	88.80	662.00	103.00	708.40	21.40	676.40	40.70	658.40
11/4/2013	755.70		88.80	662.00	103.10	708.40	21.10	676.40	40.60	658.50
11/11/2013	756.10		88.80	662.10	103.10	708.10	21.10	677.00	40.60	658.50
11/18/2013	755.70		88.70	662.10	103.40	708.10	20.50	677.00	40.60	658.50
11/25/2013	755.40	0.55	88.70	662.10	103.40	708.00	20.50	676.90	40.60	658.50
12/2/2013	755.30		88.70	662.00	103.50	707.90	20.60	676.90	40.60	658.50
12/10/2013	755.40		88.70	662.10	103.60	707.90	20.60	676.90	40.60	658.50
12/16/2013	755.20		88.70	662.10	103.60	707.70	20.60	676.70	40.60	658.50
12/23/2013	755.20		88.70	662.10	103.80	707.50	20.80	676.30	40.60	658.50
12/30/2013	754.80	0.83	88.70	661.20	104.00	707.50	21.20	676.00	40.70	658.40
1/6/2014	754.50		89.60	662.10	104.00	707.30	21.50	676.00	40.70	658.40
1/13/2014	755.00		88.70	662.10	104.20	707.30	21.50	676.00	40.70	658.40
1/20/2014	754.60		88.70	662.10	104.20	707.30	21.50	676.00	40.70	658.40
1/27/2014	754.30	0.00	88.70	662.10	104.20	707.30	21.50	676.00	40.70	658.40
2/3/2014	754.10		88.70	662.10	104.20	707.20	21.50	676.00	40.70	658.40
2/10/2014	754.70		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
2/17/2014	754.50		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
2/24/2014	754.20	0.83	88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
3/3/2014	754.50		88.70	662.00	104.30	707.00	21.50	676.00	40.70	658.40
3/10/2014	755.20		88.70	662.10	104.50	707.00	21.50	676.00	40.70	658.40
3/19/2014	755.90		88.70	662.10	104.50	707.00	21.50	676.00	40.70	658.40
3/25/2014	758.80		88.70	662.00	104.50	706.70	21.50	676.00	40.70	658.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
3/29/2014	760.50		88.70	662.10	104.80	706.70	21.50	676.00	40.70	658.40
3/31/2014	761.60	1.85	88.70	662.10	104.80	706.90	21.50	676.00	40.70	658.40
4/1/2014	762.00		88.70	662.10	104.60	706.90	21.50	676.00	40.70	658.40
4/8/2014	764.70		88.70	662.10	104.60	706.90	21.50	676.00	40.70	658.40
4/15/2014	766.60		88.70	662.10	104.60	706.90	21.50	676.00	40.70	658.40
4/22/2014	768.60		88.70	662.10	104.60	706.90	21.50	676.00	40.70	658.40
4/29/2014	770.40	0.88	88.70	662.10	104.60	706.90	21.50	676.00	40.70	658.40
5/5/2014	769.70		88.70	662.10	104.60	707.00	21.50	676.00	40.70	658.40
5/12/2014	769.00		88.70	662.10	104.50	707.00	21.50	676.00	40.70	658.40
5/19/2014	768.00		88.70	662.10	104.50	707.00	21.50	676.00	40.70	658.40
5/26/2014	767.10	0.00	88.70	662.10	104.50	707.20	21.50	676.00	40.70	658.40
6/2/2014	766.20		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
6/9/2014	765.40		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
6/16/2014	764.30		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
6/23/2014	763.10		88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
6/27/2014	762.30	0.00	88.70	662.10	104.30	707.20	21.50	676.00	40.70	658.40
7/7/2014	760.90		88.70	662.00	104.30	707.20	21.50		40.70	658.40
7/14/2014	760.00		88.70	662.10	104.30	707.10	21.50		40.70	658.40
7/21/2014	759.10		88.70	662.10	104.40	707.10	21.50	676.00	40.70	658.40
7/28/2014	757.90	0.06	88.70	662.10	104.40	707.00	21.50	676.00	40.70	658.40
8/4/2014	756.80		88.70	662.10	104.50	707.00	21.50	676.00	40.70	658.40
8/11/2014	755.60		88.70	662.10	104.50	706.90	21.50	676.00	40.70	658.40
8/18/2014	754.70		88.70	662.10	104.60	706.00	21.50	676.00	40.70	658.40
8/25/2014	753.30	0.05	88.70	662.00	104.60	706.70	21.50	675.90	40.70	658.40
9/2/2014	751.60		88.70	662.00	104.80	706.70	21.60	675.90	40.70	658.40
9/8/2014	750.50		88.70	662.10	104.80	706.70	21.60	675.90	40.70	658.40
9/15/2014	749.40		88.70	662.00	104.80	706.40	21.60	675.90	40.70	658.40

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
9/22/2014	748.30		88.70	662.10	105.10	706.20	21.60	675.90	40.70	658.40
9/29/2014	747.20	0.00	88.70	662.10	105.30	706.40	21.60	675.90	40.70	658.40
10/6/2014	745.70		88.70	662.00	105.10	706.00	21.60	675.90	40.70	658.40
10/13/2014	746.70		88.70	662.10	105.50	705.90	21.60	675.90	40.70	658.40
10/20/2014	746.60		88.70	662.10	105.60	705.80	21.60	675.90	40.70	658.40
10/27/2014	745.80	0.00	88.70	662.10	105.70	705.80	21.60	675.90	40.70	658.40
11/3/2014	746.40		88.70	662.10	105.70	705.80	21.60	675.90	40.70	658.40
11/10/2014	747.20		88.70	662.10	105.70	705.80	21.60	675.90	40.70	658.40
11/17/2014	747.70		88.70	662.10	105.70	705.60	21.60	675.90	40.70	658.40
11/24/2014	748.80	0.61	88.70	662.10	105.90	705.40	21.60	675.80	40.70	658.40
12/1/2014	748.30		88.70	662.10	106.10	705.40	21.70	676.00	40.70	658.40
12/8/2014	749.10		88.70	662.00	106.10	705.40	21.50	676.00	40.70	658.40
12/15/2014	749.80		88.70	662.00	106.10	705.20	21.50	676.00	40.70	658.40
12/29/2014	750.90	5.37	88.70	662.10	106.30	705.20	21.50	676.00	40.70	658.40
1/5/2015	751.30		88.70	662.10	106.30	705.20	21.50	676.00	40.80	658.30
1/12/2015	751.80		88.70	662.10	106.30	705.20	21.50	676.00	40.80	658.30
1/19/2015	752.30		88.70	662.10	106.30	705.20	21.50	676.00	40.80	658.30
1/26/2015	752.60	1.48	88.70	662.10	106.30	705.20	21.50	676.00	40.80	658.30
2/4/2015	753.10		88.70	662.10	106.30	705.20	21.50	676.00	40.80	658.30
2/9/2015	753.30		88.70	662.10	106.30	705.10	21.50	676.00	40.80	658.30
2/16/2015	753.80		88.70	662.10	106.40	705.10	21.50	676.00	41.30	657.80
2/23/2015	753.90	0.44	88.70	662.10	106.40	705.10	21.50	676.00	41.30	657.80
3/2/2015	754.50		88.70	662.10	106.40	705.10	21.50	676.00	41.30	657.80
3/9/2015	755.00		88.70	662.10	106.40	705.00	21.50	676.00	41.30	657.80
3/16/2015	755.30		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
3/23/2015	755.50		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
3/30/2015	755.70	0.57	88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
4/6/2015	755.60		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
4/13/2015	755.80		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
4/20/2015	755.90		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
4/27/2015	755.90	0.20	88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
5/4/2015	755.60		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
5/11/2015	755.30		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.80
5/18/2015	755.20		88.70	662.10	106.50	705.00	21.50	676.00	41.30	657.60
5/26/2015	755.30	0.95	88.70	661.90	106.50	704.90	21.50	676.00	41.30	657.60
6/1/2015	755.20		88.90	661.90	106.60	704.90	21.50	676.00	41.30	657.60
6/8/2015	755.10		88.90	661.90	106.60	704.60	21.50	676.00	41.30	657.80
6/15/2015	755.20		88.90	661.90	106.70	704.80	21.50	676.00	41.30	657.60
6/22/2015	754.80		88.90	661.90	106.70	704.80	21.50	676.00	41.30	657.80
6/29/2015	754.20	0.00	88.90	662.20	106.70	704.70	21.50	676.00	41.30	657.60
7/10/2015	753.30		88.60	662.20	106.80	704.70	21.50	676.00	39.90	659.20
7/15/2015	753.00		88.60	662.20	106.80	704.70	21.50	676.00	39.90	659.20
7/21/2015	752.80		88.60	662.20	106.80	704.60	21.50	676.00	39.90	659.20
7/28/2015	752.40	0.00	88.60	662.20	106.90	704.60	21.50	676.00	41.30	657.80
8/4/2015	752.00		88.60	661.90	106.90	704.60	21.50	676.00	41.30	657.80
8/11/2015	751.60		88.90	661.90	106.70	704.80	21.50	676.00	41.20	657.90
8/18/2015	751.10		88.90	662.10	106.70	704.80	21.50	676.00	41.20	657.90
8/25/2015	750.60	0.00	88.70	662.10	106.70	704.50	21.50	676.00	41.10	658.00
9/1/2015	749.90		88.70	662.10	107.00	704.40	21.50	675.90	41.10	658.00
9/8/2015	749.00		88.70	662.10	107.10	704.40	21.60	675.90	41.30	657.80
9/15/2015	748.70		88.70	662.10	107.10	704.40	21.60	675.90	41.30	657.80
9/22/2015	748.40		88.70	662.10	107.10	704.40	21.60	675.90	41.30	657.80
9/29/2015	748.00	2.27	88.70	665.70	107.10	704.40	21.60	678.20	41.30	657.80
10/6/2015	747.60		88.70	665.40	107.10	704.20	21.60	678.20	41.30	657.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
10/13/2015	747.10		89.00	665.40	107.30	704.20	21.60	678.20	41.30	657.80
10/20/2015	746.70		89.00	665.40	107.30	704.20	21.60	678.20	41.30	657.80
10/27/2015	746.00	0.56	89.00	665.40	107.30	704.00	21.60	678.20	41.30	657.80
11/4/2015	745.70		89.00	665.40	107.50	704.00	21.60	678.20	41.30	657.80
11/11/2015	745.20		89.00	665.80	107.50	703.90	21.60	678.20	41.30	657.80
11/18/2015	744.80		88.60	665.80	107.60	704.00	21.60	676.20	41.30	657.80
11/25/2015	744.20	0.12	88.60	665.80	107.50	703.80	21.60	676.20	41.30	657.80
12/1/2015	743.70		88.60	665.80	107.70	703.60	21.60	676.20	41.30	657.80
12/8/2015	743.10		88.60	665.80	107.70	703.60	21.60	678.20	41.30	657.80
12/15/2015	742.70		88.60	665.80	107.90	703.60	21.60	676.20	41.30	657.60
12/22/2015	742.30		88.60	665.40	107.90	703.50	21.60	678.20	41.30	657.80
12/29/2015	742.10	1.29	89.00	665.00	108.00	703.50	21.60	678.20	41.30	657.60
1/5/2016	741.70		88.60	665.00	108.00	703.50	21.60	678.20	41.30	657.80
1/12/2016	742.30		88.60	665.80	108.00	703.50	21.60	678.20	41.30	657.80
1/19/2016	742.00		88.60	665.80	108.00	703.40	21.60	678.20	41.30	657.80
1/26/2016	741.80	3.51	88.60	665.80	108.10	703.40	21.60	678.20	41.30	657.80
2/2/2016	741.40		88.60	665.80	108.10	703.40	21.60	678.20	41.30	657.80
2/9/2016	741.00		88.60	665.80	108.10	703.40	21.60	678.20	41.30	657.80
2/16/2016	740.50		88.60	665.80	108.10	703.40	21.60	678.20	41.30	657.80
2/23/2016	740.20	0.35	88.60	665.80	108.10	703.40	21.60	678.20	41.30	657.00
3/1/2016	739.70		88.60	665.00	108.10	703.30	21.60	678.20	41.30	657.00
3/9/2016	739.40		88.60	665.00	108.20	703.30	21.60	678.20	41.30	657.80
3/17/2016	739.30		88.60	665.00	108.20	703.20	21.60	678.20	41.30	657.80
3/23/2016	739.10		88.80	665.00	108.30	703.20	21.60	678.20	41.30	657.80
3/30/2016	738.50	1.59	89.00	665.40	108.30	703.20	21.60	678.00	41.30	657.80
4/6/2016	738.00		89.00	665.40	108.30	703.10	21.60	678.20	41.30	657.80
4/13/2016	737.60		89.00	665.40	108.40	703.10	21.60	678.20	41.30	657.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
4/20/2016	736.90		89.00	665.40	108.40	703.10	21.60	678.20	41.30	657.80
4/27/2016	736.20	0.07	89.00	665.40	108.40	703.50	21.60	678.20	41.30	657.80
5/4/2016	736.90		89.00	665.40	108.50	703.50	21.60	678.20	41.30	657.80
5/11/2016	737.50		89.00	665.40	108.50	703.50	21.60	678.20	41.30	657.80
5/18/2016	737.00		89.00	665.40	108.50	703.50	21.60	678.20	41.30	657.80
5/25/2016	737.60	1.21	89.00	665.40	108.50	703.40	21.60	678.20	41.30	657.80
6/1/2016	737.60		89.00	665.40	108.50	703.40	21.60	678.20	41.30	657.80
6/8/2016	737.90		89.00	665.00	108.50	703.40	21.60	678.20	41.30	657.80
6/15/2016	738.00		88.60	665.00	108.50	703.40	21.60	678.20	41.30	657.80
6/23/2016	737.70		88.40	665.90	108.60	703.40	21.60	678.20	41.30	657.80
6/29/2016	737.50	0.00	88.50	665.90	108.60	702.90	21.60	678.20	41.30	657.80
7/6/2016	737.40		88.50	665.90	108.60	702.80	21.60	678.20	41.30	657.80
7/15/2016	737.40		88.50	665.40	108.70	702.80	21.60	678.20	41.30	657.80
7/20/2016	737.10		89.00	665.40	108.70	702.80	21.60	678.20	41.30	657.80
7/27/2016	736.70	0.00	89.00	666.00	108.70	702.80	21.60	678.20	41.30	657.80
8/3/2016	736.90		88.40	666.00	108.70	702.70	21.60	678.20	41.30	657.80
8/10/2016	737.10		88.40	665.40	108.80	702.60	21.60	678.20	41.30	657.80
8/17/2016	736.60		89.00	664.40	108.90	702.60	21.60	678.20	41.30	657.80
8/24/2016	736.70		90.00	663.40	108.90	702.60	21.60	678.20	41.30	657.80
8/30/2016	736.70	0.00	91.00	665.40	108.90	702.60	21.60	678.10	41.30	657.80
9/7/2016	737.30		89.00	665.40	108.90	702.40	21.70	678.30	41.30	657.00
9/14/2016	737.90		89.00	665.40	109.10	702.40	21.50	678.10	41.30	657.80
9/21/2016	738.80		89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.80
9/28/2016	739.60	0.00	89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.00
10/5/2016	739.50		89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.00
10/12/2016	739.20		89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.80
10/19/2016	739.30		89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.80

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
10/26/2016	740.00	0.89	89.00	665.40	109.10	702.40	21.70	678.10	41.30	657.80
11/2/2016	741.80		89.00	665.40	109.10	702.30	21.70	678.30	41.30	657.00
11/9/2016	741.80		89.00	665.40	109.20	702.30	21.50	678.30	41.30	657.80
11/16/2016	744.00		89.00	665.40	109.20	702.30	21.50	678.30	41.30	657.80
11/23/2016	747.60		89.00	665.40	109.20	702.30	21.50	678.30	41.30	657.80
11/29/2016	750.90	1.62	89.00	665.40	109.20	702.30	21.50	678.30	41.30	657.80
12/7/2016	753.40		89.00	665.80	109.20	702.30	21.50	678.30	41.30	657.80
12/14/2016	753.70		88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
12/21/2016	755.60		88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
12/28/2016	757.00	4.37	88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
1/4/2017	757.50		88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
1/13/2017	758.10		88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
1/18/2017	758.30		88.60	665.80	109.20	702.30	21.50	678.30	41.30	657.80
1/25/2017	758.00	6.73	88.60	665.80	109.20	702.30	21.50	678.30	39.50	659.60
2/1/2017	769.10		88.60	665.80	109.20	702.60	21.50	678.30	39.50	659.60
2/8/2017	769.70		88.60	665.80	108.90	702.50	21.50	678.30	40.20	658.90
2/15/2017	770.10		88.60	665.80	109.00	702.70	21.50	678.30	40.00	659.10
2/22/2017	771.80	4.17	88.60	665.80	108.80	702.70	21.50	678.30	40.10	659.00
3/1/2017	771.90		88.60	665.80	108.80	702.90	21.50	678.30	40.10	659.00
3/8/2017	771.20		88.60	665.80	108.60	703.10	21.50	678.30	40.10	659.00
3/15/2017	770.60		88.60	665.80	108.40	703.20	21.50	678.30	40.30	658.80
3/22/2017	769.60		88.60	665.80	108.30	703.60	21.50	678.30	40.40	658.70
3/29/2017	768.40	0.13	88.60	665.80	107.90	703.60	21.50	679.30	40.60	658.50
4/5/2017	769.10		88.60	665.80	107.90	703.60	20.50	679.30	40.60	658.50
4/12/2017	768.00		88.60	665.80	107.90	703.70	20.50	679.30	40.80	658.30
4/19/2017	767.90		88.60	665.80	107.80	703.60	20.50	679.30	40.80	658.30
4/26/2017	767.70	0.07	88.60	665.80	107.90	703.60	20.50	679.30	40.80	658.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
5/1/2017	767.40		88.60	665.80	107.90	703.90	20.50	679.30	40.80	658.30
5/10/2017	766.50		88.60	665.50	107.60	704.00	20.50	679.30	40.80	658.30
5/17/2017	765.90		88.90	665.50	107.50	704.00	20.50	679.30	40.80	658.30
5/24/2017	765.70		88.90	665.50	107.50	704.00	20.50	679.30	40.80	658.30
5/30/2017	765.50	0.36	88.90	665.50	107.50	704.00	20.50	679.30	40.80	658.30
6/7/2017	765.30		88.90	665.50	107.50	704.20	20.50	679.30	40.80	658.30
6/14/2017	765.10		88.90	665.50	107.30	704.30	20.50	679.00	40.80	658.30
6/21/2017	764.80		88.90	665.50	107.20	704.40	20.50	678.80	40.80	658.30
6/28/2017	764.70	0.05	88.90	665.40	107.10	704.40	21.00	679.30	40.80	658.30
7/5/2017	764.20		89.00	665.40	107.10	704.40	20.50	679.30	40.80	658.30
7/12/2017	763.80		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.50
7/19/2017	763.20		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.50
7/26/2017	762.70	0.00	89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.50
8/2/2017	761.90		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.00
8/9/2017	761.60		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.50
8/16/2017	761.20		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.00
8/23/2017	760.60		89.00	665.40	107.10	704.40	20.50	679.30	40.60	658.00
8/30/2017	759.80	0.05	89.00	664.40	107.10	704.40	20.50	679.30	40.60	658.50
9/6/2017	758.90		90.00	663.40	107.10	704.30	20.50	679.20	40.60	658.50
9/13/2017	758.70		91.00	665.90	107.20	704.30	20.60	679.20	40.70	658.40
9/20/2017	758.30		88.50	665.90	107.20	704.30	20.60	679.20	40.60	658.50
9/27/2017	757.80	0.00	88.50	665.90	107.20	704.40	20.60	679.20	40.60	658.50
10/4/2017	757.60		88.50	665.60	107.10	704.30	20.60	679.20	40.60	658.50
10/10/2017	757.10		88.80	665.60	107.20	704.20	20.60	679.20	40.60	658.50
10/18/2017	756.90		88.80	665.60	107.30	704.50	20.60	679.20	40.60	658.50
10/25/2017	756.60	0.00	88.80	665.60	107.00	704.10	20.60	679.20	40.60	658.00
11/1/2017	755.70		88.80	665.60	107.40	704.00	20.60	679.50	40.60	658.00

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
11/8/2017	755.30		88.80	665.60	107.50	704.00	20.30	679.50	40.60	658.50
11/15/2017	755.10	0.29	88.80	665.60	107.50	704.30	20.30	679.20	40.60	658.50
12/6/2017	754.20		88.80	665.60	107.20	703.70	20.60	679.20	40.60	658.50
12/13/2017	753.90		88.80	665.00	107.80	703.60	20.60	679.20	40.60	658.50
12/20/2017	753.60		88.80	665.60	107.90	703.60	20.60	679.20	40.60	658.50
12/27/2017	753.30	0.00	88.80	665.60	107.90	703.60	20.60	679.20	40.60	658.50
1/3/2018	753.10		88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
1/10/2018	753.10		88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
1/17/2018	753.00		88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
1/24/2018	752.80		88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
1/30/2018	752.60	1.79	88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
2/7/2018	752.30		88.80	665.57	107.90	703.61	20.60	679.24	40.60	658.49
2/14/2018	751.80		88.40	665.97	107.90	703.61	20.50	679.34	40.70	658.39
2/21/2018	750.20		88.40	665.97	108.00	703.51	20.50	679.34	40.80	658.29
2/27/2018	750.30	0.60	88.40	665.97	108.10	703.41	20.50	679.34	40.80	658.29
3/7/2018	750.20		88.40	665.97	108.10	703.41	20.50	679.34	40.80	658.29
3/15/2018	750.10		88.40	665.97	108.20	703.31	20.50	679.34	40.80	658.29
3/21/2018	750.80		88.40	665.97	108.20	703.31	20.50	679.34	41.00	658.09
3/28/2018	750.90	0.56	88.40	665.97	108.20	703.31	20.50	679.34	41.00	658.09
4/4/2018	751.70		88.40	665.97	108.20	703.31	20.50	679.34	41.00	658.09
4/11/2018	751.70		88.50	665.87	108.30	703.21	20.50	679.34	41.00	658.09
4/18/2018	750.80		88.50	665.87	108.30	703.21	20.50	679.34	41.00	658.09
4/25/2018	749.50	0.05	88.50	665.87	108.30	703.21	20.50	679.34	41.00	658.09
5/1/2018	750.50		88.50	665.87	108.40	703.11	20.50	679.34	41.00	658.09
5/8/2018	749.40		88.50	665.87	108.50	703.01	20.50	679.34	41.00	658.09
5/15/2018	748.30		88.50	665.87	108.50	703.01	20.50	679.34	41.00	658.09
5/22/2018	747.00		88.50	665.87	108.50	703.01	20.50	679.34	41.00	658.09

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
5/29/2018	745.60	0.32	88.50	665.87	108.40	703.11	20.50	679.34	41.00	658.09
6/6/2018	744.70		88.50	665.87	108.40	703.11	20.50	679.34	41.00	658.09
6/13/2018	743.70		88.70	665.67	108.50	703.01	20.50	679.34	40.90	658.19
6/20/2018	742.50		88.70	665.67	108.50	703.01	20.50	679.34	40.90	658.19
6/27/2018	741.20	0.00	88.70	665.67	108.50	703.01	20.50	679.34	41.00	658.09
7/5/2018	739.80		88.70	665.67	108.60	702.91	20.50	679.34	41.00	658.09
7/11/2018	738.70		88.70	665.67	108.80	702.71	20.50	679.34	41.00	658.09
7/18/2018	738.50		88.70	665.67	108.80	702.71	20.50	679.34	41.00	658.09
7/25/2018	738.40	0.00	88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
8/1/2018	738.10		88.70	665.67	108.80	702.71	20.50	679.34	41.00	658.09
8/8/2018	737.80		88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
8/15/2018	737.70		88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
8/22/2018	737.90		88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
8/29/2018	737.90	0.00	88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
9/5/2018	738.00		88.70	665.67	108.90	702.61	20.50	679.34	41.00	658.09
9/12/2018	737.90		88.70	665.67	109.00	702.51	20.50	679.34	41.00	658.09
9/19/2018	737.60		88.70	665.67	109.10	702.41	20.50	679.34	41.00	658.09
9/26/2018	737.30	0.00	88.70	665.67	109.10	702.41	20.50	679.34	41.00	658.09
10/3/2018	737.50		88.70	665.67	109.10	702.41	20.50	679.34	41.00	658.09
10/10/2018	737.70		88.70	665.67	109.20	702.31	20.50	679.34	41.00	658.09
10/17/2018	738.20		88.70	665.67	109.30	702.21	20.50	679.34	41.00	658.09
10/24/2018	738.60		88.70	665.67	109.40	702.11	20.50	679.34	41.00	658.09
10/30/2018	738.50	0.69	88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09
11/7/2018	738.40		88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09
11/16/2018	737.70		88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09
11/21/2018	737.50		88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09
11/28/2018	737.20	1.66	88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
12/5/2018	737.60		88.70	665.67	109.50	702.01	20.50	679.34	41.00	658.09
12/12/2018	737.70		88.70	665.67	109.60	701.91	20.50	679.34	41.00	658.09
12/19/2018	737.60		88.70	665.67	109.60	701.91	20.50	679.34	41.00	658.09
12/27/2018	737.40	2.05	88.70	665.67	109.70	701.81	20.50	679.34	41.00	658.09
1/2/2019	737.10		88.70	665.67	109.70	701.81	20.50	679.34	41.00	658.09
1/9/2019	738.40		88.70	665.67	109.80	701.71	20.50	679.34	41.00	658.09
1/16/2019	738.50		88.70	665.67	109.80	701.71	20.50	679.34	40.80	658.29
1/23/2019	740.80		88.70	665.67	109.90	701.61	20.50	679.34	40.70	658.39
1/30/2019	740.70	5.18	88.70	665.67	109.90	701.61	20.50	679.34	40.80	658.29
2/6/2019	745.80		88.70	665.67	109.90	701.61	20.50	679.34	40.80	658.29
2/13/2019	747.80		88.70	665.67	110.00	701.51	20.40	679.44	40.80	658.29
2/20/2019	764.70		88.70	665.67	109.50	702.01	20.40	679.44	38.90	660.19
2/27/2019	766.80	8.65	88.70	665.67	109.80	701.71	20.40	679.44	39.00	660.09
3/6/2019	769.50		88.70	665.67	109.80	701.71	20.40	679.44	38.60	660.49
3/13/2019	772.00		88.70	665.67	109.60	701.91	20.40	679.44	38.70	660.39
3/20/2019	773.30		88.70	665.67	109.50	702.01	20.40	679.44	38.80	660.29
3/27/2019	774.30	2.49	88.70	665.67	109.50	702.01	20.40	679.44	38.90	660.19
4/3/2019	774.50		88.70	665.67	109.50	702.01	20.40	679.44	39.40	659.69
4/10/2019	774.70		88.50	665.87	109.20	702.31	20.40	679.44	40.40	658.69
1/17/2019	774.80		88.50	665.87	109.00	702.51	20.40	679.44	40.50	658.59
4/24/2019	774.90	0.10	88.50	665.87	109.00	702.51	20.40	679.44	40.50	658.59
5/1/2019	774.90		88.50	665.87	109.00	702.51	20.40	679.44	40.50	658.59
5/8/2019	774.90		88.50	665.87	108.50	703.01	20.50	679.34	40.50	658.59
5/15/2019	774.60		88.70	665.67	108.10	703.41	20.50	679.34	40.50	658.59
5/22/2019	773.90		88.70	665.67	107.70	703.81	20.50	679.34	40.50	658.59
5/29/2019	773.10	1.07	88.70	665.67	107.70	703.81	20.50	679.34	40.50	658.59
6/5/2019	772.10		88.70	665.67	107.50	704.01	20.50	679.34	40.50	658.59

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
6/12/2019	770.80		88.70	665.67	107.40	704.11	20.50	679.34	40.50	658.59
6/19/2019	769.50		88.70	665.67	107.30	704.21	20.50	679.34	40.50	658.59
6/26/2019	768.10	0.03	88.70	665.67	107.10	704.41	20.50	679.34	40.50	658.59
7/3/2019	766.70		88.70	665.67	107.10	704.41	20.50	679.34	40.50	658.59
7/5/2019	766.20		88.70	665.67	107.10	704.41	20.50	679.34	40.50	658.59
7/10/2019	765.10		88.70	665.67	107.00	704.51	20.80	679.04	40.50	658.59
7/17/2019	763.40		88.70	665.67	106.80	704.71	20.80	679.04	40.50	658.59
7/24/2019	761.70		88.70	665.67	106.70	704.81	20.80	679.04	40.50	658.59
7/30/2019	760.50	0.00	88.70	665.67	106.70	704.81	20.80	679.04	40.50	658.59
8/7/2019	759.60		88.70	665.67	106.70	704.81	20.80	679.04	40.50	658.59
8/14/2019	758.80		88.70	665.67	106.70	704.81	20.60	679.24	40.50	658.59
8/21/2019	757.80		88.70	665.67	106.70	704.81	20.60	679.24	40.60	658.49
8/28/2019	757.20	0.00	88.70	665.67	106.80	704.71	20.50	679.34	40.60	658.49
9/4/2019	756.70		88.70	665.67	106.80	704.71	20.50	679.34	40.60	658.49
9/11/2019	756.30		88.70	665.67	106.90	704.61	20.60	679.24	40.60	658.49
9/18/2019	755.90		88.70	665.67	106.90	704.61	20.90	678.94	40.80	658.29
9/25/2019	755.20	0.00	88.70	665.67	107.00	704.51	21.30	678.54	41.20	657.89
10/2/2019	754.60		88.70	665.67	107.00	704.51	20.70	679.14	40.90	658.19
10/10/2019	754.30		88.70	665.67	107.00	704.51	20.30	679.54	40.70	658.39
10/16/2019	753.90		88.70	665.67	107.10	704.41	20.30	679.54	40.70	658.39
10/26/2019	752.70		88.70	665.67	107.20	704.31	20.30	679.54	40.70	658.39
10/30/2019	752.30	0.00	88.70	665.67	107.20	704.31	20.30	679.54	40.70	658.39
11/6/2019	751.70		88.70	665.67	107.30	704.21	20.30	679.54	40.70	658.39
11/13/2019	751.30		88.70	665.67	107.50	704.01	20.30	679.54	40.70	658.39
11/20/2019	751.20		88.70	665.67	107.40	704.11	20.30	679.54	40.70	658.39
11/27/2019	751.10	2.38	88.70	665.67	107.40	704.11	20.30	679.54	40.70	658.39

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
12/4/2019	751.20		88.70	665.67	107.40	704.11	20.30	679.54	40.70	658.39
12/11/2019	751.40		88.70	665.67	107.80	703.71	20.30	679.54	40.60	658.49
12/18/2019	751.30		88.70	665.67	107.80	703.71	20.30	679.54	40.80	658.29
12/26/2019	751.60	4.61	88.70	665.67	107.90	703.61	20.30	679.54	40.80	658.29
1/2/2020	751.80		88.70	665.67	107.90	703.61	20.30	679.54	40.80	658.29
1/8/2020	751.90		88.70	665.67	107.70	703.81	20.30	679.54	40.90	658.19
1/15/2020	751.90		88.70	665.67	107.80	703.71	20.30	679.54	40.80	658.29
1/22/2020	751.90		88.70	665.67	107.90	703.61	20.40	679.44	40.80	658.29
1/29/2020	752.00	0.15	88.70	665.67	107.80	703.71	20.40	679.44	40.80	658.29
2/5/2020	751.90		88.70	665.67	107.80	703.71	20.40	679.44	40.80	658.29
2/12/2020	751.90		88.70	665.67	108.00	703.51	20.40	679.44	40.80	658.29
2/19/2020	751.90		88.70	665.67	108.10	703.41	20.40	679.44	41.10	657.99
2/26/2020	751.90	0.53	88.70	665.67	108.20	703.31	20.40	679.44	41.10	657.99
3/4/2020	751.80		88.70	665.67	108.20	703.31	20.40	679.44	41.10	657.99
3/11/2020	751.80		88.70	665.67	108.20	703.31	20.50	679.34	41.10	657.99
3/18/2020	752.10		88.70	665.67	108.20	703.31	20.40	679.44	41.10	657.99
3/25/2020	753.30	4.31	88.70	665.67	108.20	703.31	20.40	679.44	41.10	657.99
4/1/2020	753.60		88.70	665.67	108.20	703.31	20.40	679.44	41.10	657.99
4/8/2020	755.80		88.70	665.67	108.20	703.31	20.40	679.44	40.80	658.29
4/15/2020	760.50		88.70	665.67	108.20	703.31	20.40	679.44	39.70	659.39
4/22/2020	761.50		88.70	665.67	108.20	703.31	20.40	679.44	40.60	658.49
4/29/2020	761.90	3.88	88.70	665.67	108.20	703.31	20.40	679.44	40.30	658.79
5/6/2020	761.20		88.70	665.67	108.20	703.31	20.40	679.44	40.30	658.79
5/13/2020	762.10		88.70	665.67	108.20	703.31	20.40	679.44	40.40	658.69
5/20/2020	762.20		88.70	665.67	108.20	703.31	20.50	679.34	40.50	658.59
5/27/2020	762.10	0.03	88.70	665.67	108.20	703.31	20.50	679.34	40.50	658.59
6/3/2020	761.90		88.70	665.67	108.00	703.51	20.50	679.34	40.80	658.29

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
6/10/2020	761.80		88.70	665.67	108.00	703.51	20.30	679.54	40.80	658.29
6/19/2020	760.10		88.70	665.67	108.00	703.51	20.30	679.54	40.80	658.29
6/24/2020	759.00	0.00	88.70	665.67	108.00	703.51	20.30	679.54	40.80	658.29
7/1/2020	757.30		88.70	665.67	108.00	703.51	20.30	679.54	40.80	658.29
7/8/2020	755.80		88.70	665.67	108.00	703.51	20.30	679.54	40.80	658.29
7/15/2020	754.40		88.70	665.67	108.00	703.51	20.00	679.84	40.80	658.29
7/22/2020	752.90		88.70	665.67	108.10	703.41	20.00	679.84	40.80	658.29
7/29/2020	751.40	0.00	88.70	665.67	108.10	703.41	20.00	679.84	40.80	658.29
8/5/2020	749.90		88.70	665.67	108.10	703.41	20.00	679.84	40.80	658.29
8/12/2020	749.60		88.70	665.67	108.10	703.41	20.00	679.84	40.80	658.29
8/19/2020	749.10		88.70	665.67	108.10	703.41	20.10	679.74	40.80	658.29
8/26/2020	747.90	0.00	88.70	665.67	108.10	703.41	20.10	679.74	40.80	658.29
9/2/2020	746.40		88.70	665.67	108.10	703.41	20.30	679.54	40.90	658.19
9/9/2020	745.70		88.70	665.67	108.50	703.01	19.80	680.04	40.90	658.19
9/16/2020	745.20		88.70	665.67	108.40	703.11	19.40	680.44	40.80	658.29
9/19/2020	747.80		88.70	665.67	108.40	703.11	19.40	680.44	40.80	658.29
9/23/2020	749.40		88.70	665.67	108.50	703.01	19.60	680.24	40.80	658.29
9/30/2020	743.50	0.00	88.70	665.67	108.50	703.01	19.60	680.24	40.80	658.29
10/7/2020	742.70		88.70	665.67	108.50	703.01	20.10	679.74	40.80	658.29
10/14/2020	741.60		88.70	665.67	108.50	703.01	20.10	679.74	40.80	658.29
10/21/2020	740.30		88.70	665.67	108.60	702.91	20.10	679.74	40.80	658.29
10/28/2020	739.90	0.00	88.70	665.67	108.70	702.81	20.10	679.74	40.80	658.29
11/4/2020	739.40		88.70	665.67	108.70	702.81	20.10	679.74	40.80	658.29
11/10/2020	739.20		88.70	665.67	108.80	702.71	19.60	680.24	40.80	658.29
11/18/2020	739.00		88.70	665.67	108.80	702.71	19.80	680.04	40.80	658.29
11/25/2020	738.80	0.54	88.70	665.67	108.90	702.61	19.90	679.94	41.10	657.99
12/2/2020	738.50		88.70	665.67	108.90	702.61	19.90	679.94	41.10	657.99

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
12/9/2020	738.20		88.70	665.67	108.90	702.61	20.00	679.84	41.10	657.99
12/16/2020	738.00		88.70	665.67	108.90	702.61	20.10	679.74	41.10	657.99
12/23/2020	738.20	1.72	88.70	665.67	108.90	702.61	20.10	679.74	41.10	657.99
1/6/2021	742.10		88.70	665.67	109.00	702.51	20.10	679.74	41.10	657.99
1/13/2021	742.10		88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
1/20/2021	741.80		88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
1/27/2021	741.70	1.36	88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
2/3/2021	741.80		88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
2/10/2021	741.60		88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
2/17/2021	741.40		88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
2/24/2021	741.00	0.14	88.70	665.67	109.20	702.31	20.10	679.74	41.10	657.99
3/3/2021	740.80		88.60	665.77	109.40	702.11	20.10	679.74	41.10	657.99
3/10/2021	740.60		88.60	665.77	109.40	702.11	20.20	679.64	41.10	657.99
3/17/2021	741.00		88.60	665.77	109.40	702.11	20.40	679.44	41.10	657.99
3/24/2021	740.90		88.60	665.77	109.30	702.21	20.40	679.44	41.10	657.99
3/31/2021	740.60	1.53	88.60	665.77	109.30	702.21	20.40	679.44	41.10	657.99
4/7/2021	740.80		88.60	665.77	109.30	702.21	20.40	679.44	41.10	657.99
4/14/2021	740.70		88.60	665.77	109.40	702.11	20.40	679.44	41.10	657.99
4/21/2021	741.30		88.60	665.77	109.50	702.01	20.40	679.44	41.10	657.99
4/28/2021	742.00	0.00	88.60	665.77	109.50	702.01	20.40	679.44	41.10	657.99
5/5/2021	741.90		88.70	665.67	109.50	702.01	20.40	679.44	41.10	657.99
5/15/2021	740.80		88.70	665.67	109.50	702.01	20.40	679.44	41.10	657.99
5/19/2021	740.40		88.70	665.67	109.50	702.01	20.40	679.44	41.10	657.99
5/26/2021	740.10	0.05	88.70	665.67	109.50	702.01	20.40	679.44	41.10	657.99
6/2/2021	739.60		88.70	665.67	109.60	701.91	20.30	679.54	41.10	657.99
6/9/2021	738.30		88.70	665.67	109.70	701.81	20.20	679.64	41.10	657.99
6/16/2021	737.20		88.70	665.67	109.60	701.91	20.10	679.74	41.10	657.99
6/23/2021	736.00		88.70	665.67	109.70	701.81	20.10	679.74	41.10	657.99

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			R-7 Lower		No. 1		No. 2		No. 3	
Top Ref. Elev. (ft)			750.800		811.500		697.500		696.000	
Top Ref. Elev. (ft) After 5/21/2012			754.370		811.510		699.835		699.090	
Tip Elev. (ft)			664.700		695.310		677.700		654.000	
Total Depth (ft)			86.1		116.2		19.8		42.0	
Total Depth (ft) After 5/21/2012			89.7		116.2		22.1		45.1	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-7L		NO.1		NO.2		NO.3	
6/30/2021	736.40	0.00	88.70	665.67	109.70	701.81	20.10	679.74	41.10	657.99
7/7/2021	737.00		88.70	665.67	109.70	701.81	20.30	679.54	41.10	657.99
7/14/2021	737.40		88.70	665.67	109.70	701.81	20.30	679.54	41.10	657.99
7/21/2021	737.80		88.70	665.67	109.90	701.61	20.30	679.54	41.10	657.99
7/28/2021	736.40	0.05	88.70	665.67	110.00	701.51	20.30	679.54	41.10	657.99
8/4/2021	736.30		88.70	665.67	110.00	701.51	20.30	679.54	41.10	657.99
8/11/2021	735.90		88.70	665.67	110.00	701.51	20.30	679.54	41.10	657.99
8/18/2021	735.90		88.70	665.67	110.00	701.51	20.30	679.54	41.10	657.99
8/25/2021	735.70	0.00	88.70	665.67	110.00	701.51	20.40	679.44	41.10	657.99
9/1/2021	735.60		88.60	665.77	110.00	701.51	20.40	679.44	41.10	657.99
9/8/2021	736.00		88.50	665.87	110.00	701.51	20.40	679.44	41.10	657.99
9/15/2021	737.00		88.40	665.97	110.00	701.51	20.30	679.54	41.10	657.99
9/22/2021	737.50		88.30	666.07	110.00	701.51	20.30	679.54	41.10	657.99
9/29/2021	738.00	0.00	88.20	666.17	110.00	701.51	20.30	679.54	41.10	657.99
10/6/2021	738.20		87.80	666.57	110.10	701.41	20.30	679.54	41.10	657.99
10/13/2021	738.70		87.70	666.67	110.20	701.31	20.30	679.54	41.10	657.99
10/22/2021	738.80		87.60	666.77	110.20	701.31	20.30	679.54	41.10	657.99
10/27/2021	739.00	0.46	87.40	666.97	110.30	701.21	20.30	679.54	41.10	657.99
11/3/2021	739.60		87.30	667.07	110.30	701.21	20.30	679.54	40.80	658.29
11/10/2021	740.20		87.30	667.07	110.30	701.21	20.40	679.44	41.00	658.09
11/17/2021	740.20		87.30	667.07	110.40	701.11	20.40	679.44	40.80	658.29
11/24/2021	739.90	0.00	87.30	667.07	110.40	701.11	20.40	679.44	40.80	658.29
12/1/2021	739.50		87.30	667.07	110.40	701.11	20.40	679.44	41.00	658.09
12/8/2021	739.40		87.30	667.07	110.50	701.01	20.40	679.44	41.00	658.09
12/15/2021	740.00		87.30	667.07	110.50	701.01	20.40	679.44	41.00	658.09
12/22/2021	740.00		87.30	667.07	110.40	701.11	20.40	679.44	41.00	658.09
12/29/2021	743.00	7.24	87.30	667.07	110.40	701.11	20.40	679.44	41.00	658.09

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
1/10/2007	749.70					
1/19/2007	749.40					
1/29/2007	749.60					
2/7/2007	750.00					
2/16/2007	750.20					
2/26/2007	750.60					
3/6/2007	751.70					
3/17/2007	755.10					
3/25/2007	756.30					
4/6/2007	760.00					
4/16/2007	762.90					
4/27/2007	767.10					
5/9/2007	766.80					
5/19/2007	764.80					
5/29/2007	762.80					
6/8/2007	761.20					
6/18/2007	759.90					
6/28/2007	758.10					
7/10/2007	756.70					
7/19/2007	755.80					
7/30/2007	754.90					
8/11/2007	754.40					
8/22/2007	753.80					
8/30/2007	753.30					
9/7/2007	753.20					
9/18/2007	753.00					
9/27/2007	753.60					

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
10/8/2007	754.90					
10/17/2007	756.20					
10/30/2007	757.80					
11/9/2007	759.60					
11/19/2007	763.60					
11/28/2007	766.50					
12/8/2007	768.70					
12/18/2007	768.50					
12/28/2007	769.30					
1/9/2008	770.50					
1/19/2008	770.30					
1/29/2008	772.70					
2/9/2008	774.10					
2/19/2008	774.40					
2/27/2008	775.00					
3/7/2008	775.00					
3/18/2008	775.00					
3/29/2008	774.90					
4/10/2008	775.00					
4/20/2008	774.80					
5/5/2008	774.65					
5/13/2008	773.90					
5/21/2008	772.85					
5/31/2008	772.10					
6/9/2008	771.20					
6/18/2008	770.50					
6/26/2008	769.60					

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
7/8/2008	768.10					
7/19/2008	766.60					
7/29/2008	765.50	0.00				
8/4/2008	764.60	0.00				
8/9/2008	764.25	0.00				
8/19/2008	763.20	0.00				
8/28/2008	762.25	0.00				
9/6/2008	761.00	0.00				
9/17/2008	760.10	0.00				
9/29/2008	759.20	0.00				
10/8/2008	759.00	0.00				
10/18/2008	758.90	0.00				
10/29/2008	761.30	0.00				
11/8/2008	764.30	0.00				
11/17/2008	766.90	0.00				
11/25/2008	769.90	1.71				
12/4/2008	773.90					
12/13/2008	777.30					
12/21/2008	779.10					
12/30/2008	779.40	3.99				
1/8/2009	779.30					
1/19/2009	778.50					
1/29/2009	778.30	0.38				
2/12/2009	779.80					
2/19/2009	781.30					
2/27/2009	782.20	4.33				
3/10/2009	782.70					

Notes:

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**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
3/20/2009	782.40					
3/25/2009	782.20	0.43				
4/4/2009	785.30					
4/13/2009	788.50					
4/21/2009	790.50					
4/26/2009	791.20	0.00				
5/4/2009	791.30					
5/13/2009	790.60					
5/21/2009	789.90					
5/30/2009	789.30	0.00				
6/8/2009	788.70					
6/17/2009	788.20					
6/27/2009	787.60	0.00				
7/7/2009	786.80					
7/15/2009	786.10					
7/22/2009	785.50					
7/30/2009	784.70	0.00				
8/8/2009	783.90					
8/15/2009	783.30					
8/26/2009	782.30	0.00				
9/5/2009	781.50					
9/12/2009	780.80					
9/19/2009	780.20					
9/28/2009	779.50	0.00				
10/8/2009	778.50					
10/19/2009	777.80					
10/30/2009	776.80	0.24				

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**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
11/9/2009	776.10					
11/20/2009	775.40					
11/28/2009	774.90	0.00				
12/9/2009	774.60					
12/18/2009	774.60					
12/29/2009	774.30	3.56				
1/9/2010	773.90					
1/17/2010	773.60					
1/28/2010	779.90	7.84				
2/4/2010	780.15					
2/12/2010	783.40					
2/19/2010	784.00					
2/26/2010	784.45	2.69				
3/6/2010	785.60					
3/15/2010	786.20					
3/16/2010	786.30					
3/24/2010	786.20	2.03				
4/2/2010	785.80					
4/4/2010	785.80					
4/12/2010	787.40					
4/20/2010	790.10					
4/28/2010	792.60	1.19				
5/6/2010	792.90					
5/14/2010	792.40					
5/21/2010	792.10					
5/29/2010	791.70	0.00				
6/8/2010	791.00					

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
6/15/2010	790.60					
6/22/2010	790.10					
6/29/2010	789.70	0.00				
7/8/2010	789.20					
7/16/2010	788.70					
7/23/2010	788.30					
7/31/2010	787.70	0.00				
8/7/2010	787.30					
8/15/2010	786.70					
8/23/2010	786.10					
8/29/2010	785.60	0.00				
9/8/2010	784.90					
9/17/2010	784.20					
9/27/2010	783.50	0.00				
10/8/2010	782.80					
10/18/2010	782.20					
10/28/2010	782.00	1.76				
11/4/2010	781.70					
11/15/2010	781.10					
11/26/2010	780.80	1.33				
12/8/2010	780.50					
12/16/2010	780.40					
12/30/2010	792.60	11.72				
1/6/2011	792.20					
1/7/2011	792.20					
1/17/2011	792.00					
1/27/2011	791.80	1.11				

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**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021**

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
2/5/2011	791.80					
2/15/2011	791.80					
2/23/2011	792.20	2.87				
3/8/2011	792.10					
3/19/2011	791.80					
3/30/2011	791.50	3.23				
4/7/2011	792.10					
4/16/2011	792.50					
4/23/2011	792.60					
4/30/2011	792.60	0.00				
5/9/2011	792.40					
5/16/2011	792.40					
5/24/2011	792.40					
5/31/2011	792.40	0.81				
6/8/2011	792.10					
6/16/2011	791.90					
6/23/2011	791.80					
6/30/2011	791.60	0.00				
7/8/2011	791.40					
7/14/2011	791.20					
7/21/2011	790.90					
7/30/2011	790.40	0.00				
8/9/2011	789.90					
8/15/2011	789.70					
8/24/2011	789.00					
9/1/2011	788.65	0.00				
9/9/2011	787.90					

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
9/16/2011	787.30					
9/23/2011	787.00					
9/29/2011	786.80	0.08				
10/8/2011	786.60					
10/15/2011	786.40					
10/26/2011	786.00	1.29				
11/5/2011	785.50		37.00	661.00	36.20	667.30
11/14/2011	785.40		37.00	661.00	36.20	667.30
11/22/2011	785.10		37.00	661.00	37.80	665.70
11/30/2011	785.10	1.79	37.00	661.00	39.00	664.50
12/9/2011	784.80		37.00	661.00	39.00	664.50
12/17/2011	784.60		37.00	661.00	39.00	664.50
12/22/2011	784.50		37.00	661.00	39.00	664.50
12/30/2011	784.30	0.45	37.00	661.00	39.00	664.50
1/7/2012	784.00		37.00	661.00	39.00	664.50
1/14/2012	783.80		37.00	661.00	39.00	664.00
1/21/2012	783.60		37.00	661.00	39.00	664.50
1/28/2012	783.60	1.72	37.00	661.00	39.00	664.50
2/7/2012	783.40		37.00	661.00	39.00	664.50
2/15/2012	783.40		37.00	661.00	39.00	664.50
2/25/2012	783.40	0.62	37.00	661.00	39.00	664.50
3/5/2012	783.20		37.00	661.00	39.00	664.50
3/15/2012	782.70		37.00	661.00	39.00	664.50
3/22/2012	782.60	2.01	37.00	661.00	39.00	664.50
4/3/2012	782.50		37.00	661.00	39.00	664.50
4/12/2012	782.10		37.00	661.00	39.00	664.50
4/21/2012	782.00		37.00	661.00	39.00	664.50

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
4/23/2012	781.90	1.32	37.00	661.00	39.00	664.50
5/1/2012	781.70		37.00	661.00	39.00	664.50
5/7/2012	781.30		37.00	661.00	39.00	664.50
5/21/2012	780.90		37.00	661.00	39.00	664.00
5/25/2012	780.00	0.06	40.20	660.10	42.30	664.60
6/4/2012	779.60		37.00	663.35	39.00	667.90
6/13/2012	778.70		40.20	660.10	42.30	664.60
6/20/2012	778.00		40.20	660.10	42.30	664.60
6/25/2012	777.30	0.00	40.20	660.10	42.60	664.30
7/4/2012	776.30		40.30	660.00	42.50	664.40
7/13/2012	775.70		40.20	660.10	42.40	664.50
7/20/2012	775.20		40.30	660.00	42.40	664.50
7/30/2012	775.00	0.10	40.30	660.00	42.40	664.50
8/8/2012	773.00		40.30	660.00	42.50	664.40
8/9/2012	772.90		40.30	660.00	42.50	664.40
8/18/2012	772.00		40.30	660.00	42.40	664.50
8/27/2012	771.10		40.20	660.10	42.30	664.60
8/29/2012	770.90	0.00	40.20	660.10	42.30	664.60
9/8/2012	769.80		40.20	660.10	42.30	664.60
9/15/2012	768.90		40.20	660.10	42.30	664.60
9/29/2012	767.80	0.00	40.10	660.20	42.30	664.60
10/11/2012	766.80		40.10	660.20	42.30	664.60
10/23/2012	765.90	1.10	40.10	660.20	42.30	664.60
11/12/2012	764.60		40.10	660.20	42.30	664.60
11/23/2012	764.30	0.16	40.10	660.20	42.30	664.60
12/12/2012	764.50	2.46	40.10	660.20	42.30	664.80
12/27/2012	769.10		40.10	660.20	42.30	664.60

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
1/16/2013	770.40		40.10	660.20	42.30	664.60
1/28/2013	769.90	1.82	40.20	660.10	42.30	664.60
2/15/2013	769.60		40.20	660.10	42.30	664.60
2/26/2013	769.40	0.68	40.20	660.10	42.30	664.60
3/13/2013	768.80		40.00	660.30	42.30	664.60
3/26/2013	768.60	0.66	40.10	660.20	42.30	664.60
4/10/2013	771.10		40.10	660.20	42.30	664.60
4/30/2013	772.20	0.00	40.10	660.20	42.30	664.60
5/9/2013	771.90		40.10	660.20	42.60	664.30
5/15/2013	771.70		40.10	660.20	42.60	664.30
5/22/2013	771.40		40.10	660.20	42.60	664.30
5/30/2013	771.00	0.00	40.10	660.20	42.60	664.30
6/6/2013	770.80		40.10	660.20	42.60	664.30
6/13/2013	769.30		40.10	660.20	42.60	664.30
6/20/2013	769.00		40.10	660.20	42.60	664.30
6/26/2013	768.60	0.00	40.10	660.20	42.60	664.30
7/2/2013	767.80		40.10	660.20	42.60	664.30
7/10/2013	766.90		40.10	660.20	42.60	664.30
7/16/2013	766.50		40.10	660.20	42.60	664.30
7/29/2013	765.20	0.00	40.10	660.20	42.60	664.30
8/5/2013	764.50		40.10	660.20	42.60	664.30
8/12/2013	763.80		40.10	660.20	42.60	664.30
8/19/2013	763.30		40.10	660.20	42.60	664.30
8/26/2013	762.40	0.00	40.10	660.20	42.60	664.30
9/2/2013	761.50		40.10	660.20	42.60	664.30
9/10/2013	760.70		40.10	660.20	42.60	664.30
9/17/2013	759.90		40.10	660.20	42.60	664.30

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
9/23/2013	759.40		40.10	660.20	42.60	664.30
9/30/2013	758.70	0.00	40.10	660.00	42.60	664.00
10/7/2013	758.30		40.10	660.20	42.60	664.30
10/14/2013	757.60		40.10	660.20	42.60	664.30
10/21/2013	756.60		40.10	660.20	42.60	664.30
10/28/2013	756.00	0.00	40.10	660.20	42.60	664.30
11/4/2013	755.70		40.10	660.20	42.60	664.30
11/11/2013	756.10		40.10	660.20	42.60	664.30
11/18/2013	755.70		40.10	660.20	42.60	664.30
11/25/2013	755.40	0.55	40.10	660.20	42.60	664.30
12/2/2013	755.30		40.10	660.20	42.60	664.30
12/10/2013	755.40		40.10	660.20	42.60	664.30
12/16/2013	755.20		40.10	660.20	42.60	664.30
12/23/2013	755.20		40.10	660.20	42.60	664.30
12/30/2013	754.80	0.83	40.10	660.00	42.60	664.00
1/6/2014	754.50		40.10	660.20	42.60	664.30
1/13/2014	755.00		40.10	660.20	42.60	664.30
1/20/2014	754.60		40.10	660.20	42.60	664.30
1/27/2014	754.30	0.00	40.10	660.20	42.60	664.30
2/3/2014	754.10		40.10	660.20	42.60	664.30
2/10/2014	754.70		40.10	660.20	42.60	664.30
2/17/2014	754.50		40.10	660.20	42.60	664.30
2/24/2014	754.20	0.83	40.10	660.20	42.60	664.30
3/3/2014	754.50		40.10	660.20	42.60	664.30
3/10/2014	755.20		40.10	660.20	42.60	664.30
3/19/2014	755.90		40.10	660.20	42.60	664.30
3/25/2014	758.80		40.10	660.20	42.60	664.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
3/29/2014	760.50		40.10	660.20	42.60	664.30
3/31/2014	761.60	1.85	40.10	660.20	42.60	664.30
4/1/2014	762.00		40.10	660.20	42.60	664.30
4/8/2014	764.70		40.10	660.20	42.60	664.30
4/15/2014	766.60		40.10	660.20	42.60	664.30
4/22/2014	768.60		40.10	660.20	42.60	664.30
4/29/2014	770.40	0.88	40.10	660.20	42.60	664.30
5/5/2014	769.70		40.10	660.20	42.60	664.30
5/12/2014	769.00		40.10	660.20	42.60	664.30
5/19/2014	768.00		40.10	660.20	42.60	664.30
5/26/2014	767.10	0.00	40.10	660.20	42.60	664.30
6/2/2014	766.20		40.10	660.20	42.60	664.30
6/9/2014	765.40		40.10	660.20	42.60	664.30
6/16/2014	764.30		40.10	660.20	42.60	664.30
6/23/2014	763.10		40.10	660.20	42.60	664.30
6/27/2014	762.30	0.00	40.10	660.20	42.60	664.30
7/7/2014	760.90		40.10	660.20	42.60	664.30
7/14/2014	760.00		40.10	660.20	42.60	664.30
7/21/2014	759.10		40.10	660.20	42.60	664.30
7/28/2014	757.90	0.06	40.10	660.20	42.60	664.30
8/4/2014	756.80		40.10	660.20	42.60	664.30
8/11/2014	755.60		40.10	660.20	42.60	664.30
8/18/2014	754.70		40.10	660.20	42.60	664.30
8/25/2014	753.30	0.05	40.10	660.20	42.60	664.30
9/2/2014	751.60		40.10	660.20	42.60	664.30
9/8/2014	750.50		40.10	660.20	42.60	664.30
9/15/2014	749.40		40.10	660.20	42.60	664.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
9/22/2014	748.30		40.10	660.20	42.60	664.30
9/29/2014	747.20	0.00	40.10	660.20	42.60	664.30
10/6/2014	745.70		40.10	660.20	42.60	664.30
10/13/2014	746.70		40.10	660.20	42.60	664.30
10/20/2014	746.60		40.10	660.20	42.60	664.30
10/27/2014	745.80	0.00	40.10	660.20	42.60	664.30
11/3/2014	746.40		40.10	660.20	42.60	664.30
11/10/2014	747.20		40.10	660.20	42.60	664.30
11/17/2014	747.70		40.10	660.20	42.60	664.30
11/24/2014	748.80	0.61	40.10	660.20	42.60	664.30
12/1/2014	748.30		40.10	660.20	42.60	664.30
12/8/2014	749.10		40.10	660.20	42.60	664.30
12/15/2014	749.80		40.10	660.20	42.60	664.30
12/29/2014	750.90	5.37	40.10	660.20	42.60	664.30
1/5/2015	751.30		40.10	660.20	42.60	664.30
1/12/2015	751.80		40.10	660.20	42.60	664.30
1/19/2015	752.30		40.10	660.20	42.60	664.30
1/26/2015	752.60	1.48	40.10	660.20	42.60	664.30
2/4/2015	753.10		40.10	660.20	42.60	664.30
2/9/2015	753.30		40.10	660.20	42.60	664.30
2/16/2015	753.80		40.10	660.20	42.60	664.30
2/23/2015	753.90	0.44	40.10	660.20	42.60	664.30
3/2/2015	754.50		40.10	660.20	42.60	664.30
3/9/2015	755.00		40.10	660.20	42.60	664.30
3/16/2015	755.30		40.10	660.20	42.60	664.30
3/23/2015	755.50		40.10	660.20	42.60	664.30
3/30/2015	755.70	0.57	40.10	660.20	42.60	664.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
4/6/2015	755.60		40.10	660.20	42.60	664.30
4/13/2015	755.80		40.10	660.20	42.60	664.30
4/20/2015	755.90		40.10	660.20	42.60	664.30
4/27/2015	755.90	0.20	40.10	660.20	42.60	664.30
5/4/2015	755.60		40.10	660.20	42.60	664.30
5/11/2015	755.30		40.10	660.20	42.60	664.30
5/18/2015	755.20		40.10	660.20	42.60	664.30
5/26/2015	755.30	0.95	40.10	660.20	42.60	664.30
6/1/2015	755.20		40.10	660.20	42.60	664.30
6/8/2015	755.10		40.10	660.20	42.60	664.30
6/15/2015	755.20		40.10	660.20	42.60	664.30
6/22/2015	754.80		40.10	660.20	42.60	664.30
6/29/2015	754.20	0.00	40.10	660.20	42.60	664.30
7/10/2015	753.30		40.10	660.20	42.60	664.30
7/15/2015	753.00		40.10	660.20	42.60	664.30
7/21/2015	752.80		40.10	660.20	42.60	664.30
7/28/2015	752.40	0.00	40.10	660.20	42.60	664.30
8/4/2015	752.00		40.10	660.20	42.60	664.30
8/11/2015	751.60		40.10	660.20	42.60	664.30
8/18/2015	751.10		40.10	660.20	42.60	664.30
8/25/2015	750.60	0.00	40.10	660.20	42.60	664.30
9/1/2015	749.90		40.10	660.20	42.60	664.30
9/8/2015	749.00		40.10	660.20	42.60	664.30
9/15/2015	748.70		40.10	660.20	42.60	664.30
9/22/2015	748.40		40.10	660.20	42.60	664.30
9/29/2015	748.00	2.27	40.10	660.20	42.60	664.30
10/6/2015	747.60		40.10	660.20	42.60	664.30

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
10/13/2015	747.10		40.10	660.20	42.60	664.30
10/20/2015	746.70		40.10	660.20	42.60	664.30
10/27/2015	746.00	0.56	40.10	660.20	42.60	664.30
11/4/2015	745.70		40.10	660.20	42.60	664.30
11/11/2015	745.20		40.10	660.20	42.60	664.30
11/18/2015	744.80		40.10	660.20	42.60	664.30
11/25/2015	744.20	0.12	40.10	660.20	42.60	664.30
12/1/2015	743.70		40.10	660.20	42.60	664.30
12/8/2015	743.10		40.10	660.20	42.60	664.30
12/15/2015	742.70		40.10	660.20	42.60	664.30
12/22/2015	742.30		40.10	660.20	42.60	664.30
12/29/2015	742.10	1.29	40.10	660.20	42.60	664.30
1/5/2016	741.70		40.10	660.20	42.60	664.30
1/12/2016	742.30		40.10	660.20	42.60	664.30
1/19/2016	742.00		40.10	660.20	42.60	664.30
1/26/2016	741.80	3.51	40.10	660.20	42.60	664.30
2/2/2016	741.40		40.10	660.20	42.60	664.30
2/9/2016	741.00		40.10	660.20	42.60	664.30
2/16/2016	740.50		40.10	660.20	42.60	664.30
2/23/2016	740.20	0.35	40.10	660.20	42.60	664.30
3/1/2016	739.70		40.10	660.20	42.60	664.30
3/9/2016	739.40		40.10	660.20	42.60	664.30
3/17/2016	739.30		40.10	660.20	42.60	664.30
3/23/2016	739.10		40.10	660.20	42.60	664.30
3/30/2016	738.50	1.59	40.10	660.20	42.60	664.30
4/6/2016	738.00		40.10	660.20	42.60	664.30
4/13/2016	737.60		40.10	660.20	42.60	664.30

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
4/20/2016	736.90		40.10	660.20	42.60	664.30
4/27/2016	736.20	0.07	40.10	660.20	42.60	664.30
5/4/2016	736.90		40.10	660.00	42.60	664.30
5/11/2016	737.50		40.10	660.20	42.60	664.00
5/18/2016	737.00		40.10	660.20	42.60	664.30
5/25/2016	737.60	1.21	40.10	660.20	42.60	664.30
6/1/2016	737.60		40.10	660.20	42.60	664.30
6/8/2016	737.90		40.10	660.20	42.60	664.30
6/15/2016	738.00		40.10	660.20	42.60	664.30
6/23/2016	737.70		40.10	660.20	42.60	664.30
6/29/2016	737.50	0.00	40.10	660.20	42.60	664.30
7/6/2016	737.40		40.10	660.20	42.60	664.30
7/15/2016	737.40		40.10	660.20	42.60	664.30
7/20/2016	737.10		40.10	660.20	42.60	664.30
7/27/2016	736.70	0.00	40.10	660.20	42.60	664.30
8/3/2016	736.90		40.10	660.20	42.60	664.30
8/10/2016	737.10		40.10	660.20	42.60	664.30
8/17/2016	736.60		40.10	660.20	42.60	664.30
8/24/2016	736.70		40.10	660.20	42.60	664.30
8/30/2016	736.70	0.00	40.10	660.20	42.60	664.30
9/7/2016	737.30		40.10	660.20	42.60	664.30
9/14/2016	737.90		40.10	660.20	42.60	664.30
9/21/2016	738.80		40.10	660.20	42.60	664.30
9/28/2016	739.60	0.00	40.10	660.20	42.60	664.00
10/5/2016	739.50		40.10	660.20	42.60	664.30
10/12/2016	739.20		40.10	660.20	42.60	664.30
10/19/2016	739.30		40.10	660.20	42.60	664.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
10/26/2016	740.00	0.89	40.10	660.20	42.60	664.00
11/2/2016	741.80		40.10	660.20	42.60	664.30
11/9/2016	741.80		40.10	660.20	42.60	664.30
11/16/2016	744.00		40.10	660.20	42.60	664.30
11/23/2016	747.60		40.10	660.20	42.60	664.30
11/29/2016	750.90	1.62	40.10	660.20	42.60	664.30
12/7/2016	753.40		40.10	660.20	42.60	664.30
12/14/2016	753.70		40.10	660.20	42.60	664.30
12/21/2016	755.60		40.10	660.20	42.60	664.30
12/28/2016	757.00	4.37	40.10	660.20	42.60	664.30
1/4/2017	757.50		40.10	660.20	42.60	664.30
1/13/2017	758.10		40.10	660.20	42.60	664.30
1/18/2017	758.30		40.10	660.20	42.60	664.30
1/25/2017	758.00	6.73	40.10	660.20	42.60	664.30
2/1/2017	769.10		40.10	660.20	42.60	664.30
2/8/2017	769.70		40.10	660.20	42.60	664.30
2/15/2017	770.10		40.10	660.20	42.60	664.30
2/22/2017	771.80	4.17	40.10	660.20	42.60	664.30
3/1/2017	771.90		40.10	660.20	42.60	664.30
3/8/2017	771.20		40.10	660.20	42.00	664.90
3/15/2017	770.60		40.10	660.20	42.30	664.60
3/22/2017	769.60		40.10	660.20	42.30	664.60
3/29/2017	768.40	0.13	40.10	660.20	42.60	664.30
4/5/2017	769.10		40.10	660.20	42.60	664.30
4/12/2017	768.00		40.10	660.20	42.60	664.30
4/19/2017	767.90		40.10	660.20	42.60	664.30
4/26/2017	767.70	0.07	40.10	660.20	42.60	664.30

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
5/1/2017	767.40		40.10	660.20	42.60	664.30
5/10/2017	766.50		40.10	660.20	42.60	664.30
5/17/2017	765.90		40.10	660.20	42.60	664.30
5/24/2017	765.70		40.10	660.20	42.60	664.30
5/30/2017	765.50	0.36	40.10	660.20	42.60	664.30
6/7/2017	765.30		40.10	660.20	42.60	664.30
6/14/2017	765.10		40.10	660.20	42.60	664.00
6/21/2017	764.80		40.10	660.20	42.60	664.30
6/28/2017	764.70	0.05	40.10	660.00	42.60	664.30
7/5/2017	764.20		40.10	660.20	42.60	664.30
7/12/2017	763.80		40.10	660.20	42.60	664.30
7/19/2017	763.20		40.10	660.20	42.60	664.30
7/26/2017	762.70	0.00	40.10	660.20	42.60	664.30
8/2/2017	761.90		40.10	660.20	42.60	664.30
8/9/2017	761.60		40.10	660.20	42.60	664.30
8/16/2017	761.20		40.10	660.20	42.60	664.30
8/23/2017	760.60		40.10	660.20	42.60	664.30
8/30/2017	759.80	0.05	40.10	660.20	42.60	664.30
9/6/2017	758.90		40.10	660.20	42.60	664.30
9/13/2017	758.70		40.10	660.20	42.60	664.30
9/20/2017	758.30		40.10	660.00	42.60	664.30
9/27/2017	757.80	0.00	40.10	660.20	42.60	664.30
10/4/2017	757.60		40.10	660.20	42.60	664.30
10/10/2017	757.10		40.10	660.20	42.60	664.30
10/18/2017	756.90		40.10	660.20	42.60	664.30
10/25/2017	756.60	0.00	40.10	660.20	42.60	664.30
11/1/2017	755.70		40.10	660.20	42.60	664.30

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
11/8/2017	755.30		40.10	660.20	42.60	664.30
11/15/2017	755.10	0.29	40.10	660.20	42.60	664.30
12/6/2017	754.20		40.10	660.20	42.60	664.30
12/13/2017	753.90		40.10	660.20	42.60	664.30
12/20/2017	753.60		40.10	660.20	42.60	664.00
12/27/2017	753.30	0.00	40.10	660.20	42.60	664.30
1/3/2018	753.10		40.10	660.25	42.60	664.34
1/10/2018	753.10		40.10	660.25	42.60	664.34
1/17/2018	753.00		40.10	660.25	42.60	664.34
1/24/2018	752.80		40.10	660.25	42.60	664.34
1/30/2018	752.60	1.79	40.10	660.25	42.60	664.34
2/7/2018	752.30		40.10	660.25	42.60	664.34
2/14/2018	751.80		40.10	660.25	42.60	664.34
2/21/2018	750.20		40.10	660.25	42.60	664.34
2/27/2018	750.30	0.60	40.10	660.25	42.60	664.34
3/7/2018	750.20		40.10	660.25	42.60	664.34
3/15/2018	750.10		40.10	660.25	42.60	664.34
3/21/2018	750.80		40.10	660.25	42.60	664.34
3/28/2018	750.90	0.56	40.10	660.25	42.60	664.34
4/4/2018	751.70		40.10	660.25	42.60	664.34
4/11/2018	751.70		40.10	660.25	42.60	664.34
4/18/2018	750.80		40.10	660.25	42.60	664.34
4/25/2018	749.50	0.05	40.10	660.25	42.60	664.34
5/1/2018	750.50		40.10	660.25	42.60	664.34
5/8/2018	749.40		40.10	660.25	42.60	664.34
5/15/2018	748.30		40.10	660.25	42.60	664.34
5/22/2018	747.00		40.10	660.25	42.60	664.34

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
5/29/2018	745.60	0.32	40.10	660.25	42.60	664.34
6/6/2018	744.70		40.10	660.25	42.60	664.34
6/13/2018	743.70		40.10	660.25	42.60	664.34
6/20/2018	742.50		40.10	660.25	42.60	664.34
6/27/2018	741.20	0.00	40.10	660.25	42.60	664.34
7/5/2018	739.80		40.10	660.25	43.60	663.34
7/11/2018	738.70		40.10	660.25	43.60	663.34
7/18/2018	738.50		40.10	660.25	43.60	663.34
7/25/2018	738.40	0.00	40.10	660.25	43.60	663.34
8/1/2018	738.10		40.10	660.25	43.60	663.34
8/8/2018	737.80		40.10	660.25	43.60	663.34
8/15/2018	737.70		40.10	660.25	43.60	663.34
8/22/2018	737.90		40.10	660.25	43.60	663.34
8/29/2018	737.90	0.00	40.10	660.25	43.60	663.34
9/5/2018	738.00		40.10	660.25	43.60	663.34
9/12/2018	737.90		40.10	660.25	43.60	663.34
9/19/2018	737.60		40.10	660.25	43.60	663.34
9/26/2018	737.30	0.00	40.10	660.25	43.60	663.34
10/3/2018	737.50		40.10	660.25	43.60	663.34
10/10/2018	737.70		40.10	660.25	43.60	663.34
10/17/2018	738.20		40.10	660.25	43.60	663.34
10/24/2018	738.60		40.10	660.25	43.60	663.34
10/30/2018	738.50	0.69	40.10	660.25	43.60	663.34
11/7/2018	738.40		40.10	660.25	43.60	663.34
11/16/2018	737.70		40.10	660.25	43.60	663.34
11/21/2018	737.50		40.10	660.25	43.60	663.34
11/28/2018	737.20	1.66	40.10	660.25	43.60	663.34

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
12/5/2018	737.60		40.10	660.25	43.60	663.34
12/12/2018	737.70		40.10	660.25	43.60	663.34
12/19/2018	737.60		40.10	660.25	43.60	663.34
12/27/2018	737.40	2.05	40.10	660.25	43.60	663.34
1/2/2019	737.10		40.10	660.25	43.60	663.34
1/9/2019	738.40		40.10	660.25	43.60	663.34
1/16/2019	738.50		40.10	660.25	43.60	663.34
1/23/2019	740.80		40.10	660.25	43.60	663.34
1/30/2019	740.70	5.18	40.10	660.25	43.60	663.34
2/6/2019	745.80		40.10	660.25	43.60	663.34
2/13/2019	747.80		40.10	660.25	43.60	663.34
2/20/2019	764.70		40.10	660.25	43.60	663.34
2/27/2019	766.80	8.65	40.10	660.25	42.00	664.94
3/6/2019	769.50		40.10	660.25	42.00	664.94
3/13/2019	772.00		40.10	660.25	42.00	664.94
3/20/2019	773.30		40.10	660.25	42.00	664.94
3/27/2019	774.30	2.49	40.10	660.25	42.00	664.94
4/3/2019	774.50		40.10	660.25	42.20	664.74
4/10/2019	774.70		40.10	660.25	42.20	664.74
1/17/2019	774.80		40.10	660.25	42.20	664.74
4/24/2019	774.90	0.10	40.10	660.25	42.20	664.74
5/1/2019	774.90		40.10	660.25	43.60	663.34
5/8/2019	774.90		40.10	660.25	43.60	663.34
5/15/2019	774.60		40.10	660.25	43.60	663.34
5/22/2019	773.90		40.10	660.25	43.60	663.34
5/29/2019	773.10	1.07	40.10	660.25	43.60	663.34
6/5/2019	772.10		40.10	660.25	43.60	663.34

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
6/12/2019	770.80		40.10	660.25	43.60	663.34
6/19/2019	769.50		40.10	660.25	43.60	663.34
6/26/2019	768.10	0.03	40.10	660.25	43.60	663.34
7/3/2019	766.70		40.10	660.25	43.60	663.34
7/5/2019	766.20		40.10	660.25	43.60	663.34
7/10/2019	765.10		40.10	660.25	43.60	663.34
7/17/2019	763.40		40.10	660.25	43.60	663.34
7/24/2019	761.70		40.10	660.25	43.60	663.34
7/30/2019	760.50	0.00	40.10	660.25	43.60	663.34
8/7/2019	759.60		40.10	660.25	43.60	663.34
8/14/2019	758.80		40.10	660.25	43.60	663.34
8/21/2019	757.80		40.10	660.25	43.60	663.34
8/28/2019	757.20	0.00	40.10	660.25	43.60	663.34
9/4/2019	756.70		40.10	660.25	43.60	663.34
9/11/2019	756.30		40.10	660.25	43.60	663.34
9/18/2019	755.90		40.10	660.25	43.60	663.34
9/25/2019	755.20	0.00	40.10	660.25	43.60	663.34
10/2/2019	754.60		40.10	660.25	43.60	663.34
10/10/2019	754.30		40.10	660.25	43.60	663.34
10/16/2019	753.90		40.10	660.25	43.60	663.34
10/26/2019	752.70		40.10	660.25	43.60	663.34
10/30/2019	752.30	0.00	40.10	660.25	43.60	663.34
11/6/2019	751.70		40.10	660.25	43.60	663.34
11/13/2019	751.30		40.10	660.25	43.60	663.34
11/20/2019	751.20		40.10	660.25	43.60	663.34
11/27/2019	751.10	2.38	40.10	660.25	43.60	663.34

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
12/4/2019	751.20		40.10	660.25	43.60	663.34
12/11/2019	751.40		40.10	660.25	43.60	663.34
12/18/2019	751.30		40.10	660.25	43.60	663.34
12/26/2019	751.60	4.61	40.10	660.25	43.60	663.34
1/2/2020	751.80		40.10	660.25	43.60	663.34
1/8/2020	751.90		40.10	660.25	43.60	663.34
1/15/2020	751.90		40.10	660.25	43.60	663.34
1/22/2020	751.90		40.10	660.25	43.60	663.34
1/29/2020	752.00	0.15	40.10	660.25	43.60	663.34
2/5/2020	751.90		40.10	660.25	43.60	663.34
2/12/2020	751.90		40.10	660.25	43.60	663.34
2/19/2020	751.90		40.10	660.25	43.60	663.34
2/26/2020	751.90	0.53	40.10	660.25	43.60	663.34
3/4/2020	751.80		40.10	660.25	43.60	663.34
3/11/2020	751.80		40.10	660.25	43.60	663.34
3/18/2020	752.10		40.10	660.25	43.60	663.34
3/25/2020	753.30	4.31	40.10	660.25	43.60	663.34
4/1/2020	753.60		40.10	660.25	43.60	663.34
4/8/2020	755.80		40.10	660.25	43.60	663.34
4/15/2020	760.50		40.10	660.25	43.60	663.34
4/22/2020	761.50		40.10	660.25	43.60	663.34
4/29/2020	761.90	3.88	40.10	660.25	43.60	663.34
5/6/2020	761.20		40.10	660.25	43.60	663.34
5/13/2020	762.10		40.10	660.25	43.60	663.34
5/20/2020	762.20		40.10	660.25	43.60	663.34
5/27/2020	762.10	0.03	40.10	660.25	43.60	663.34
6/3/2020	761.90		40.10	660.25	43.60	663.34

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
6/10/2020	761.80		40.10	660.25	43.60	663.34
6/19/2020	760.10		40.10	660.25	43.60	663.34
6/24/2020	759.00	0.00	40.10	660.25	43.60	663.34
7/1/2020	757.30		40.10	660.25	42.60	664.34
7/8/2020	755.80		40.10	660.25	42.60	664.34
7/15/2020	754.40		40.10	660.25	42.60	664.34
7/22/2020	752.90		40.10	660.25	42.60	664.34
7/29/2020	751.40	0.00	40.10	660.25	42.60	664.34
8/5/2020	749.90		40.10	660.25	42.60	664.34
8/12/2020	749.60		40.10	660.25	42.60	664.34
8/19/2020	749.10		40.10	660.25	42.60	664.34
8/26/2020	747.90	0.00	40.10	660.25	42.60	664.34
9/2/2020	746.40		40.10	660.25	42.60	664.34
9/9/2020	745.70		40.10	660.25	42.60	664.34
9/16/2020	745.20		40.10	660.25	42.60	664.34
9/19/2020	747.80		40.10	660.25	42.60	664.34
9/23/2020	749.40		40.10	660.25	42.60	664.34
9/30/2020	743.50	0.00	40.10	660.25	42.60	664.34
10/7/2020	742.70		40.10	660.25	42.60	664.34
10/14/2020	741.60		40.10	660.25	42.60	664.34
10/21/2020	740.30		40.10	660.25	42.60	664.34
10/28/2020	739.90	0.00	40.10	660.25	42.60	664.34
11/4/2020	739.40		40.10	660.25	42.60	664.34
11/10/2020	739.20		40.10	660.25	42.60	664.34
11/18/2020	739.00		40.10	660.25	42.60	664.34
11/25/2020	738.80	0.54	40.10	660.25	42.60	664.34
12/2/2020	738.50		40.10	660.25	42.60	664.34

Notes:

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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
12/9/2020	738.20		40.10	660.25	42.60	664.34
12/16/2020	738.00		40.10	660.25	42.60	664.34
12/23/2020	738.20	1.72	40.10	660.25	42.60	664.34
1/6/2021	742.10		40.10	660.25	42.60	664.34
1/13/2021	742.10		40.10	660.25	42.60	664.34
1/20/2021	741.80		40.10	660.25	42.60	664.34
1/27/2021	741.70	1.36	40.10	660.25	42.60	664.34
2/3/2021	741.80		40.10	660.25	42.60	664.34
2/10/2021	741.60		40.10	660.25	42.60	664.34
2/17/2021	741.40		40.10	660.25	42.60	664.34
2/24/2021	741.00	0.14	40.10	660.25	42.60	664.34
3/3/2021	740.80		40.10	660.25	42.60	664.34
3/10/2021	740.60		40.10	660.25	42.60	664.34
3/17/2021	741.00		40.10	660.25	42.60	664.34
3/24/2021	740.90		40.10	660.25	42.60	664.34
3/31/2021	740.60	1.53	40.10	660.25	42.60	664.34
4/7/2021	740.80		40.10	660.25	42.60	664.34
4/14/2021	740.70		40.10	660.25	42.60	664.34
4/21/2021	741.30		40.10	660.25	42.60	664.34
4/28/2021	742.00	0.00	40.10	660.25	42.60	664.34
5/5/2021	741.90		40.10	660.25	42.60	664.34
5/15/2021	740.80		40.10	660.25	42.60	664.34
5/19/2021	740.40		40.10	660.25	42.60	664.34
5/26/2021	740.10	0.05	40.10	660.25	42.60	664.34
6/2/2021	739.60		40.10	660.25	42.60	664.34
6/9/2021	738.30		40.10	660.25	42.60	664.34
6/16/2021	737.20		40.10	660.25	42.60	664.34
6/23/2021	736.00		40.10	660.25	42.60	664.34

Notes:

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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER READINGS
JANUARY 2007 THROUGH DECEMBER 2021

Piezometer Number			No. 4		No. 5	
Top Ref. Elev. (ft)			698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			700.345		706.935	
Tip Elev. (ft)			654.000		655.500	
Total Depth (ft)			44.0		48.0	
Total Depth (ft) After 5/21/2012			46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.4		NO.5	
6/30/2021	736.40	0.00	40.10	660.25	42.60	664.34
7/7/2021	737.00		40.10	660.25	42.60	664.34
7/14/2021	737.40		40.10	660.25	42.60	664.34
7/21/2021	737.80		40.10	660.25	42.60	664.34
7/28/2021	736.40	0.05	40.10	660.25	42.60	664.34
8/4/2021	736.30		40.10	660.25	42.60	664.34
8/11/2021	735.90		40.10	660.25	42.60	664.34
8/18/2021	735.90		40.10	660.25	42.60	664.34
8/25/2021	735.70	0.00	40.10	660.25	42.60	664.34
9/1/2021	735.60		40.10	660.25	42.60	664.34
9/8/2021	736.00		40.10	660.25	42.60	664.34
9/15/2021	737.00		40.10	660.25	42.60	664.34
9/22/2021	737.50		40.10	660.25	42.60	664.34
9/29/2021	738.00	0.00	40.10	660.25	42.60	664.34
10/6/2021	738.20		40.10	660.25	42.60	664.34
10/13/2021	738.70		40.10	660.25	42.60	664.34
10/22/2021	738.80		40.10	660.25	42.60	664.34
10/27/2021	739.00	0.46	40.10	660.25	42.60	664.34
11/3/2021	739.60		40.10	660.25	42.60	664.34
11/10/2021	740.20		40.10	660.25	42.60	664.34
11/17/2021	740.20		40.10	660.25	42.60	664.34
11/24/2021	739.90	0.00	40.10	660.25	42.60	664.34
12/1/2021	739.50		40.10	660.25	42.60	664.34
12/8/2021	739.40		40.10	660.25	42.60	664.34
12/15/2021	740.00		40.10	660.25	42.60	664.34
12/22/2021	740.00		40.10	660.25	42.60	664.34
12/29/2021	743.00	7.24	40.10	660.25	42.60	664.34

Notes:

1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 3
SANTIAGO CREEK DAM
ELEVATIONS OF BENCHMARK BM-0 AND
SURVEY MONUMENTS BM-1, BM-2, BM-3, BM-4 AND BM-5
1989 THROUGH 2022

Date	BM-0 (ft)	BM-1 (ft)	BM-2 (ft)	BM-3 (ft)	BM-4 (ft)	BM-5 (ft)
12/21/1989	830.540	811.923	811.768	811.620	815.450	815.610
10/11/1990	830.538	811.923	811.748	811.613	815.455	815.620
7/26/1991	830.535	811.918	811.743	811.613	815.458	815.625
12/20/1991	830.540	811.918	811.745	811.615	815.450	815.620
8/4/1992	830.535	811.913	811.750	811.613	815.440	815.610
1/14/1993	830.545	811.913	811.747	811.623	815.445	815.620
9/15/1993	830.535	811.888	811.728	811.600	815.420	815.600
1/7/1994	830.540	811.890	811.730	811.600	815.418	815.600
7/28/1994	830.538	811.893	811.730	811.600	815.415	815.595
2/6/1995	830.543	811.898	811.730	811.600	815.408	815.590
6/26/1996	830.538	811.893	811.733	811.600	815.405	815.595
1/24/1997	830.543	811.905	811.750	811.615	815.403	815.595
1/24/1997	830.543	811.905	811.750	811.615	815.403	815.595
1/16/1998	830.540	811.900	811.748	811.610	815.405	815.600
1/20/1999	830.540	811.890	811.738	811.608	815.395	815.600
3/14/2000	830.540	811.897	811.740	811.610	815.395	815.600
1/31/2002	830.540	811.900	811.745	811.610	815.395	815.605
8/27/2003	830.540	811.890	811.730	811.590	815.400	815.605
8/2/2004	830.540	811.900	811.750	811.605	815.405	815.610
2/7/2005	830.540	811.900	811.745	811.615	815.410	815.620
3/1/2006	830.540	811.900	811.745	811.610	815.400	815.615
1/9/2007	830.540	811.900	811.750	811.610	815.395	815.610
6/5/2008	830.540	811.900	811.745	811.610	815.390	815.610
6/15/2009	830.540	811.905	811.750	811.620	815.400	815.630
5/20/2010	830.540	811.885	811.730	811.600	815.390	815.610
5/12/2011	830.540	811.895	811.740	811.610	815.400	815.625
5/21/2012	830.540	811.900	811.740	811.615	815.400	815.630
6/12/2013	830.540	811.895	811.740	811.600	815.390	815.620
4/22/2014	830.540	811.895	811.740	811.600	815.385	815.615
6/5/2015	830.540	811.900	811.740	811.600	815.380	815.610
7/26/2016	830.540	811.905	811.745	811.605	815.390	815.620
1/1/2017						
1/1/2018	830.54	811.91	811.755	811.62	815.4	815.63
6/5/2019	830.540	811.900	811.740	811.595	815.380	815.615
12/8/2020	830.540	811.907	811.747	811.608	815.383	815.616
5/12/2022	830.540	811.909	811.75	811.6	815.386	815.62

Note:

1. Vertical data is referenced in NAVD 88 datum.

TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS, BM-1, BM-2, BM-3, BM-4 AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2022

Date	Horizontal Displacement Measured in Feet and Inches.													
	BM-0		BM-1						BM-2					
	Northing	Easting	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994	4875.1482	4987.4599	5251.5595	0.0000	0.0000	4711.7814	0.0000	0.0000	5544.9316	0.0000	0.0000	4597.1356	0.0000	0.0000
7/28/1994	4875.1390	4987.4510	5251.5558	-0.0037	-0.0444	4711.7914	0.0100	0.1200	5544.9194	-0.0122	-0.1464	4597.1528	0.0172	0.2064
2/6/1995	4875.1388	4987.4534	5251.5540	-0.0055	-0.0660	4711.7765	-0.0049	-0.0588	5544.9218	-0.0098	-0.1176	4597.1224	-0.0132	-0.1584
6/26/1996	4875.1390	4987.4510	5251.5581	-0.0014	-0.0168	4711.7802	-0.0012	-0.0144	5544.9177	-0.0139	-0.1668	4597.1336	-0.0020	-0.0240
1/24/1997	4875.1393	4987.4480	5251.5817	0.0222	0.2664	4711.7476	-0.0338	-0.4056	5544.9240	-0.0076	-0.0912	4597.1085	-0.0271	-0.3252
1/24/1997	4875.1393	4987.4480	5251.5817	0.0222	0.2664	4711.7476	-0.0338	-0.4056	5544.9294	-0.0022	-0.0264	4597.1085	-0.0271	-0.3252
1/16/1998	4875.1339	4987.4523	5251.5756	0.0161	0.1932	4711.7490	-0.0324	-0.3888	5544.9179	-0.0137	-0.1644	4597.1171	-0.0185	-0.2220
1/20/1999	4875.1345	4987.4664	5251.5644	0.0049	0.0588	4711.7618	-0.0196	-0.2352	5544.9046	-0.0270	-0.3240	4597.1310	-0.0046	-0.0552
3/14/2000	4875.1354	4987.4672	5251.5552	-0.0043	-0.0516	4711.7949	0.0135	0.1620	5544.9129	-0.0187	-0.2244	4597.1372	0.0016	0.0192
1/31/2002	4875.1402	4987.4591	5251.5637	0.0042	0.0504	4711.7851	0.0037	0.0444	5544.9277	-0.0039	-0.0468	4597.1303	-0.0053	-0.0636
8/27/2003	4875.1394	4987.4669	5251.5584	-0.0011	-0.0132	4711.8109	0.0295	0.3540	5544.9063	-0.0253	-0.3036	4597.1502	0.0146	0.1752
8/2/2004	4875.1505	4987.4668	5251.5631	0.0036	0.0432	4711.8084	0.0270	0.3240	5544.9111	-0.0205	-0.2460	4597.1466	0.0110	0.1320
2/7/2005	4875.1387	4987.4644	5251.5589	-0.0006	-0.0072	4711.8047	0.0233	0.2796	5544.9131	-0.0185	-0.2220	4597.1493	0.0137	0.1644
3/1/2006	4875.1408	4987.4438	5251.5682	0.0087	0.1044	4711.7969	0.0155	0.1860	5544.9260	-0.0056	-0.0672	4597.1397	0.0041	0.0492
1/9/2007	4875.1424	4987.4575	5251.5562	-0.0033	-0.0396	4711.8050	0.0236	0.2832	5544.9198	-0.0118	-0.1416	4597.1566	0.0210	0.2520
6/5/2008	4875.1551	4987.4612	5251.5571	-0.0024	-0.0288	4711.8124	0.0310	0.3720	5544.9157	-0.0159	-0.1908	4597.1596	0.0240	0.2880
6/15/2009	4875.1524	4987.4579	5251.5663	0.0068	0.0816	4711.8019	0.0205	0.2460	5544.9262	-0.0054	-0.0648	4597.1518	0.0162	0.1944
5/20/2010	4875.1519	4987.4627	5251.5630	0.0035	0.0420	4711.8057	0.0243	0.2916	5544.9190	-0.0126	-0.1512	4597.1572	0.0216	0.2592
5/12/2011	4875.1504	4987.4583	5251.5628	0.0033	0.0396	4711.8002	0.0188	0.2256	5544.9210	-0.0106	-0.1272	4597.1516	0.0160	0.1920
5/21/2012	4875.1476	4987.4561	5251.5614	0.0019	0.0228	4711.7990	0.0176	0.2112	5544.9194	-0.0122	-0.1464	4597.1528	0.0172	0.2064
6/12/2013	4875.1484	4987.4575	5251.5621	0.0026	0.0312	4711.7982	0.0168	0.2016	5544.9214	-0.0102	-0.1224	4597.1554	0.0198	0.2376
4/22/2014	4875.1527	7987.4554	5251.5636	0.0041	0.0492	4711.8022	0.0208	0.2496	5544.9230	-0.0086	-0.1032	4597.1542	0.0186	0.2232
6/5/2015	4875.1513	4987.4590	5251.5720	0.0125	0.1500	4711.8095	0.0281	0.3372	5544.9284	-0.0032	-0.0384	4597.1666	0.0310	0.3720
7/26/2016	4875.1543	4987.4587	5251.5631	0.0036	0.0432	4711.8084	0.0270	0.3240	5544.9185	-0.0131	-0.1572	4597.1616	0.0260	0.3120
1/1/2017														
1/1/2018	4875.1642	4987.4505	5251.5627	0.0032	0.0384	4711.8173	0.0359	0.4308	5544.9252	-0.0064	-0.0768	4597.1689	0.0333	0.3996
6/5/2019	4875.1455	4987.4468	5251.5654	0.0059	0.0708	4711.7945	0.0131	0.1572	5544.9329	0.0013	0.0156	4597.1592	0.0236	0.2832
12/8/2020	4875.1562	4987.4588	5251.5627	0.0032	0.0384	4711.8173	0.0359	0.4308	5544.9177	-0.0139	-0.1668	4597.1725	0.0369	0.4433
5/12/2022	4875.1552	4987.4568	5251.5622	0.0027	0.0320	4711.8161	0.0347	0.4165	5544.9206	-0.0110	-0.1320	4597.1666	0.0310	0.3715

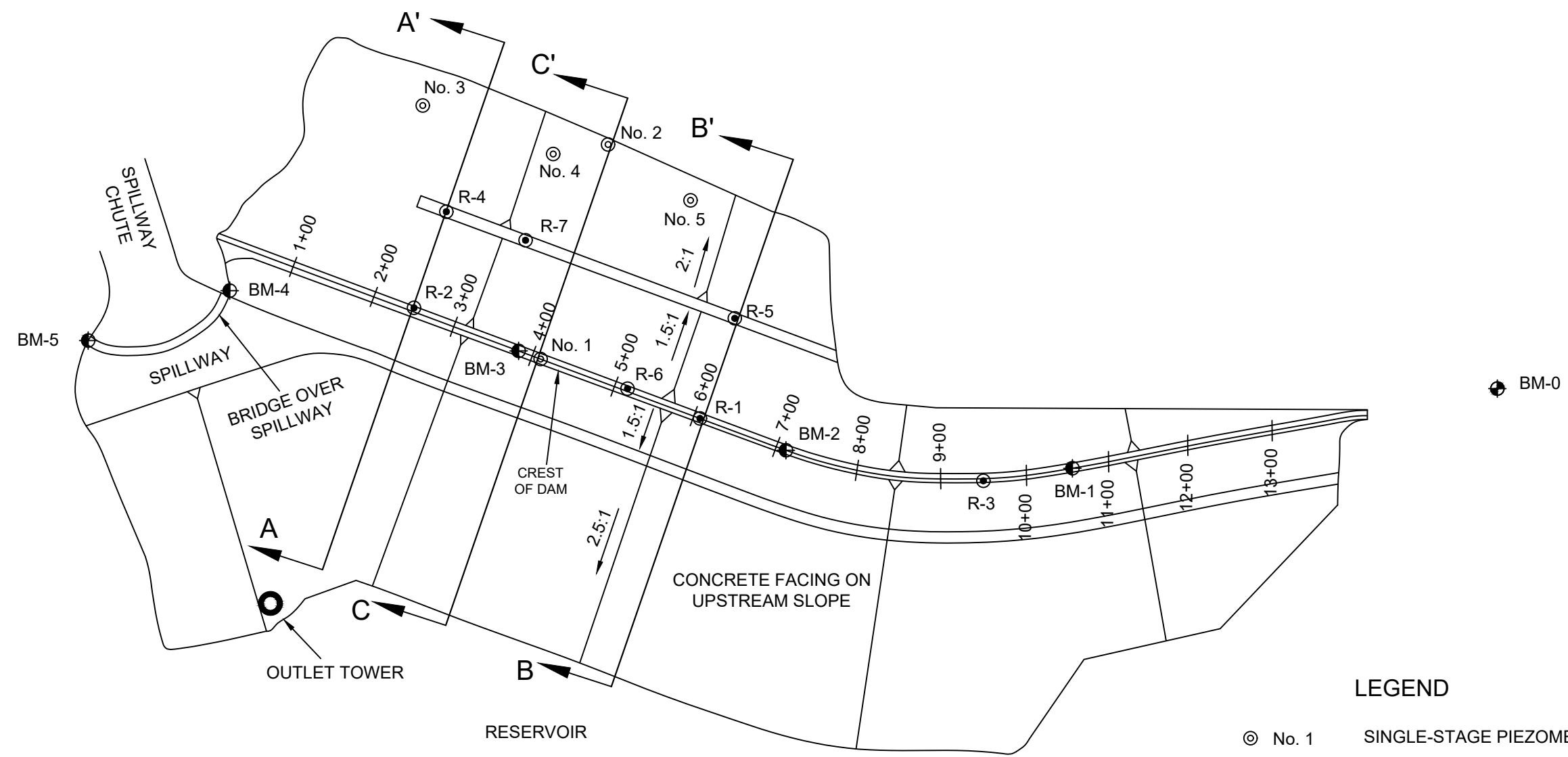
TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS, BM-1, BM-2, BM-3, BM-4 AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2022

Date	Horizontal Displacement Measured in Feet and Inches.											
	BM-3						BM-4					
	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches	Northng	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994	5892.2253	0.0000	0.0000	4555.7198	0.0000	0.0000	6204.5658	0.0000	0.0000	4455.1964	0.0000	0.0000
7/28/1994	5892.2209	-0.0044	-0.0528	4555.7112	-0.0086	-0.1032	6204.5514	-0.0144	-0.1728	4455.1889	-0.0075	-0.0900
2/6/1995	5892.2256	0.0003	0.0036	4555.6981	-0.0217	-0.2604	6204.5291	-0.0367	-0.4404	4455.1638	-0.0326	-0.3912
6/26/1996	5892.2141	-0.0112	-0.1344	4555.7200	0.0002	0.0024	6204.5174	-0.0484	-0.5808	4455.1621	-0.0343	-0.4116
1/24/1997	5892.2387	0.0134	0.1608	4555.7132	-0.0066	-0.0792	6204.5356	-0.0302	-0.3624	4455.1538	-0.0426	-0.5112
1/24/1997	5892.2387	0.0134	0.1608	4555.7132	-0.0066	-0.0792	6204.5356	-0.0302	-0.3624	4455.1538	-0.0426	-0.5112
1/16/1998	5892.2410	0.0157	0.1884	4555.7066	-0.0132	-0.1584	6204.5212	-0.0446	-0.5352	4455.1463	-0.0501	-0.6012
1/20/1999	5892.2111	-0.0142	-0.1704	4555.7161	-0.0037	-0.0444	6204.5203	-0.0455	-0.5460	4455.1467	-0.0497	-0.5964
3/14/2000	5892.2303	0.0050	0.0600	4555.7389	0.0191	0.2292	6204.5075	-0.0583	-0.6996	4455.1524	-0.0440	-0.5280
1/31/2002	5892.2329	0.0076	0.0912	4555.7106	-0.0092	-0.1104	6204.5311	-0.0347	-0.4164	4455.1488	-0.0476	-0.5712
8/27/2003	5892.2102	-0.0151	-0.1812	4555.7435	0.0237	0.2844	6204.5134	-0.0524	-0.6288	4455.1849	-0.0115	-0.1380
8/2/2004	5892.2122	-0.0131	-0.1572	4555.7318	0.0120	0.1440	6204.5130	-0.0528	-0.6336	4455.1816	-0.0148	-0.1776
2/7/2005	5892.2154	-0.0099	-0.1188	4555.7248	0.0050	0.0600	6204.5365	-0.0293	-0.3516	4455.1534	-0.0430	-0.5160
3/1/2006	5892.2254	0.0001	0.0012	4555.7090	-0.0108	-0.1296	6204.5365	-0.0293	-0.3516	4455.1534	-0.0430	-0.5160
1/9/2007	5892.2124	-0.0129	-0.1548	4555.7209	0.0011	0.0132	6204.5121	-0.0537	-0.6444	4455.1504	-0.0460	-0.5520
6/5/2008	5892.2125	-0.0128	-0.1536	4555.7356	0.0158	0.1896	6204.5228	-0.0430	-0.5160	4455.1596	-0.0368	-0.4416
6/15/2009	5892.2202	-0.0051	-0.0612	4555.7277	0.0079	0.0948	6204.5290	-0.0368	-0.4416	4455.1709	-0.0255	-0.3060
5/20/2010	5892.2201	-0.0052	-0.0624	4555.7386	0.0188	0.2256	6204.5391	-0.0267	-0.3204	4455.1593	-0.0371	-0.4452
5/12/2011	5892.2240	-0.0013	-0.0156	4555.7421	0.0223	0.2676	6204.5347	-0.0311	-0.3732	4455.1542	-0.0422	-0.5064
5/21/2012	5892.2197	-0.0056	-0.0672	4555.7334	0.0136	0.1632	6204.5292	-0.0366	-0.4392	4455.1567	-0.0397	-0.4764
6/12/2013	5892.2255	0.0002	0.0024	4555.7359	0.0161	0.1932	6204.5183	-0.0475	-0.5700	4455.1617	-0.0347	-0.4164
4/22/2014	5892.2344	0.0091	0.1092	4555.7315	0.0117	0.1404	6204.5274	-0.0384	-0.4608	4455.1575	-0.0389	-0.4668
6/5/2015	5892.2373	0.0120	0.1440	4555.7462	0.0264	0.3168	6204.5346	-0.0312	-0.3744	4455.1613	-0.0351	-0.4212
7/26/2016	5892.2263	0.0010	0.0120	4555.7355	0.0157	0.1884	6204.5103	-0.0555	-0.6660	4455.1512	-0.0452	-0.5424
1/1/2017												
1/1/2018	5892.2294	0.0041	0.0492	4555.7394	0.0196	0.2352	6204.5111	-0.0548	-0.6576	4455.165	-0.0314	-0.3768
6/5/2019	5892.2437	0.0184	0.2208	4555.7322	0.0124	0.1488	6204.5309	-0.0349	-0.4188	4455.1630	-0.0334	-0.4008
12/8/2020	5892.2242	-0.0011	-0.0133	4555.7554	0.0356	0.4272	6204.5293	-0.0365	-0.4375	4455.1854	-0.0110	-0.1324
5/12/2022	5892.2295	0.0042	0.0503	4555.7390	0.0192	0.2305	6204.5316	-0.0342	-0.4102	4455.1703	-0.0261	-0.3130

TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS, BM-1, BM-2, BM-3, BM-4 AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2022

Date	Horizontal Displacement Measured in Feet and Inches.					
	BM-5					
	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994	6327.7984	0.0000	0.0000	4332.9289	0.0000	0.0000
7/28/1994	6327.7932	-0.0052	-0.0624	4332.9073	-0.0216	-0.2592
2/6/1995	6327.7972	-0.0012	-0.0144	4332.9375	0.0086	0.1032
6/26/1996	6327.8029	0.0045	0.0540	4332.9266	-0.0023	-0.0276
1/24/1997	6327.8061	0.0077	0.0924	4332.9330	0.0041	0.0492
1/24/1997	6327.8061	0.0077	0.0924	4332.9330	0.0041	0.0492
1/16/1998	6327.7838	-0.0146	-0.1752	4332.9443	0.0154	0.1848
1/20/1999	6327.7642	-0.0342	-0.4104	4332.8896	-0.0393	-0.4716
3/14/2000	6327.7638	-0.0346	-0.4152	4332.8979	-0.0310	-0.3720
1/31/2002	6327.7805	-0.0179	-0.2148	4332.9378	0.0089	0.1068
8/27/2003	6327.7616	-0.0368	-0.4416	4332.9312	0.0023	0.0276
8/2/2004	6327.7582	-0.0402	-0.4824	4332.9289	0.0000	0.0000
2/7/2005	6327.7694	-0.0290	-0.3480	4332.9112	-0.0177	-0.2124
3/1/2006	6327.7579	-0.0405	-0.4860	4332.8928	-0.0361	-0.4332
1/9/2007	6327.7420	-0.0564	-0.6768	4332.9169	-0.0120	-0.1440
6/5/2008	6327.7445	-0.0539	-0.6468	4332.8995	-0.0294	-0.3528
6/15/2009	6327.7592	-0.0392	-0.4704	4332.9244	-0.0045	-0.0540
5/20/2010	6327.7667	-0.0317	-0.3804	4332.9125	-0.0164	-0.1968
5/12/2011	6327.7631	-0.0353	-0.4236	4332.9143	-0.0146	-0.1752
5/21/2012	6327.7599	-0.0385	-0.4620	4332.9079	-0.0210	-0.2520
6/12/2013	6327.7438	-0.0546	-0.6552	4332.9160	-0.0129	-0.1548
4/22/2014	6327.7409	-0.0575	-0.6900	4332.9013	-0.0276	-0.3312
6/5/2015	6327.7515	-0.0469	-0.5628	4332.9202	-0.0087	-0.1044
7/26/2016	6327.7394	-0.0590	-0.7080	4332.9182	-0.0107	-0.1284
1/1/2017						
1/1/2018	6327.7209	-0.0775	-0.9300	4332.9194	-0.0095	-0.1140
6/5/2019	6327.7314	-0.0670	-0.8040	4332.8980	-0.0309	-0.3708
12/8/2020	6327.7259	-0.0725	-0.8699	4332.9336	0.0047	0.0562
5/12/2022	6327.7258	-0.0726	-0.8714	4332.9116	-0.0173	-0.2080

Figures




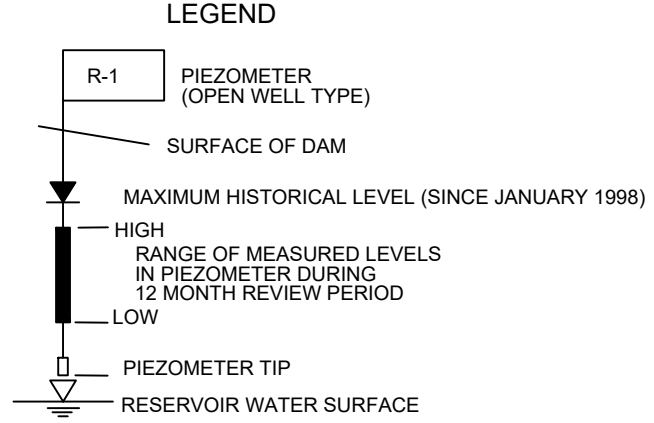
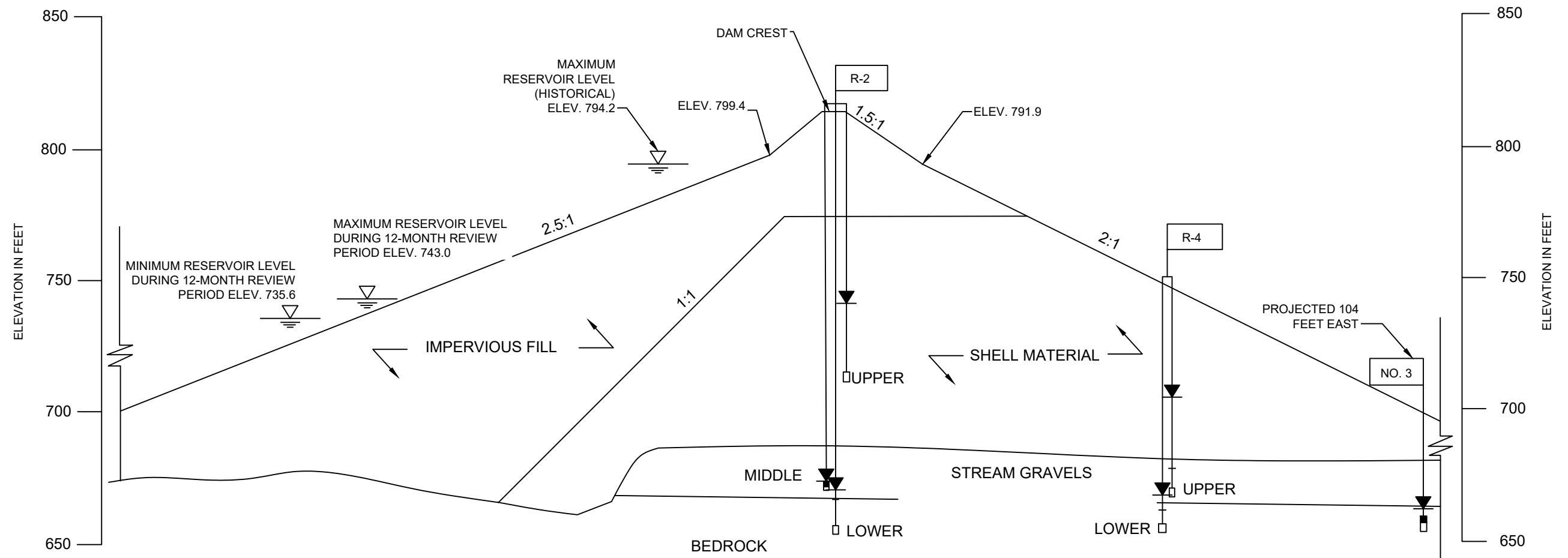
LEGEND

- ⊙ No. 1 SINGLE-STAGE PIEZOMETER
- ⊙ R-2 MULTI-STAGE PIEZOMETER
- ⊕ BM-5 SURVEY MONUMENTS
- ⊕ BM-0 BENCHMARK

NOTE: SECTIONS A-A', B-B' AND C-C' ARE SHOWN ON FIGURES 1B, 1C, AND 1D RESPECTIVELY.

NOT TO SCALE


Annual Surveillance Report from Jan. 2021 to Dec. 2021 Santiago Creek Dam Irvine, CA		SITE AND INSTRUMENTATION PLAN
Irvine Ranch Water District Irvine, CA	Project 1901888	September 2022 Fig. 1A

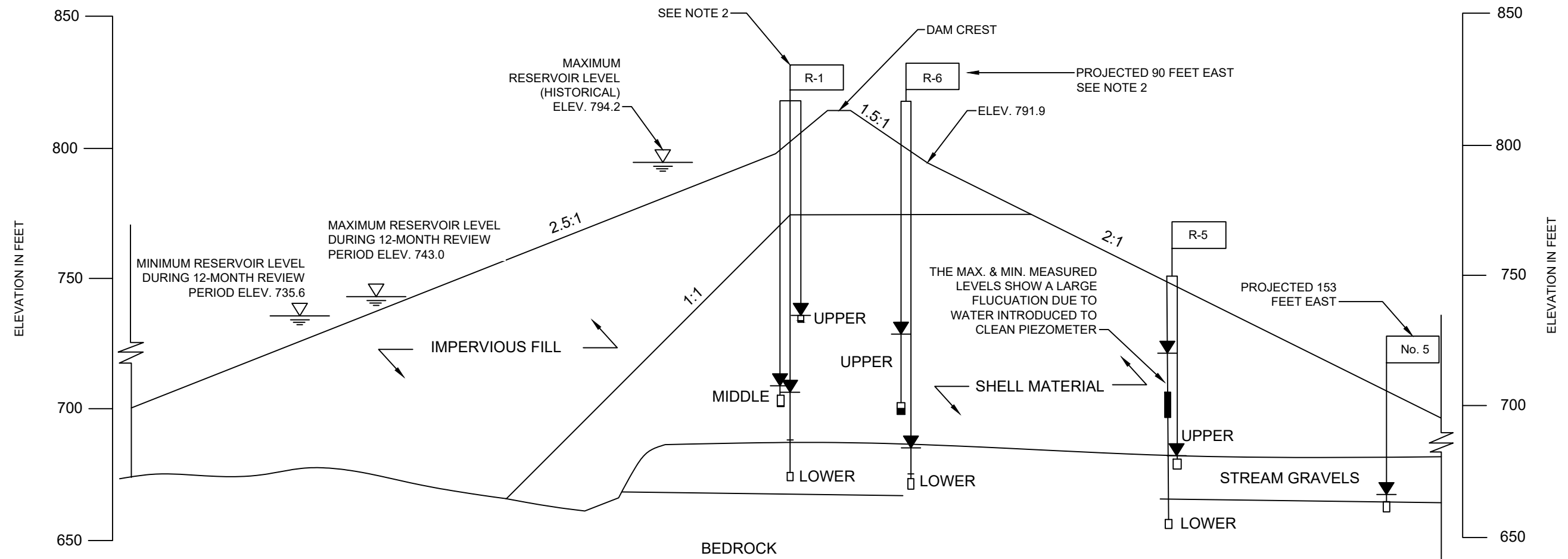


SECTION A-A'
MAXIMUM SECTION
 (APPROX. STA 2+50)

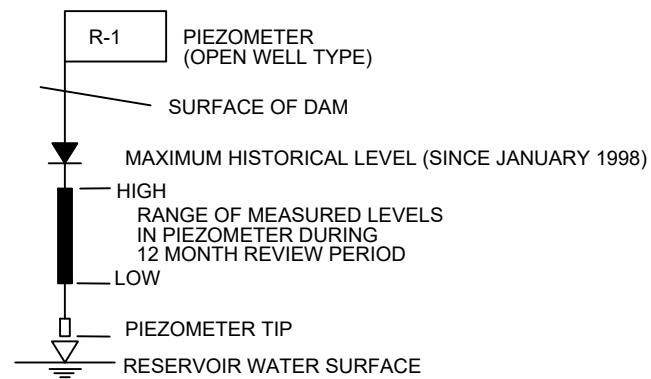
- NOTES:**
- (1) SEE FIGURE 1 FOR LOCATION OF SECTION
 - (2) QUESTIONABLE READINGS ARE NOT SHOWN

NOT TO SCALE

Annual Surveillance Report from Jan. 2021 to Dec. 2021 Santiago Creek Dam Irvine, CA		SECTION A-A'	
Irvine Ranch Water District Irvine, CA		Project 1901888	September 2022



LEGEND




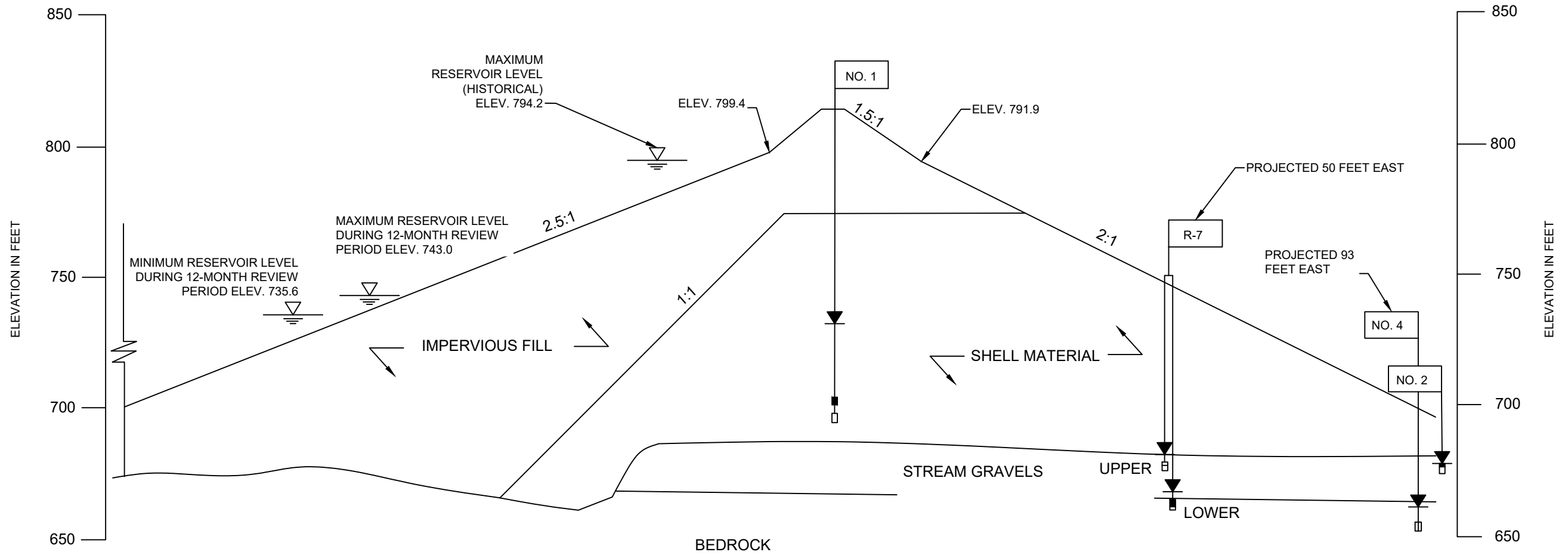
NOTES:

- (1) SEE FIGURE 1A FOR LOCATION OF SECTION
- (2) PIEZOMETERS R-1 AND R-6 ALIGN HORIZONTALLY WITH THE CENTER OF THE DAM CREST AND HAVE BEEN DISPLACED FOR PRESENTATION PURPOSES
- (3) QUESTIONABLE READINGS ARE NOT SHOWN

**SECTION B-B'
(APPROX. STA 6+00)**

NOT TO SCALE

Annual Surveillance Report from Jan. 2021 to Dec. 2021 Santiago Creek Dam Irvine, CA		SECTION B-B'	
Irvine Ranch Water District Irvine, CA		Project 1901888	September 2022



LEGEND

- R-1 PIEZOMETER (OPEN WELL TYPE)
- SURFACE OF DAM
- MAXIMUM HISTORICAL LEVEL (SINCE JANUARY 1998)
- HIGH RANGE OF MEASURED LEVELS IN PIEZOMETER DURING 12 MONTH REVIEW PERIOD
- LOW
- PIEZOMETER TIP

NOTES:

- (1) SEE FIGURE 1A FOR LOCATION OF SECTION
- (2) QUESTIONABLE READINGS ARE NOT SHOWN

**SECTION C-C'
(APPROX. STA 4+00)**

NOT TO SCALE

Annual Surveillance Report from Jan. 2021 to Dec. 2021 Santiago Creek Dam Irvine, CA		SECTION C-C'	
Irvine Ranch Water District Irvine, CA		Project 1901888	September 2022

Figure 2
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS R-1 AND R-5
JANUARY 2020 THROUGH DECEMBER 2021

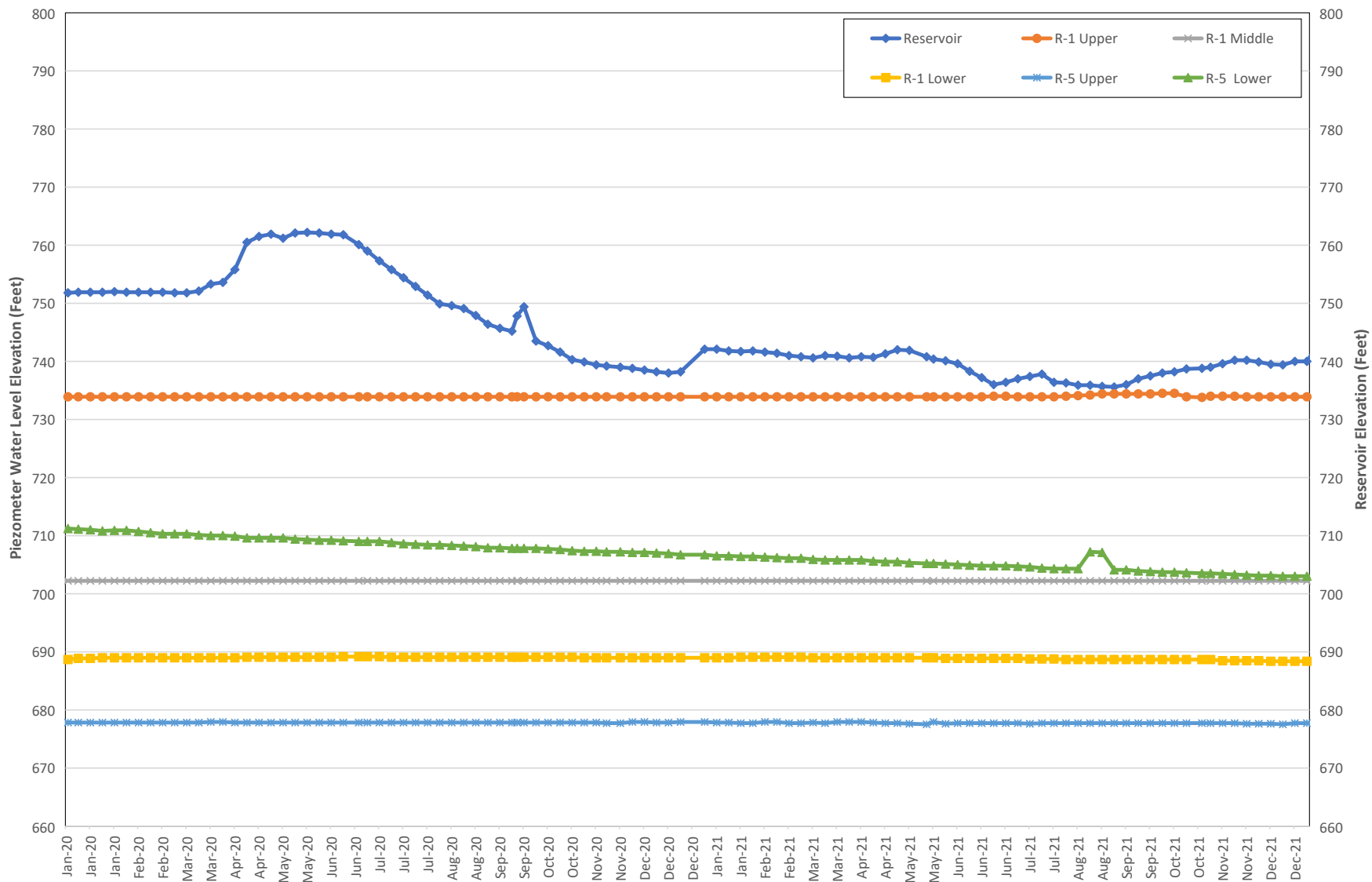


Figure 3
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS R-2 AND R-4
JANUARY 2020 THROUGH DECEMBER 2021

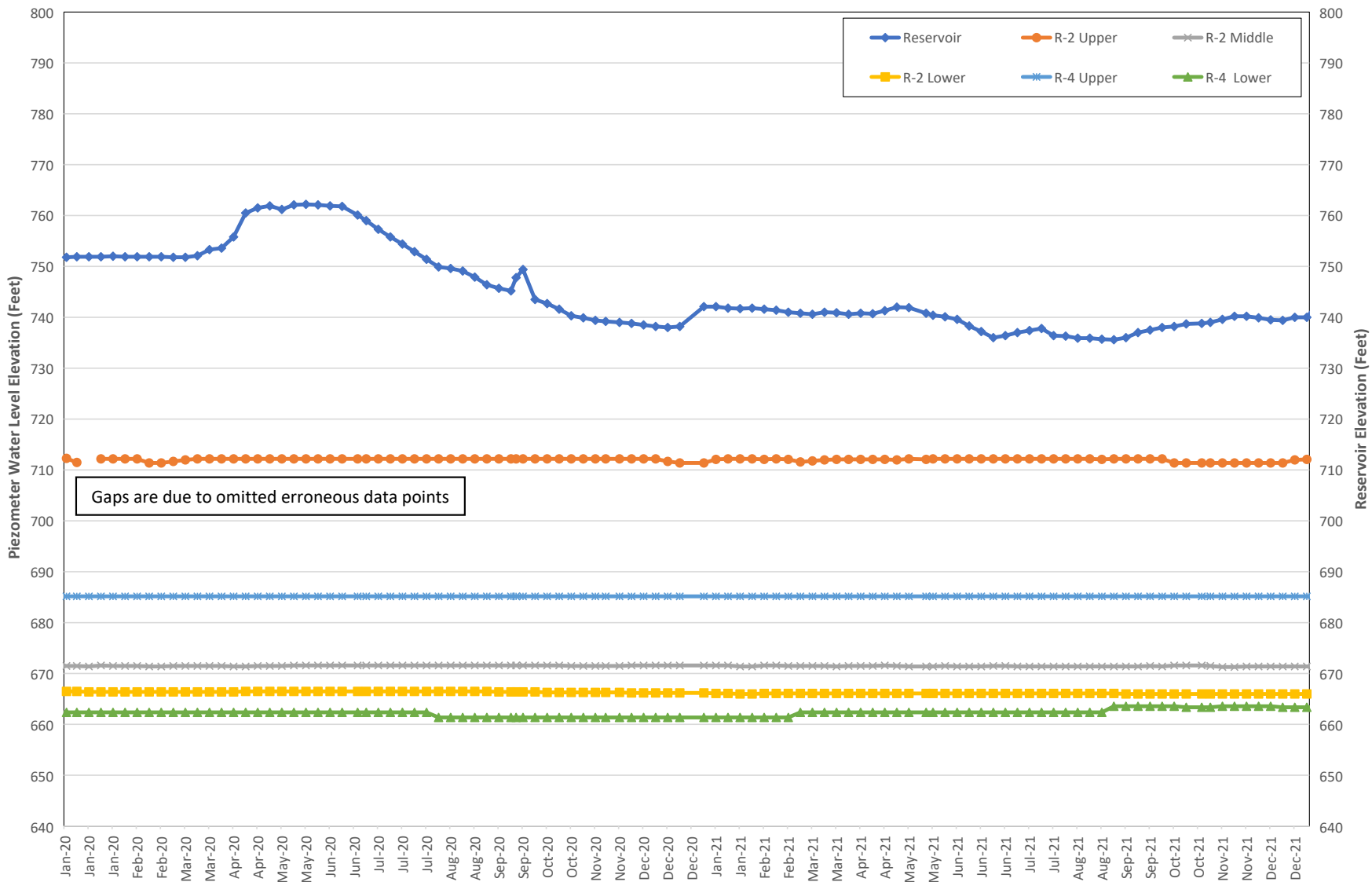


Figure 4
 SANTIAGO CREEK DAM
 2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETER R-3
 JANUARY 2020 THROUGH DECEMBER 2021

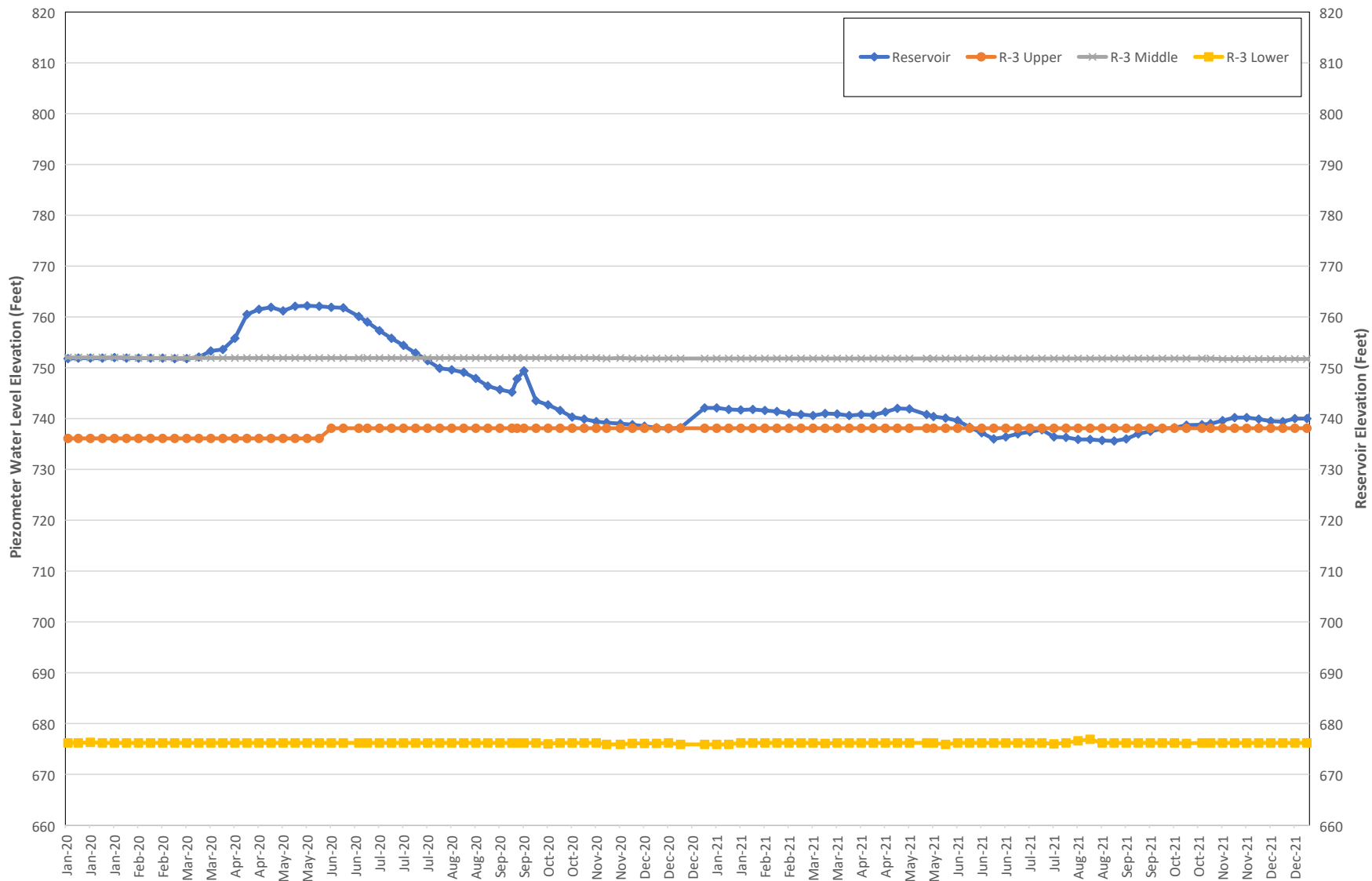


Figure 5
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETER R-6
JANUARY 2020 THROUGH DECEMBER 2021

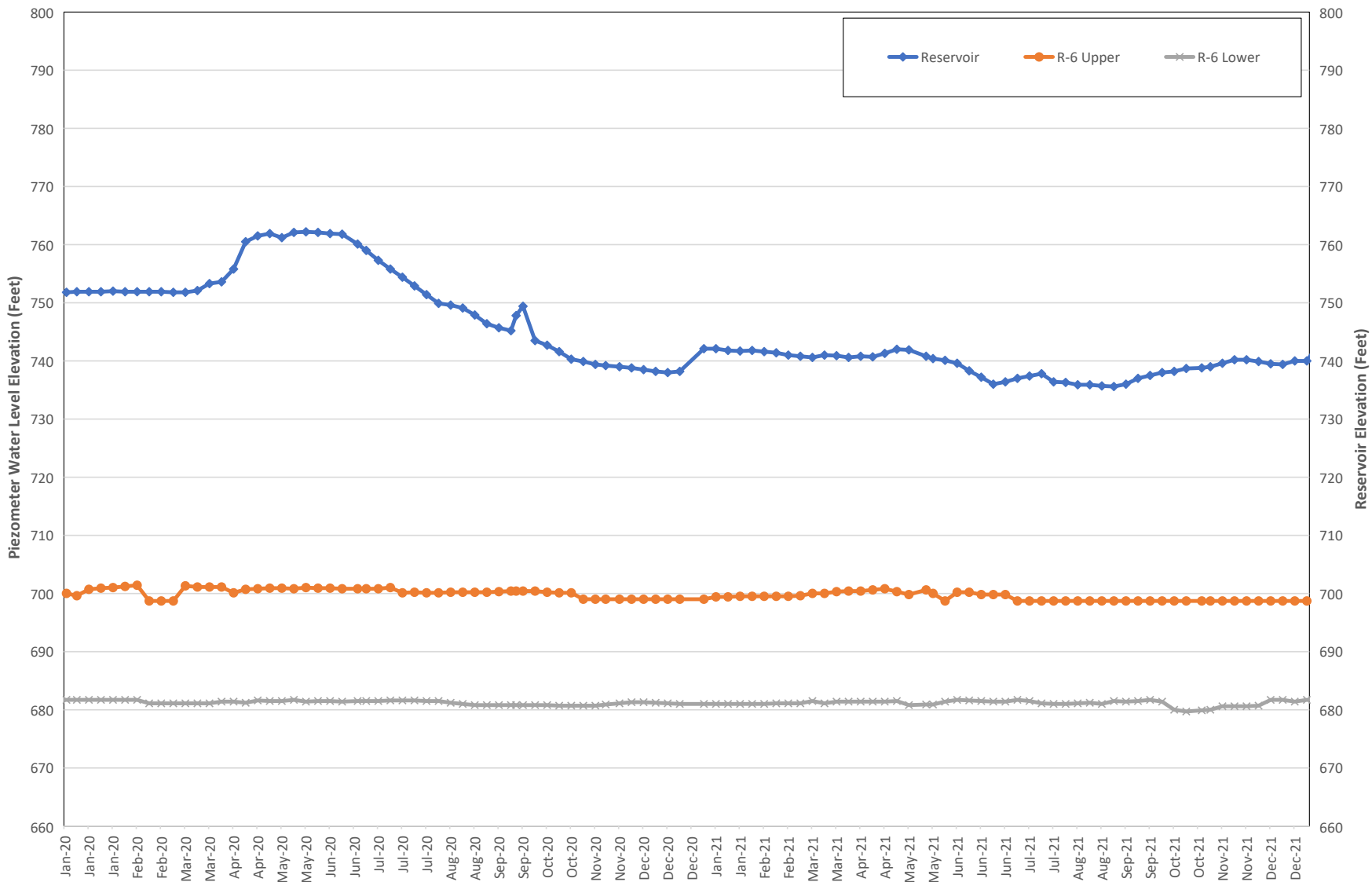


Figure 6
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS No. 1, No. 2, AND R-7
JANUARY 2020 THROUGH DECEMBER 2021

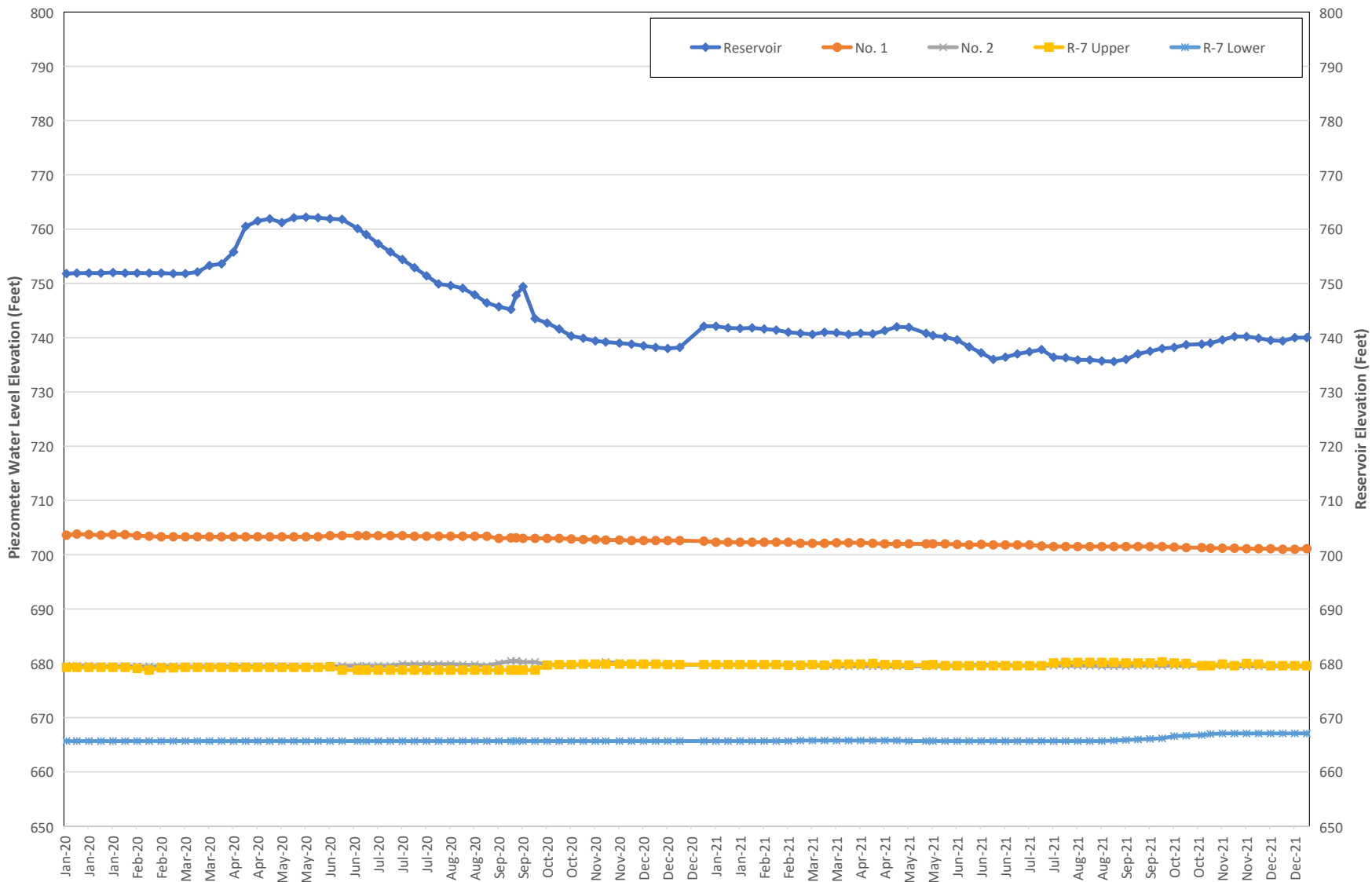


Figure 7
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS No. 3, No. 4, No. 5
JANUARY 2020 THROUGH DECEMBER 2021

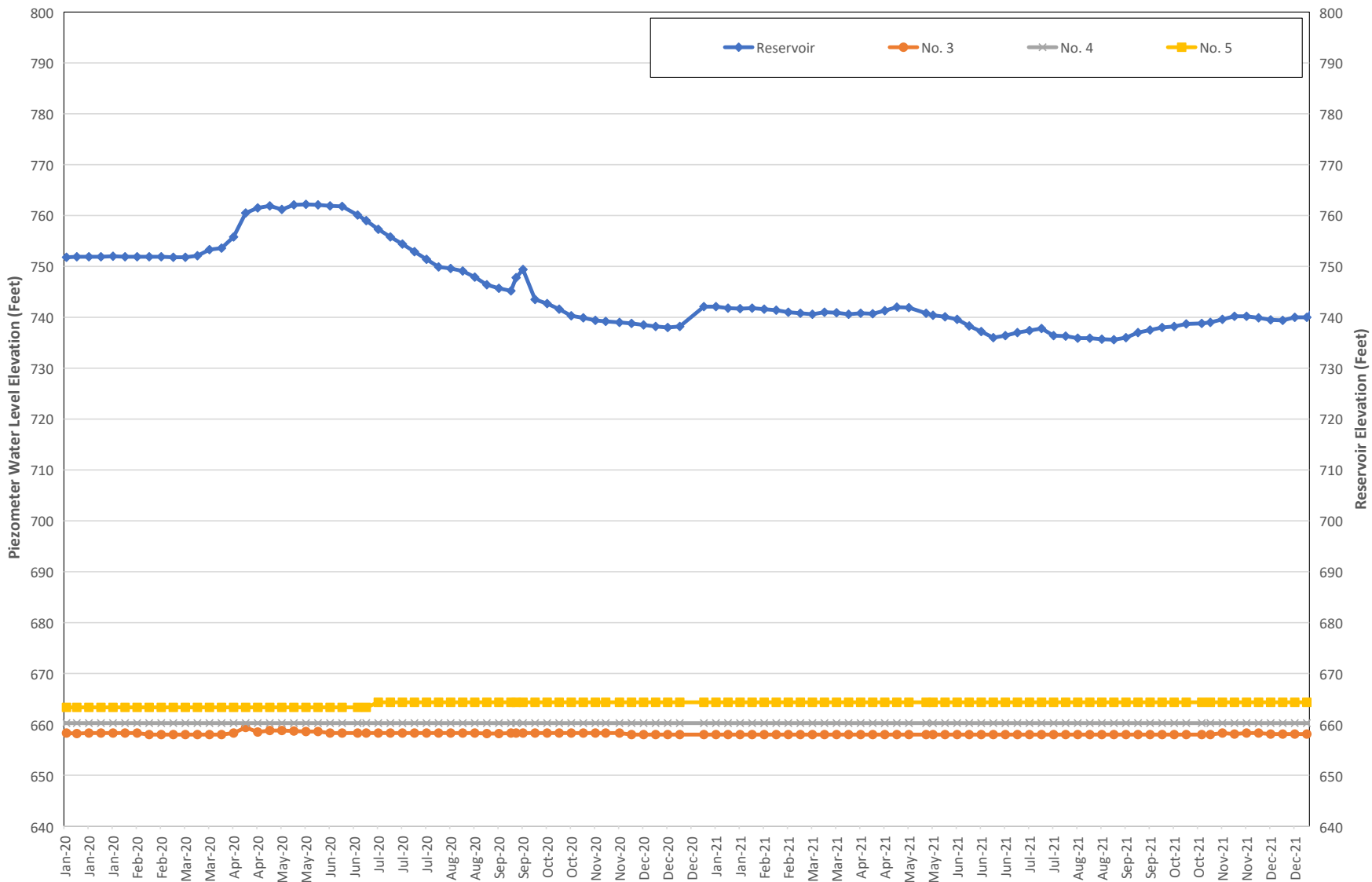


Figure 8
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS R-1 AND R-5
 JANUARY 2011 THROUGH DECEMBER 2021

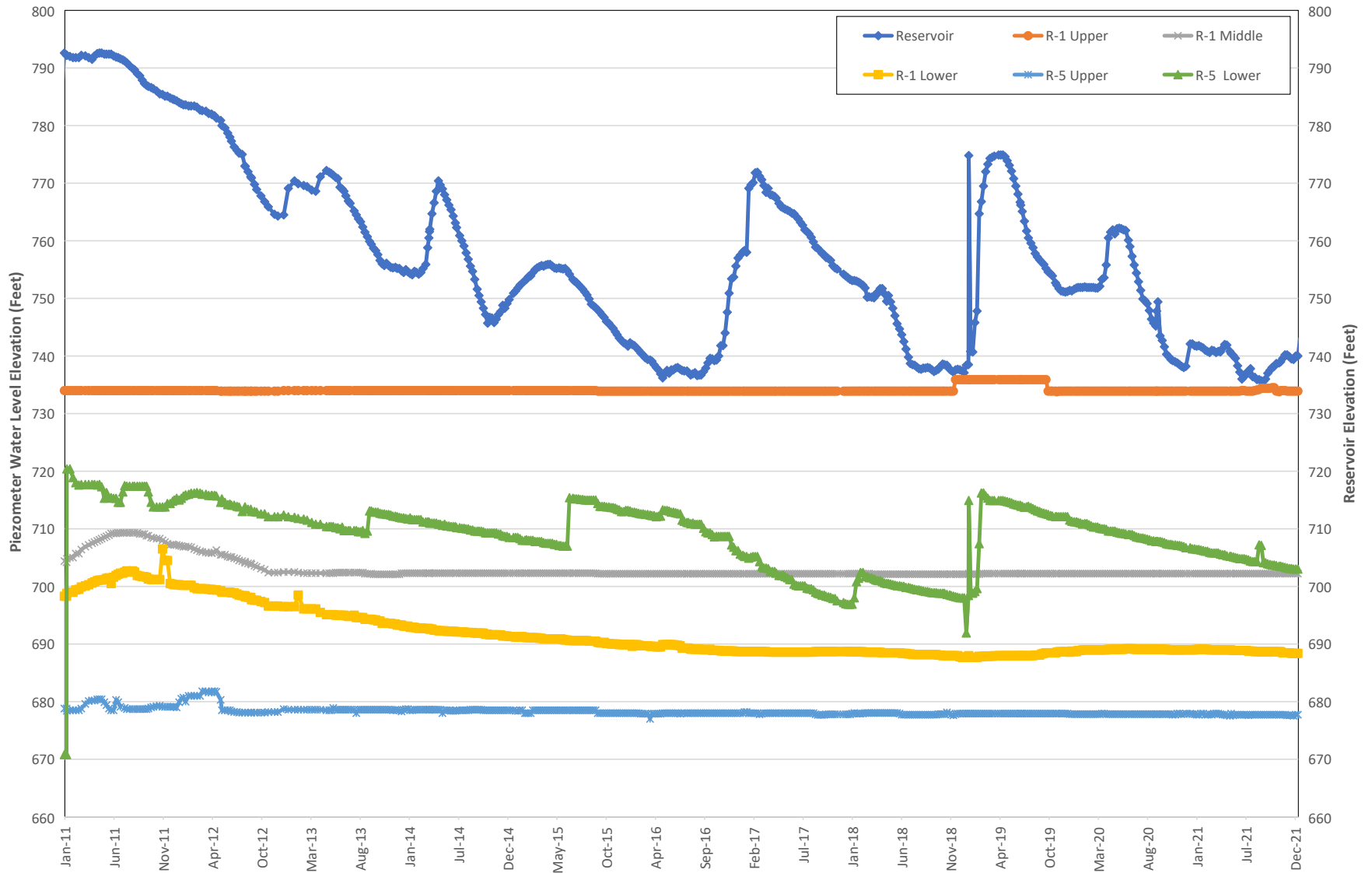


Figure 9
SANTIAGO CREEK DAM
HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS R-2 AND R-4
JANUARY 2011 THROUGH DECEMBER 2021

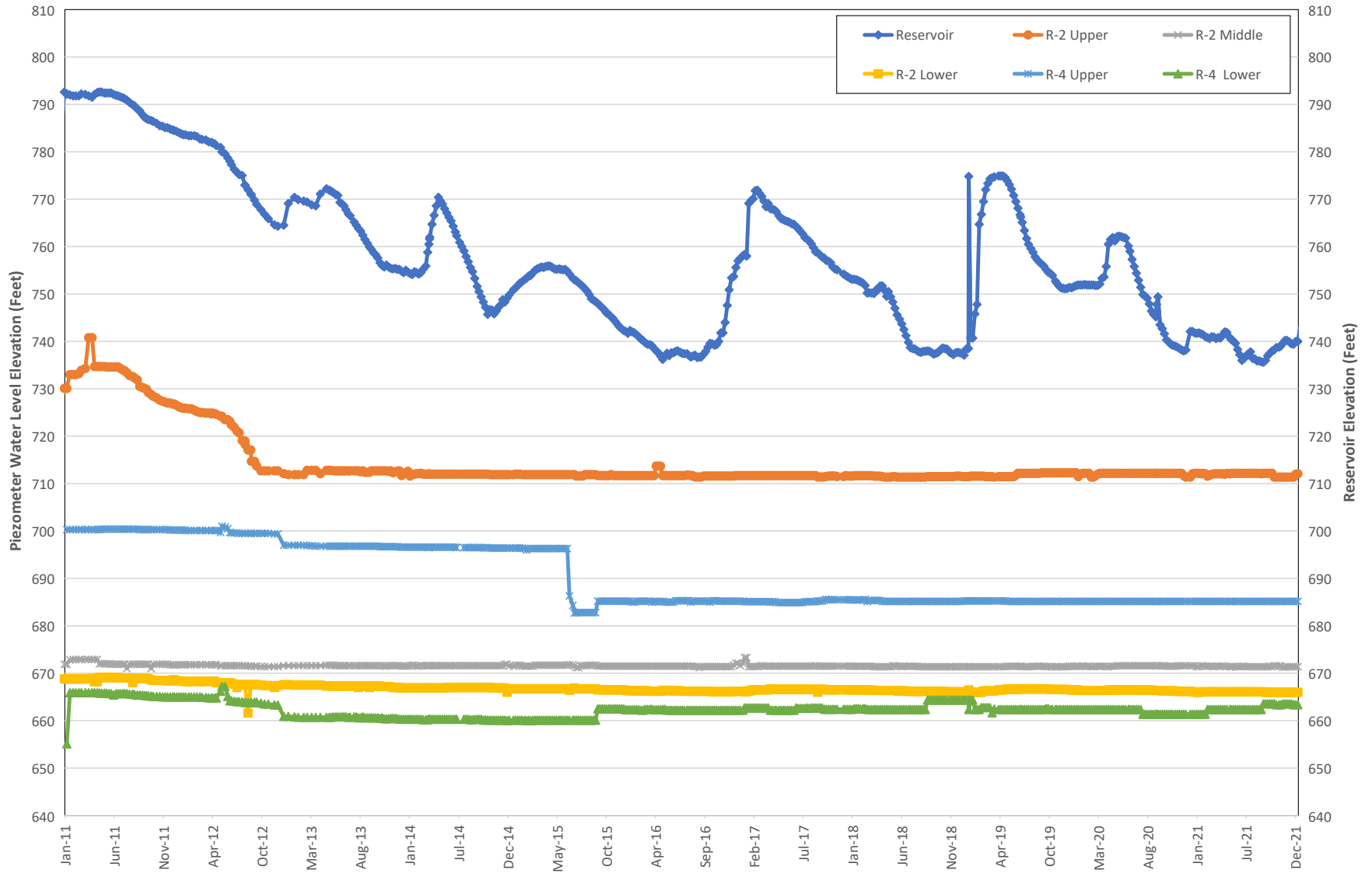


Figure 10
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETER R-3
 JANUARY 2011 THROUGH DECEMBER 2021

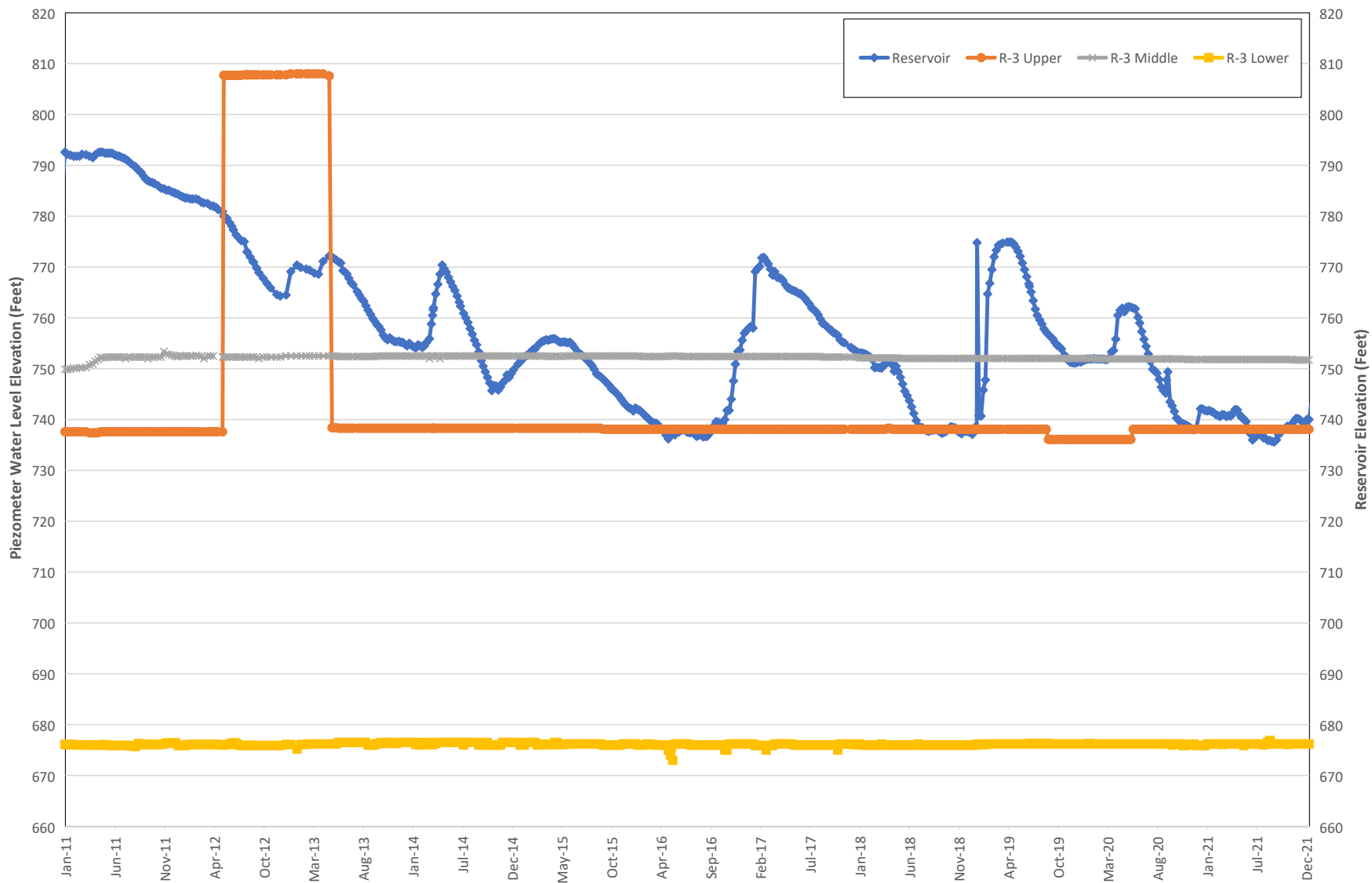


Figure 11
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETER R-6
 JANUARY 2011 THROUGH DECEMBER 2021

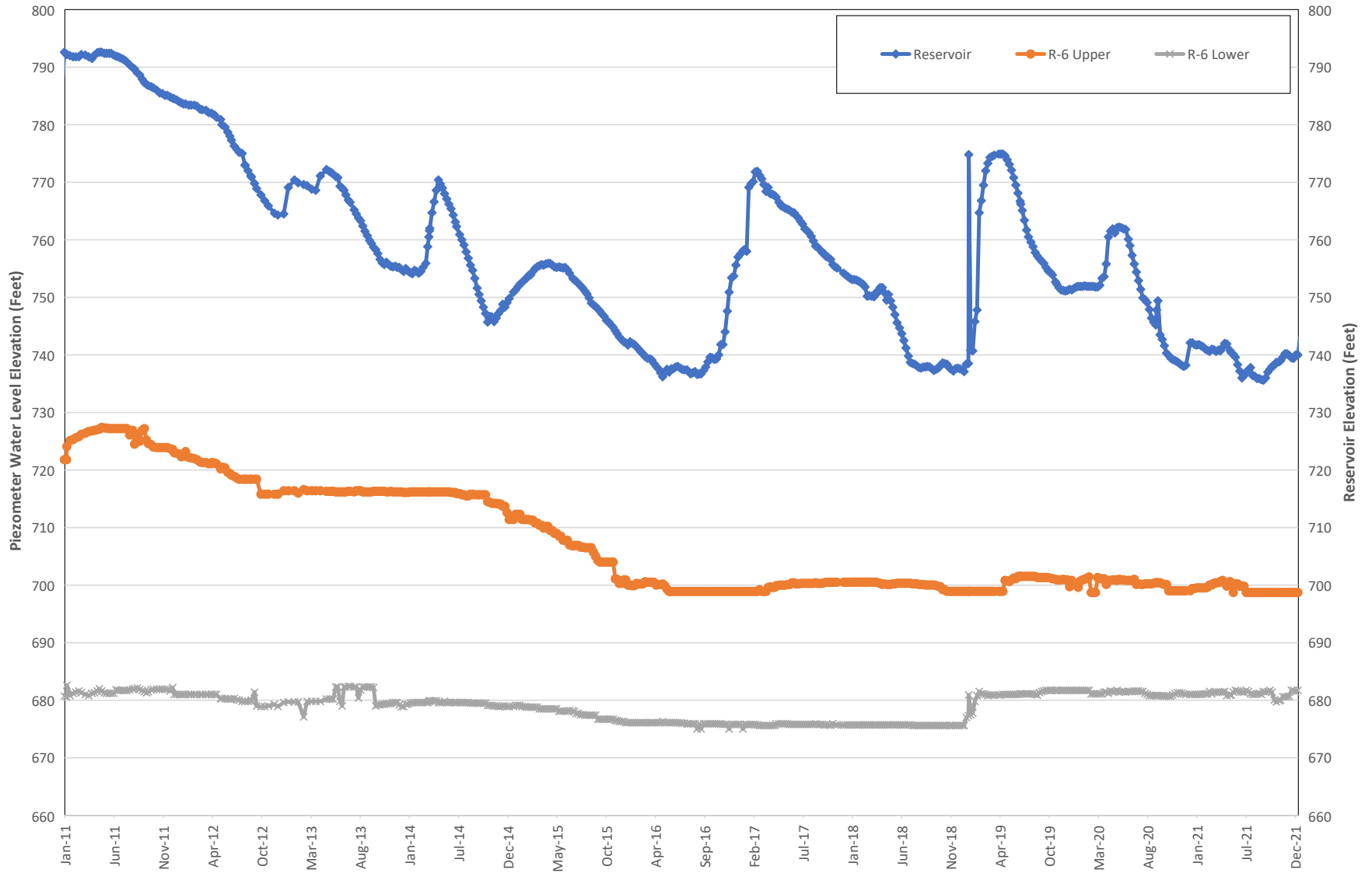


Figure 12
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS No. 1, No. 2, AND R-7
 JANUARY 2011 THROUGH DECEMBER 2021

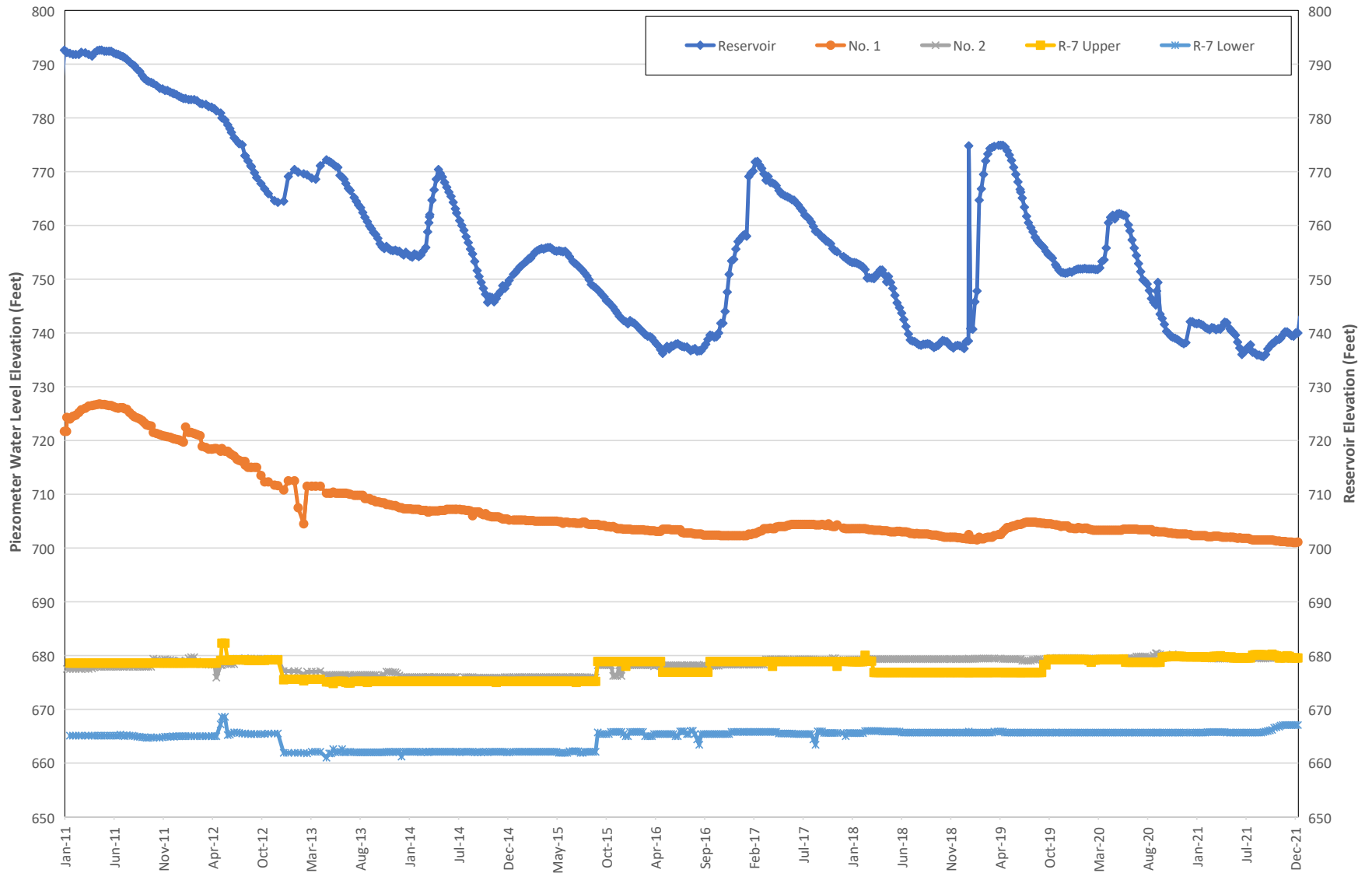


Figure 13
SANTIAGO CREEK DAM
HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS No. 3, No. 4, No. 5
JANUARY 2012 THROUGH DECEMBER 2021

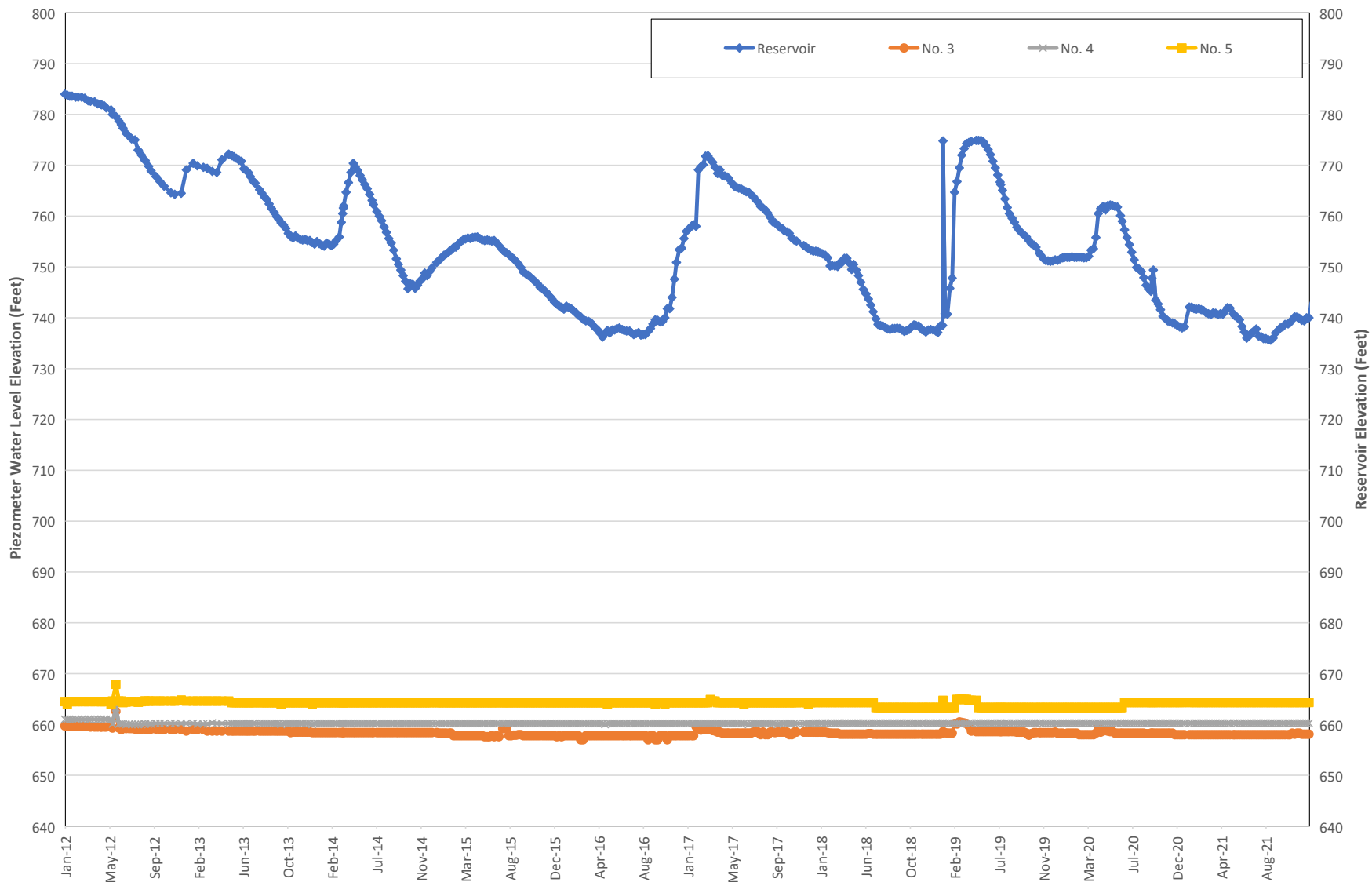


Figure 14
SANTIAGO CREEK DAM
ELEVATIONS OF SURVEY MONUMENTS BM-1, BM-2, AND BM-3
1989 THROUGH 2022

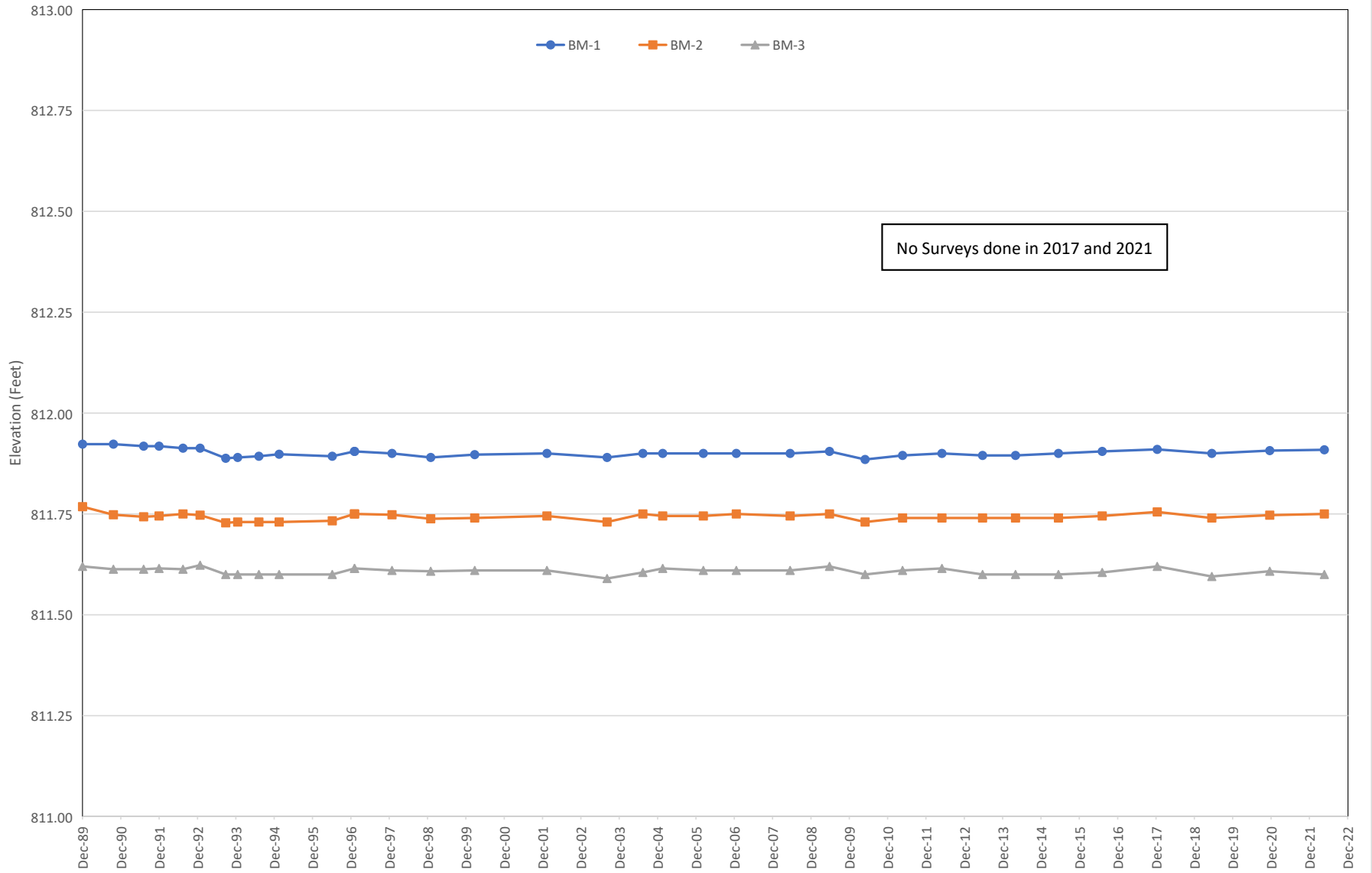


Figure 15
SANTIAGO CREEK DAM
ELEVATIONS OF SURVEY MONUMENTS BM-4, AND BM-5
1989 THROUGH 2022

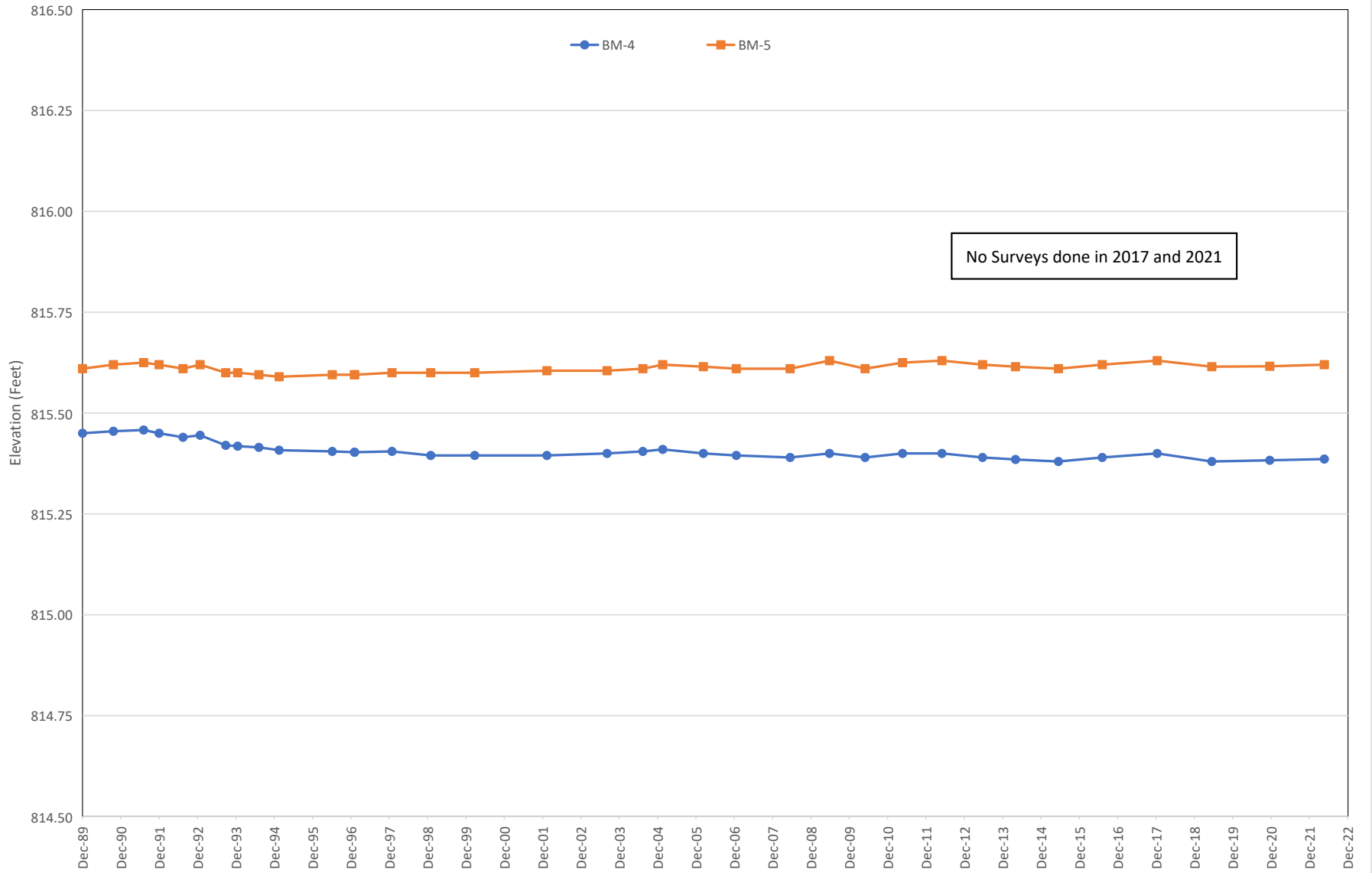


Figure 16
 SANTIAGO CREEK DAM
 NET HORIZONTAL DISPLACEMENTS OF SURVEY MONUMENTS
 BM-1, BM-2, BM-3, BM-4, AND BM-5
 IN THE NORTH-SOUTH DIRECTION
 1994 THROUGH 2022

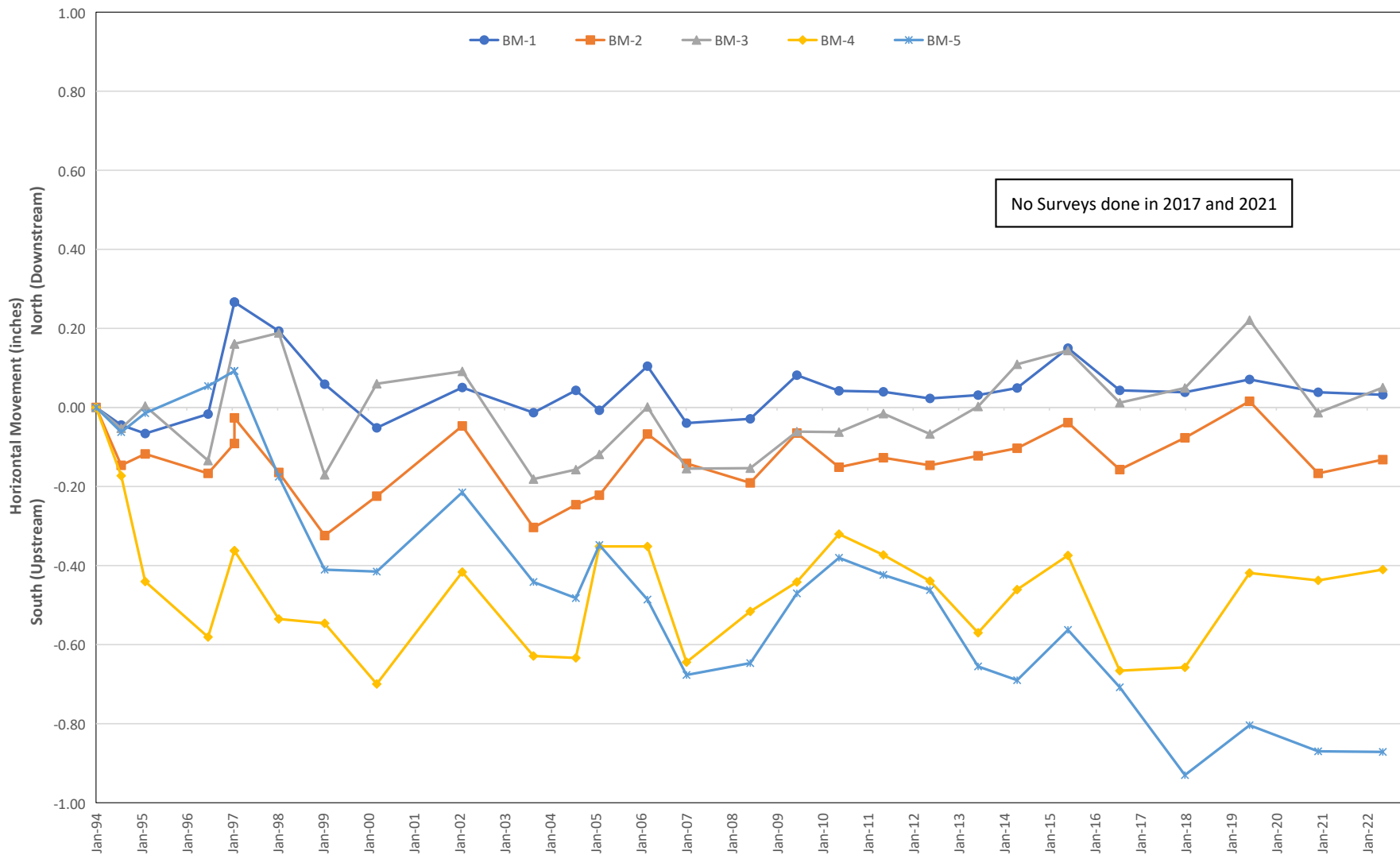
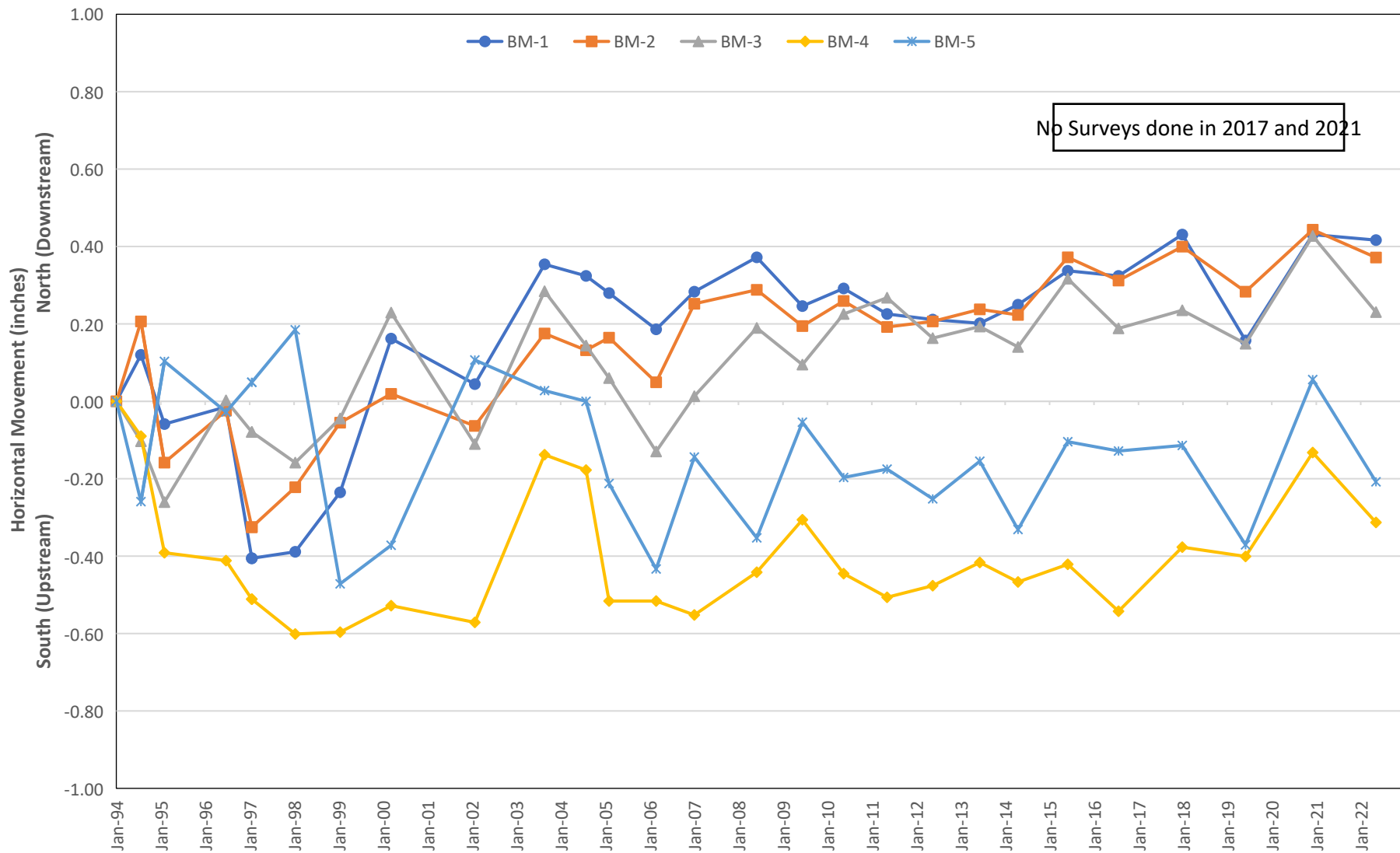


Figure 17
SANTIAGO CREEK DAM
NET HORIZONTAL DISPLACEMENTS OF SURVEY MONUMENTS
BM-1, BM-2, BM-3, BM-4, AND BM-5
IN THE EAST-WEST DIRECTION
1994 THROUGH 2022



Appendix

Inspection Photographs of Santiago Creek Dam

April 19, 2022

Reservoir Dam Valve

Exercising Table

As-Built Plans and Details

for Outlet Works

CNC Survey Report

Inspection Photographs of Santiago Creek Dam

April 19, 2022



Photo 1) Crest and upstream face.



Photo 2) Crest and Downstream Slope looking toward main section of dam from right abutment area.



Photo 3) Upstream face looking towards left abutment. Note vegetation growing in cracks.



Photo 4) Crest and downstream slope looking towards right abutment area. Note vegetation near right groin.



Photo 5) Left end of upstream slope of dam and spillway concrete approach looking toward left abutment.



Photo 6) Spillway concrete bridge, piers, and chute looking toward left abutment.



Photo 7) Reservoir and Intake Tower, photo taken from upstream slope.



Photo 8) Spillway chute, looking downstream.



Photo 9) Overview of left abutment sloughing onto concrete approach.



Photo 10) Close up soil debris sloughing from left abutment slope onto pedestrian bridge.



Photo 11) Location of previously drilled boring hole at spillway.



Photo 12) Location of previously drilled boring hole at spillway.



Photo 13) Spillway chute looking downstream.



Photo 14) Undercutting/erosion at the downstream end of the spillway chute.



Photo 15) Downstream slope looking at right groin. Note overgrown vegetation.



Photo 16) Downstream slope looking up to crest and toward right end of dam. Note regrowth of brush vegetation.



Photo 17) Looking up at downstream face. Note tree and overgrown brush



Photo 18) Old water irrigation lines coming down downstream slope near left abutment. Note regrowth of brush.



Photo 19) Emergency blowoff valve within dissipator structure.

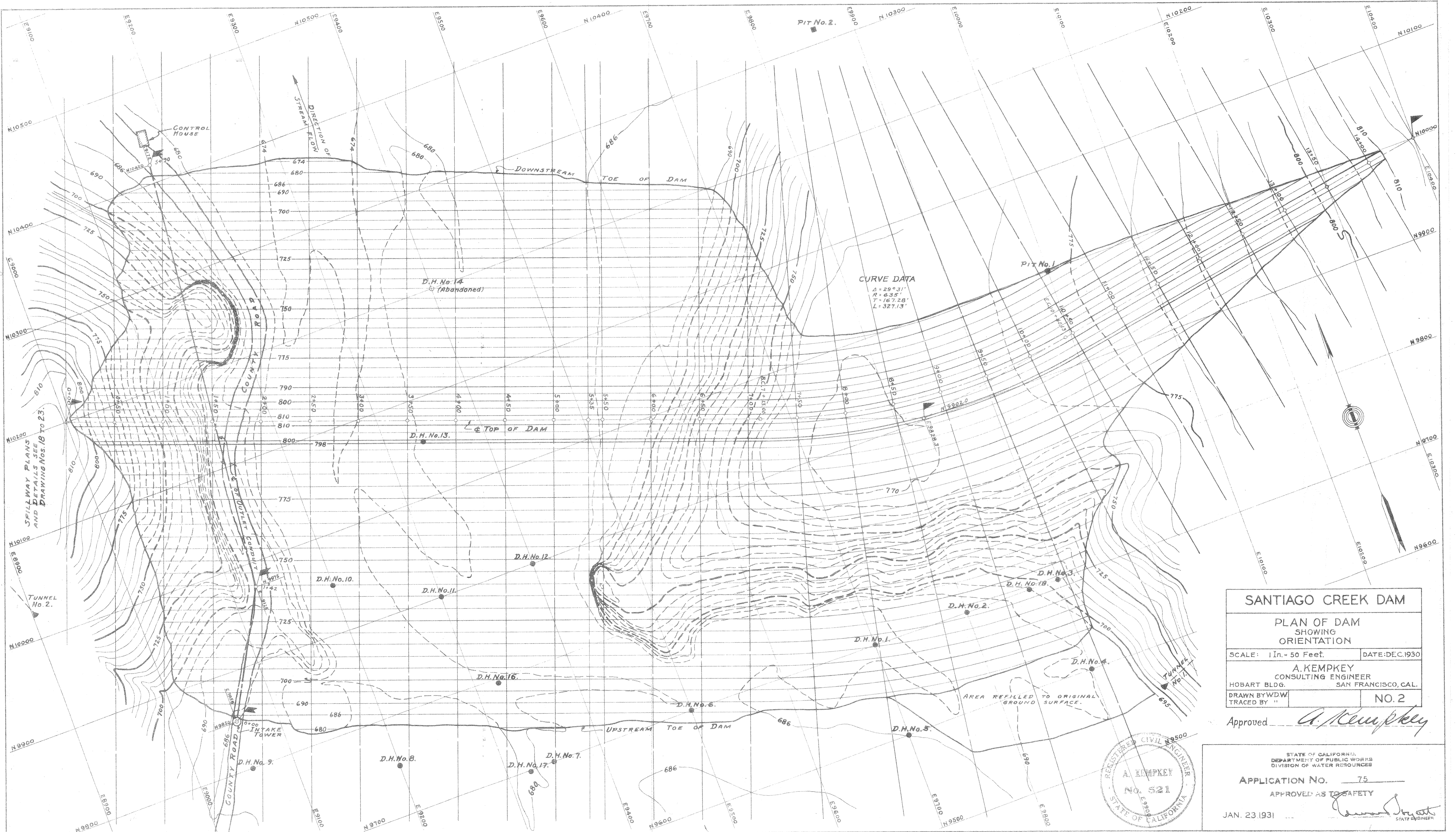
Reservoir Dam Valve Exercising Table

Reservoir Dam Valve Exercising

Santiago Canyon Dam

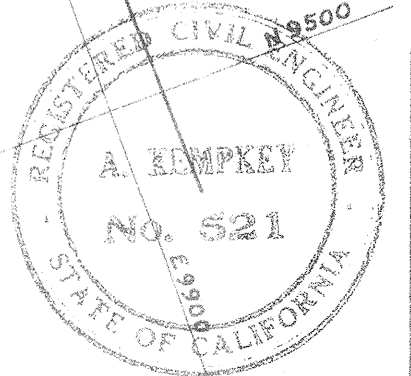
Date	750 Hydraulic Valve travel time	740 Valve # of Turns	730 Hydraulic Valve travel time	720 Valve # of Turns	ILP Valve	Diverter Valve # of Turns	Pump House Valve # of Turns
1/20/2014	5-6 Min	212	5-6Min	208	30%	93	17
4/22/2014	Exercised	Exercised	Exercised	Exercised	Exercised	Exercised	Exercised
1/15/2015	5-6Min	212	5-6Min	206	30%	92	17
4/20/2015 DSOD	Not Turned	Not Turned	Not Turned	206/25%	Not Turned	Not Turned	17
10/1/2015	5-6Min	212	5-6Min	206	Not Turned	Not Turned	Not Turned
4/27/2016						92	17
12/7/2016	5-6Min	212	5-6Min	204	Not Turned	Not Turned	Not Turned
7/17/2017	5-6min	212	5-6min	205	Not Turned	Not Turned	Not Turned
5/3/2018 DSOD	5-6Min	203	5-6min	204	30%	93	17
5/21/19 DSOD	5-6Min	203	5-6min	204	Not Turned	Not Turned	Not Turned
6/4/2020 DSOD	5-6Min	203	5-6min	204	Not Turned	Not Turned	Not Turned
3/24/2021	5-6Min	203	5-6min	206	30%	93	17

As-Built Plans and Details for Outlet Workds

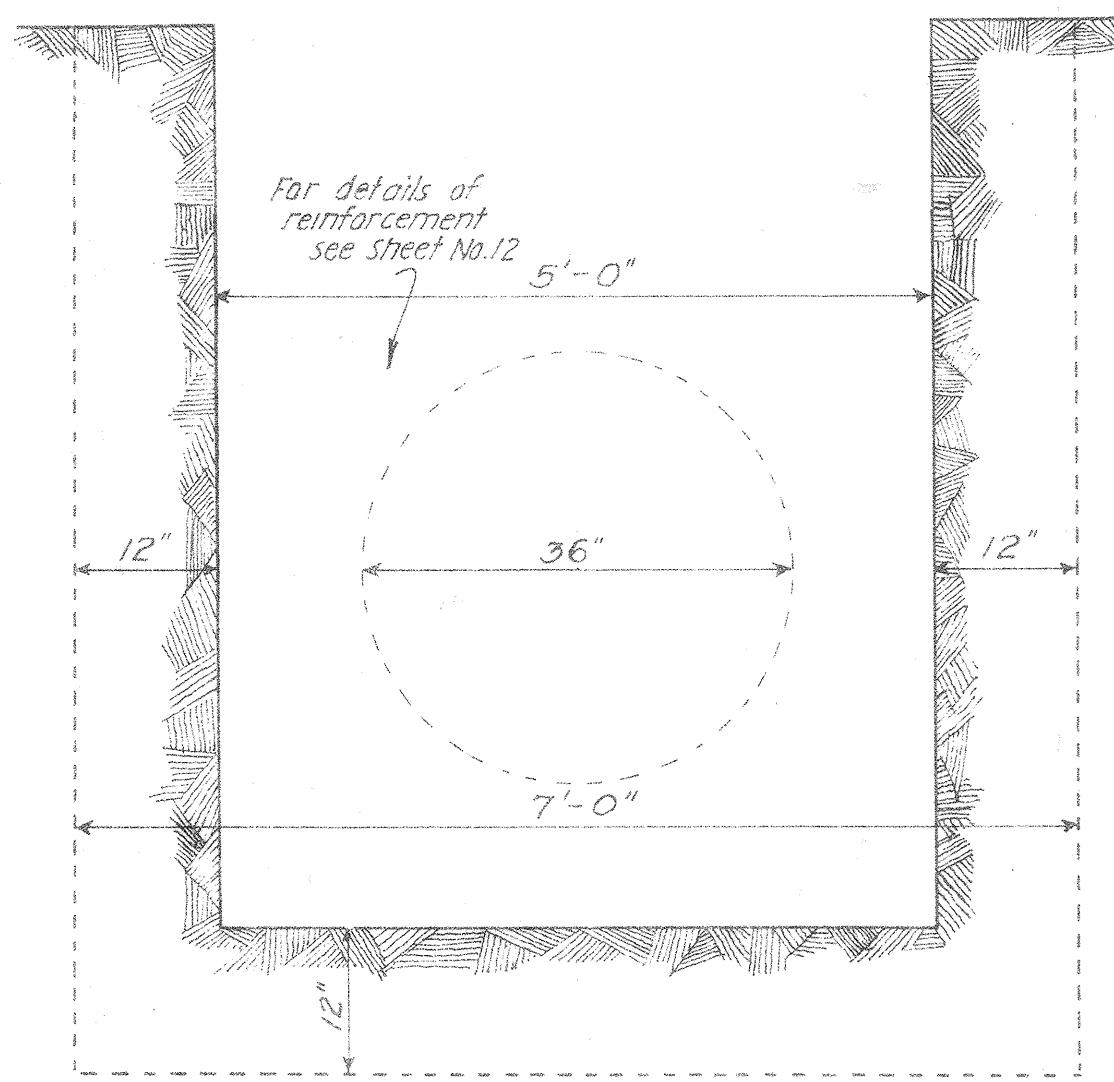


SANTIAGO CREEK DAM
 PLAN OF DAM
 SHOWING
 ORIENTATION
 SCALE: 1 in. = 50 Feet. DATE: DEC. 1930
 A. KEMPKEY
 CONSULTING ENGINEER
 HOBART BLDG. SAN FRANCISCO, CAL.
 DRAWN BY WDW
 TRACED BY " NO. 2

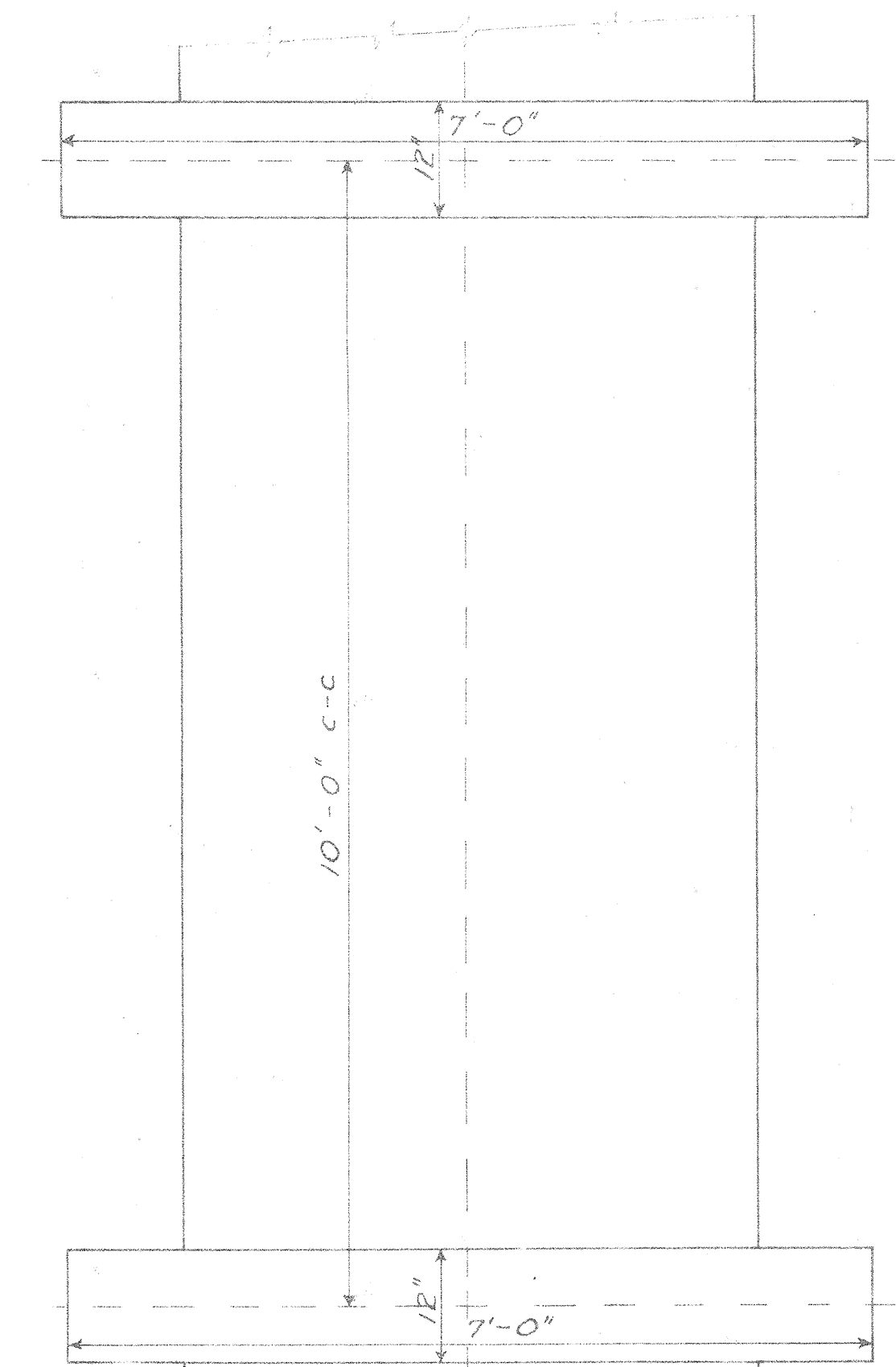
Approved *A. Kempkey*



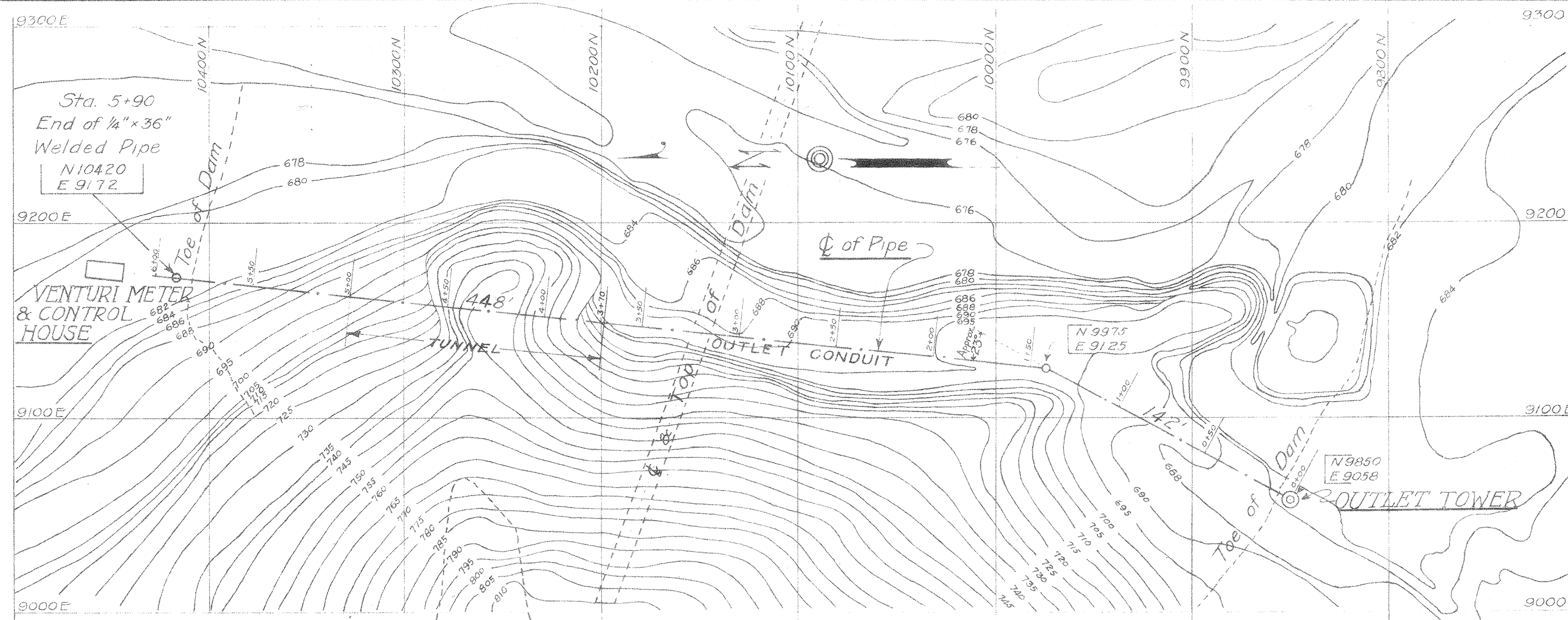
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WATER RESOURCES
 APPLICATION NO. 75
 APPROVED AS TO SAFETY
 JAN. 23, 1931
Edward Smith
 STATE ENGINEER



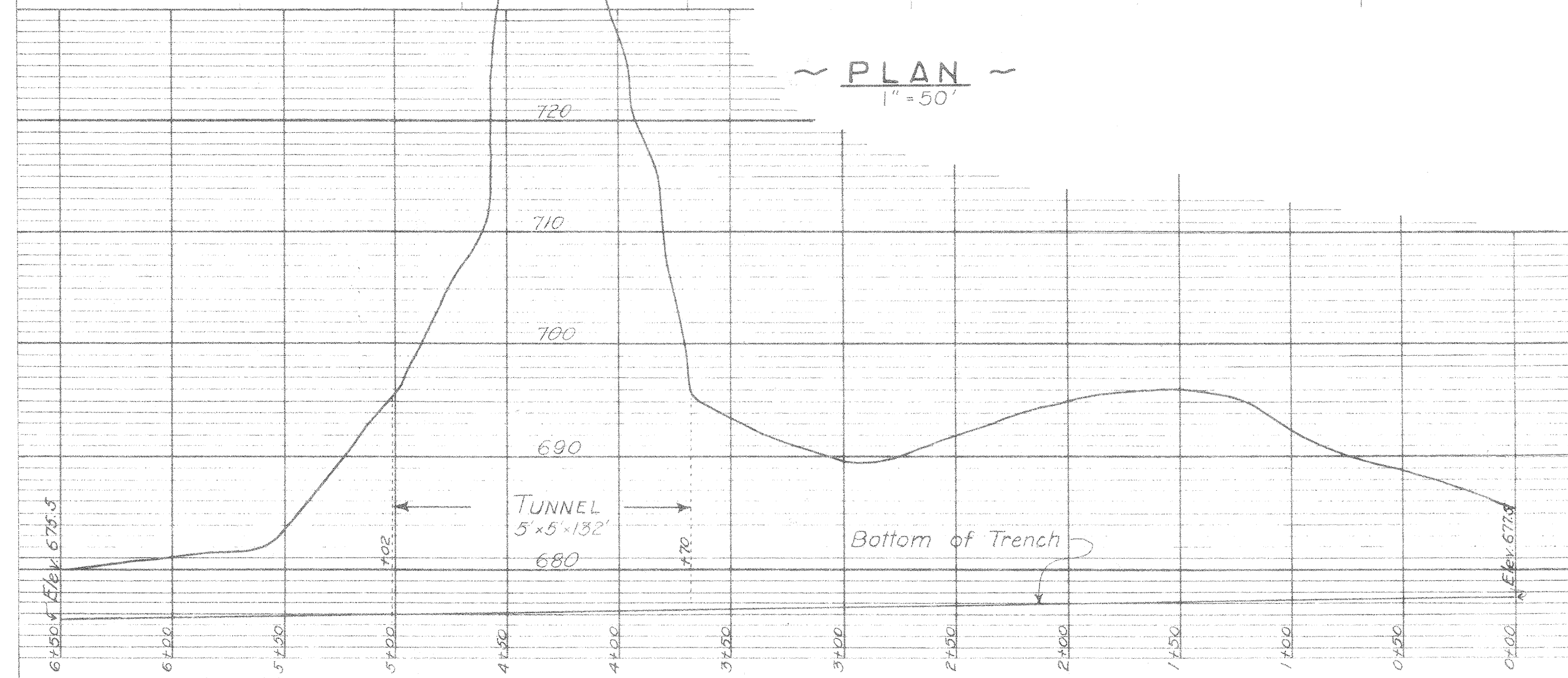
SECTION THROUGH TRENCH
3/4" = 1'-0"



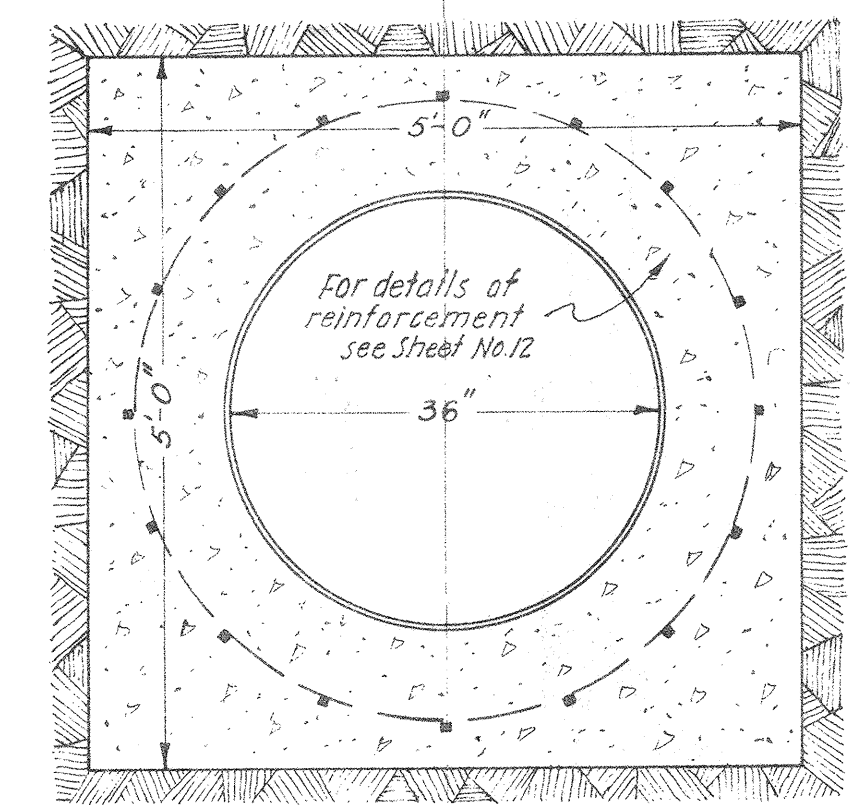
PART PLAN OF TRENCH
3/4" = 1'-0"



~ PLAN ~
1" = 50'



PROFILE
Hor. 1" = 50' Vert. 1" = 10'

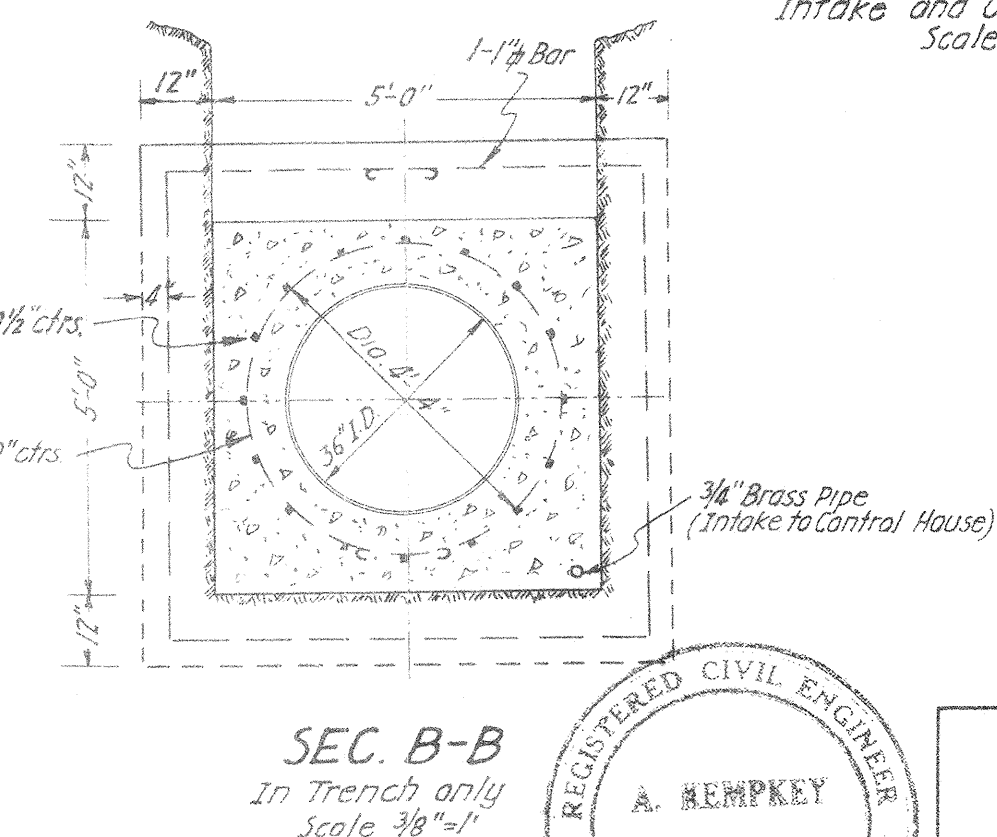
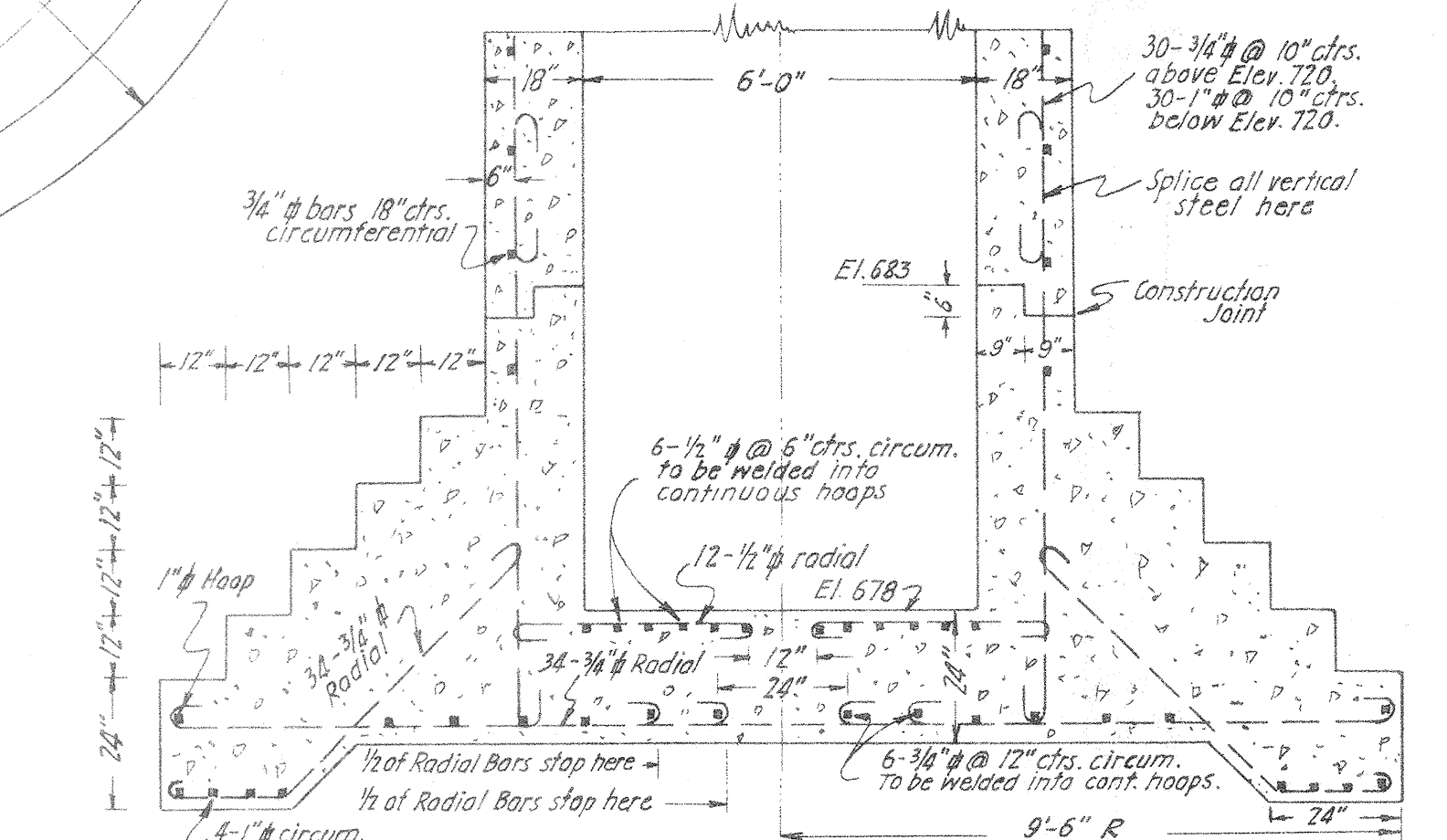
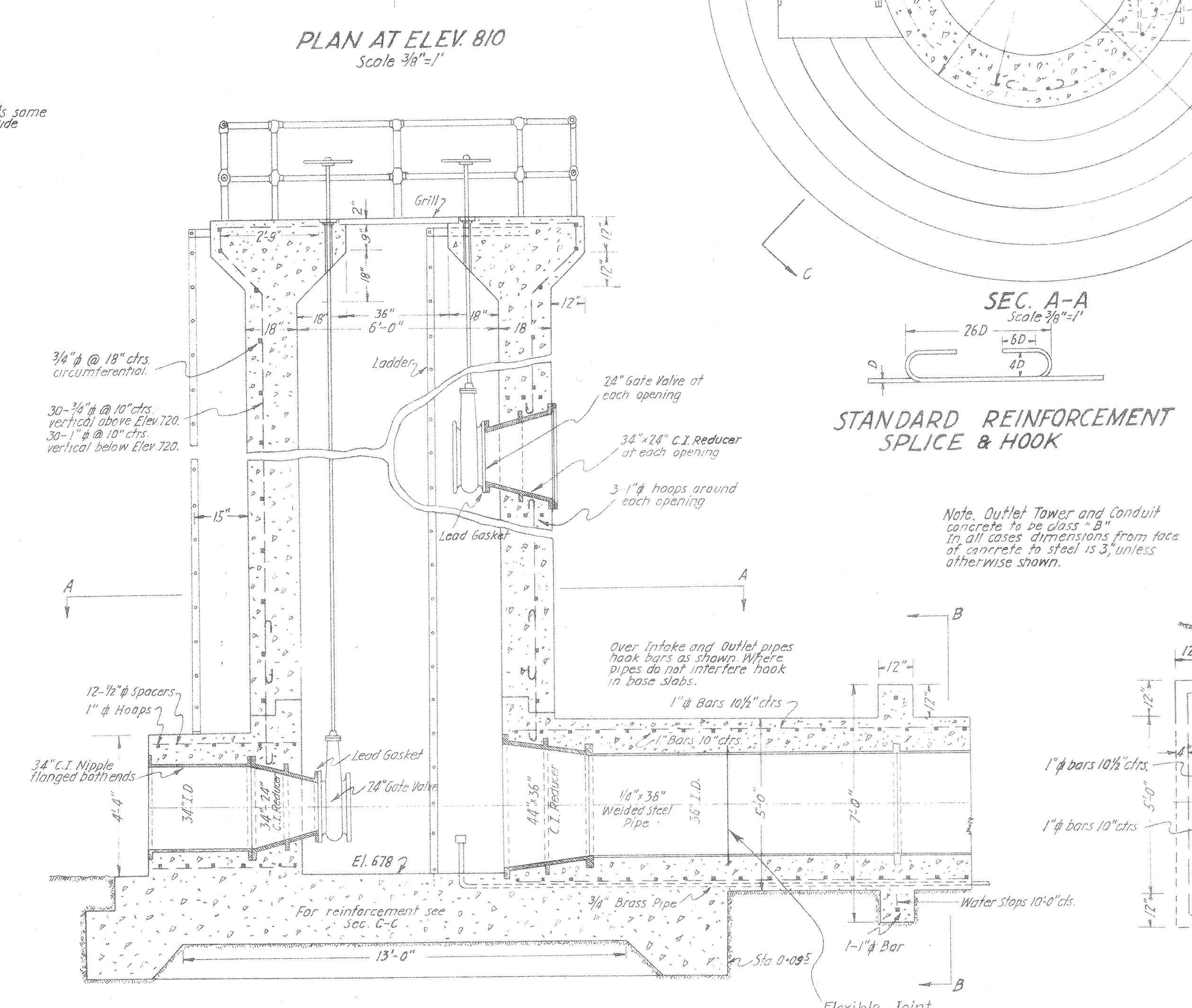
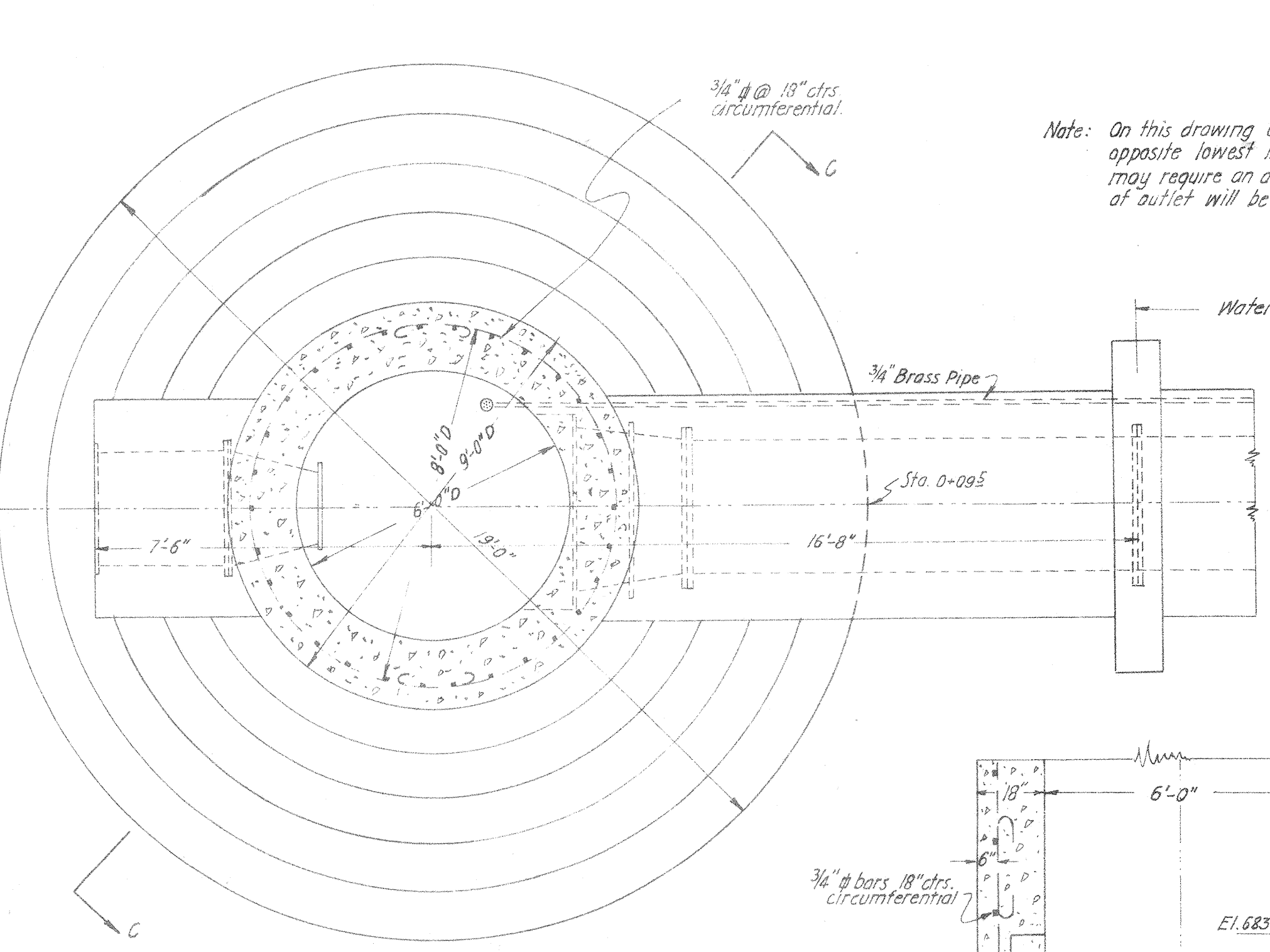
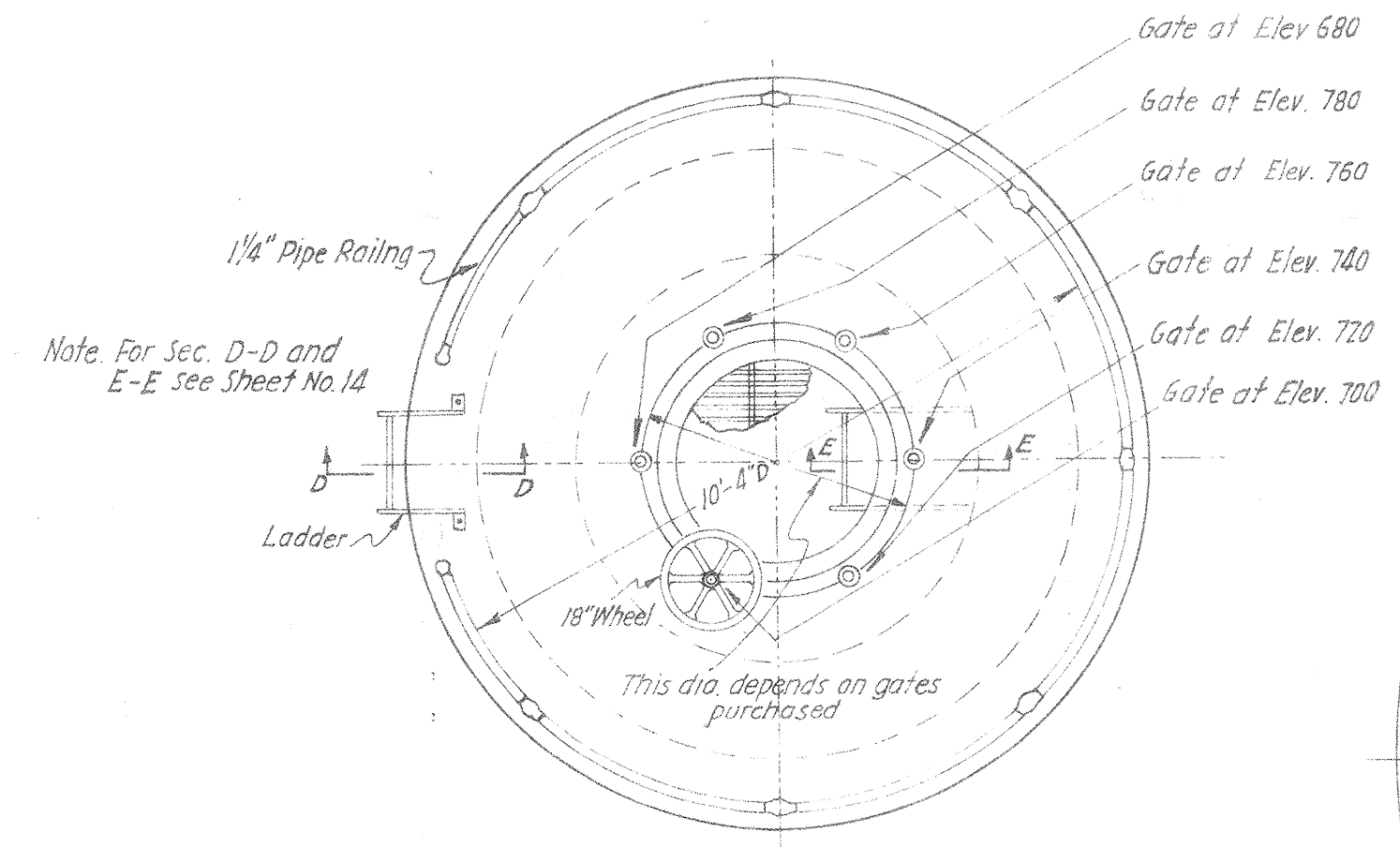
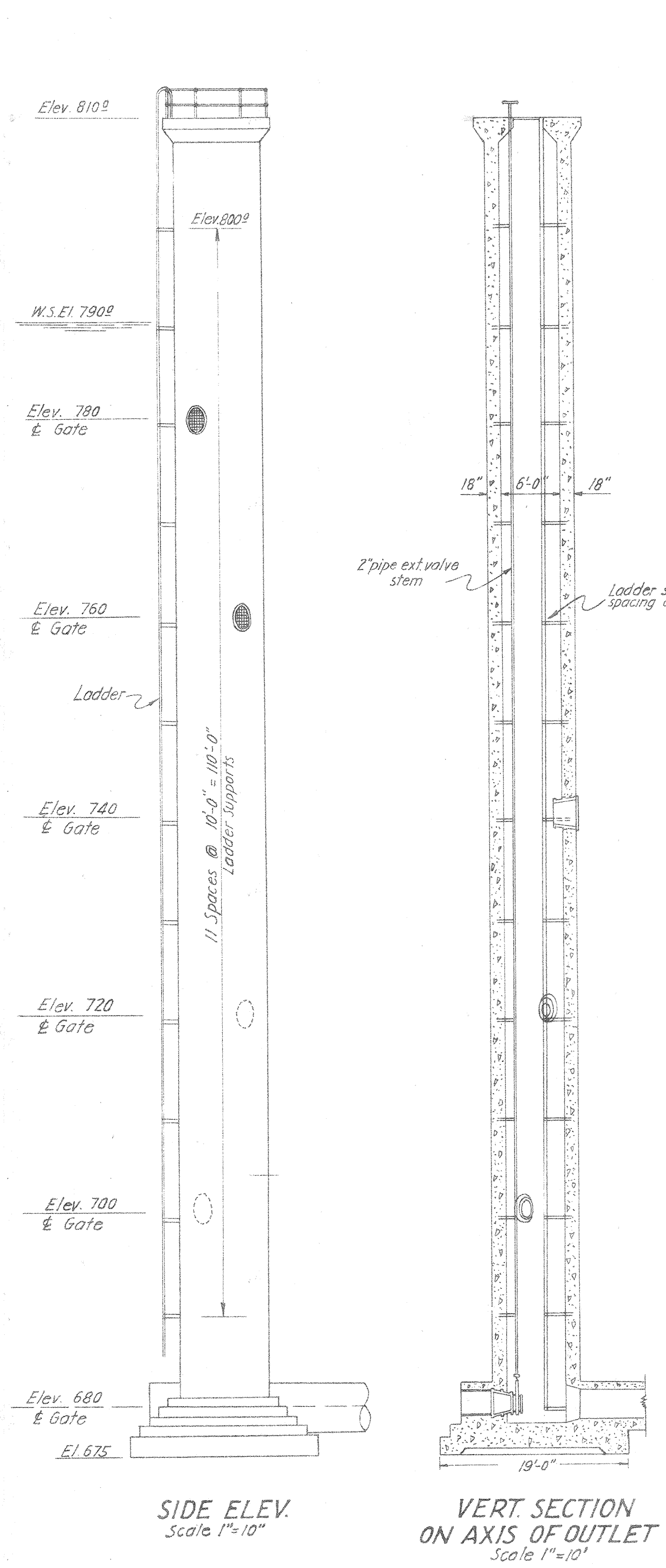


SECTION THROUGH TUNNEL
3/4" = 1'-0"

SANTIAGO CREEK DAM	
OUTLET TOWER & CONDUIT GENERAL PLAN & LOCATION	
SCALE: AS SHOWN	DATE: DEC. 1930
A. KEMPKEY CONSULTING ENGINEER HOBART BLDG. SAN FRANCISCO, CAL.	
DRAWN BY	NO. 11
TRACED BY	

Approved: *A. Kempkey*

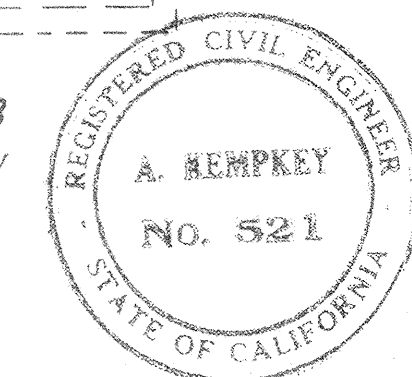




Note: On this drawing outlet of tower is shown opposite lowest intake. Field conditions may require an angle between alignment of outlet will be determined in the field.

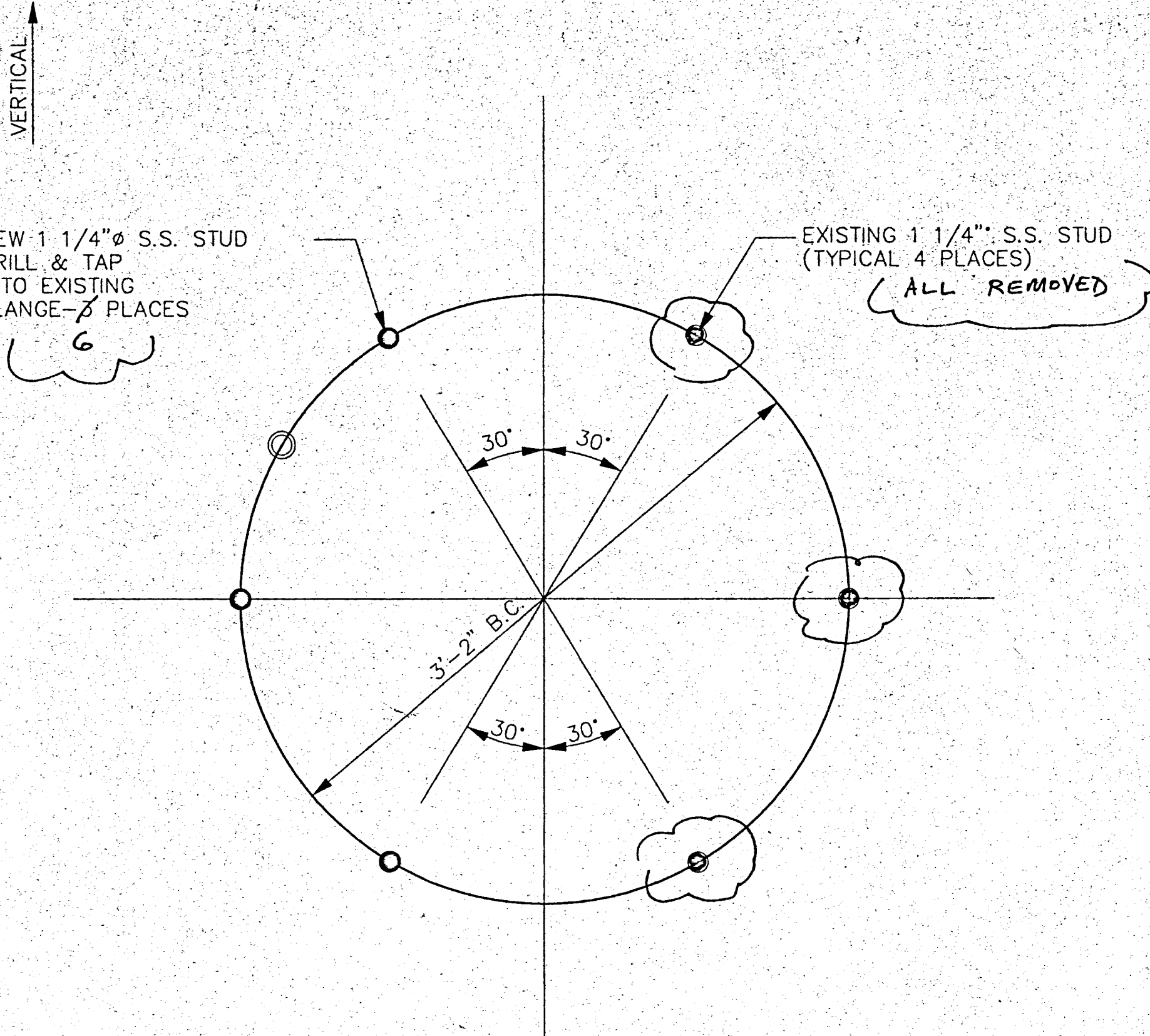
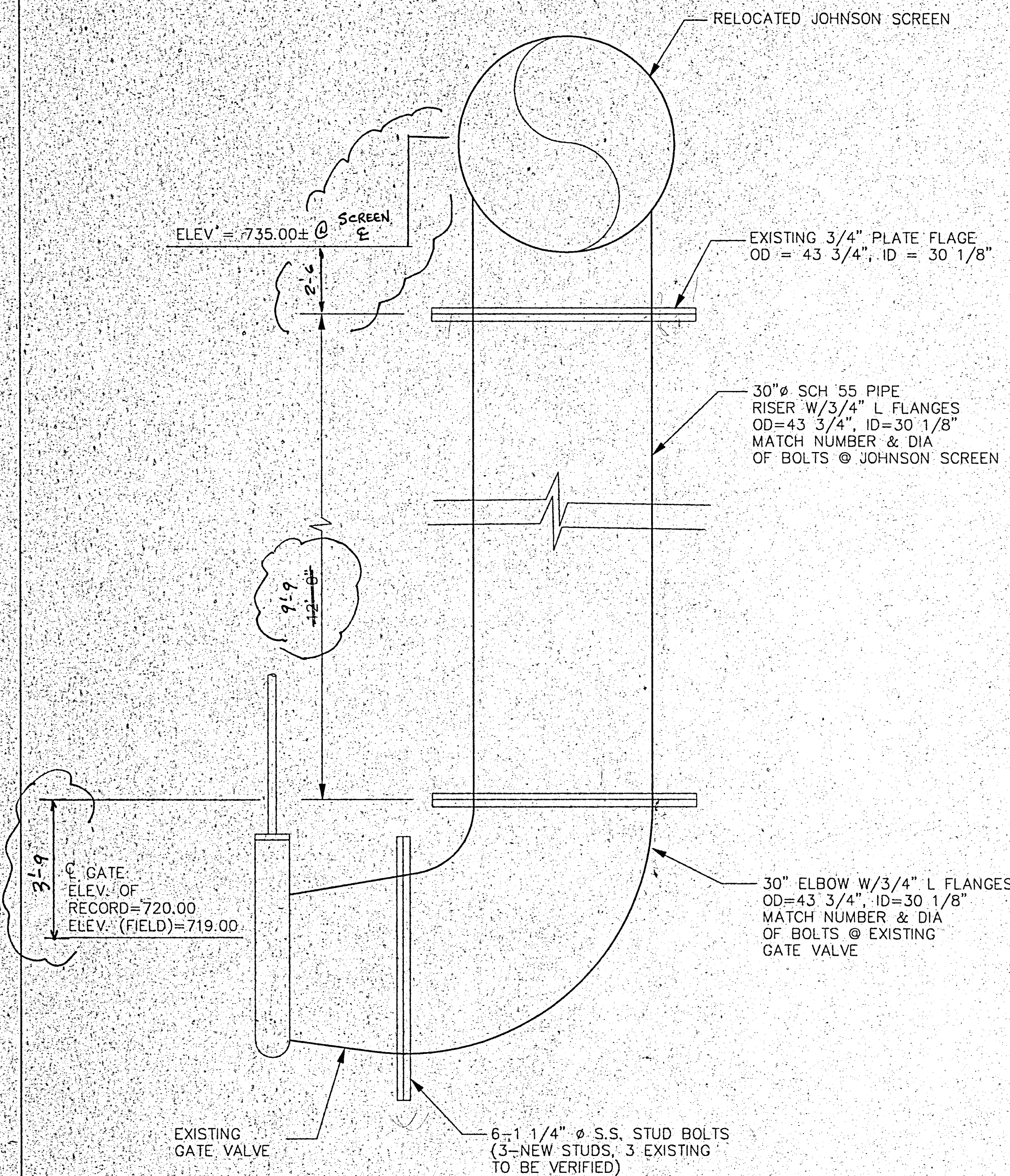
SANTIAGO CREEK DAM	
OUTLET TOWER & CONDUIT. DETAILS OF TOWER	
SCALE AS SHOWN	DATE: DEC. 1930
A. KEMPKEY CONSULTING ENGINEER HOBART BLDG. SAN FRANCISCO, CAL.	
DRAWN BY TRACED BY: A.F.J.	NO. 12

Approved *A. Kempkey*



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER RESOURCES	
APPLICATION NO. 75	APPROVED AS TO SAFETY
JAN. 23 1931	<i>Edward J. Smith</i>

NOTE: ALL MATERIALS TO BE STAINLESS STEEL



NEW 1 1/4" S.S. STUD DRILL & TAP INTO EXISTING FLANGE - 6 PLACES

EXISTING 1 1/4" S.S. STUD (TYPICAL 4 PLACES) ALL REMOVED

3'-2" B.C.

30° 30° 30° 30°

NO EXISTING STUDS WERE RE-USED

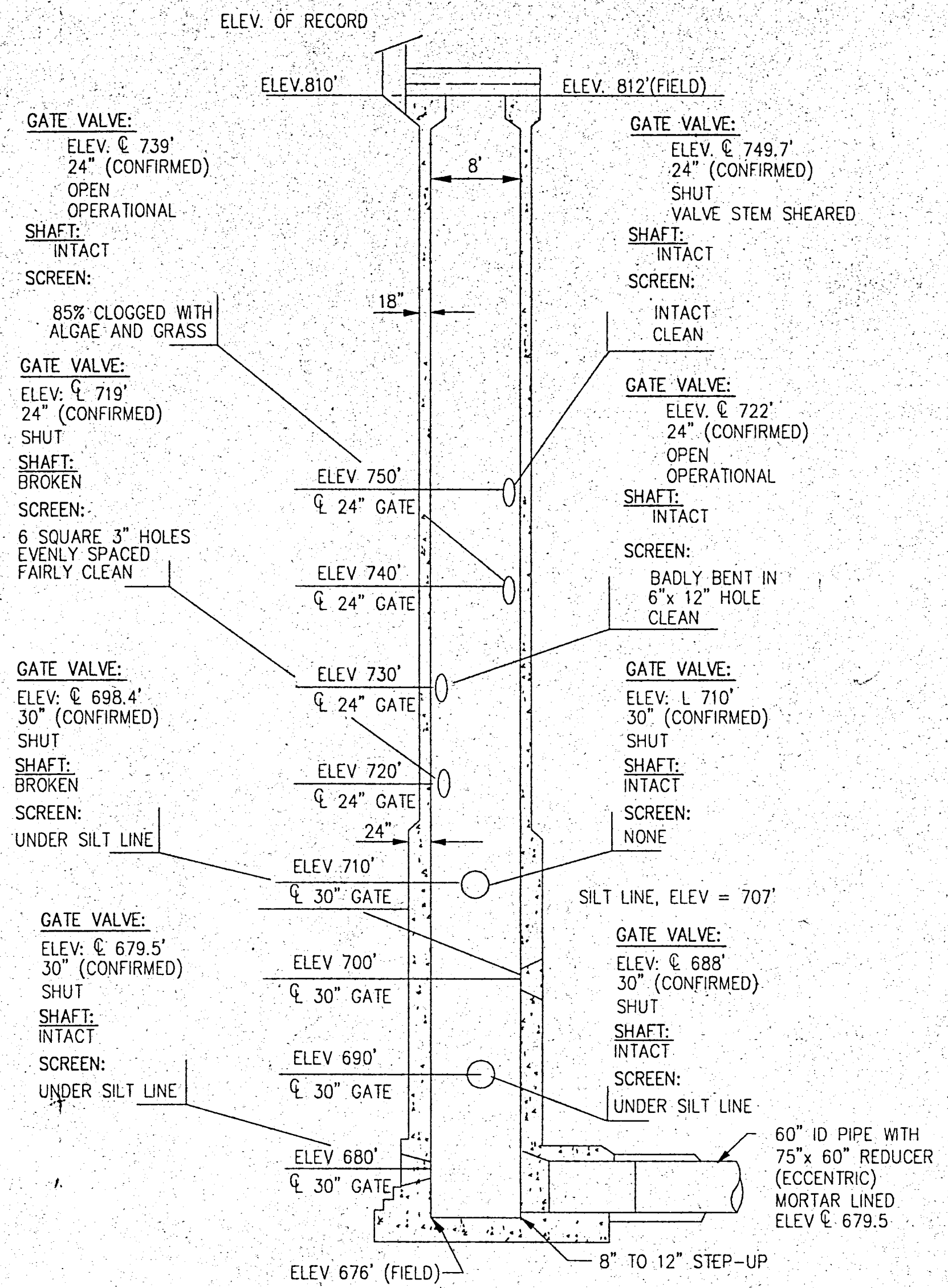
- - EXISTING 1 1/4" S.S. STUD TO BE RE-USED
- - NEW 1 1/4" S.S. STUD, DRILL AND TAP
- ⊙ - EXISTING 1 1/4" S.S. STUD - NOT USED

NOTES: VERIFY LOCATION, SIZE & CONDITION OF EXISTING S.S. STUDS PRIOR TO USE.
VERIFY EXISTING FLANGE CONDITION AND ADEQUACY FOR DRILLING & TAPPING OF NEW 1 1/4" S.S. STUDS

BOLT PATTERN @ EXISTING FLANGE

DETAIL

N.T.S.



EXISTING TOWER (AS BUILT)

N.T.S.

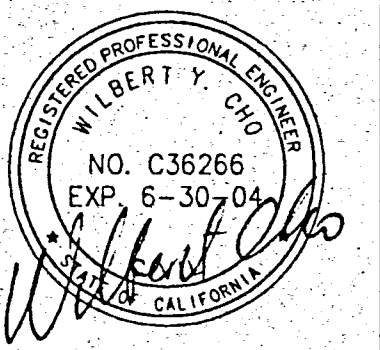
NOTE: ELEVATIONS OF RECORD OBTAINED FROM AS-BUILT PLANS. ELEVATIONS (FIELD CONFIRMED) PROVIDED BY I.R.W.D.

AS BUILT

RECORD DRAWING

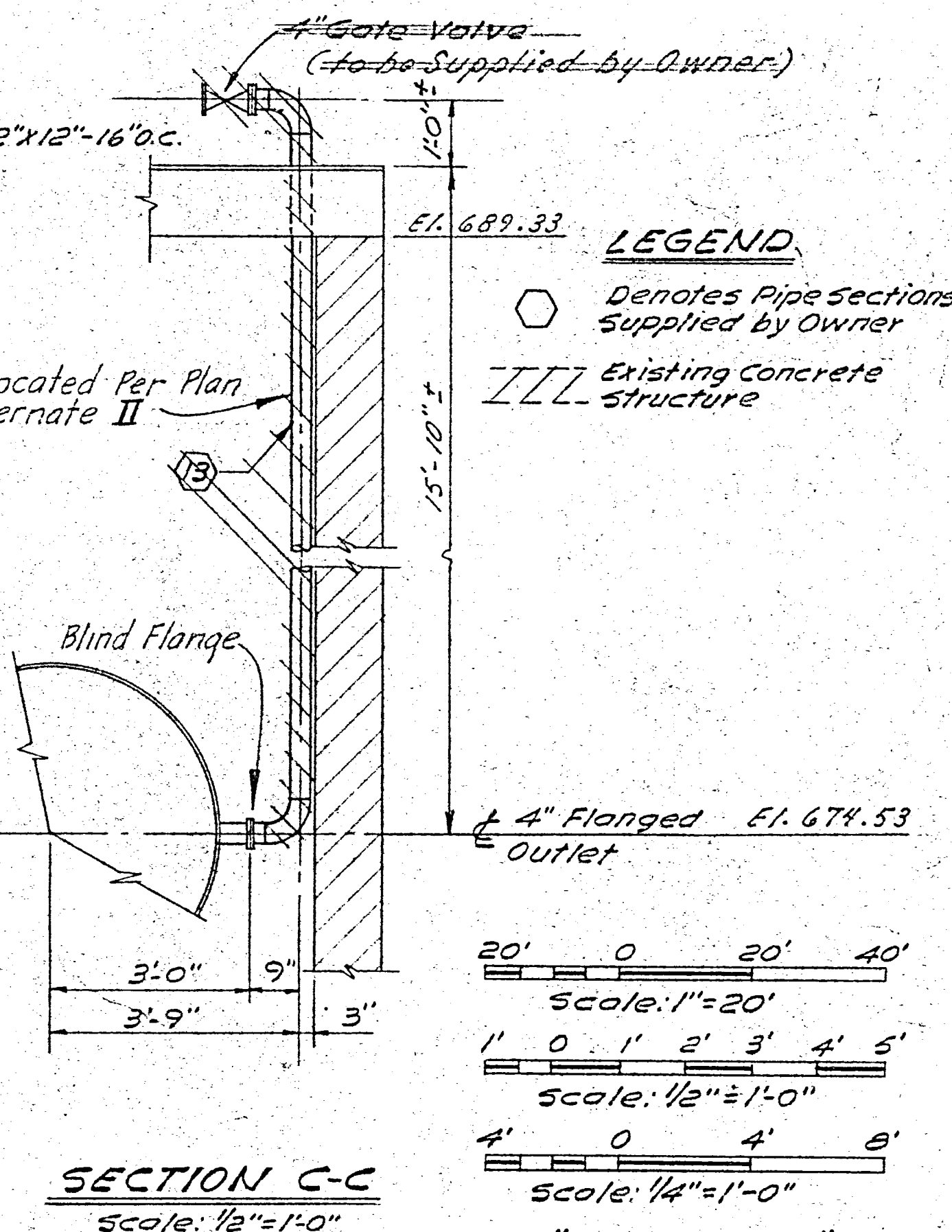
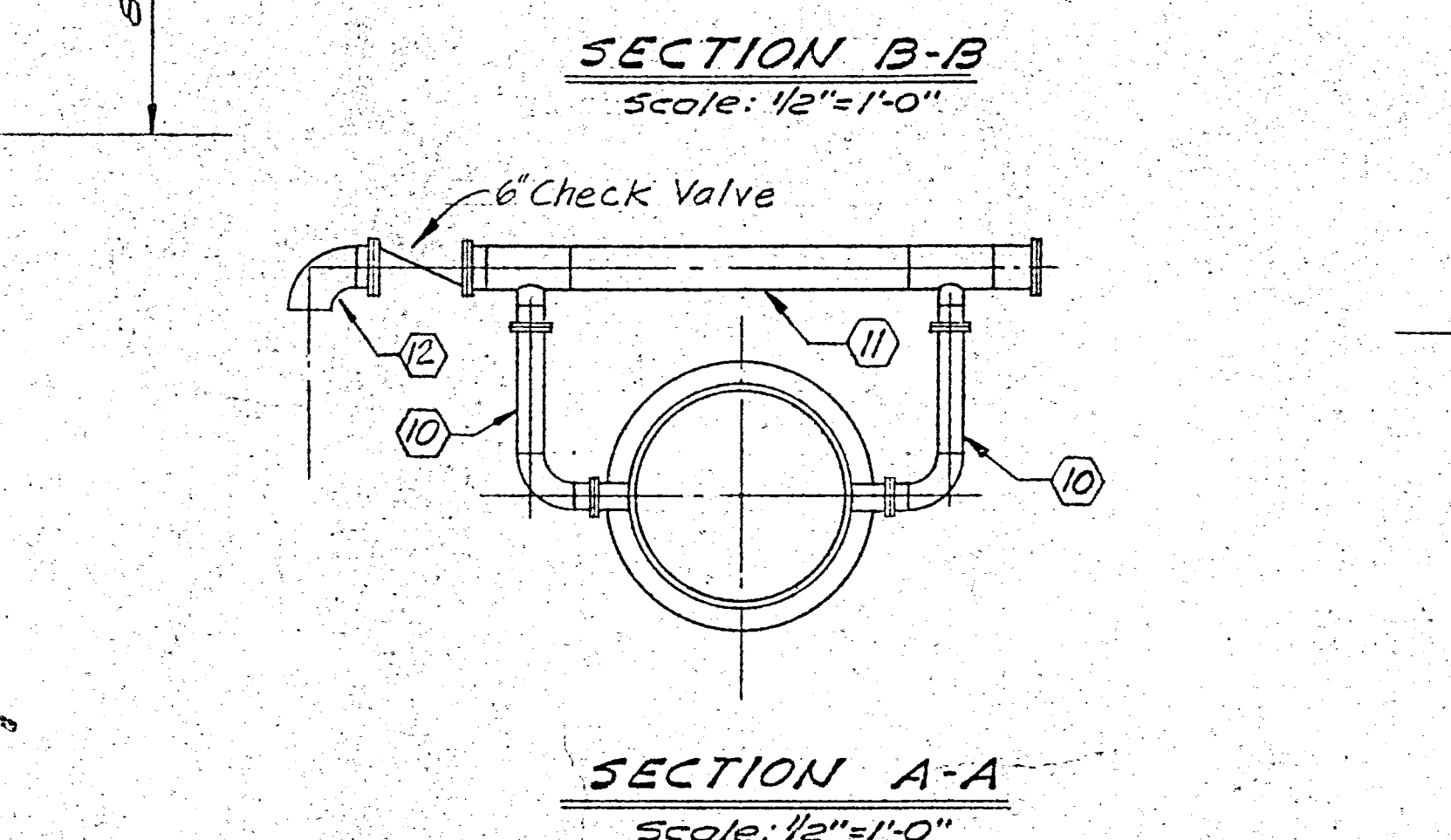
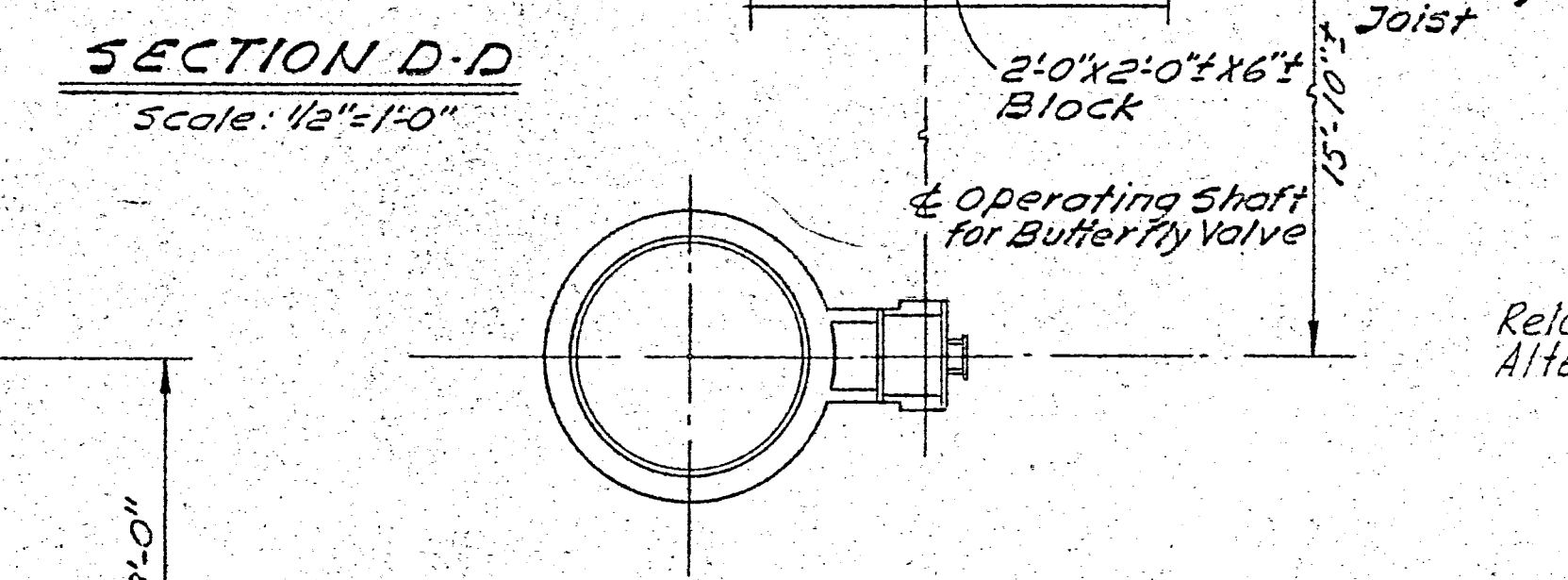
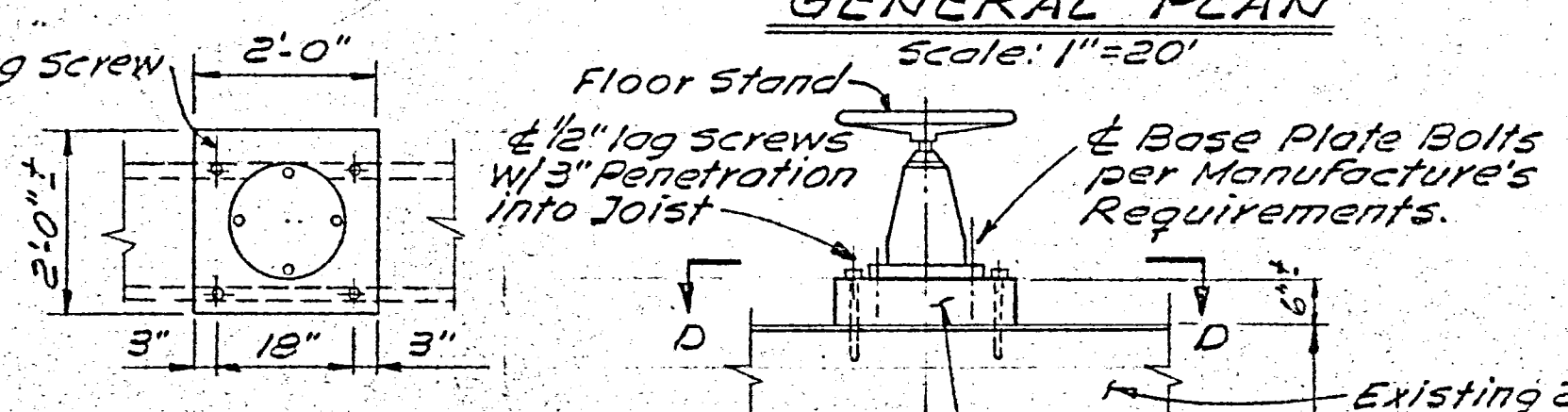
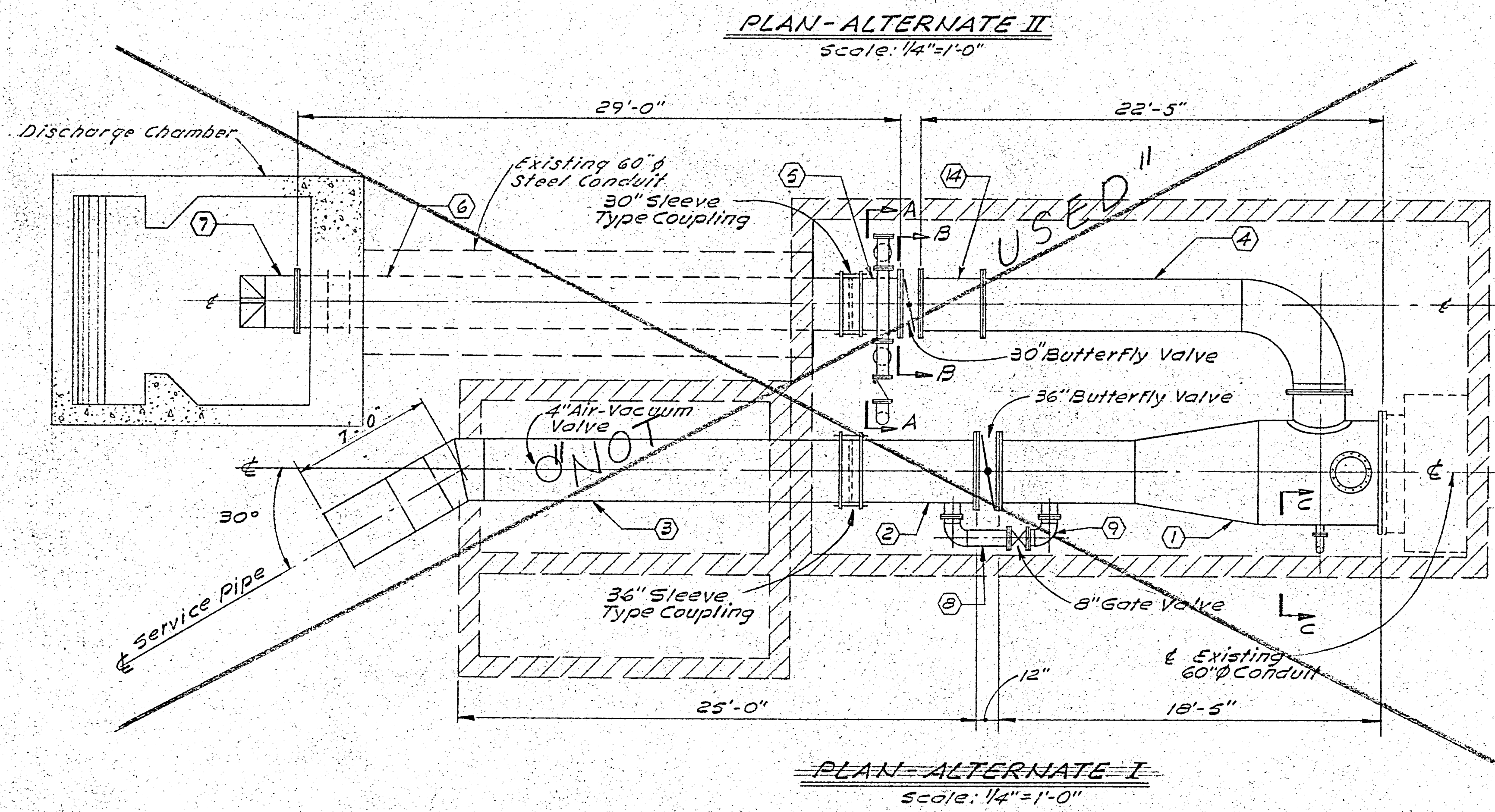
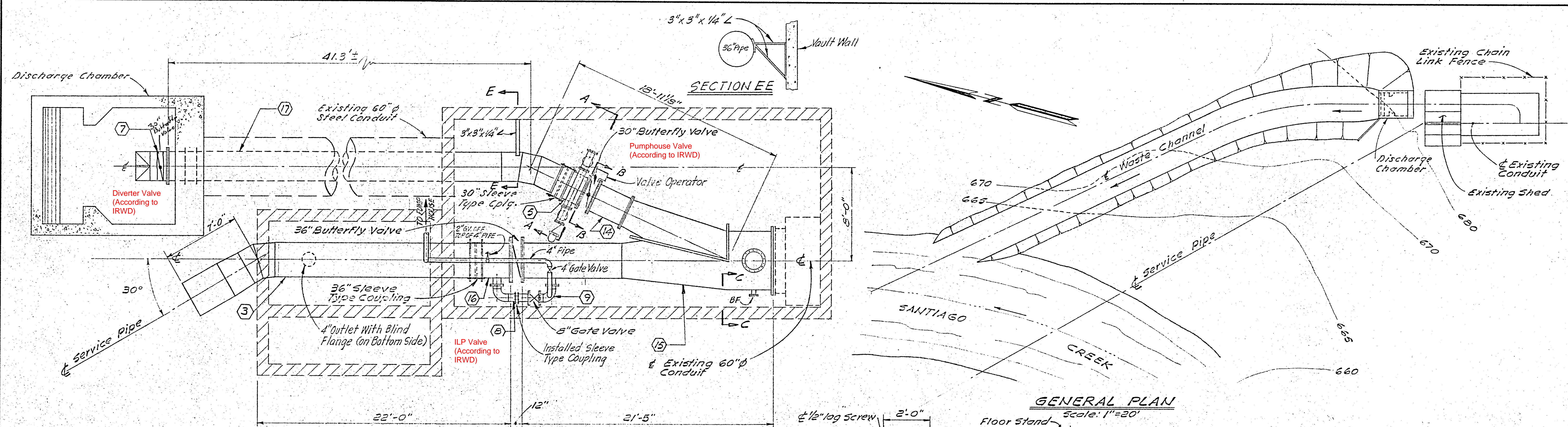
DATE 11-30-01

NO CORRECTIONS
CORRECTIONS AS NOTED



NO.	BY	REVISIONS	DATE	APPROVED	DRAWN	IR	IRVINE RANCH WATER DISTRICT Irvine, California		Wilbert Cho WILBERT Y. CHO RCE NO 36266 PROJECT ENGINEER 6/21/01	Prepared By: CHD DESIGN ASSOCIATES, INC. 3001 REDHILL AVE. Suite 6-206 COSTA MESA, CA 92626	SANTIAGO CREEK DAM-OUTLET TOWER EXTENSION PROJECT NO. 10216 DETAILS	SHEET 3 OF 3
					CHECKED	WC			A. TAVAS A. TAVAS RCE No. 36993 PROJECT ENGINEER 7-2-01			
					DATE	6/01			Carl V. Ballard CARL V. BALLARD DIRECTOR OF WATER OPERATIONS			
					SCALE	AS SHOWN						

AS BUILT AS BUILT 75-000



LEGEND
 ○ Denotes Pipe Sections Supplied by Owner
 ▨ Existing Concrete Structure

20' 0 20' 40'
 Scale: 1"=20'
 1' 0 1' 2' 3' 4' 5'
 Scale: 1/2"=1'-0"
 4' 0 4' 8'
 Scale: 1/4"=1'-0"

"AS BUILT"
 MC Number 2-1-70

INITIALS	REVISION	DATE	REV. NO.

LEEDS, HILL AND JEWETT, INC.
 CONSULTING ENGINEERS
 SAN FRANCISCO LOS ANGELES

DESIGNED: *JW*
 RECOMMENDED: *W.A. Brown* 7-18-69 DATE
 DRAWN: *M.P. Perez*
 CHECKED: *A.I. Rosznowski*
 APPROVED: *W.A. Brown* 7-29-69 DATE

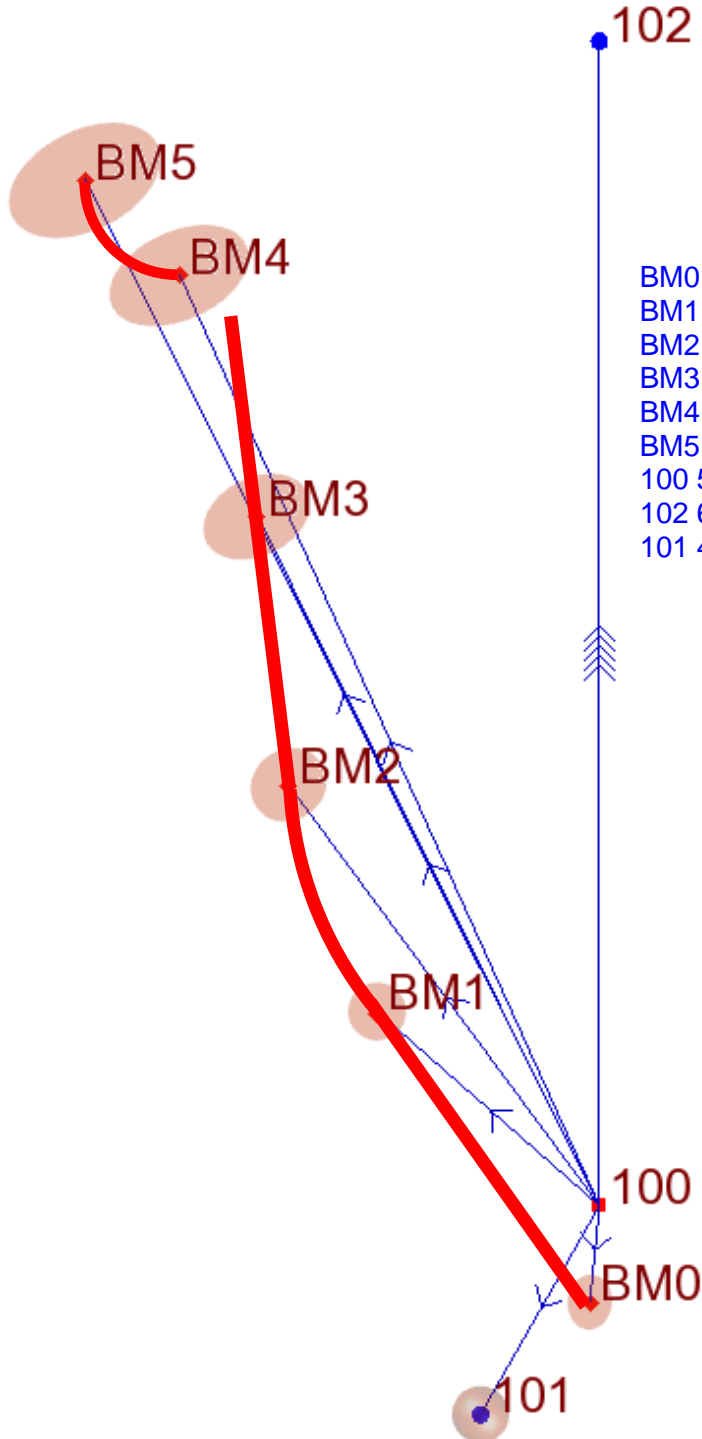
CARPENTER & SERRANO IRRIGATION DISTRICTS - THE IRVINE CO.
 SANTIAGO CREEK DAM
 OUTLET WORKS RECONSTRUCTION
 GENERAL ARRANGEMENT

JOB No. 202-01
 FILE No. 34
 SERIAL No. F-2482

CNC Survey Report

PROJECT: IRWD / Irvine Lake Dam – POSITION

Date: 5/12/2022



	Northing	Easting	Description
BM0	4875.15517	4987.45682	PIPE CONC CASING
BM1	5251.56217	4711.81611	PIPE CONC CASING
BM2	5544.92060	4597.16656	PIPE CONC CASING
BM3	5892.22949	4555.73901	PIPE CONC CASING
BM4	6204.53162	4455.17032	BAR TOP WALL
BM5	6327.72578	4332.91157	BAR TOP WALL
100	5000.00000	5000.00000	CP/FD 2"BD/BRASS NAIL
102	6505.07966	5000.00000	FD/2"BD OCS
101	4729.47526	4845.83675	FD/1"IP/BRASS NAIL



Teddy Ohana



Date: 5/12/2022

Sheet 2 of 3
SURVEY LEVELING NOTES

PROJECT: IRWD / Irvine Lake Dam – Level Report

STATION	B.S.	HI	F.S.	ELEVATION	SURVEY LEVELING NOTES
BM0				830.540	NAVD 88 Bench Elevation
	3.886	834.426			
TURN1			11.258	823.165	
	0.653	823.821			
100			15.181	808.638	DISC "MWD LS4339"
	9.406	818.047			
BM1			6.136	811.909	PIPE IN CONC CASING
	5.534	817.444			
BM2			5.691	811.750	PIPE IN CONC CASING
	5.108	816.861			
BM3			5.259	811.600	PIPE IN CONC CASING
	5.316	816.918			
BM4			1.528	815.386	BAR ON TOP OF WALL
	1.815	817.205			
BM5			1.582	815.620	BAR ON TOP OF WALL
	1.509	817.131			
BM4			1.744	815.386	
	1.650	817.037			
BM3			5.434	811.600	
	5.216	816.819			
BM2			5.069	811.750	
	5.777	817.527			
BM1			5.616	811.909	
	6.096	818.007			
100			9.368	808.638	
	15.434	824.073			
TURN1			0.906	823.165	
	11.338	834.505			
BM0			3.961	830.540	NAVD 88 Bench Elevation
					ALL ELEVATIONS ARE ADJUSTED

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