



**MONTGOMERY
& ASSOCIATES**

Water Resource Consultants

May 27, 2025

Langley Area, Eastside Aquifer, and Upper Valley Aquifer Subbasins Monitoring Well Construction, Development, Testing, Sampling, & Equipping

Prepared for:



1441 Schilling Place

Salinas, CA 93901

Prepared by:

Montgomery & Associates

201 Hoffman Ave, Suite 9

Monterey, CA 93940

Contents

1	INTRODUCTION	1
1.1	Background	1
1.2	Hydrogeologic Setting	1
1.3	Well Locations and Objectives.....	2
1.4	Field Program Chronology	3
2	MONITORING WELL INSTALLATION	6
2.1	Drilling and Construction	6
2.1.1	Direct Rotary Drilling	7
2.1.2	Hollow Stem Auger Drilling	8
2.2	Well Development	9
2.3	Well Completion	10
2.4	Monitoring Well Surveying	11
3	MONITORING WELL SAMPLING, TESTING, AND EQUIPPING.....	12
3.1	Groundwater Sampling.....	12
3.1.1	Sampling Methods.....	12
3.1.2	Results.....	12
3.2	Pneumatic Slug Testing.....	14
3.2.1	Testing Procedure	14
3.2.2	Pneumatic Slug Test Results.....	15
3.3	Well Equipping	16
4	REFERENCES	18
5	ACRONYMS & ABBREVIATIONS.....	19

Tables

Table 1. Water Quality Summary.....	13
Table 2. Summary of Estimated Hydraulic Conductivity from Pneuematic Slug Testing Analyses	16
Table 3. Transducer Specifications.....	17

Figures

Figure 1. Langley and Eastside Subbasin Monitoring Well Locations.....	4
Figure 2. Upper Valley Aquifer Subbasin Monitoring Well Locations	5

Figure 3. Standpipe Monument	10
Figure 4. Wellhead Manifold and Datalogging Pressure Transducer.....	15

Appendices

Appendix A. Well Permits, Geophysical, Caliper, and Lithologic Logs, Cuttings Photos, As-Built Diagrams, Well Completion Reports, Encroachment Permits, and Project Chronology	
Appendix B. Land Surveyor Data Sheets	
Appendix C. Laboratory Reports	
Appendix D. Pneumatic Slug Test Analysis	

1 INTRODUCTION

Montgomery & Associates (M&A) has prepared this report on behalf of the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to summarize the drilling, construction, development, testing, and equipping of 6 monitoring wells installed in the Langley Area (Langley), Eastside Aquifer (Eastside), Upper Valley Aquifer (Upper Valley), and 180/400-Foot Aquifer (180/400) Subbasins. Monitoring wells E-DA-2; L-GWL-2; L-GWL-6; UV-GWL-1; UV-ISW-1; and 180/400-GDE-1 were installed by SVBGSA to fill data gaps identified in the approved Eastside Subbasin Groundwater Sustainability Plan (GSP), Langley Subbasin GSP, and the Upper Valley Subbasin GSP. Monitoring well installation activities were funded by the Department of Water Resources (DWR) Sustainable Groundwater Management (SGM) Round 2 Implementation Grant.

The E-DA-2; L-GWL-2; L-GWL-6; UV-GWL-1; UV-ISW-1; and 180/400-GDE-1 locations are shown on Figure 1 and Figure 2. This report summarizes the well installation activities that occurred from August 2024 to March 2025.

1.1 Background

The Salinas Valley Groundwater Basin consists of 9 subbasins, 6 of which are located within Monterey County and are partially or entirely under the jurisdiction of the SVBGSA. The GSP established monitoring well networks to assess groundwater levels and interconnected surface water in the Langley, Eastside, and Upper Valley Subbasins. Based on GSP review, data gaps were identified within these networks. Initially, SVBGSA attempted to fill data gaps using existing wells in the Subbasin monitored by Monterey County Water Resources Agency (MCWRA). Re-evaluation of the monitoring networks indicated additional wells were needed. Installation of new monitoring wells was recommended to address the following:

- Areas where there was a low density of wells perforated solely in the Deep Aquifers
- Areas necessary to provide adequate data to produce seasonal groundwater elevation contour maps and to demonstrate conditions at subbasin boundaries
- An area where shallow groundwater may be interconnected with surface water along the Salinas River after conservation releases from the reservoirs come into the river

1.2 Hydrogeologic Setting

The Eastside Subbasin's sole principal aquifer is made up of 2 generalized water-bearing zones that have been recognized within the alluvial fan aquifer system: the Eastside Shallow Zone and the Eastside Deep Zone (SVBGSA, 2022a). These designations of Shallow and Deep have not

been identified as distinct aquifers by most investigators. They are only generalized zones of water-bearing sediments with time-correlated depositions that are somewhat hydraulically connected to the 180-Foot and 400-Foot Aquifers in the 180/400 Subbasin.

The Aromas Red Sands are the primary water-bearing formation in the Langley Subbasin (SVBGSA, 2022b). Near the Gabilan Range, some wells are completed in the weathered or decomposed surface of the granite. Well yields in the weathered or decomposed granite are variable, with many well yields not going over 5 gallons per minute. In the Hydrogeologic Conceptual Model Update (M&A, 2025), the weathered or decomposed granite is included as part of the principal aquifer because the bedrock surface is conceptualized as dipping downward more gradually from the surficial contacts at the Gabilan Range than previously thought.

The Upper Valley Subbasin's principal aquifer is unconfined and is represented by alluvium and the Paso Robles Formation (SVBGSA, 2022c), where deposits west of the Salinas River are typically coarser grained than those to the east. These primary water-bearing units are laterally equivalent to those found in the 180/400 and Forebay Aquifer (Forebay) Subbasins.

1.3 Well Locations and Objectives

The 6 new monitoring wells were installed to address the hydrogeologic conceptual model (HCM) data gaps identified in the GSP. Monitoring wells E-DA-2; L-GWL-2; L-GWL-6; and UV-GWL-1 were installed to fill data gaps in the groundwater level monitoring network. The wells were constructed with screened intervals in transmissive sediments of the Lower Paso Robles Formation, Decomposed Granite, and the Aromas Red Sands to obtain representative groundwater levels. Monitoring wells UV-ISW-1 and 180/400-GDE-1 were installed to fill data gaps in the interconnected surface water monitoring network and the groundwater dependent ecosystem network. UV-ISW-1 was installed near the Salinas River to assess the depletion of interconnected surface water.

UV-ISW-1 and UV-GWL-1 were installed on the south side of Bradley Road, east of the intersection with Highway 101 to the east of the Salinas River. 180/400-GDE-1 was installed on the north side of Somavia Road to the west of the intersection with Highway 101. L-GWL-2 was installed on the south side of San Juan Grade Road at the intersection with Crazy Horse Canyon Road. L-GWL-6 was installed on the east side of San Miguel Canyon Road north of the intersection with Strawberry Canyon Road. E-DA-2 was installed at the end of Christensen Road north of the intersection with Espinosa Road to the west of Highway 101.

1.4 Field Program Chronology

The following is a generalized chronological summary of key field program events:

1. August 6 – August 14, 2024: Drill, construct, and develop UV-ISW-1
2. August 12 – August 15, 2024: Drill, construct, and develop 180/400-GDE-1
3. October 21 – November 1, 2024: Drill, construct, and develop L-GWL-2
4. November 4 – November 15, 2024: Drill, construct, and develop L-GWL-6
5. November 18 – November 27, 2024: rill, construct, and develop UV-GWL-1
6. December 3 2024 – January 7, 2025: drill, construct, and develop E-DA-2
7. January 7 – January 10, 2025: Conduct groundwater sampling at E-DA-2; L-GWL-2; and UV-GWL-1
8. January 15 – January 17, 2025: Conduct pneumatic slug testing at E-DA-2; L-GWL-2; and UV-GWL-1
9. March 6, 2025: Install dedicated datalogging pressure transducers at E-DA-2; L-GWL-2; UV-ISW-1; and UV-GWL-1

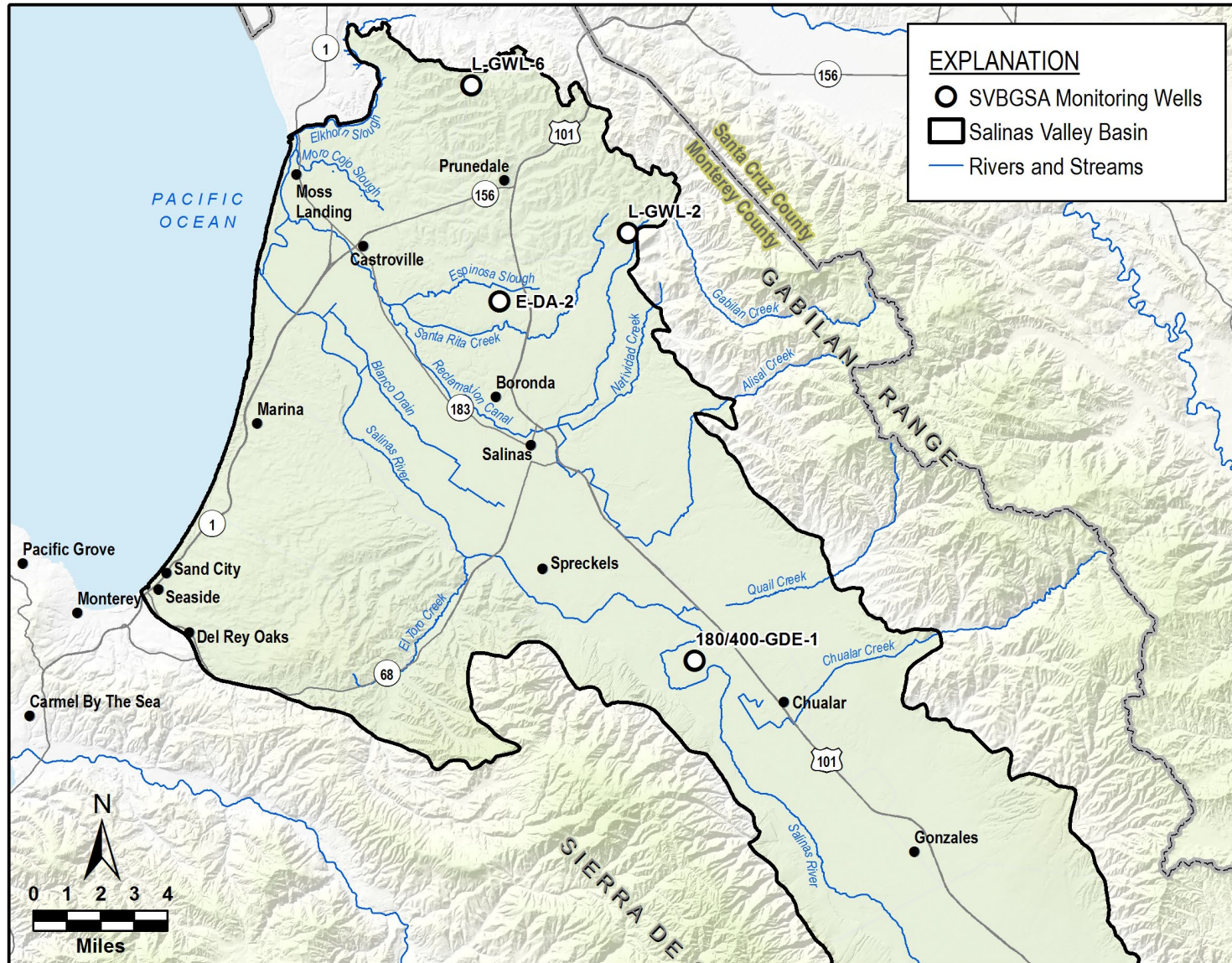


Figure 1. Langlely and Eastside Subbasin Monitoring Well Locations



2 MONITORING WELL INSTALLATION

This section describes monitoring well drilling, construction, and development. Well installation activities were completed in accordance with M&A's *Technical Specifications, Salinas Valley Basin Groundwater Sustainability Agency Langley Area, Eastside Aquifer, and Upper Valley Aquifer Subbasins Monitoring Well Construction and Development* (M&A, 2024a).

Well installation activities involved the following parties:

- Montgomery & Associates (M&A) – Contracted by SVBGSA for planning, field construction management services, groundwater quality sampling, pneumatic slug testing, and reporting of well installation activities.
 - Subtronic Corporation (Subtronic) – Contracted by M&A for underground utility locating services at the monitoring well sites prior to drilling operations.
- Parks Water Resources, LLC. (Parks) of Zamora, CA, a C-57 well driller licensed in the state of California – Contracted by SVBGSA for monitoring well drilling (mud rotary methods), construction, and development.
 - PeneCore Drilling (PeneCore) of Woodland, CA, a C-57 well driller licensed in the state of California – Subcontracted by Parks for monitoring well drilling (hollow stem auger method), construction, and development.
 - Stewart Well Logging Service (Stewart) – Contracted by Parks for geophysical and caliper logging services.
- Whitson Engineers (Whitson), a land surveyor licensed in the state of California – Contracted by SVBGSA for surveying rights-of-way and surveying monitoring well locations and elevations.

M&A observed most site activities associated with monitoring well installation and development. The following sections summarize activities observed by M&A and information provided to M&A by Parks, PeneCore, and Stewart.

2.1 Drilling and Construction

Monitoring wells E-DA-2; L-GWL-2; L-GWL-6; UV-GWL-1; UV-ISW-1; and 180/400-GDE-1 were installed in accordance with procedures described in State of California Water Well Standard Bulletins 74-81 (State of California, 1981) and 74-90 (State of California, 1991). Provided in Appendix A are copies of monitoring well construction permits obtained from the Monterey County Environmental Health Bureau.

2.1.1 Direct Rotary Drilling

Parks conducted the drilling, well construction, and development of new monitoring wells E-DA-2; L-GWL-2; L-GWL-6; and UV-GWL-1. The 10.625-inch diameter boreholes were advanced by direct rotary drilling methods using a GEFCO 50K drill rig. During drilling, a bentonite-based drilling fluid was used to maintain borehole stability. Following drilling activities at each location, drill cuttings and drilling fluids generated during drilling were removed from the sites for proper disposal.

During direct rotary drilling, Parks used a 10.625-inch diameter mill tooth bit, button bit, and drag bit as well as an 8-inch polycrystalline diamond compact bit and collected samples of drill cuttings off the shaker every 10 feet of vertical drilling. An M&A hydrogeologist maintained lithologic logs of all subsurface materials encountered and prepared chip trays with representative samples. Detailed lithologic logs and photographs of the chip trays are provided in Appendix A.

After reaching total depth on each of the pilot boreholes, Stewart conducted downhole geophysical surveys that included natural gamma radiation, spontaneous potential, short and long normal resistivities, and single point resistance. Results of the geophysical surveys are provided in Appendix A. Following the ream pass, Stewart conducted a caliper survey to measure the borehole's diameter and shape, the survey results of which are included in Appendix A.

2.1.1.1 Well Design

M&A and Stewart collected lithologic and geophysical data used to support well design. M&A interpreted multiple types of data together to determine the downhole lithology. This included the cuttings samples, observations made during drilling, and the geophysical survey results. The interpreted lithology of each borehole is included in Appendix A.

2.1.1.2 Well Construction

Monitoring wells E-DA-2; L-GWL-2; L-GWL-6; and UV-GWL-1 were constructed with nominal 4-inch diameter (3.8-inch inner diameter and 4.5-inch outer diameter), flush threaded, Schedule 80 poly vinyl-chloride (PVC) well casing and screen, with horizontal machine-cut 0.040-inch slots. The wells were completed with a 5-foot cellar with a stainless-steel threaded end cap. Casing centralizers were installed at the top and bottom of the screened interval and every 80 feet along the casing to ensure that it was centered in the borehole.

Following casing installation at each location, annular materials were placed from the bottom to the top of the borehole using a tremie pipe. From bottom to top, annular materials included hydrated bentonite tablets, 8 x 16 gradation filter media (provided by SRI Supreme), hydrated

bentonite tablets, high solids powdered bentonite grout, and neat cement with 2% bentonite. Placement of the annular seal at each location was approved by a Monterey County Environmental Health Bureau inspector who was present to witness placement of all annular seals. Well schematics for E-DA-2; L-GWL-2; L-GWL-6; and UV-GWL-1 are provided in Appendix A. Table 1 summarizes the as-built construction details for these monitoring wells.

Table 1. Well Construction Summary

	E-DA-2	180/400-GDE-1	L-GWL-2	L-GWL-6	UV-GWL-1	UV-ISW-1
Total Drilled Depth (feet)	1,300	45	345	350	200	105
Borehole Diameter (inches)	10.625	8	10.625	10.625	10.625	8
Completed Depth ^a (feet)	1,285	40	215	215	190	90
Casing Diameter (inches)	4 (nominal)	2 (nominal)	4 (nominal)	4 (nominal)	4 (nominal)	2 (nominal)
Casing Material	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC
Screened Interval (feet)	1,230-1,280	15-35	90-210	160-210	135-185	15-85
Filter Pack Material	8 x 16	8 x 16	8 x 16	8 x 16	8 x 16	8 x 16
Depth of Annular Seal (feet)	50	10	50	50	50	10
Static Water Level ^b (feet btoc)	193.30	N/A	38.35	N/A	47.29	29.90

Notes:

btoc – below top of casing

^aCompleted depth is defined as the bottom of the casing.

^bStatic water levels were measured on December 5, 2024.

2.1.2 Hollow Stem Auger Drilling

Drilling and well construction of new monitoring wells UV-ISW-1 and 180/400-GDE-1 was conducted by PeneCore. The 8-inch diameter boreholes were advanced by the hollow-stem auger method using a Geoprobe 8040DT drill rig. Following drilling activities, drill cuttings generated during drilling were removed from the site for proper disposal.

During hollow-stem auger drilling, PeneCore used an 8-inch auger bit and collected samples of the formation every 10 feet of vertical drilling using a split-spoon sampler. An M&A hydrogeologist maintained lithologic logs of all subsurface materials encountered and prepared chip trays with representative samples. Detailed lithologic logs and photographs of the chip trays are provided in Appendix A.

2.1.2.1 Well Design

M&A collected lithologic data used to support well design. The interpreted lithology of each borehole is included in Appendix A.

2.1.2.2 Well Construction

Monitoring wells UV-ISW-1 and 180/400-GDE-1 were constructed with nominal 2-inch diameter (1.9-inch inner diameter and 2.4-inch outer diameter), flush threaded, Schedule 80 PVC well casing and screen, with horizontal machine-cut 0.040-inch slots. The wells were completed with a 5-foot cellar and a stainless-steel threaded end cap.

Following casing installation at each location, annular materials were placed from the bottom to the top of the borehole using a tremie pipe. From bottom to top, annular materials included 8 x 16 gradation filter media (provided by SRI Supreme), hydrated bentonite tablets, and neat cement. Placement of the annular seal at UV-ISW-1 and 180/400-GDE-1 were approved by a Monterey County Environmental Health Bureau inspector who was present to witness the placement of the annular seal.

The well schematics for UV-ISW-1 and 180/400-GDE-1 are provided in Appendix A. As-built construction details are summarized in Table 1.

2.2 Well Development

Following construction, Parks completed well development at E-DA-2, L-GWL-2, and UV-GWL-1 after allowing a minimum of 24 hours for the sanitary seal to cure. Parks did not conduct well development at L-GWL-6 because saturated material was not encountered at that location from ground surface to a depth of 350 feet below ground surface. Initial development consisted of open-ended airlifting. Using a 1-inch airline and the well casing as an eductor pipe, airlifting was completed from the top of the well to the bottom until the discharge was free of drilling fluid and purge water was visibly clear. Fill generated during this process was removed from the bottom of the well by lowering the airline into the cellar section.

Following open-ended airlifting, E-DA-2, L-GWL-2, and UV-GWL-1 were further developed by swabbing while simultaneously airlifting. This process was completed from the top of the well screens to the bottom of the well using a 5-foot dual-swab tool composed of a perforated pipe equipped with two 4-inch diameter rubber flanges on either end. Swabbing and simultaneous airlifting was generally completed in 5-foot intervals until the discharge water became visibly clear.

Following construction, PeneCore completed well development at UV-ISW-1 after allowing a minimum of 24 hours for the sanitary seal to cure. Initial development consisted of open-ended airlifting. Using a 1-inch airline and the well casing as an eductor pipe airlifting was completed from the top of the well to the bottom until the discharge was free of drilling fluid and purge water was visibly clear. Fill generated during this process was removed from the bottom of the well by lowering the airline into the cellar section.

PeneCore did not conduct well development at 180/400-GDE-1 because shallow groundwater was not encountered during drilling.

2.3 Well Completion

As requested by MCWRA, each monitoring well was completed with a standpipe monument, and locking cover to prevent tampering. Figure 3 shows the UV-GWL-1 surface completion as an example. The standpipe monuments were protected using 3 traffic bollards. The State of California Well Completion Reports for each well are provided in Attachment A.



Figure 3. Standpipe Monument

2.4 Monitoring Well Surveying

Following installation of the surface completions, Whitson Engineers surveyed the location, land surface elevation, and top of casing reference point elevation at each monitoring well. Survey information is summarized in Table 2. Land surveyor data reports are provided in Appendix B.

Table 2. Monitoring Well Surveyed Elevations

Well	California State Plane Zone IV, NAD 83		Land Surface Elevation NAVD 88 (feet)	Measuring Point Elevation* NAVD 88 (feet)	Approximate Elevation at Top of Screen NAVD 88 (feet)	Approximate Elevation at Bottom of Screen NAVD 88 (feet)	Approximate Elevation of Groundwater Surface NAVD 88 (feet,)
	X Coordinate (feet)	Y Coordinate (feet)					
E-DA-2	5782413.26	2163912.40	122.58	125.11	-1,107.42	-1,157.42	-68.19
180/400-GDE-1	5808996.64	2106808.2	86.34	88.92	71.34	51.34	N/A
L-GWL-2	5799171.24	2174873.78	240.74	243.64	150.74	30.74	205.29
L-GWL-6	5776971.15	2198042.49	259.98	262.62	99.98	49.98	N/A
UV-GWL-1	6026440.53	1838712.52	533.24	536.29	398.24	348.24	489.00
UV-ISW-1	6026396.02	1838723.95	532.93	535.67	517.93	447.93	505.77

Notes:

NAVD = North American Vertical Datum

*Measuring point elevation or reference point elevation is marked on the north side of the casing in permanent marker.

3 MONITORING WELL SAMPLING, TESTING, AND EQUIPPING

Following well installation, groundwater sampling and aquifer testing was conducted at monitoring wells E-DA-2; L-GWL-2; and UV-GWL-1. Additionally, E-DA-2; L-GWL-2; UV-GWL-1; and UV-ISW-1 were equipped with pressure transducers to monitor changes in groundwater elevations over time. Sampling, testing and equipping activities are summarized in the following sections.

3.1 Groundwater Sampling

From January 7 to January 10, 2025, groundwater samples were collected from E-DA-2, L-GWL-2, and UV-GWL-1 for laboratory analysis. UV-ISW-1 was not sampled because the shallow groundwater quality in this area is well known. L-GWL-6 and 180/400-GDE-1 were not sampled because they are screened in zones that are currently unsaturated.

3.1.1 Sampling Methods

Groundwater samples were collected by M&A in coordination with Parks using the standard purge method. Prior to sample collection, Parks removed at least 3 casings volumes of groundwater at each well using a submersible pump.

Following collection, samples were delivered to the Monterey County Health Department Laboratory for irrigation suitability, arsenic, iron, and manganese analysis. Additionally, E-DA-2 was sampled for 1,2,3- TCP, and UV-GWL-1 was sampled for gross alpha radioactivity.

3.1.2 Results

A copy of the laboratory report is provided in Appendix C. Groundwater quality results are summarized in Table 1. As shown in Table 1, the sample from L-GWL-2 was reported above the primary maximum contaminant level (MCL) for nitrate and above the secondary MCL for conductivity, iron, manganese, and total dissolved solids (TDS). The sample from E-DA-2 was reported above the primary MCL for arsenic and above the secondary MCL for chloride, conductivity, manganese, and TDS. The sample from UV-GWL-1 was reported above the secondary MCL for conductivity, iron, manganese, sulfate, and TDS.

Table 3. Water Quality Summary

Analyte	L-GWL-2	E-DA-2	UV-GWL-1	State MCL	Secondary MCL	Units
Arsenic	2	26	4	10		ug/L
Boron	0.11	1.2	0.94			mg/L
Calcium	56	36	58			mg/L
Chloride	170	668	63		250	mg/L
Conductivity @ 25°C	1,020	2,530	1,380		900	umho/cm
Hardness	226	96.9	268			mg/L
Iron	1,440	193	359		300	ug/L
Magnesium	21	1.7	30			mg/L
Manganese	213	115	244		50	ug/L
Nitrate as NO3	57	<2	<1	45		mg/L
pH	6.4	6.7	6.6			pH
Potassium	8.3	3.1	3.9			mg/L
Sulfate	35	<2	366		250	mg/L
Sodium	112	454	198			mg/L
Total Alkalinity as CaCO3	149	152	242			mg/L
Total Dissolved Solids	650	1,360	895		500	mg/L
1,2,3-Trichloropropane	NA	ND	NA		0.005	ug/L
Gross Alpha Radiation	NA	NA	1.7		15	pCi/L

Notes:

MCL = maximum contaminant level

mg/L = milligrams per liter

ug/L = micrograms per liter

umhos/cm = micromhos per centimeter

pCi/L = picocuries per liter

Concentrations in red font exceed MCL.

Groundwater samples were collected at E-DA-2, L-GWL-2, and UV-GWL-1 to establish baseline water quality and collect information in the data gap areas. The high arsenic, chloride conductivity, manganese, and TDS results at E-DA-2 are comparable to recent water quality results reported at 180/400-DA-3 both of which are located near the Langley Subbasin boundary.

3.2 Pneumatic Slug Testing

Pneumatic slug testing was conducted at groundwater level monitoring wells E-DA-2, L-GWL-2, and UV-GWL-1 from January 15 to January 17, 2025. UV-ISW-1 and 180/400-GDE-1 were not tested because they are in connection with the shallow groundwater. L-GWL-6 was not tested because it is screened in a zone that is currently unsaturated. Pneumatic slug testing was conducted to refine aquifer properties in the groundwater model.

3.2.1 Testing Procedure

Prior to pneumatic slug testing, monitoring wells E-DA-2, L-GWL-2, and UV-GWL-1 were left undisturbed for at least 2 days following groundwater sampling activities. Pneumatic slug testing was conducted by applying air pressure to the sealed monitoring wells to lower the groundwater level in the wells. Testing comprised the pressurization and instantaneous depressurization of the water column in the monitoring wells, displacing a known volume of water in each well and measuring the imposed fluctuation (rise and oscillation) of the groundwater level.

Each monitoring well was equipped with a wellhead manifold and a datalogging pressure transducer (Figure 4) to measure water level response during testing. The dataloggers were programmed to record water levels at a rate of 1 reading per second. A minimum of 6 rising head pneumatic slug tests were conducted at each well to verify that the data were repeatable. Slugs of different air pressure were used at each location for comparative analysis. Monitoring of rising head continued until the water level recovered to within approximately 99% of the initial static water level.



Figure 4. Wellhead Manifold and Datalogging Pressure Transducer

3.2.2 Pneumatic Slug Test Results

Water level recovery data for rising head tests were analyzed to estimate hydraulic conductivity (K) using the aquifer test analytical software AQTESOLV (HydroSOLVE, 2015). The KGS method (Hyder *et al.*, 1994) was used to analyze the observed water level response at both wells. The water level response at E-DA-2, L-GWL-2, and UV-GWL-1 were all overdamped so the KGS analytical method was used. The overdamped response is characterized by increasing groundwater levels that do not oscillate. This response dictates the use of the KGS method because a good fit cannot be obtained using a physically plausible storage estimate and both wells are partially penetrating. The poor curve match at L-GWL-2 was noted and those results have lower certainty. L-GWL-2 is perforated in decomposed granite derived from the Gabilan Range. During development the screen at L-GWL-2 frequently became dewatered, so the low K value is not surprising.

For pneumatic slug tests, displacement (i.e., change in water level in the well) at a given time during the test (Ht) is normalized by the initial displacement (H0) as follows:

$$\text{normalized head} = H_t/H_0$$

The normalized head was plotted against time and matched against type curves of known horizontal K. Horizontal K was also estimated using a straight-line method (Hvorslev, 1951) to compare to the values estimated using type curves and to validate the results. Analytical results are presented as horizontal K in units of feet per day (ft/day). The horizontal K values from the slug tests at each well are considered representative of the aquifer near the well at the depth of their screened intervals. The Salinas Valley Deep Aquifers Study (M&A, 2024b) reviewed previous reports and data on aquifer flow properties and found that estimated hydraulic conductivity values in the Deep Aquifers range from 2 to 36 ft/day, with a geometric mean of about 10 ft/day. Therefore, the E-DA-2 values are within the range of expected values.

Table 4 summarizes the estimated horizontal K values for each analytical method and the arithmetic mean of values from both analytical methods. Graphs of observed water level response and the selected type curve for analysis are provided in Appendix D.

Table 4. Summary of Estimated Hydraulic Conductivity from Pneuematic Slug Testing Analyses

Well ID	Analytical Method	K (ft/day)	Analytical Method	K (ft/day)	Kavg (ft/day)
E-DA-2	KGS	12.8	Hvorslev	13.1	13.0
L-GWL-2 ¹	KGS	0.1	Hvorslev	0.1	0.1
UV-GWL-1	KGS	8.5	Hvorslev	6.8	7.6

Notes: ¹ Low certainty due to poor curve match

3.3 Well Equipping

On March 6, 2025, monitoring wells E-DA-2; L-GWL-2; UV-GWL-1; and UV-ISW-1 were equipped with In-Situ Level TROLL 500 datalogging pressure transducers to continuously measure groundwater levels. The pressure transducers were suspended in the wells using vented direct data cables.

The dedicated monitoring equipment was installed in each well based on static groundwater levels and depths of screened intervals. In the groundwater level monitoring network wells E-DA-2, L-GWL-2, and UV-GWL-1, the pressure transducers were placed approximately 200 feet below the static water level measured at each location except for where the desired submergence was not achievable. In the interconnected surface water monitoring network well UV-ISW-1, the pressure transducer was placed approximately 80 feet below top of casing (btoc), near the bottom of screened interval. Table 5 summarizes pressure transducer specifications and depths.

Table 5. Transducer Specifications

Monitoring Well	Screened Interval (feet btoc)	Static Groundwater Level (feet btoc)	Transducer Depth (feet btoc)	Range (ft H ₂ O)	Transducer Model
E-DA-2	1,230-1,280	193.3	393	692	Level TROLL 500
L-GWL-2	90-210	38.35	210	692	Level TROLL 500
UV-GWL-1	135-185	47.29	185	692	Level TROLL 500
UV-ISW-1	15-85	29.90	80	692	Level TROLL 500
180/400-GDE-1	15-35	N/A	35	692	Level TROLL 500

btoc – below top of casing

ft H₂O - feet of Water Column

4 REFERENCES

Hyder, Z., J.J. Butler, Jr., C.D. McElwee and W. Liu, 1994. Slug tests in partially penetrating wells, *Water Resources Research*, vol. 30, no. 11, pp. 2945-2957.

HydroSOLVE, Inc., 2015. AQTESOLV for Windows 95/98/Mc/NT/2000/XP/Vista:
HydroSOLVE, Inc., Reston, Virginia, version 4.51.010 – Professional.

Hvorslev, M.J., 1951. Time Lag and Soil Permeability in Ground-Water Observations, *Bull. No. 36, Waterways Exper. Sta. Corps of Engrs, U.S. Army, Vicksburg, Mississippi*, pp. 1-50.

Montgomery & Associates (M&A), 2024a. Technical Specifications, Salinas Valley Basin Groundwater Sustainability Agency Langley Area, Eastside Aquifer, and Upper Valley Aquifer Subbasins Monitoring Well Construction and Development. April 2024.

Montgomery & Associates, 2024b. Salinas Valley Deep Aquifers Study. Produced for the Salinas Valley Basin Groundwater Sustainability Agency. Available at:
https://svbgsa.org/wp-content/uploads/2024/05/Deep-Aquifers-Study-Report_no-appendices_compressed.pdf.

Montgomery & Associates, 2025. Salinas Valley Hydrogeological Conceptual Model Updates. March 2025.

Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA), 2022a. Eastside Aquifer Subbasin Groundwater Sustainability Plan. Prepared by Montgomery & Associates. Submitted to the California Department of Water Resources January 2022.

Salinas Valley Basin Groundwater Sustainability Agency, 2022b. Langley Area Subbasin Groundwater Sustainability Plan. Prepared by Montgomery & Associates. Submitted to the California Department of Water Resources January 2022.

Salinas Valley Basin Groundwater Sustainability Agency, 2022c. Upper Valley Aquifer Subbasin Groundwater Sustainability Plan. Prepared by Montgomery & Associates. Submitted to the California Department of Water Resources January 2022.

State of California, 1981. Water Well Standards: State of California, Bulletin 74-81. December 1981.

State of California, 1991. Water Well Standards: State of California, Bulletin 74-90. June 1991.

5 ACRONYMS & ABBREVIATIONS

180/400	180/400-Foot Aquifer
bgs	below ground surface
btoc	below top of casing
DWR	Department of Water Resources
Eastside	Eastside Aquifer
ft/d	feet per day
GSP	Groundwater Sustainability Plan
HCM	hydrogeologic conceptual model
Langley	Langley Area
M&A	Montgomery & Associates
MCL	maximum contaminant level
MCWRA	Monterey County Water Resources Agency
mg/L	milligrams per liter
Parks	Parks Water Resources
PeneCore	PeneCore Drilling
pCi/L =	picocuries per liter
PVC	polyvinyl chloride
SGM	Sustainable Groundwater Management
Stewart	Stewart Well Logging Services
Subtronic	Subtronic Corporation
SVBGSA	Salinas Valley Basin Groundwater Sustainability Agency
TDS	total dissolved solids
Upper Valley ..	Upper Valley Aquifer
ug/L	micrograms per liter
umhos/cm	micromhos per centimeter
Whitson	Whitson Engineering

Appendix A

**Well Permits, Geophysical, Caliper, and Lithologic Logs,
Cuttings Photos, As-Built Diagrams, Well Completion
Reports, Encroachment Permits, and Project Chronology**

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000015 (200-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Bradley Site 9

EXPIRATION DATE: 7/27/2025

Lat: 35.86418° N; Long: -120.80630°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

Well permit #25-000015

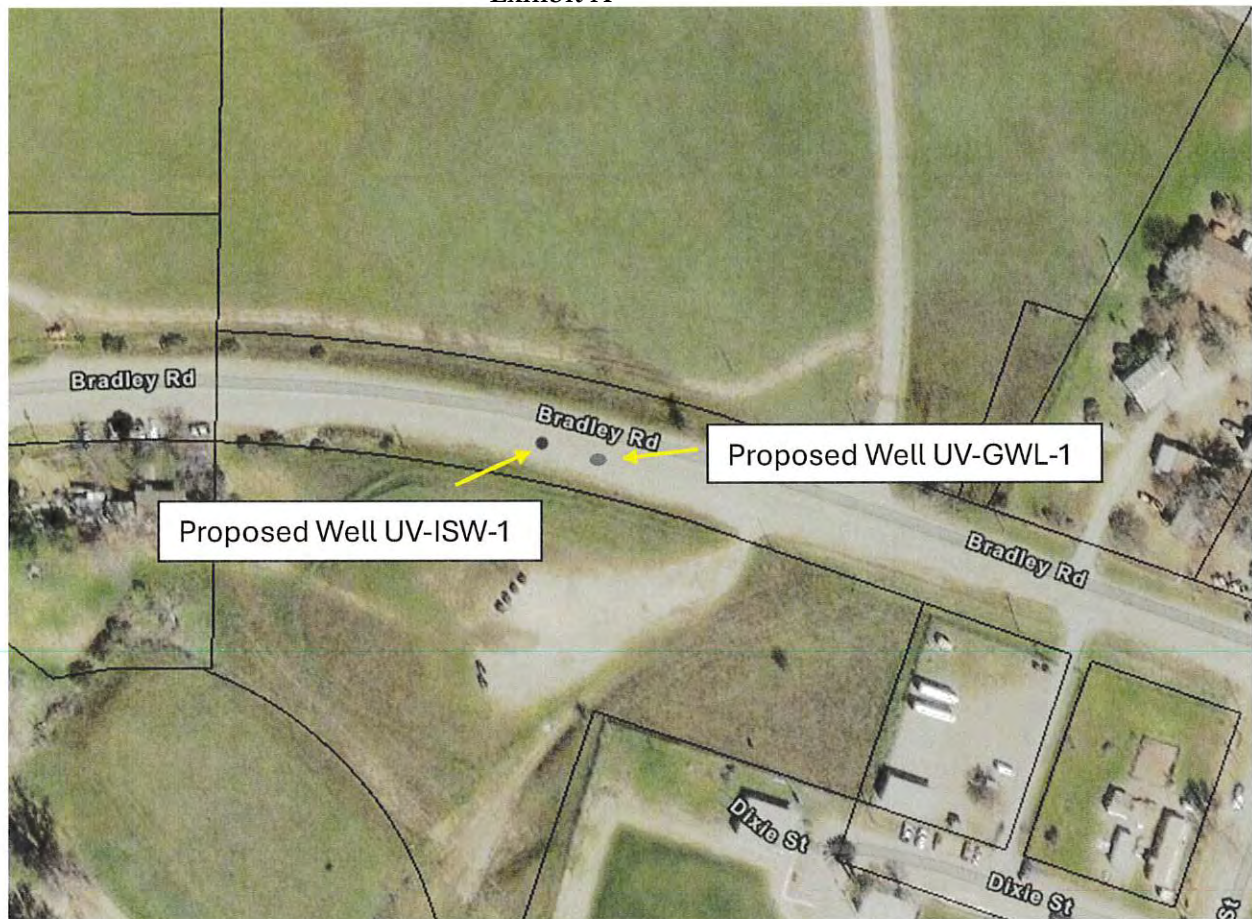
Owner: County Road Easement

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211278 Paid 7/25/2024

Well Permit #25-000015-(24)
Exhibit A



SVBGSA – Upper Valley Aquifer

County right-of-way on the South side of
Bradley Road East of the intersection with
Highway 101, to the east of the Salinas River

GPS 35.86422, -120.80636
Mud Rotary Site

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000019 (80-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Somavia Site 8

EXPIRATION DATE: 7/27/2025

Lat: 36.586893° N; Long: -121.563973°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211282 Paid 7/25/2024



SVBGSA – 180-400 Area

County right-of-way on the North side of
Somavia Road To the west of Blue Star
Memorial HWY (HWY 101)

GPS 36.586893, -121.563973

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT AMENDMENT

WELL PERMIT: #25-000016-(24), AMENDMENT #1 ISSUANCE DATE: 7/27/2024

SITE LOCATION: San Juan Grade Site 2

AMENDMENT DATE: 9/16/2024

Lat 36.773069, -121.603560

EXPIRATION DATE: 7/27/2025

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: PO Box 1350

PHONE: (831) 331-3814

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, R.E.H.S.

CONDITION OF APPROVAL:

5. The original Exhibit A has been amended to be replaced by the attached Exhibit A1 showing the new approved location.

Please note: All other conditions in the original permit remain unchanged.

END

Well Permit # 25-000016 - (24)
Exhibit A1

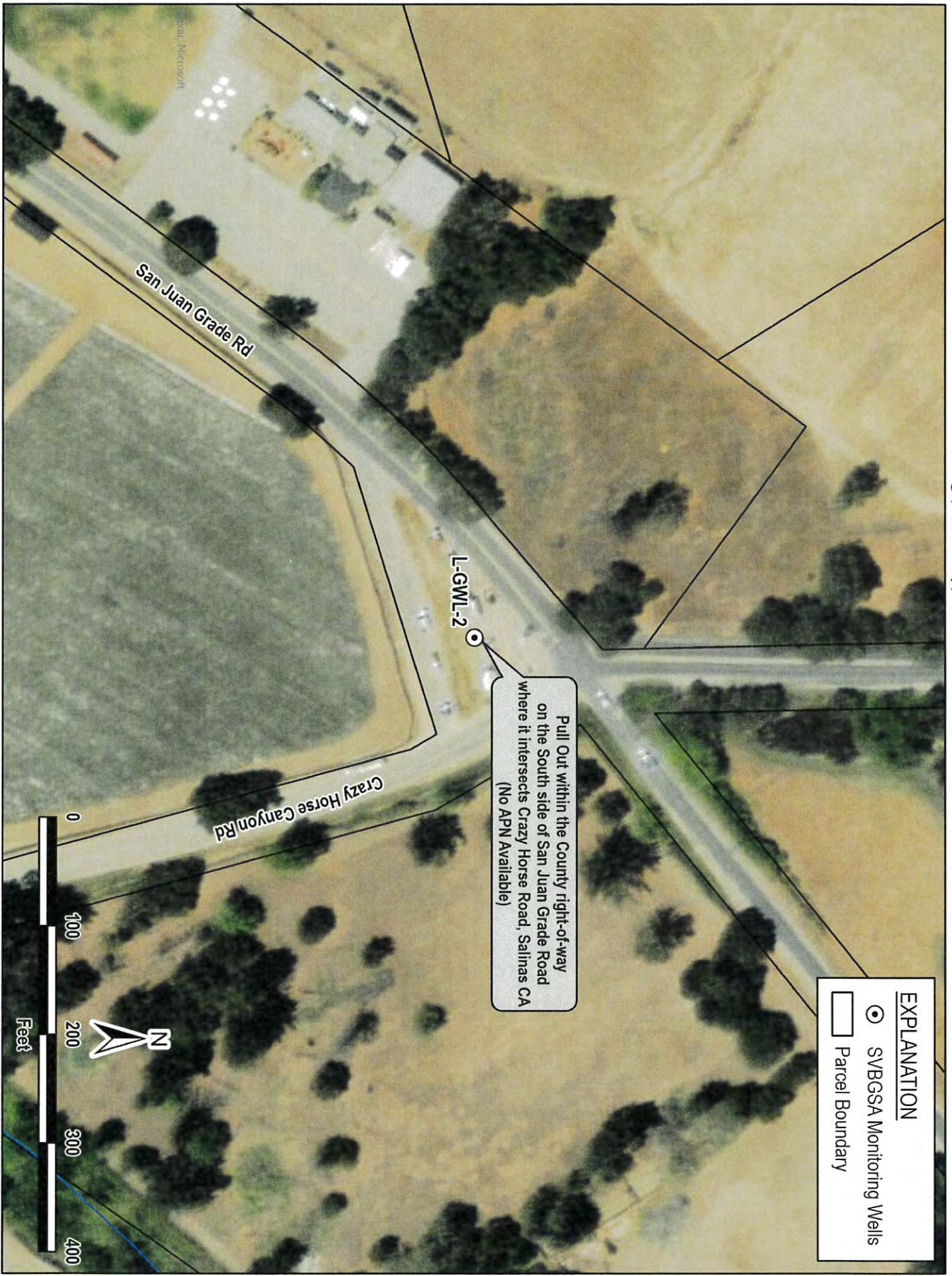


Figure 2. L-GWL-2

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000016 (350-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: San Juan Grade Site 2

EXPIRATION DATE: 7/27/2025

Lat: 36.770558° N; Long: -121.606113°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: Christie T. Vo

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211279 Paid 7/25/2024



SVBGSA – Langley Area

County right-of-way on the Southeast side of
San Juan Grade Road South of the intersection
with Crazy Horse Canyon Road

GPS 36.770558, -121.606113

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000018 (350-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Strawberry Canyon Site 1

EXPIRATION DATE: 7/27/2025

Lat: 36.832291° N; Long: -121.692295°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

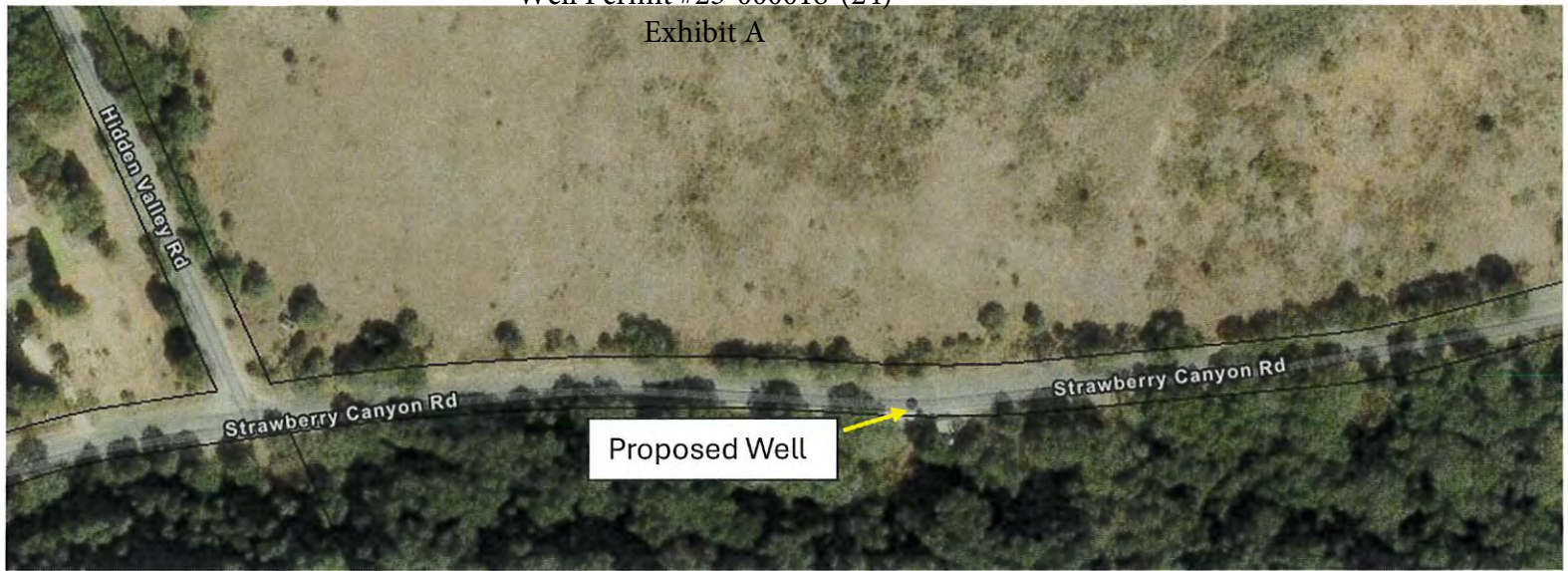
Well permit #25-000018

Owner: County Road Easement

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211281 Paid 7/25/2024



SVBGSA – Langley Area

County right-of-way on the South side of Strawberry Canyon Road To the east of intersection with Hidden Valley Road Near Royal Oaks in

GPS 36.832291, -121.692295

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT AMENDMENT

WELL PERMIT: #25-000018, AMENDMENT #1 ISSUANCE DATE: 7/27/2024
SITE LOCATION: Strawberry Canyon Site 1 AMENDMENT DATE: 8/30/2024
GPS Coordinates: 36.834951, -121.681607 ((L-GWL-6) EXPIRATION DATE: 7/27/2025
PROPERTY OWNER: County Road Easement
APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)
ADDRESS: PO Box 1350 PHONE: (831) 331-3814
CITY: Carmel Valley
DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO
Christie T. Vo, R.E.H.S.

CONDITION OF APPROVAL:

5. The original Exhibit A has been amended to be replaced by the attached Exhibit A1 showing the new approved location.

Please note: All other conditions in the original permit remain unchanged.

END

Well Permit #25-000018
Exhibit A1

Lat: 36.83496° N
Lon: 121.6816° W

127391008000

127391007000

127391006000

129112006000

129121021000

129121020000

129121019000

129121002000

129121013000

129121018000

Maxar, Microsoft

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000014 (105-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Bradley Site 10

EXPIRATION DATE: 7/27/2025

Lat: 35.864252° N; Long: -120.806484°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211277 Paid 7/25/2024



SVBGSA – Upper Valley Aquifer

County right-of-way on the South side of
Bradley Road East of the intersection with
Highway 101, to the east of the Salinas River

GPS 35.864252, -120.806484

Auger HSA Site

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT

WELL PERMIT: #25-000017 (1300-FT)

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Espinosa Site 3

EXPIRATION DATE: 7/27/2025

Lat: 36.739446° N; Long: -121.673784°W

INTENDED USE: GSA Monitoring Well Project

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

Christie T. Vo, REHS

PROJECT DESCRIPTION:

This well permit authorizes the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) to install a monitoring well subject to the conditions of approval set forth herein. The project consists of a monitoring well to evaluate hydrological information. The issuance of this permit is exempt from the California Environmental Quality Act pursuant to 14 CCR section 15300.

CONDITION OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90 and shall comply with all the conditions of approval of this permit.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.

3. Location of the well shall not prevent the installation, relocation or expansion of the septic system on any adjoining lot.
4. Water well permit shall be kept on site at all times while work is in progress.
5. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The Owner and Applicant shall defend, indemnify and hold harmless the County and its officers, agents, and employees from and against any and all actions or claims of any description brought on account of approval of this permit or any injury or damages sustained by any person or property resulting from the issuance of the permit or the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a water well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not guarantee that the well can be approved for domestic use.
13. A geologic log shall be performed and it shall be submitted to the EHB to review before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3rd party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

IN1211280 Paid 7/25/2024



SVBGSA – Eastside Aquifer

County right-of-way on the North side of
Espinosa Road To the west of the intersection
with Highway 101

GPS 36.739462, -121.673780

MONTEREY COUNTY

**DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH BUREAU
1270 Natividad Road
Salinas, CA 93906
(831) 755-4507**



MONITORING WELL CONSTRUCTION PERMIT AMENDMENT

WELL PERMIT: 25-000017, AMENDMENT #1

ISSUANCE DATE: 7/27/2024

SITE LOCATION: Christensen Road Site 3

AMENDMENT DATE: 12/3/2024

36.741693 N, 121.659853 W

EXPIRATION DATE: 7/27/2025

PROPERTY OWNER: County Road Easement

APPLICANT: SVBGSA (Salinas Valley Basin Groundwater Sustainability Agency)

ADDRESS: P.O. Box 1350

PHONE: (831) 277-1807

CITY: Carmel Valley, CA

DRILLING CONTRACTOR: Parks Water Resources LICENSE: 1113206

ISSUED BY: CHRISTIE VO

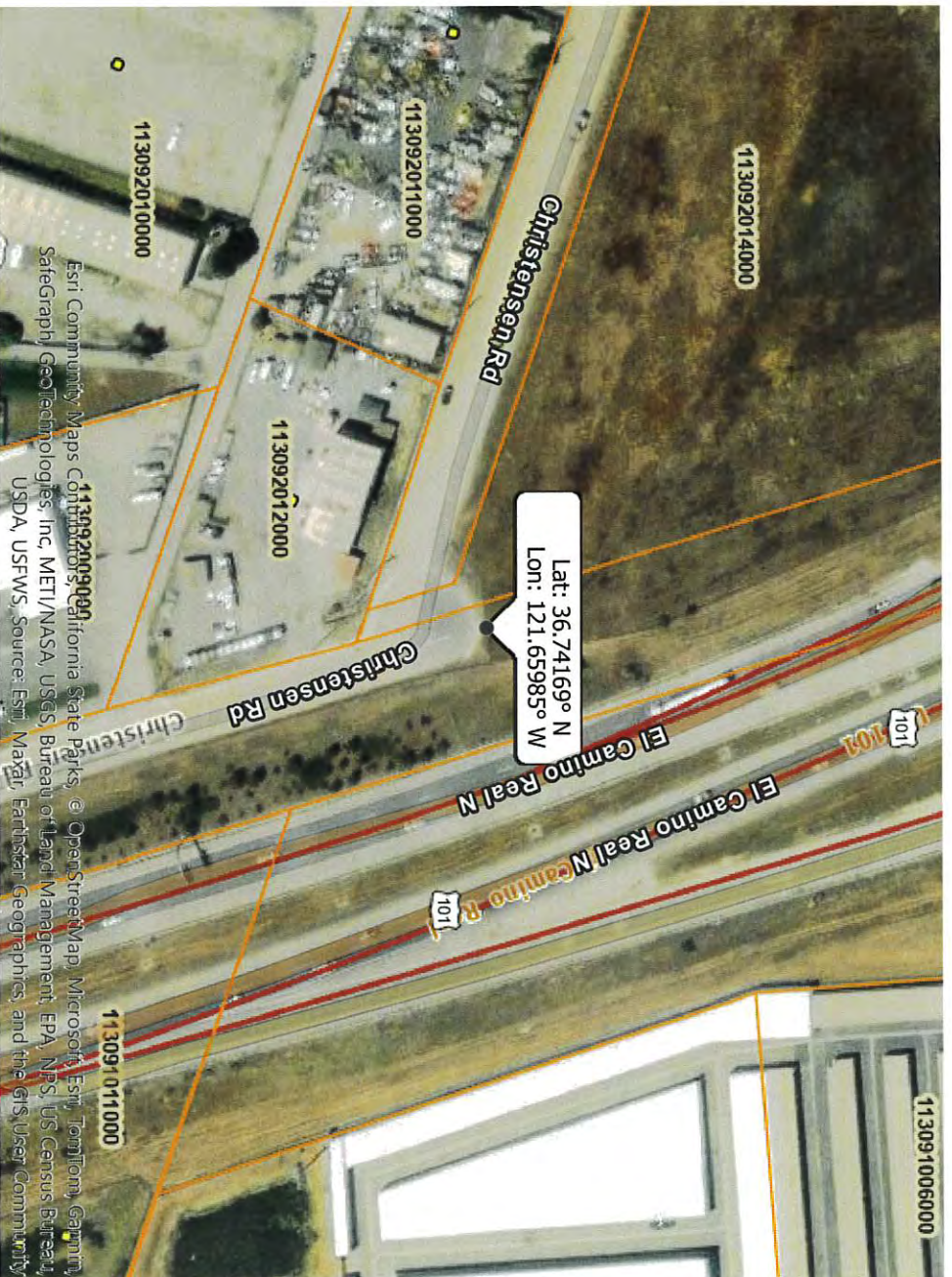
Christie T. Vo, R.E.H.S.

CONDITION OF APPROVAL:

5. The original Exhibit A has been amended to be replaced by the attached Exhibit A1 showing the new approved location.

Please note: All other conditions in the original permit remain unchanged.

END

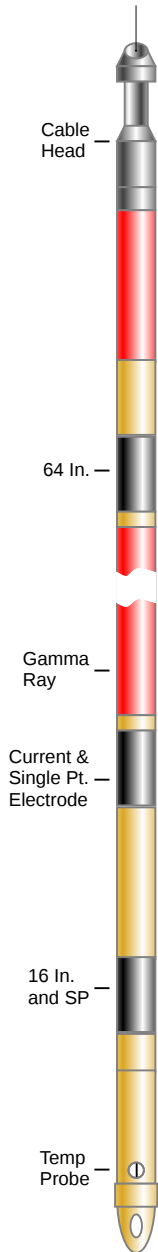


Permit # 25- 000017 - (24)
Exhibit A1

		ELECTRIC - GAMMA RAY-TEMPERATURE LOG	
Stewart Well Logging Service			
· Phone: (530)908-6928 · Email: stewartwelllogging@gmail.com			
Filing No.	COMPANY <u>Parks Water Resources</u>		
	WELL <u>L-GW-2</u>		
	FIELD <u>Salinas</u>		
	STATE <u>California</u> COUNTY <u>Monterey</u>		
	LOCATION: 26' South of San Juan Grade Rd. & 185' West Of Crazy Horse Canyon Rd.		OTHER SERVICES: None
Job No. 1892	SEC: <u>26</u> TWP: <u>13S</u> RGE: <u>03E</u> LAT.: <u>36.7730508</u> LONG.: <u>-121.6037651</u>		
Permanent Datum: <u>Top of Casing</u> Elev.: <u>240</u> Ft. Elevs.: K.B. <u> </u> Ft. Log Measured From: <u>Top of Casing</u> , <u>0</u> Ft. Above Perm. Datum D.F. <u> </u> Ft. Drilling Measured From: <u>Ground Level</u> G.L. <u>240</u> Ft.			
Run	One		
Date	Oct 23, 2024		
Depth-Driller	342	Ft	
Depth-Logger	342	Ft	
Top Logged Interval	9	Ft	
Btm Logged Interval	342	Ft	
Casing-Driller	In @	Ft	
Casing - Logger In@Ft	In @	Ft	
Bit Size	8.75	In @ 342	
Time On Bottom	1749		
Type Fluid in Hole	Bentonite		
Density			
Viscosity			
pH			
Fluid Loss			
Source of Sample	Circ.		
Rm @ Mea. Temp	9.7	@ 75	
Rmf @ Mea. Temp	9.6	@ 75	
Rmc @ Mea. Temp	6.8	@	
Source Rmf			
Rmc			
Rm @ BHT	91	@	
Time Since Circ.	1	Hr	
Max. Rec. Temp.	91.5	°F	
Van No.			
Location	SWLS-2 WOODLAND		
Recorded By	Stewart		
Witnessed By	T.Parks		

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

NORMAL RESISTIVITY LOGS:

Normal Resistivity Logs record the electrical resistivity of the borehole environment with lower resistivities indicative of clays and higher resistivities being sands and gravels. Normal resistivity logs are affected by bed thickness, Borehole diameter and borehole fluid.

SINGLE POINT RESISTIVITY LOGS:

Single Point Resistivity Logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones.

GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

TEMPERATURE LOGS:

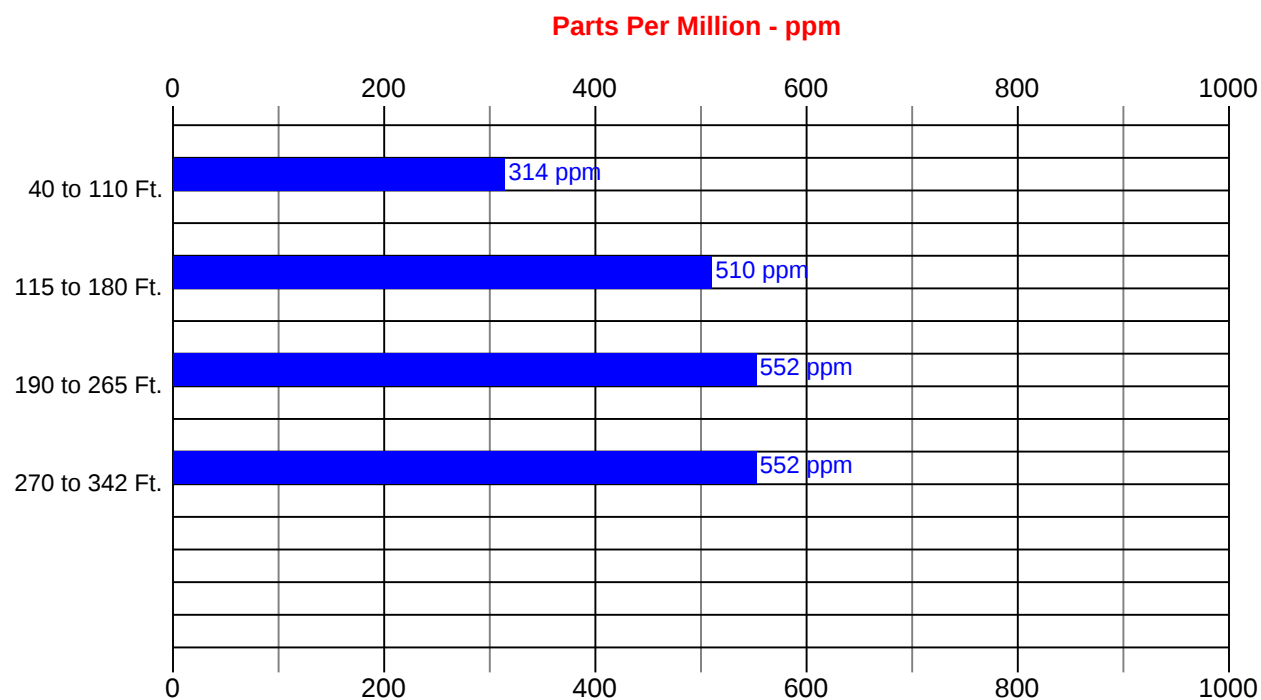
Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

ELECTRIC LOG SPECIFICATIONS:

Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

TOTAL DISSOLVED SOLIDS

* NaCl 



TDS Classes

Class 1: Excellent to Good – Less than 700 ppm

Class 2: Good to Injurious – 700 to 2000 ppm

Class 3: Injurious to Poor – More than 2000 ppm

NaCl = Sodium Chloride

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Parks Water Resources
L-GW-2
Oct 23, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (20 mV/div) S.P. + >

Gamma Ray(api)

200 64 Inch Normal (ohmm²/m) x10 2000

64 Inch Normal (ohmm²/m)

200 16 Inch Normal (ohmm²/m) x10 2000

16 Inch Normal (ohmm²/m)

Single Point(ohms)

Temperature (°F)

50'

100'

150'

181'

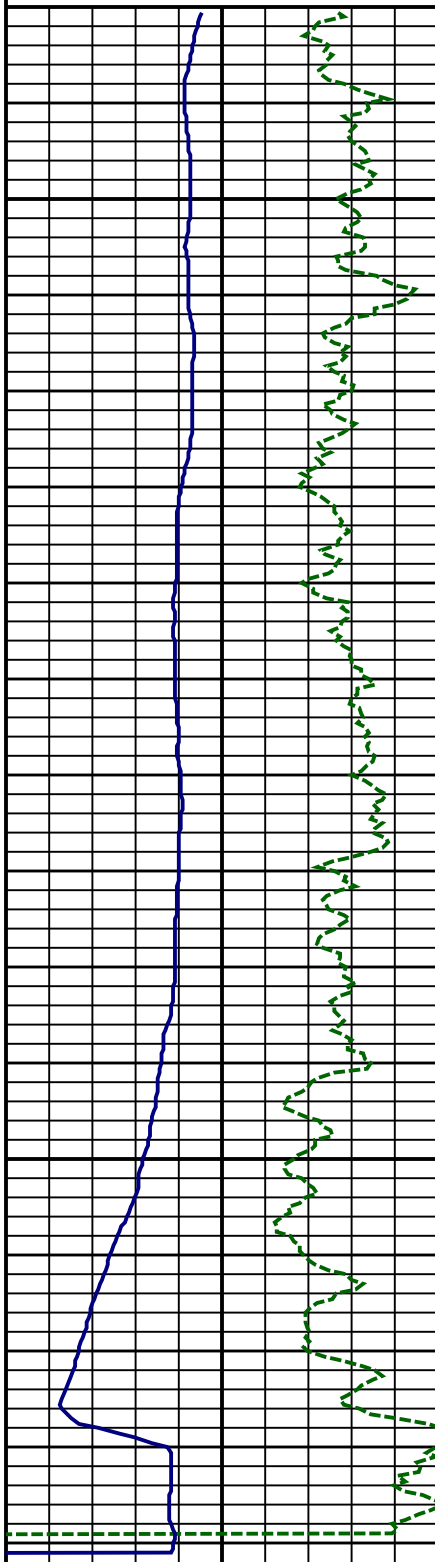
Parks Water Resources
L-GW-2
Oct 23, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (20 mV/div) S.P. + >

0 Gamma Ray(api) 200



181'

200'

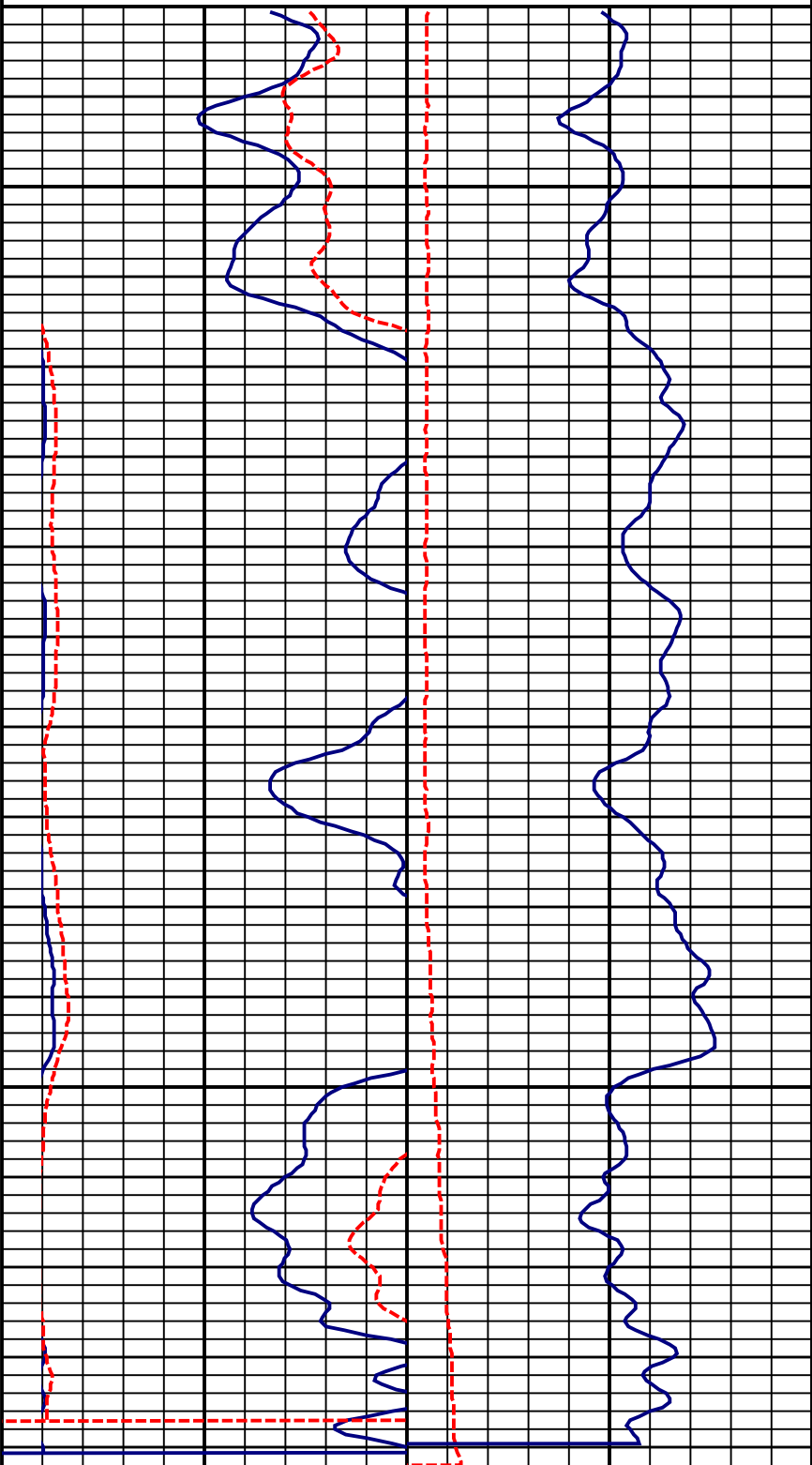
250'

300'

Log Depth 341.5'

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

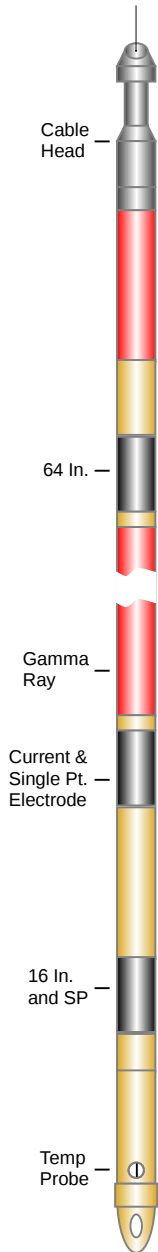
200 64 Inch Normal (ohmm²/m) x10 2000
64 Inch Normal (ohmm²/m) 200
200 16 Inch Normal (ohmm²/m) x10 2000 0 Single Point(ohms) 100
0 16 Inch Normal (ohmm²/m) 200 90 Temperature (°F) 100



		ELECTRIC - GAMMA RAY-TEMPERATURE LOG	
Stewart Well Logging Service			
Filing No.	COMPANY <u>Parks Water Resources</u>		
	WELL <u>San Miguel Canyon Rd</u>		
	FIELD <u>Royal Oaks</u>		
	STATE <u>California</u> COUNTY <u>Monterey</u>		
	LOCATION:		OTHER SERVICES: None
Job No. 1861	SEC: _____ TWP: _____ RGE: _____ LAT.: <u>36.8349797</u> LONG.: <u>-121.6816303</u>		
Permanent Datum: <u>Ground Level</u> Elev.: <u>237</u> Ft. Elevs.: K.B. _____ Ft. Log Measured From: <u>Ground Level</u> , <u>0</u> Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: <u>Ground Level</u> G.L. <u>237</u> Ft.			
Run	One		
Date	Nov 06, 2024		
Depth-Driller	350	Ft	
Depth-Logger	351	Ft	
Top Logged Interval	10.5	Ft	
Btm Logged Interval	351	Ft	
Casing-Driller	In @	Ft	
Casing - Logger In@Ft	In @	Ft	
Bit Size	8-3/4 In @ 351	Ft	
Time On Bottom	1121		
Type Fluid in Hole	Bentonite		
Density	Viscosity		
pH	Fluid Loss		
Source of Sample	Lift Pump		
Rm @ Mea. Temp	12 @ 75	°F	
Rmf @ Mea. Temp	12.1 @ 75	°F	
Rmc @ Mea. Temp	8.2 @	°F	
Source Rmf	Rmc	Meas	
Rm @ BHT	73 @	°F	
Time Since Circ.	1	Hr	
Max. Rec. Temp.	73	°F	
Van No.	Location	SWLS-1	
Recorded By	Paschke		
Witnessed By	T.Parks		

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

NORMAL RESISTIVITY LOGS:

Normal Resistivity Logs record the electrical resistivity of the borehole environment with lower resistivities indicative of clays and higher resistivities being sands and gravels. Normal resistivity logs are affected by bed thickness, Borehole diameter and borehole fluid.

SINGLE POINT RESISTIVITY LOGS:

Single Point Resistivity Logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones.

GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

TEMPERATURE LOGS:

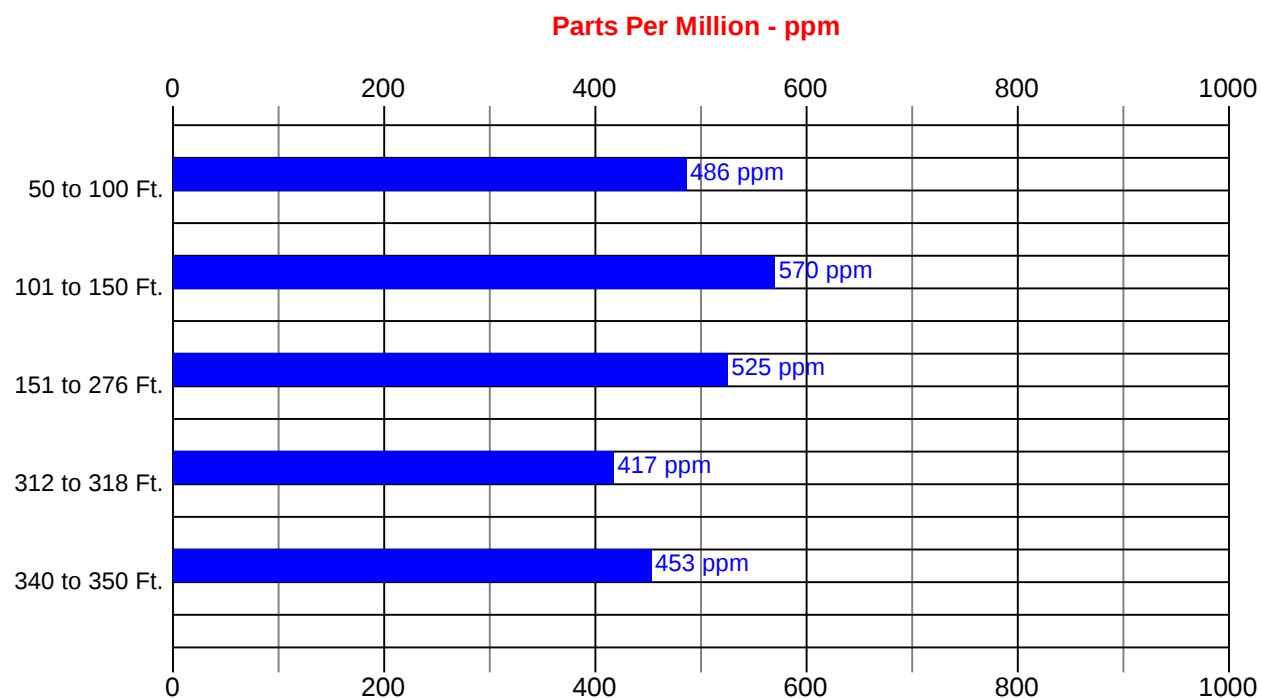
Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

ELECTRIC LOG SPECIFICATIONS:

Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

TOTAL DISSOLVED SOLIDS

* NaCl 



TDS Classes

Class 1: Excellent to Good – Less than 700 ppm

Class 2: Good to Injurious – 700 to 2000 ppm

Class 3: Injurious to Poor – More than 2000 ppm

NaCl = Sodium Chloride

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

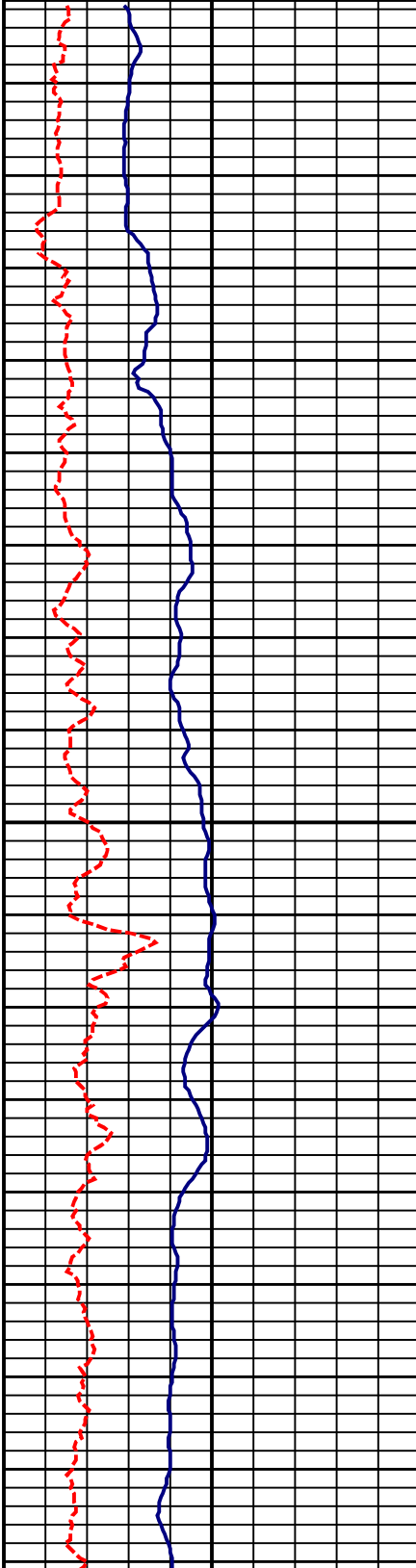
REMARKS

Parks Water Resources
San Miguel Canyon Rd
Nov 06, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Gamma Ray(api) 200
< - S.P. (10 mV/div) S.P. + >



50'

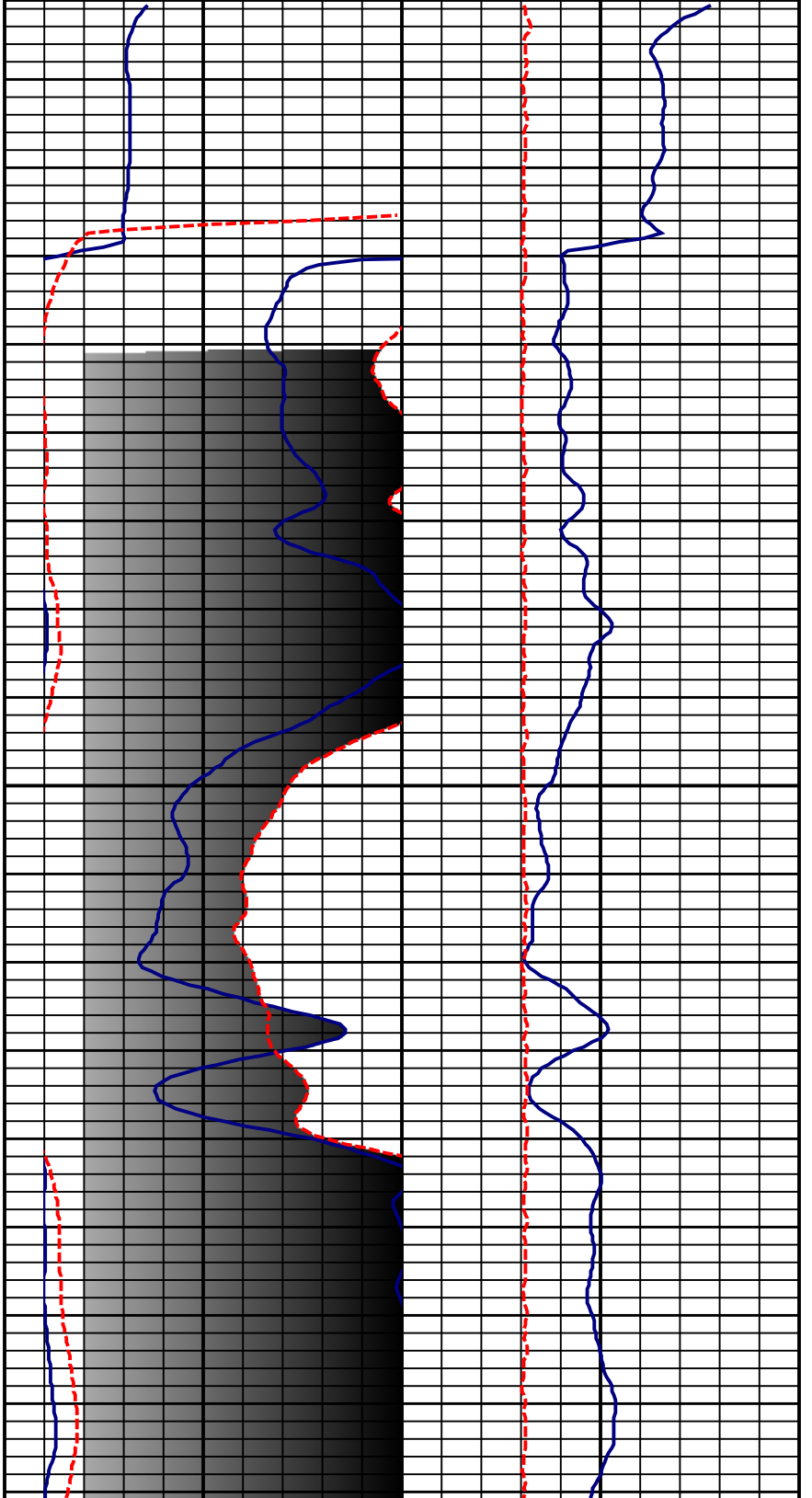
100'

150'

181'

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

100 64 Inch Normal (ohmm²/m) x10 1000
64 Inch Normal (ohmm²/m) 100
100 16 Inch Normal (ohmm²/m) x10 1000 70
16 Inch Normal (ohmm²/m) 100 0
Temperature (°F) 80
Single Point(ohms) 100

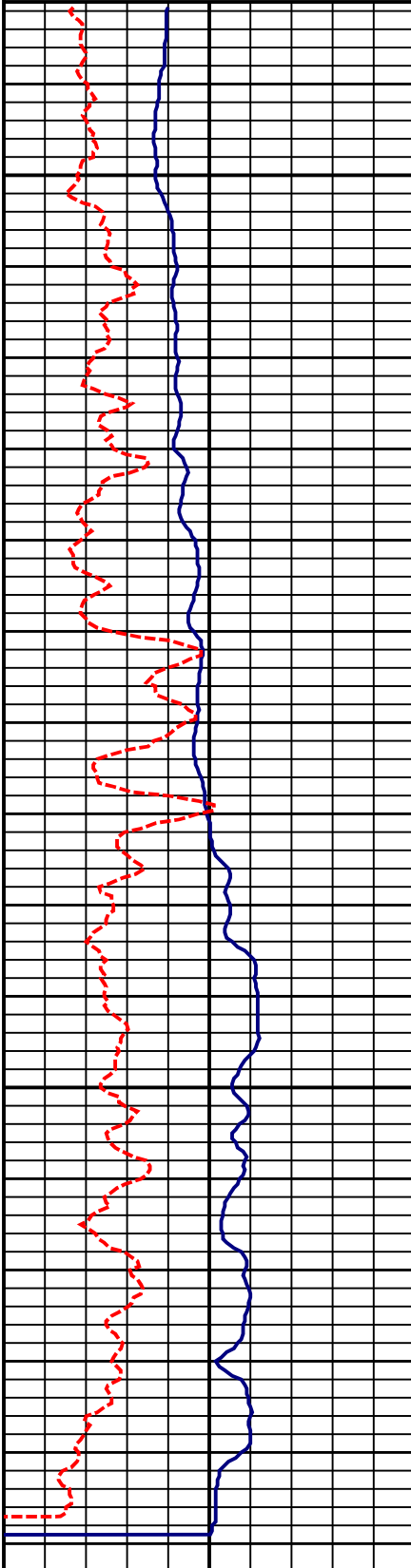


Parks Water Resources
San Miguel Canyon Rd
Nov 06, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

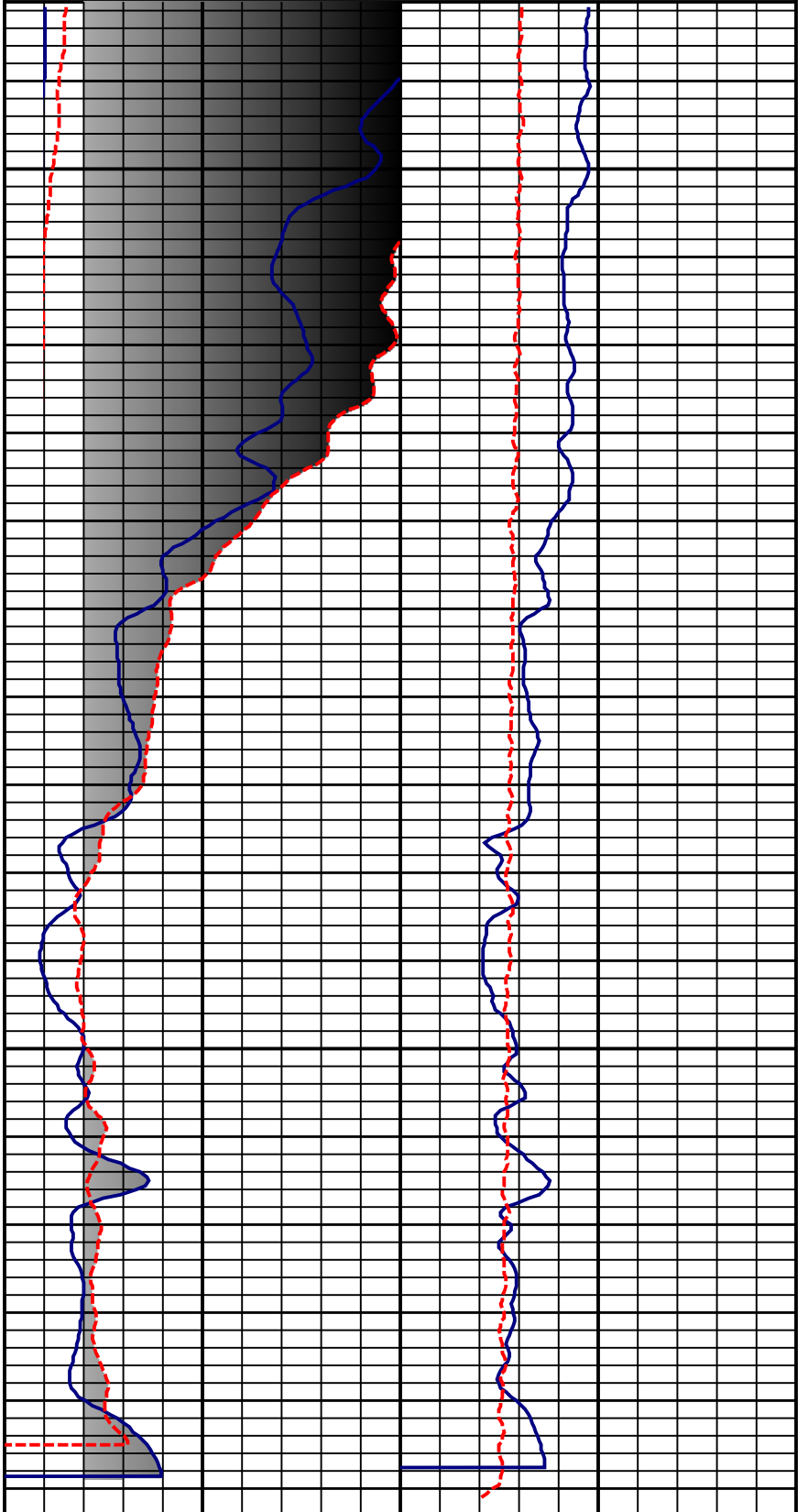
0 Gamma Ray(api) 200
< - S.P. (10 mV/div) S.P. + >



Log Depth 351'

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

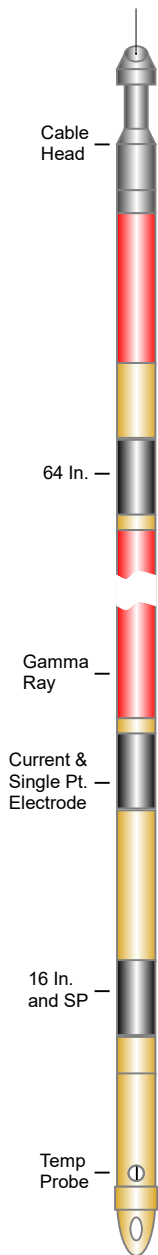
100 64 Inch Normal (ohmm²/m) x10 1000
0 64 Inch Normal (ohmm²/m) 100
100 16 Inch Normal (ohmm²/m) x10 1000 70
0 16 Inch Normal (ohmm²/m) 100 0 Temperature (°F) 80
Single Point(ohms) 100



 ELECTRIC - GAMMA RAY-TEMPERATURE LOG			
Stewart Well Logging Service			
· Phone: (530)908-6928 · Email: stewartwelllogging@gmail.com			
Filing No.	COMPANY Parks Water Resources		
	WELL UV-GWL-1		
	FIELD Bradley		
	STATE California COUNTY Monterey		
	LOCATION:		OTHER SERVICES: X-Y Caliper
Job No. 1928	SEC: 08 TWP: 24S RGE: 11E LAT.: 35.8641860 LONG.: -120.8063376		
Permanent Datum: Ground Level Elev.: 531 Ft. Elevs.: K.B. _____ Ft. Log Measured From: Ground Level , 0 Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: Ground Level G.L. 531 Ft.			
Run	One		
Date	Nov 20, 2024		
Depth-Driller	200 Ft		
Depth-Logger	200 Ft		
Top Logged Interval	9 Ft		
Btm Logged Interval	200 Ft		
Casing-Driller	In @ Ft	In @ Ft	In @ Ft
Casing - Logger In@Ft	In @ Ft	In @ Ft	In @ Ft
Bit Size	10.625 In @ 200 Ft	In @ Ft	In @ Ft
Time On Bottom	1420		
Type Fluid in Hole	Bentonite		
Density	Viscosity		
pH	Fluid Loss	ml	ml
Source of Sample	Lift Pump		
Rm @ Mea. Temp	9.2 @ 75 °F	@ °F	@ °F
Rmf @ Mea. Temp	9.1 @ 75 °F	@ °F	@ °F
Rmc @ Mea. Temp	6.5 @ °F	@ °F	@ °F
Source Rmf	Meas.		
Rm @ BHT	85 @ °F	@ °F	@ °F
Time Since Circ.	1 Hr	Hr	Hr
Max. Rec. Temp.	85.5 °F	°F	°F
Van No.	Location	SWLS-2 WOODLAND	
Recorded By	Stewart		
Witnessed By	T.Parks		

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

NORMAL RESISTIVITY LOGS:

Normal Resistivity Logs record the electrical resistivity of the borehole environment with lower resistivities indicative of clays and higher resistivities being sands and gravels. Normal resistivity logs are affected by bed thickness, Borehole diameter and borehole fluid.

SINGLE POINT RESISTIVITY LOGS:

Single Point Resistivity Logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones.

GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

TEMPERATURE LOGS:

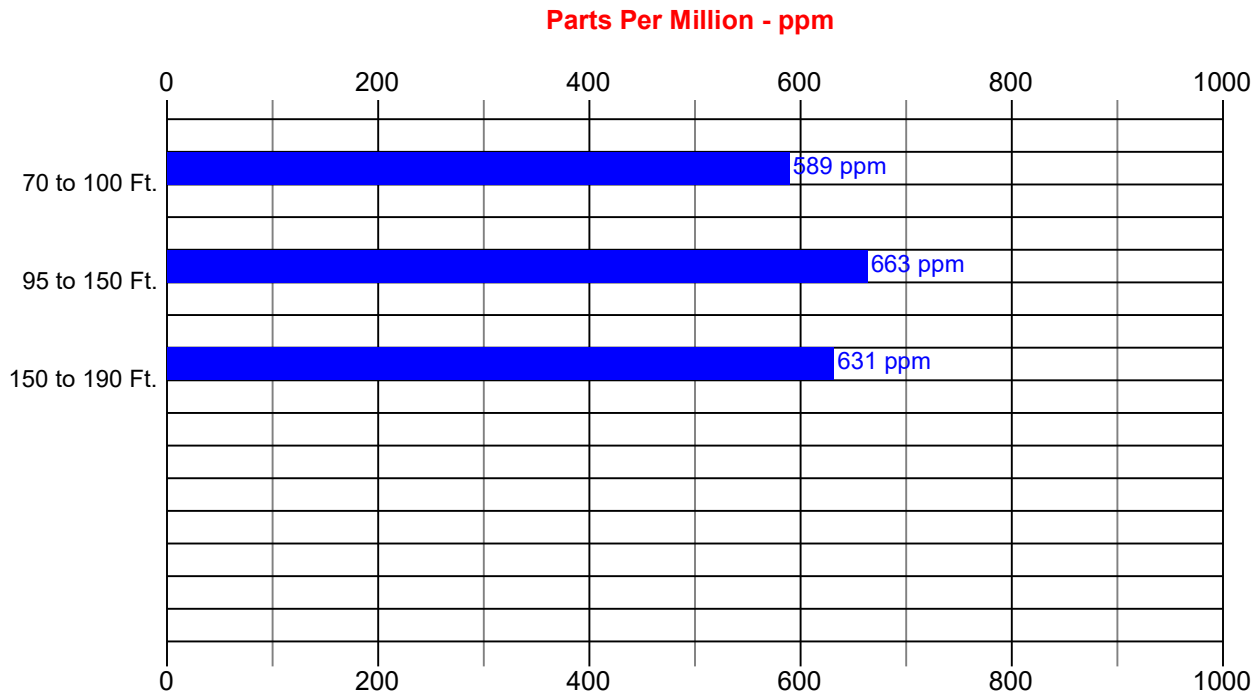
Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

ELECTRIC LOG SPECIFICATIONS:

Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

TOTAL DISSOLVED SOLIDS

* NaCl 



TDS Classes

Class 1: Excellent to Good – Less than 700 ppm

Class 2: Good to Injurious – 700 to 2000 ppm

Class 3: Injurious to Poor – More than 2000 ppm

NaCl = Sodium Chloride

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Parks Water Resources
UV-GWL-1
Nov 20, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

Gamma Ray(api)

50 64 Inch Normal (ohmm²/m) x10 500

64 Inch Normal (ohmm²/m) 50

50 16 Inch Normal (ohmm²/m) x10 500

16 Inch Normal (ohmm²/m) 50

Single Point(ohms)

100

Temperature (°F)

90

50'

100'

150'

179'

Parks Water Resources
UV-GWL-1
Nov 20, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

0 Gamma Ray(api) 200

179'

200'

Log Depth 200'

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

50 64 Inch Normal (ohmm²/m) x10 500

0 64 Inch Normal (ohmm²/m) 50

50 16 Inch Normal (ohmm²/m) x10 500

0 16 Inch Normal (ohmm²/m) 50

Single Point(ohms)

100

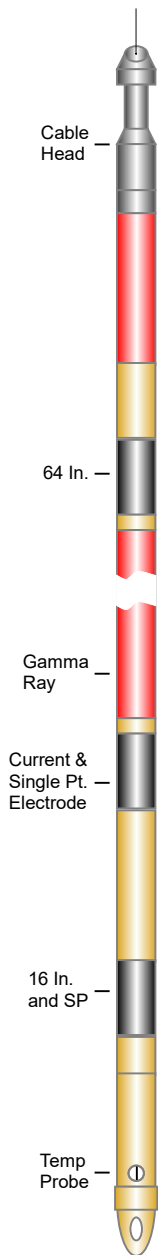
80 Temperature (°F)

90

 ELECTRIC - GAMMA RAY-TEMPERATURE LOG			
Stewart Well Logging Service			
· Phone: (530)908-6928 · Email: stewartwelllogging@gmail.com			
Filing No.	COMPANY Parks Water Resources		
	WELL M-GWL-4 Run #2		
	FIELD Salinas		
	STATE California COUNTY Monterey		
	LOCATION:		OTHER SERVICES: X-Y Caliper
Job No. 1940	SEC: 05 TWP: 14S RGE: 03E LAT.: 36.7416923 LONG.: -121.6599054		
Permanent Datum: Ground Level Elev.: 109 Ft. Elevs.: K.B. _____ Ft. Log Measured From: Ground Level , 0 Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: Ground Level G.L. 109 Ft.			
Run	Two		
Date	Dec 11, 2024		
Depth-Driller	1300 Ft	Ft	Ft
Depth-Logger	1300 Ft	Ft	Ft
Top Logged Interval	9 Ft	Ft	Ft
Btm Logged Interval	1300 Ft	Ft	Ft
Casing-Driller	In @ Ft	In @ Ft	In @ Ft
Casing - Logger In@Ft	In @ Ft	In @ Ft	In @ Ft
Bit Size	8 In @ 1300 Ft	In @ Ft	In @ Ft
Time On Bottom	0940		
Type Fluid in Hole	Bentonite		
Density	Viscosity		
pH	Fluid Loss	ml	ml
Source of Sample	Lift Pump		
Rm @ Mea. Temp	9.6 @ 75 °F	@ °F	@ °F
Rmf @ Mea. Temp	9.5 @ 75 °F	@ °F	@ °F
Rmc @ Mea. Temp	6.7 @ °F	@ °F	@ °F
Source Rmf	Meas.		
Rm @ BHT	86 @ °F	@ °F	@ °F
Time Since Circ.	2 Hr	Hr	Hr
Max. Rec. Temp.	88 °F	°F	°F
Van No.	Location	SWLS-2 WOODLAND	
Recorded By	Stewart		
Witnessed By	T.Parks		

This Eagle Plot Heading Conforms To API RP 31A

ELECTRIC - GAMMA RAY-TEMPERATURE LOG TOOL



SPONTANEOUS POTENTIAL LOGS:

SP Logs record potentials or voltages developed between the borehole fluid and the surrounding formation and are representations of lithology and water quality. Recording of SP logs are limited to water-filled or mud-filled open holes.

NORMAL RESISTIVITY LOGS:

Normal Resistivity Logs record the electrical resistivity of the borehole environment with lower resistivities indicative of clays and higher resistivities being sands and gravels. Normal resistivity logs are affected by bed thickness, Borehole diameter and borehole fluid.

SINGLE POINT RESISTIVITY LOGS:

Single Point Resistivity Logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones.

GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

TEMPERATURE LOGS:

Temperature Logs record the water temperature in the borehole. Temperature logs are useful for delineating water-bearing zones and identifying vertical flow in the borehole between zones of differing hydraulic head penetrated by wells. Borehole flow between zones is indicated by temperature gradients that are less than the regional geothermal gradient.

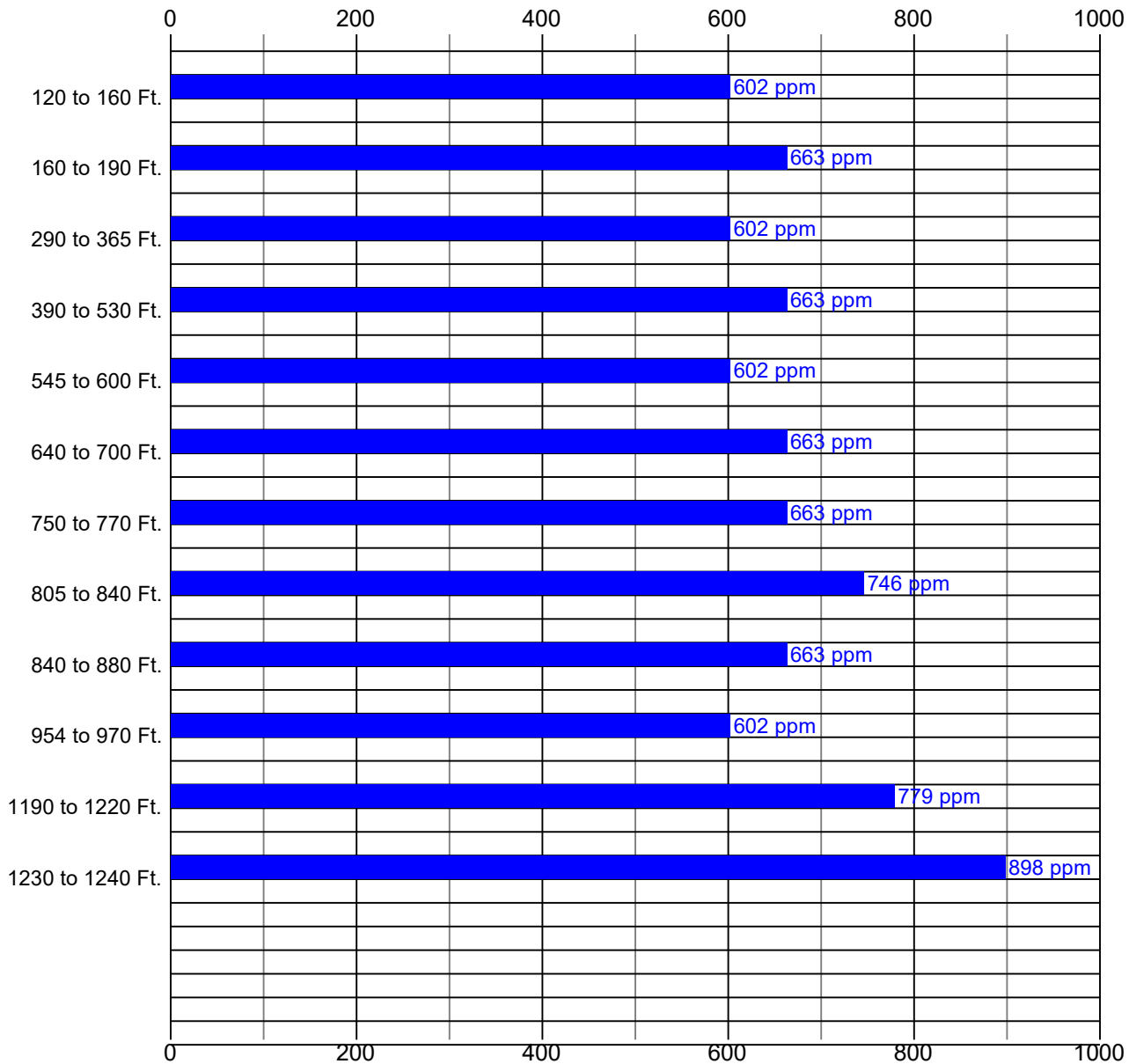
ELECTRIC LOG SPECIFICATIONS:

Diameter	1.73 Inches
Length	8.37 Feet
Weight	21.7 Lbs.
Max. Temp	158° F
Resist. Range	0 - 10,000 ohm-m
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

TOTAL DISSOLVED SOLIDS

* NaCl 

Parts Per Million - ppm



TDS Classes

Class 1: Excellent to Good – Less than 700 ppm

Class 2: Good to Injurious – 700 to 2000 ppm

Class 3: Injurious to Poor – More than 2000 ppm

NaCl = Sodium Chloride

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

Gamma Ray(api)

100 64 Inch Normal (ohmm²/m) x10 1000

64 Inch Normal (ohmm²/m) 100

100 16 Inch Normal (ohmm²/m) x10 1000

16 Inch Normal (ohmm²/m) 100

Single Point(ohms)

Temperature (°F)

0 200

0 100 80 90

50'

100'

150'

179'

Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

Gamma Ray(api)

100 64 Inch Normal (ohmm²/m) x10 1000

64 Inch Normal (ohmm²/m) 100

100 16 Inch Normal (ohmm²/m) x10 1000

16 Inch Normal (ohmm²/m) 100

Single Point(ohms)

50

Temperature (°F)

90

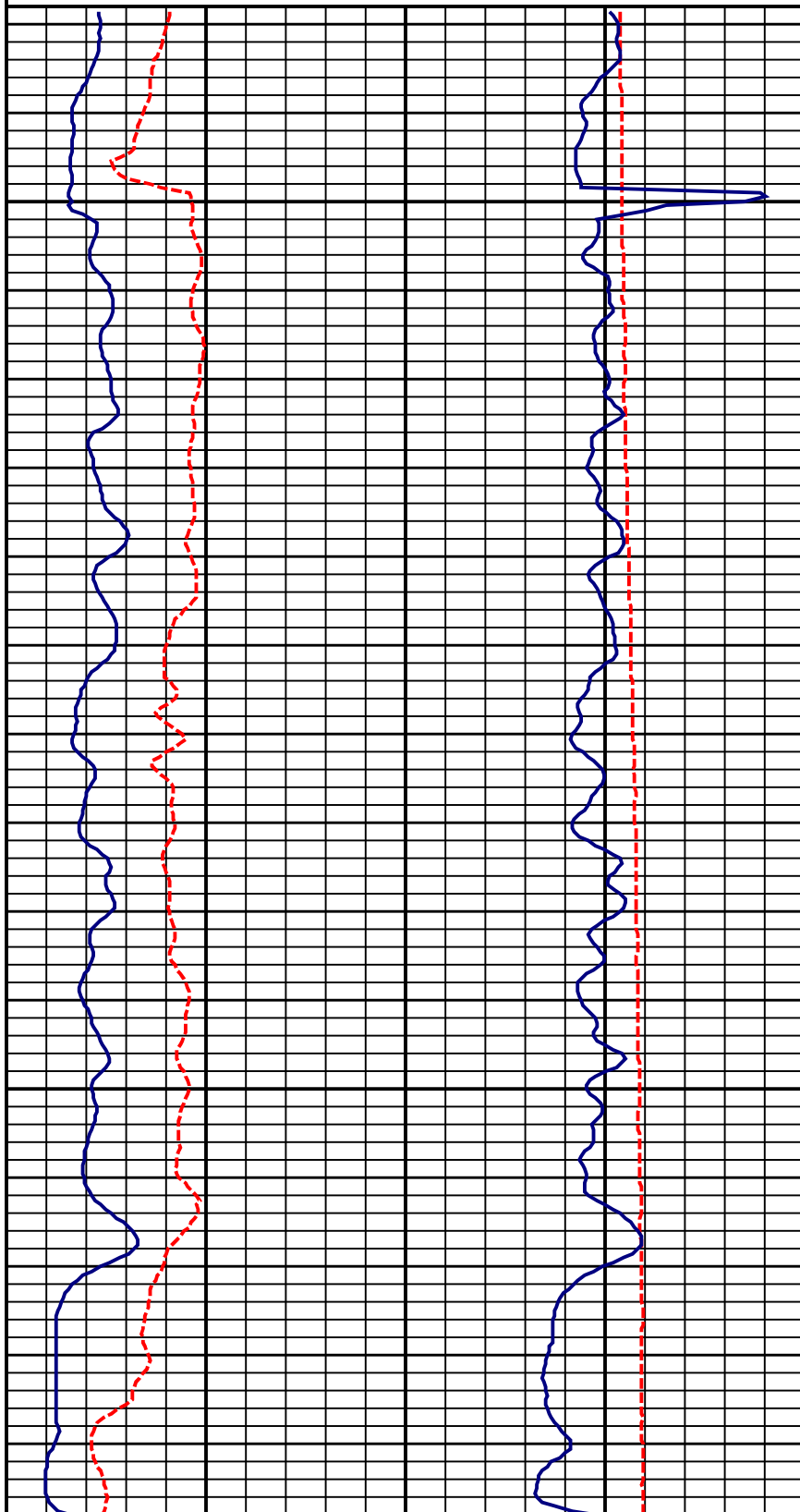
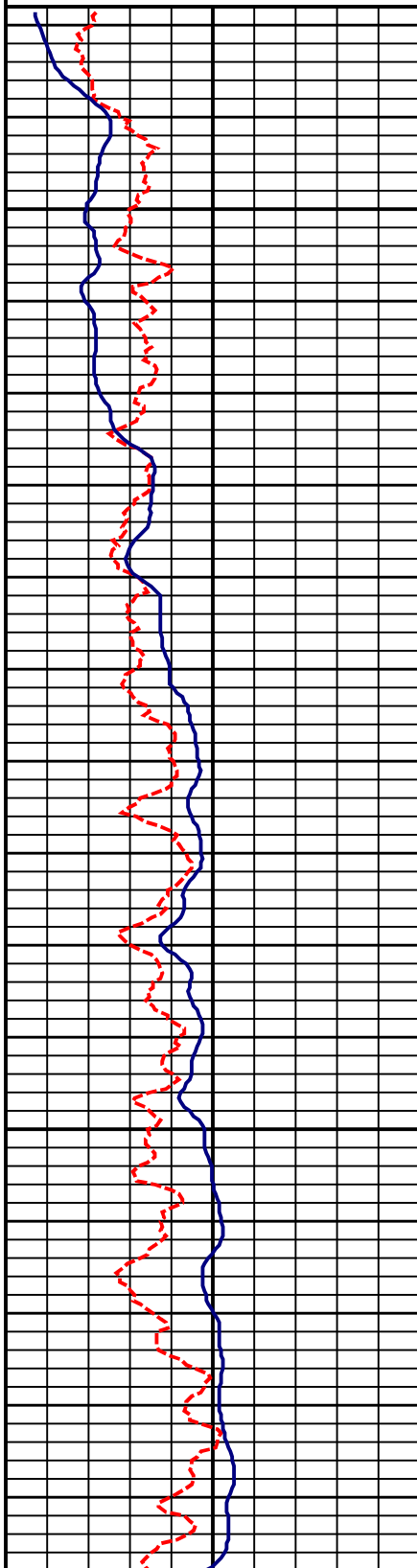
179'

200'

250'

300'

350'



Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

Gamma Ray(api)

349'
350'

400'

450'

500'

519'

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

100 64 Inch Normal (ohmm²/m) x10 1000

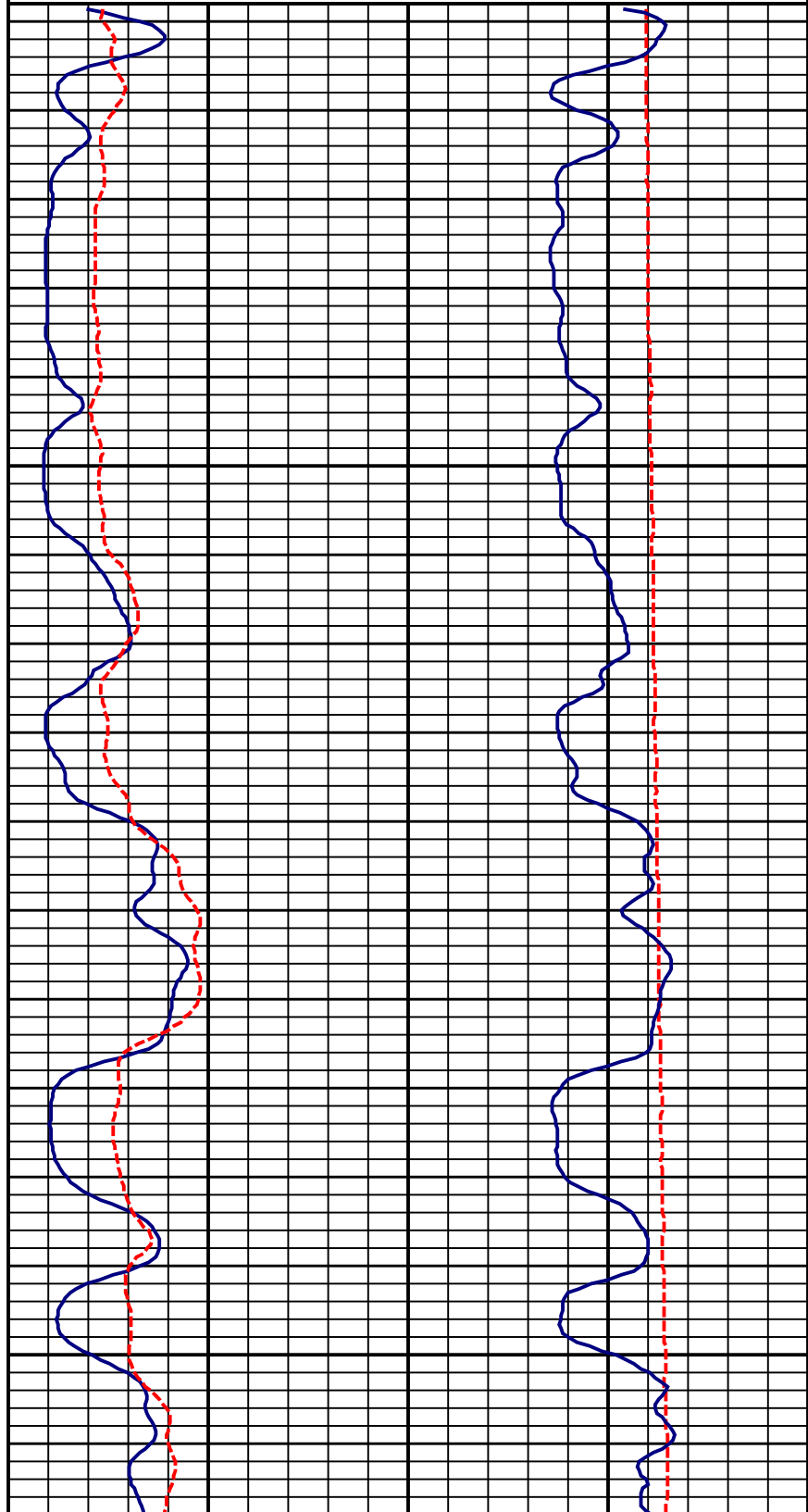
64 Inch Normal (ohmm²/m) 100

100 16 Inch Normal (ohmm²/m) x10 1000

16 Inch Normal (ohmm²/m) 100

Single Point(ohms)

Temperature (°F)



Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

Gamma Ray(api)

100 64 Inch Normal (ohmm²/m) x10 1000

64 Inch Normal (ohmm²/m) 100

100 16 Inch Normal (ohmm²/m) x10 1000

16 Inch Normal (ohmm²/m) 100

Single Point(ohms)

Temperature (°F)

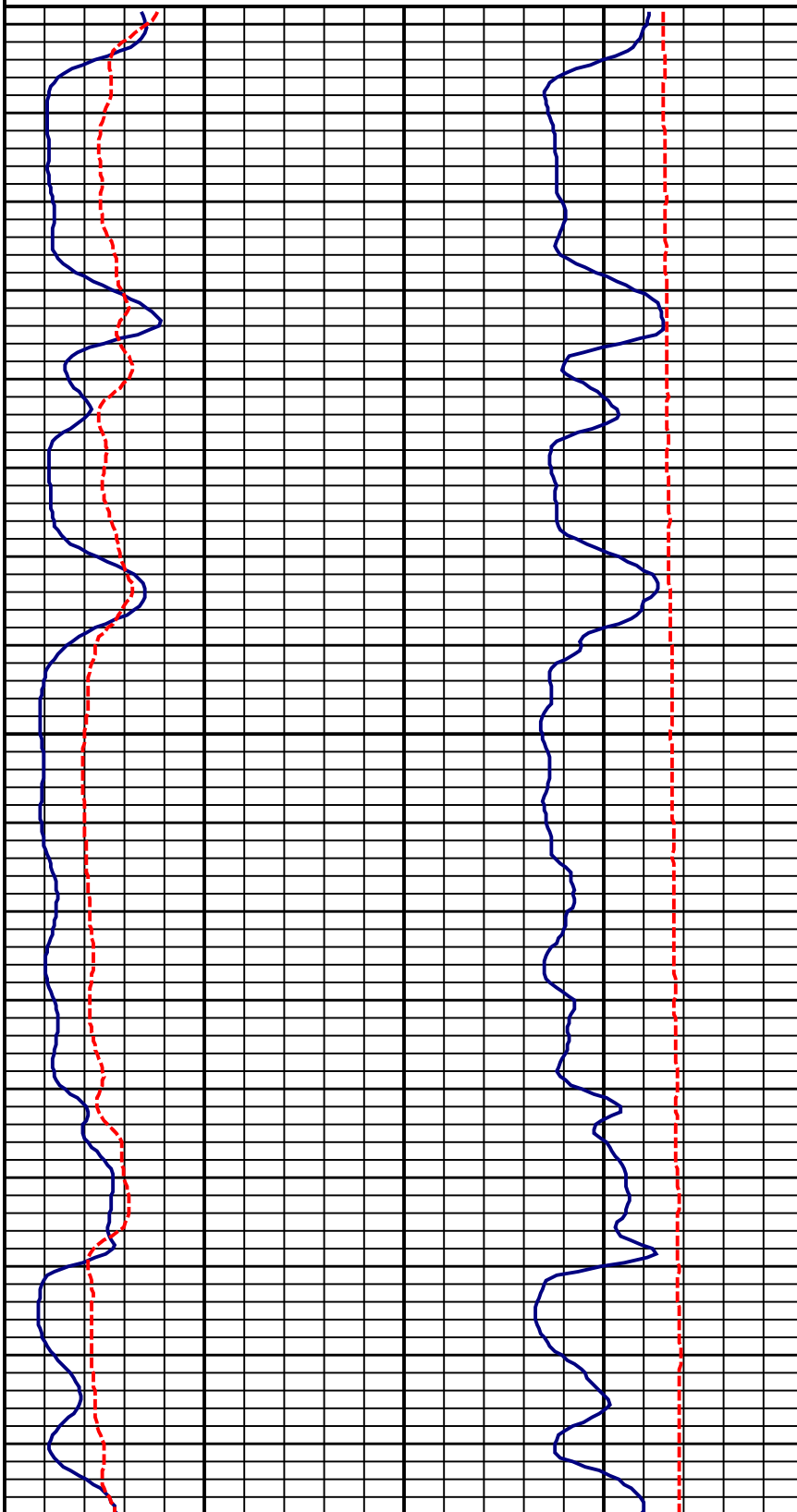
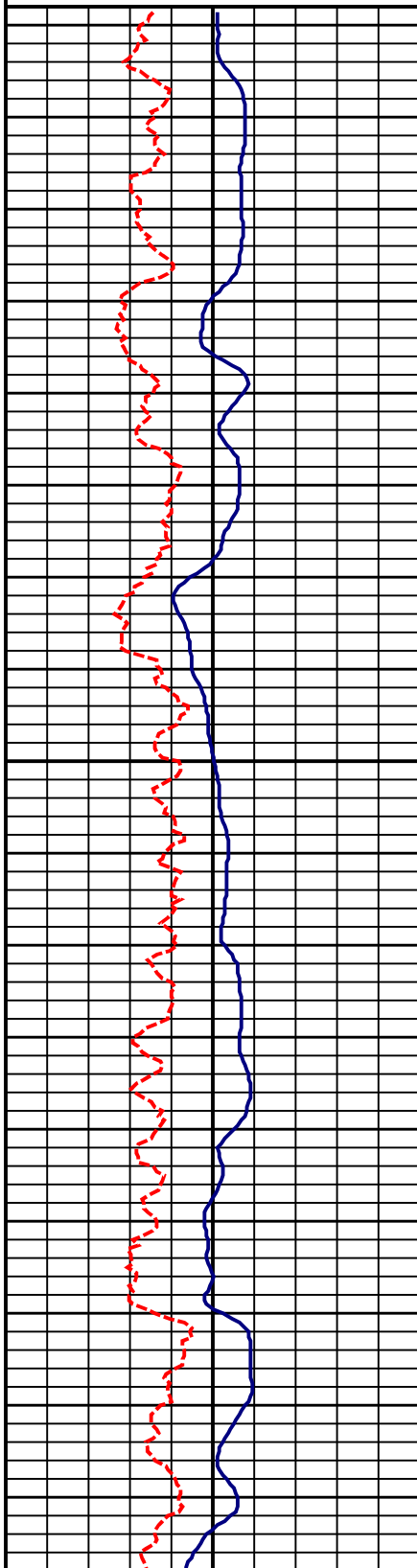
519'

550'

600'

650'

689'



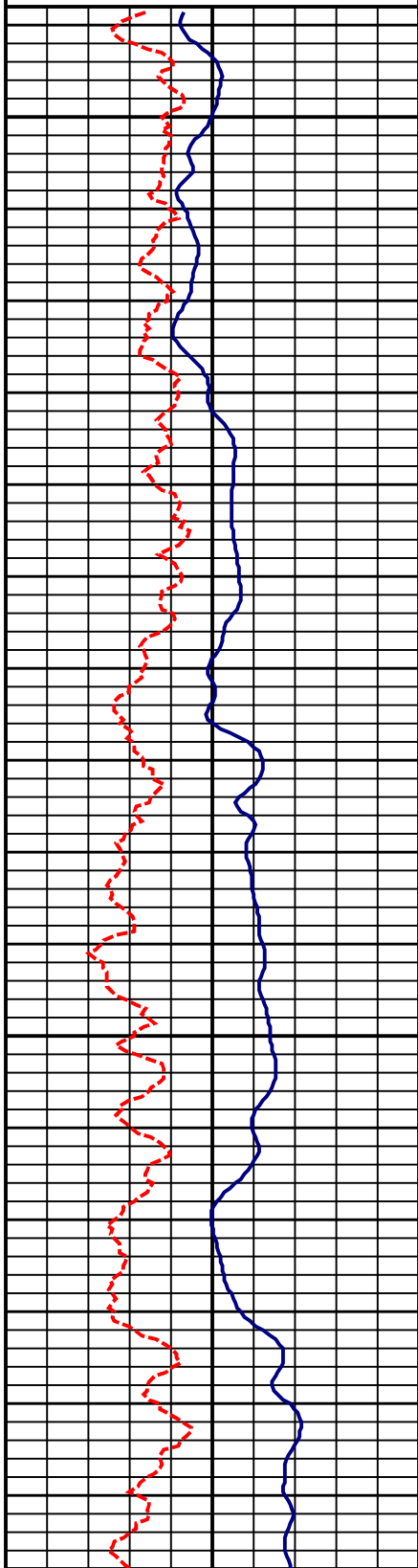
Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

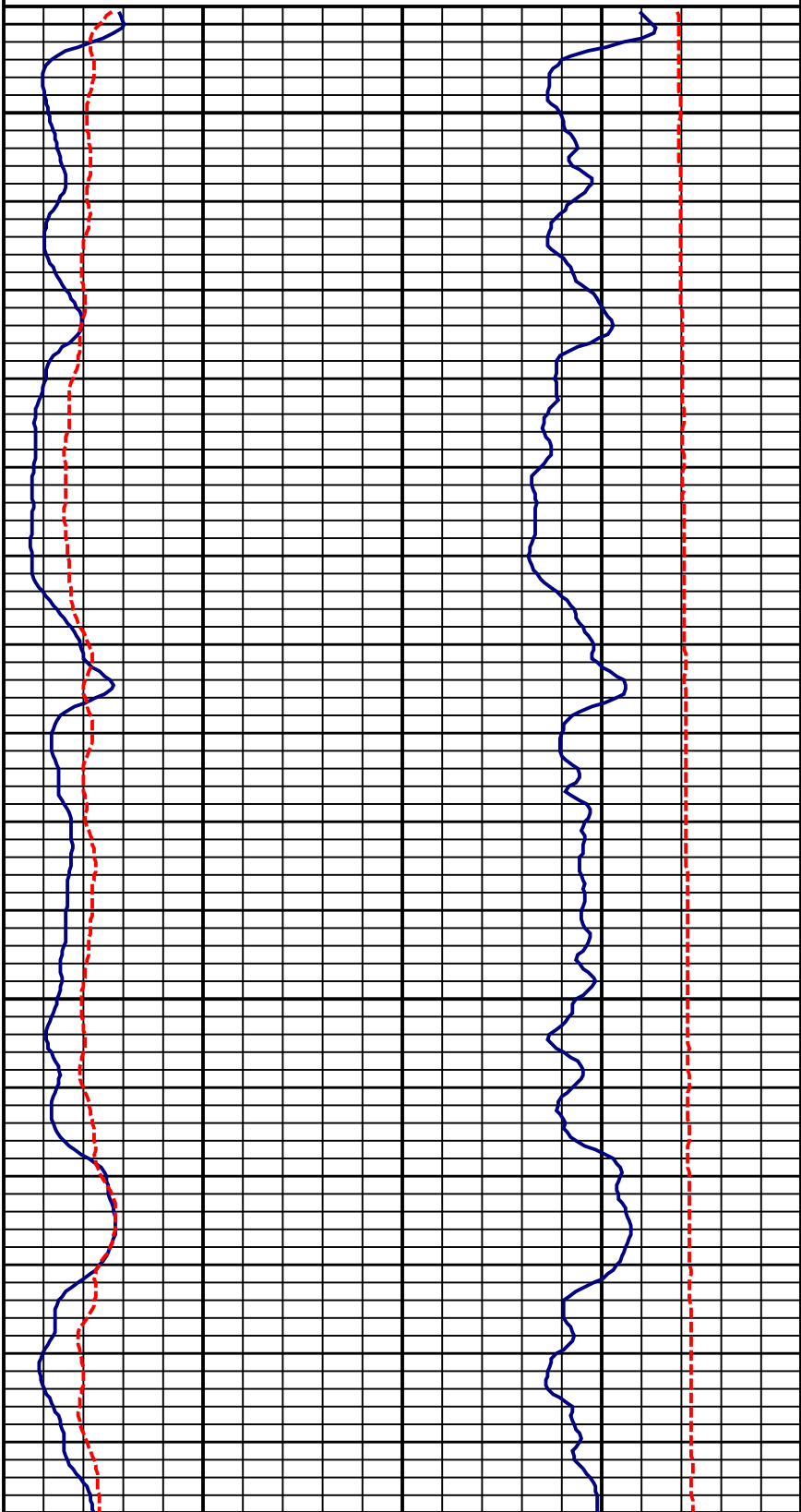
< - S.P. (10 mV/div) S.P. + >

0 Gamma Ray(api) 200



ELECTRIC - GAMMA RAY-TEMPERATURE LOG

100 64 Inch Normal (ohmm²/m) x10 1000
64 Inch Normal (ohmm²/m) 100
100 16 Inch Normal (ohmm²/m) x10 1000 0 Single Point(ohms) 50
16 Inch Normal (ohmm²/m) 100 80 Temperature (°F) 90



Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

ELECTRIC - GAMMA RAY-TEMPERATURE LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

< - S.P. (10 mV/div) S.P. + >

0 Gamma Ray(api) 200

859'

900'

950'

1000'

1029'

100 64 Inch Normal (ohmm²/m) x10 1000

64 Inch Normal (ohmm²/m) 100

100 16 Inch Normal (ohmm²/m) x10 1000

16 Inch Normal (ohmm²/m) 100

Single Point(ohms)

50

Temperature (°F)

90

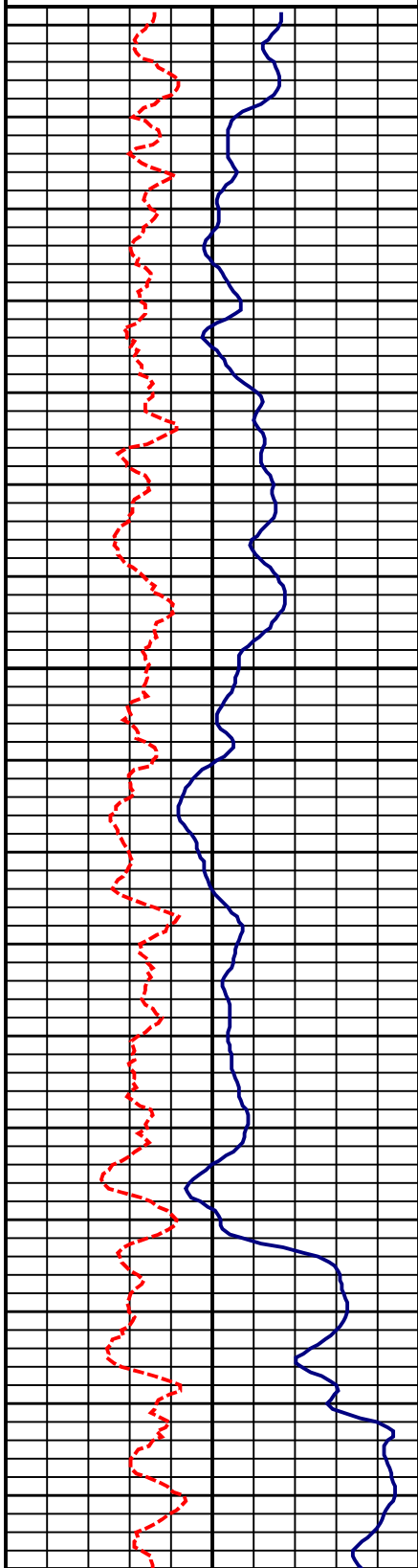
Parks Water Resources
M-GWL-4 Run #2
Dec 11, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

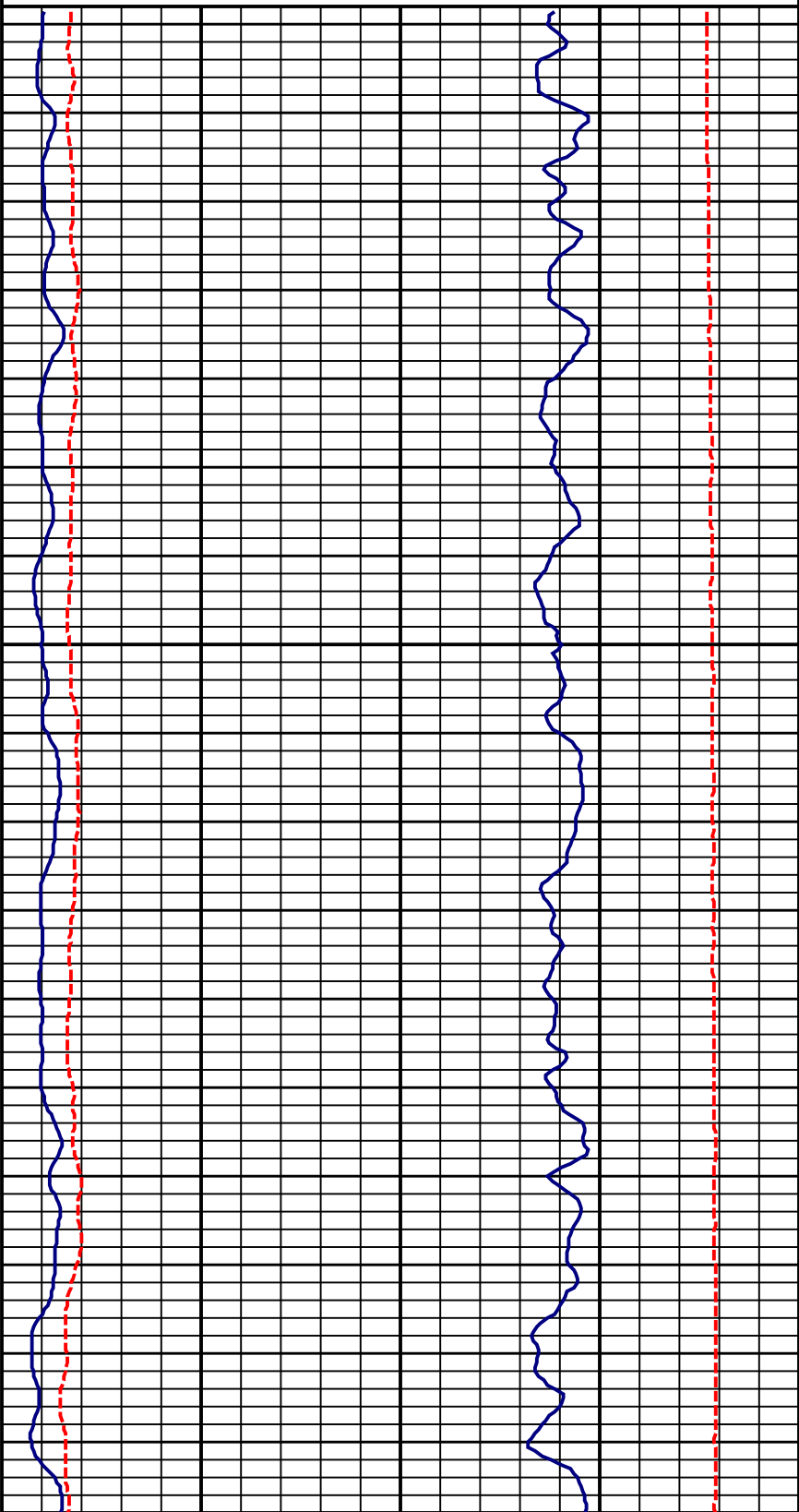
< - S.P. (10 mV/div) S.P. + >

0 Gamma Ray(api) 200

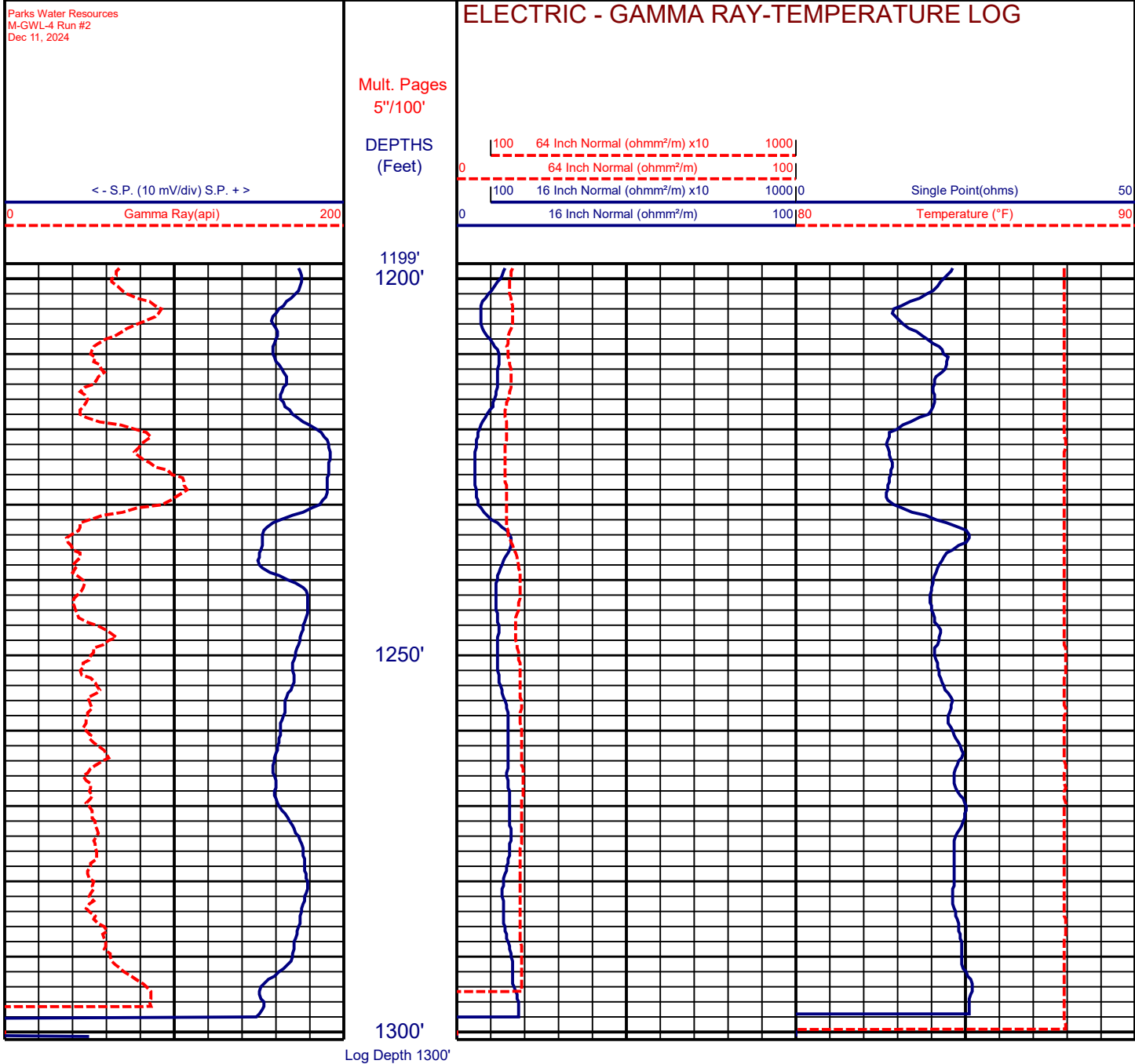


ELECTRIC - GAMMA RAY-TEMPERATURE LOG

100	64 Inch Normal (ohmm ² /m) x10	1000
0	64 Inch Normal (ohmm ² /m)	100
100	16 Inch Normal (ohmm ² /m) x10	1000
0	16 Inch Normal (ohmm ² /m)	100
0	Single Point(ohms)	50
0	Temperature (°F)	90

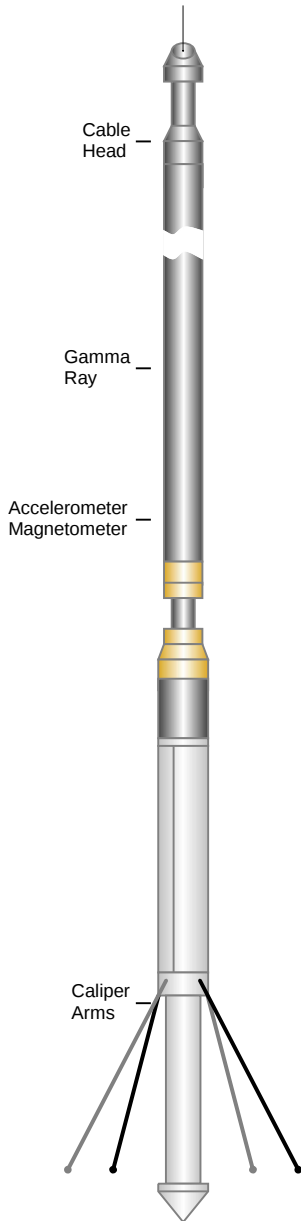


1200'



		4-ARM X-Y CALIPER LOG					
Stewart Well Logging Service							
Filing No.	COMPANY <u>Parks Water Resources</u> WELL <u>L-GW-2</u> FIELD <u>Salinas</u> STATE <u>California</u> COUNTY <u>Monterey</u> LOCATION: <u>26' South of San Juan Grade Rd. & 185' West of Crazy Horse Canyon</u> OTHER SERVICES: <u>None</u>						
Job No. 1847							
SEC: <u>26</u> TWP: <u>13S</u> RGE: <u>03E</u> LAT.: <u>36.7730508</u> LONG.: <u>-121.6037651</u>							
Permanent Datum: <u>Ground Level</u> Elev.: <u>240</u> Ft. Elevs.: K.B. <u> </u> Ft. Log Measured From: <u>Ground Level</u> , <u>0</u> Ft. Above Perm. Datum D.F. <u> </u> Ft. Drilling Measured From: <u>Ground Level</u> G.L. <u>240</u> Ft.							
Date	Oct 25, 2024						
Type Log	Caliper						
Run	One						
Depth-Driller	225	Ft		Ft		Ft	Ft
Depth-Logger	225	Ft		Ft		Ft	Ft
Top Logged Interval	0	Ft		Ft		Ft	Ft
Btm Logged Interval	225	Ft		Ft		Ft	Ft
Type Fluid In Hole	Bentonite						
Fluid Level		Ft		Ft		Ft	Ft
Max Temp		°F		°F		°F	°F
Operating Rig Time	.25	°Hr		°Hr		°Hr	°Hr
Van No.	Location	SWLS-1					
Recorded By	Paschke						
Witnessed By	T.Parks						
RUN	BOREHOLE RECORD				CASING RECORD		
NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO
1	10-5/8 In	0 Ft	225 Ft			Ft	Ft
2		Ft	Ft			Ft	Ft
3		Ft	Ft			Ft	Ft

4-ARM X-Y CALIPER LOG TOOL



GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

4 ARM CALIPER LOGS:

Caliper Logs provide a continuous measurement of the size and shape of a borehole along its depth and is commonly used to determine the annular hole volume of wells. The measurements that are recorded can be an important indicator of voids and swelling clay in the borehole. 4 Arm Caliper Logs measure the borehole on two perpendicular planes resulting in more accurate annular volumes when washouts occur during the drilling process.

MAGNETIC DEVIATION LOGS:

Magnetic logs are used to determine the inclination and direction of the well bore versus depth. With these three parameters, wellbore drift, bearing, and true vertical depth can be calculated based on any one of five API approved methodologies. The magnetic deviation will function in any non-magnetic wellbore with any type of wellbore fluid.

4 ARM CALIPER SPECIFICATIONS:

Diameter	2.36 Inches
Range	2.95 - 52 Inches
Length	11.5 Feet
Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

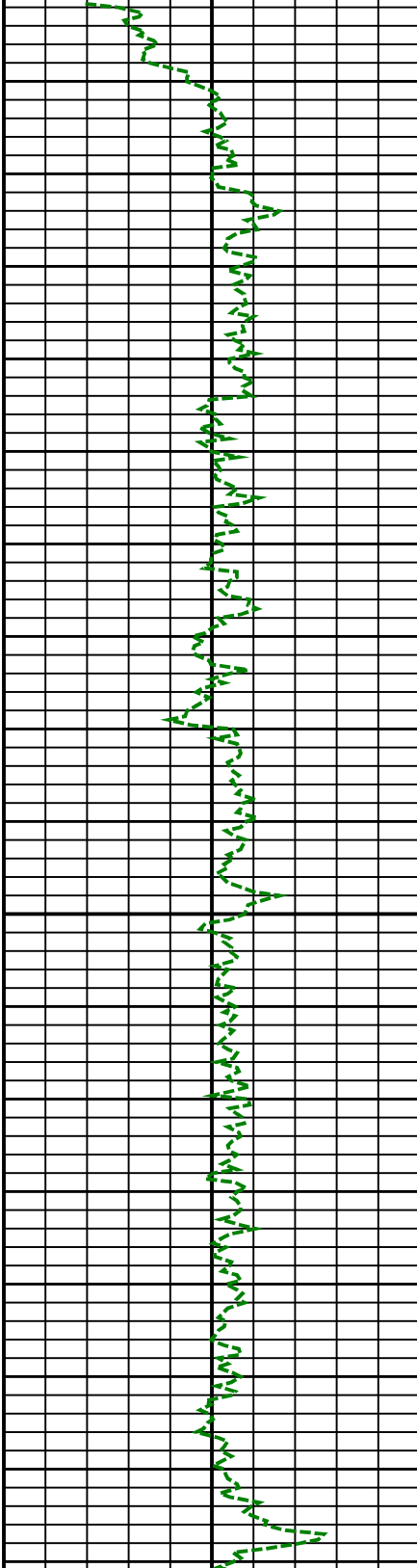
REMARKS

Parks Water Resources
L-GW-2
Oct 25, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Gamma Ray(api) 200



50'

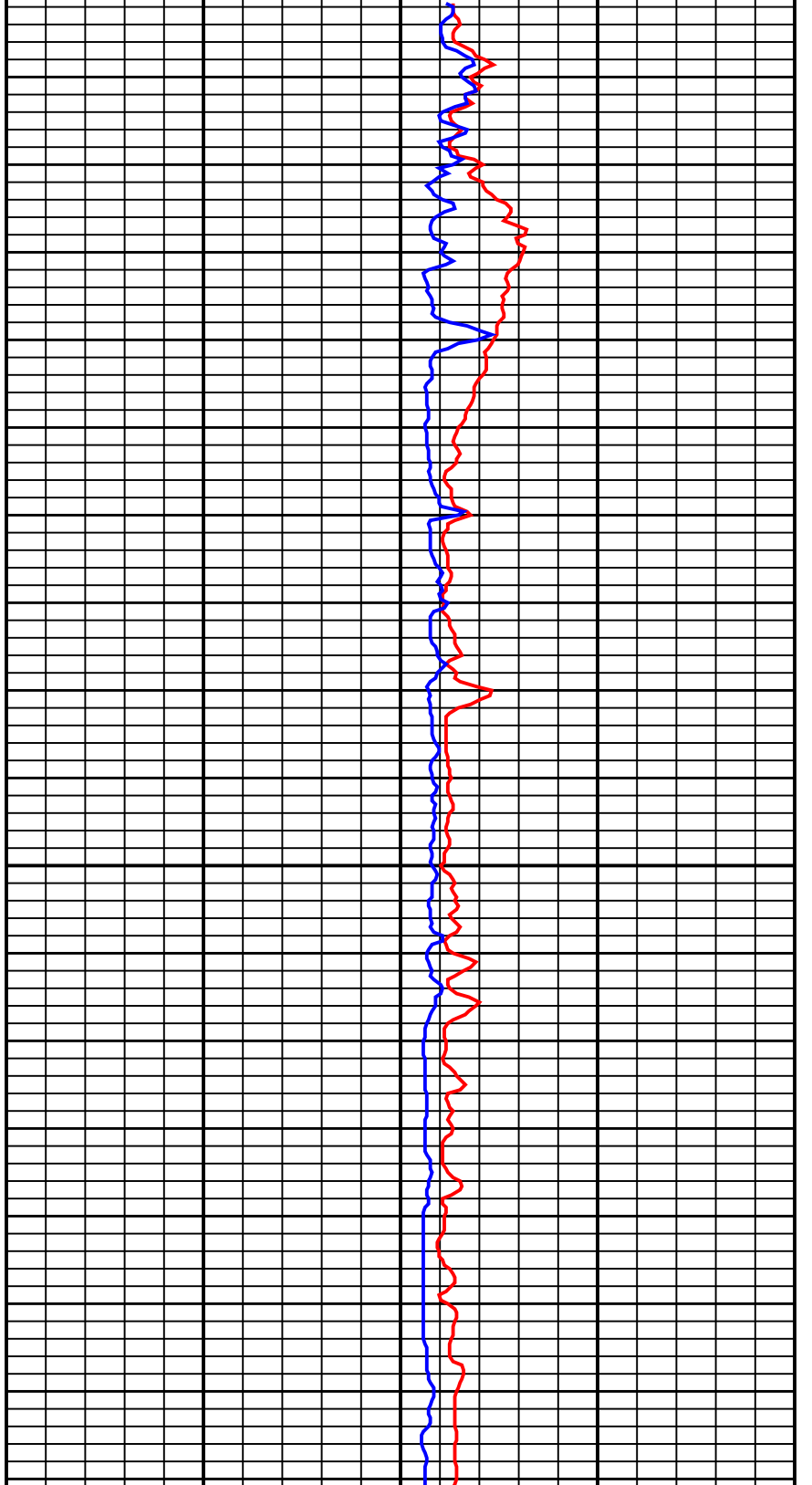
100'

150'

171'

4-ARM X-Y CALIPER LOG

0 X Axis Caliper(inches) 20
0 Y Axis Caliper(inches) 20



Parks Water Resources
L-GW-2
Oct 25, 2024

Mult. Pages
5"/100'

DEPTH
(Feet)

4-ARM X-Y CALIPER LOG

0 Gamma Ray(api) 200

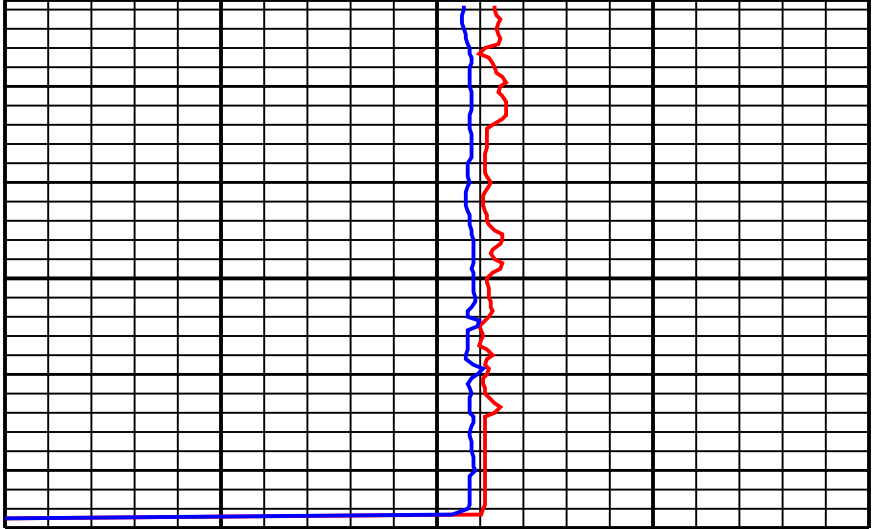
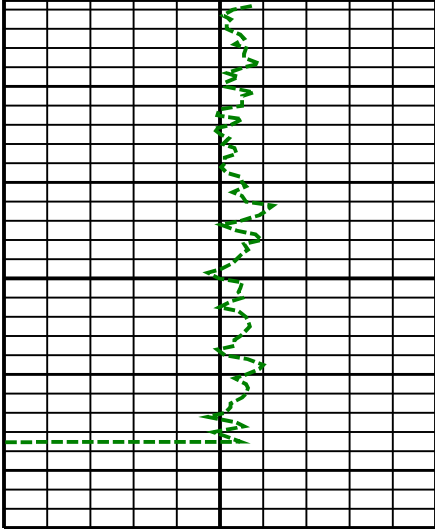
171'

200'

Log Depth 224'

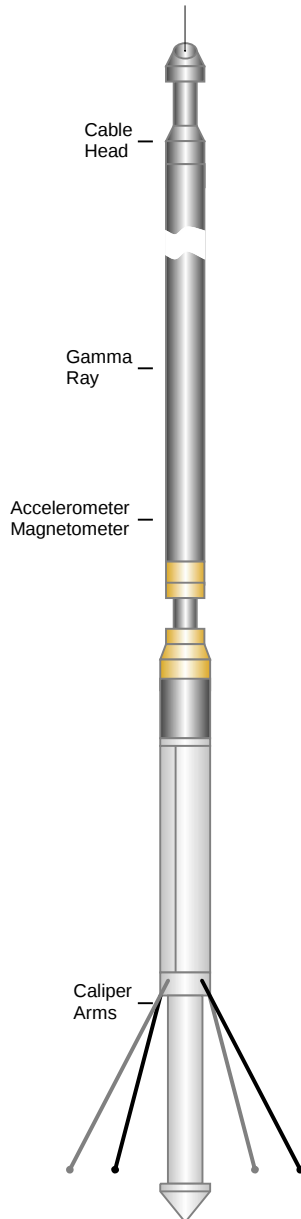
0 X Axis Caliper(inches) 20

0 Y Axis Caliper(inches) 20



		4-ARM X-Y CALIPER LOG					
		Stewart Well Logging Service					
Filing No.							
	COMPANY <u>Parks Water Resources</u>						
	WELL <u>San Miguel Canyon Rd Caliper</u>						
	FIELD <u>Royal Oak</u>						
	STATE <u>California</u> COUNTY <u>Monterey</u>						
	LOCATION:					OTHER SERVICES:	
						None	
Job No. 1865	SEC: _____ TWP: _____ RGE: _____ LAT.: <u>36.8349797</u> LONG.: <u>-121.6816303</u>						
Permanent Datum: <u>Ground Level</u> Elev.: <u>237</u> Ft. Elevs.: K.B. _____ Ft. Log Measured From: <u>Ground Level</u> , <u>0</u> Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: <u>Ground Level</u> G.L. <u>237</u> Ft.							
Date	Nov 07, 2024						
Type Log	Caliper						
Run	One						
Depth-Driller	225	Ft		Ft		Ft	Ft
Depth-Logger	225	Ft		Ft		Ft	Ft
Top Logged Interval	0	Ft		Ft		Ft	Ft
Btm Logged Interval	225	Ft		Ft		Ft	Ft
Type Fluid In Hole	Bentonite						
Fluid Level		Ft		Ft		Ft	Ft
Max Temp		°F		°F		°F	°F
Operating Rig Time	1	°Hr		°Hr		°Hr	°Hr
Van No.	Location	SWLS-1					
Recorded By	Paschke						
Witnessed By	T.Parks						
RUN	BOREHOLE RECORD				CASING RECORD		
NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO
1	10.63 In	0 Ft	225 Ft	4 In		0 Ft	225 Ft
2	In	Ft	Ft	In		Ft	Ft
3	In	Ft	Ft	In		Ft	Ft

4-ARM X-Y CALIPER LOG TOOL



GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

4 ARM CALIPER LOGS:

Caliper Logs provide a continuous measurement of the size and shape of a borehole along its depth and is commonly used to determine the annular hole volume of wells. The measurements that are recorded can be an important indicator of voids and swelling clay in the borehole. 4 Arm Caliper Logs measure the borehole on two perpendicular planes resulting in more accurate annular volumes when washouts occur during the drilling process.

MAGNETIC DEVIATION LOGS:

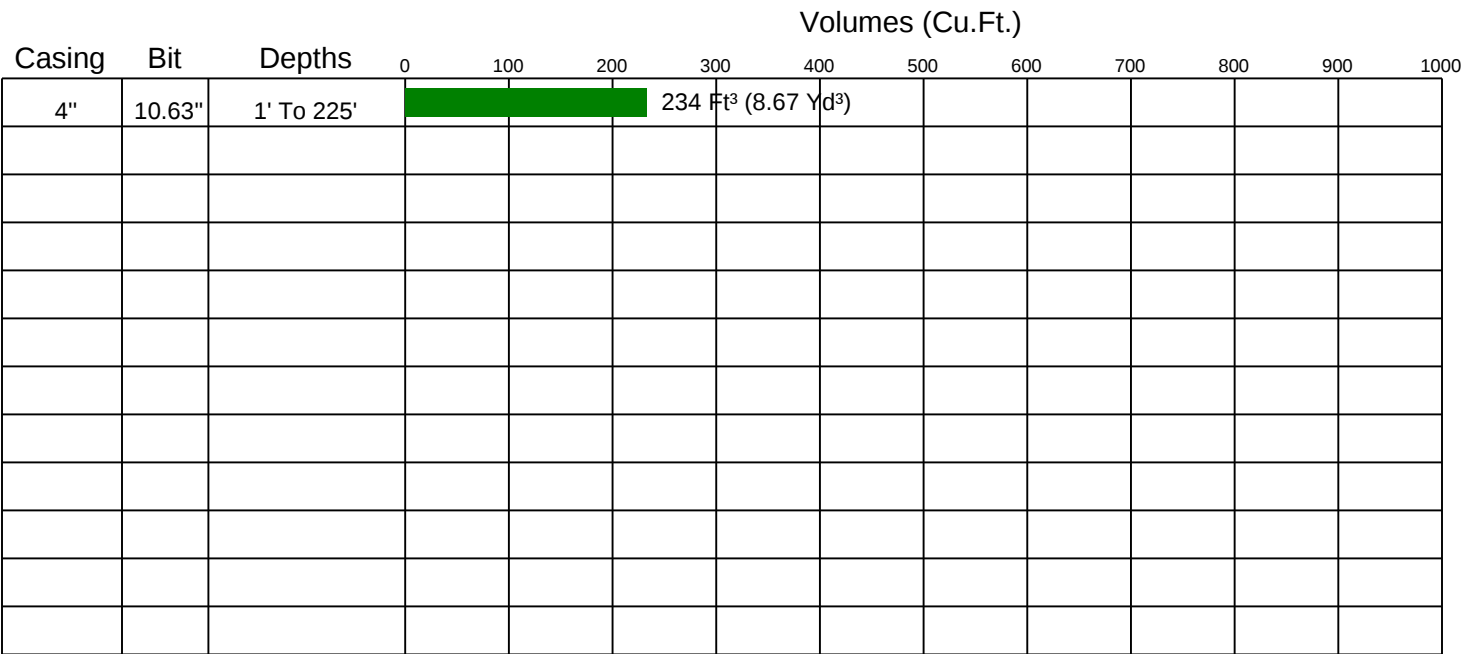
Magnetic logs are used to determine the inclination and direction of the well bore versus depth. With these three parameters, wellbore drift, bearing, and true vertical depth can be calculated based on any one of five API approved methodologies. The magnetic deviation will function in any non-magnetic wellbore with any type of wellbore fluid.

4 ARM CALIPER SPECIFICATIONS:

Diameter	2.36 Inches
Range	2.95 - 52 Inches
Length	11.5 Feet
Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

VOLUME CALCULATIONS

Annular Volumes Graph



Total Annular Volume: 234 Ft³ / 8.67 Yds³

Annular Volumes Table

Casing	Bit	Depths	Feet³	Yards³
4"	10.63"	1' To 225'	234 Ft³	8.67 Yds³
Total Annular Volume			234 Ft³	8.67 Yds³

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

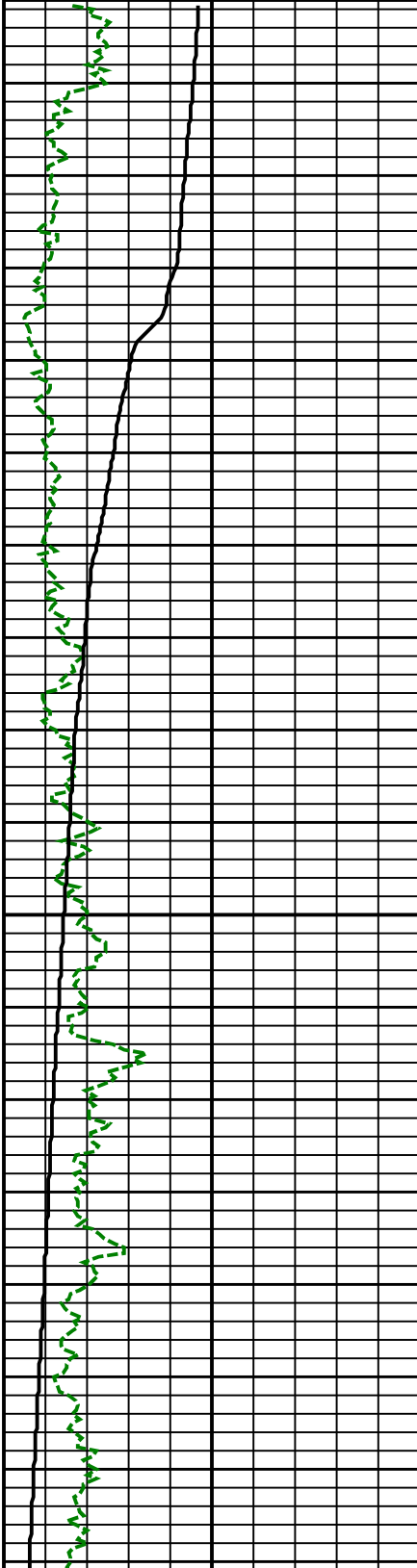
REMARKS

Parks Water Resources
San Miguel Canyon Rd Caliper
Nov 07, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Annular Volume (ft³) 500
0 Gamma Ray(api) 200



50'

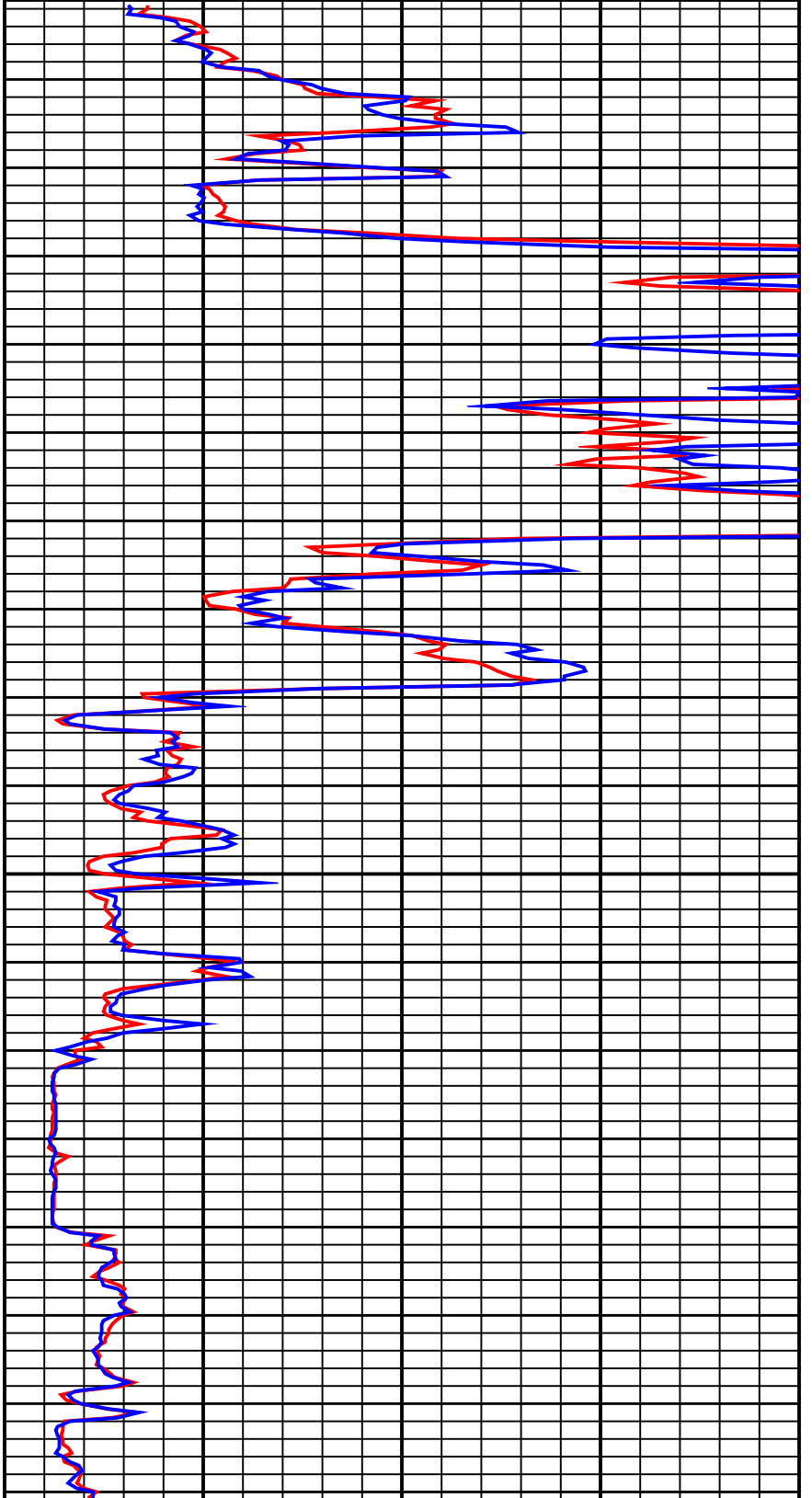
100'

150'

171'

4-ARM X-Y CALIPER LOG

10 X Axis Caliper(inches) 20
10 Y Axis Caliper(inches) 20



Parks Water Resources
San Miguel Canyon Rd Caliper
Nov 07, 2024

Mult. Pages
5"/100'

DEPTHS
(Feet)

4-ARM X-Y CALIPER LOG

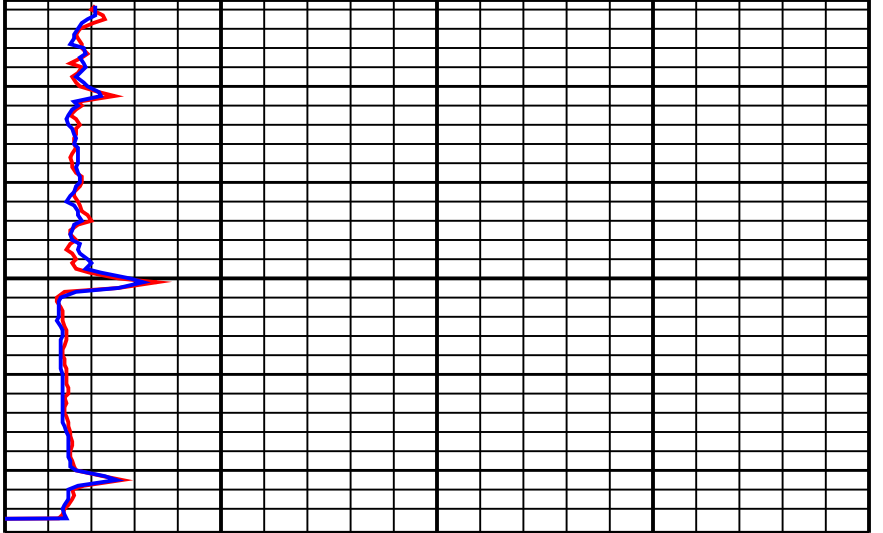
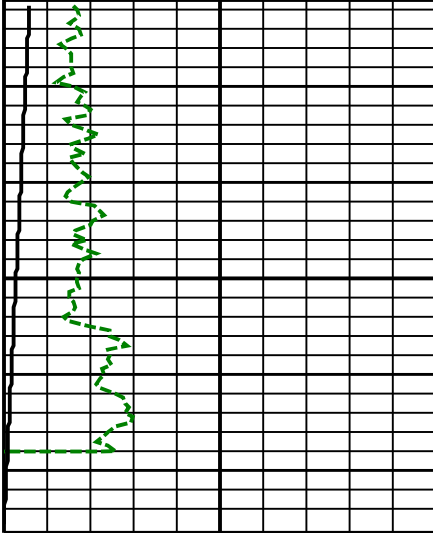
0 Annular Volume (ft³) 500
0 Gamma Ray(api) 200

10 X Axis Caliper(inches) 20
10 Y Axis Caliper(inches) 20

171'

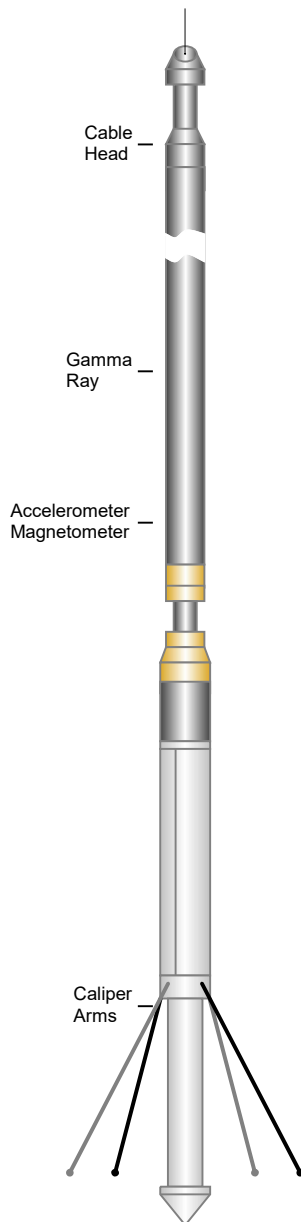
200'

Log Depth 224.5'



 4-ARM X-Y CALIPER LOG																																									
Stewart Well Logging Service																																									
· Phone: (530)908-6928 · Email: stewartwelllogging@gmail.com																																									
Filing No.	COMPANY Parks Water Resources WELL UV-GWL-1 FIELD Bradley STATE California COUNTY Monterey LOCATION:																																								
Job No. 1928	SEC: 08 TWP: 24S RGE: 11E LAT.: 35.8641860 LONG.: -120.8063376 OTHER SERVICES: E-Log																																								
Permanent Datum: Ground Level Elev.: 531 Ft. Elevs.: K.B. _____ Ft. Log Measured From: Ground Level , 0 Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: Ground Level G.L. 531 Ft.																																									
Date	Nov 20, 2024																																								
Type Log	Caliper																																								
Run	One																																								
Depth-Driller	200 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Depth-Logger	200 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Top Logged Interval	0 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Btm Logged Interval	200 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Type Fluid In Hole	Bentonite																																								
Fluid Level	0 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Max Temp	85.5 °F _____ °F _____ °F _____ °F																																								
Operating Rig Time	1 °Hr _____ °Hr _____ °Hr _____ °Hr																																								
Van No.	Location SWLS-2 WOODLAND																																								
Recorded By	Stewart																																								
Witnessed By	T.Parks																																								
RUN	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">BOREHOLE RECORD</th> <th colspan="4">CASING RECORD</th> </tr> <tr> <th>NO.</th> <th>BIT SIZE</th> <th>FROM</th> <th>TO</th> <th>CASING SIZE</th> <th>CASING TYPE</th> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10.625 In</td> <td>0 Ft</td> <td>200 Ft</td> <td>_____ In</td> <td>_____</td> <td>_____ Ft</td> <td>_____ Ft</td> </tr> <tr> <td>2</td> <td>_____ In</td> <td>_____ Ft</td> <td>_____ Ft</td> <td>_____ In</td> <td>_____</td> <td>_____ Ft</td> <td>_____ Ft</td> </tr> <tr> <td>3</td> <td>_____ In</td> <td>_____ Ft</td> <td>_____ Ft</td> <td>_____ In</td> <td>_____</td> <td>_____ Ft</td> <td>_____ Ft</td> </tr> </tbody> </table>	BOREHOLE RECORD				CASING RECORD				NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO	1	10.625 In	0 Ft	200 Ft	_____ In	_____	_____ Ft	_____ Ft	2	_____ In	_____ Ft	_____ Ft	_____ In	_____	_____ Ft	_____ Ft	3	_____ In	_____ Ft	_____ Ft	_____ In	_____	_____ Ft	_____ Ft
BOREHOLE RECORD				CASING RECORD																																					
NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO																																		
1	10.625 In	0 Ft	200 Ft	_____ In	_____	_____ Ft	_____ Ft																																		
2	_____ In	_____ Ft	_____ Ft	_____ In	_____	_____ Ft	_____ Ft																																		
3	_____ In	_____ Ft	_____ Ft	_____ In	_____	_____ Ft	_____ Ft																																		

4-ARM X-Y CALIPER LOG TOOL



GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

4 ARM CALIPER LOGS:

Caliper Logs provide a continuous measurement of the size and shape of a borehole along its depth and is commonly used to determine the annular hole volume of wells. The measurements that are recorded can be an important indicator of voids and swelling clay in the borehole. 4 Arm Caliper Logs measure the borehole on two perpendicular planes resulting in more accurate annular volumes when washouts occur during the drilling process.

MAGNETIC DEVIATION LOGS:

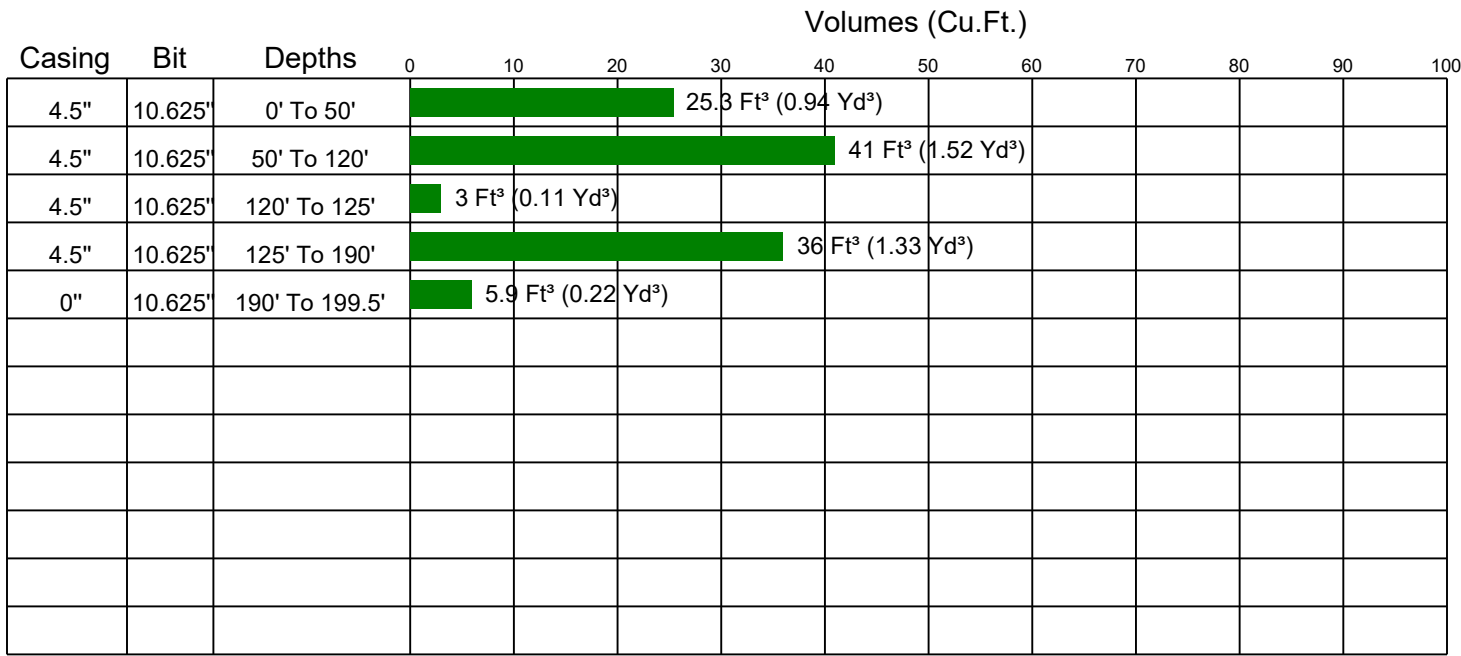
Magnetic logs are used to determine the inclination and direction of the well bore versus depth. With these three parameters, wellbore drift, bearing, and true vertical depth can be calculated based on any one of five API approved methodologies. The magnetic deviation will function in any non-magnetic wellbore with any type of wellbore fluid.

4 ARM CALIPER SPECIFICATIONS:

Diameter	2.36 Inches
Range	2.95 - 52 Inches
Length	11.5 Feet
Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

VOLUME CALCULATIONS

Annular Volumes Graph



Total Annular Volume: 111.2 Ft³ / 4.1 Yds³

Annular Volumes Table

Casing	Bit	Depths	Feet³	Yards³
4.5"	10.625"	0' To 50'	25.3 Ft³	0.94 Yds³
4.5"	10.625"	50' To 120'	41 Ft³	1.52 Yds³
4.5"	10.625"	120' To 125'	3 Ft³	0.11 Yds³
4.5"	10.625"	125' To 190'	36 Ft³	1.33 Yds³
0"	10.625"	190' To 199.5'	5.9 Ft³	0.22 Yds³
Total Annular Volume			111.2 Ft³	4.1 Yds³

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Parks Water Resources
UV-GWL-1
Nov 20, 2024

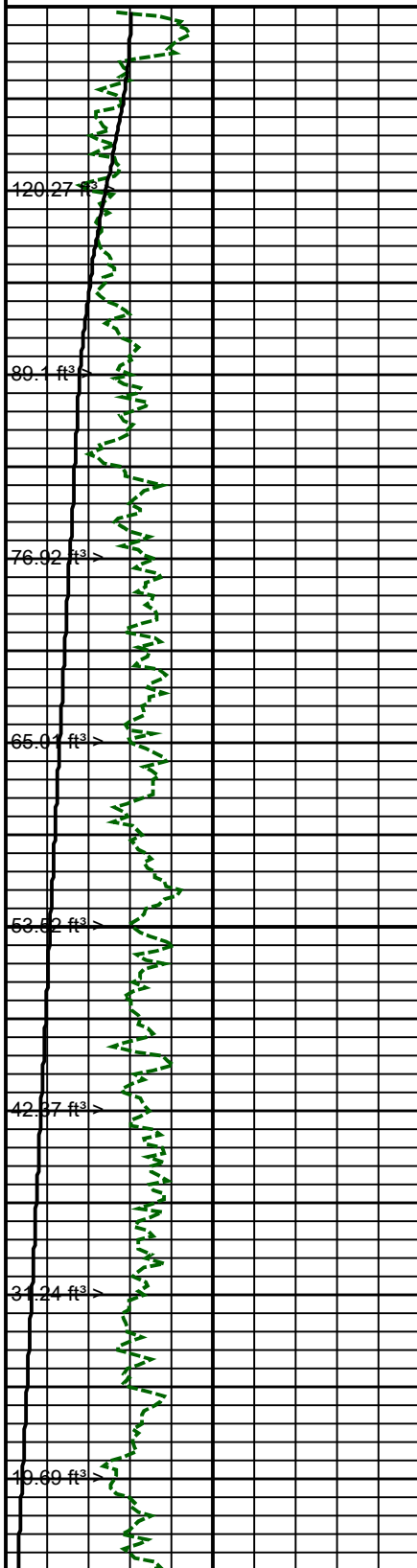
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Annular Volume (ft³) 500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20

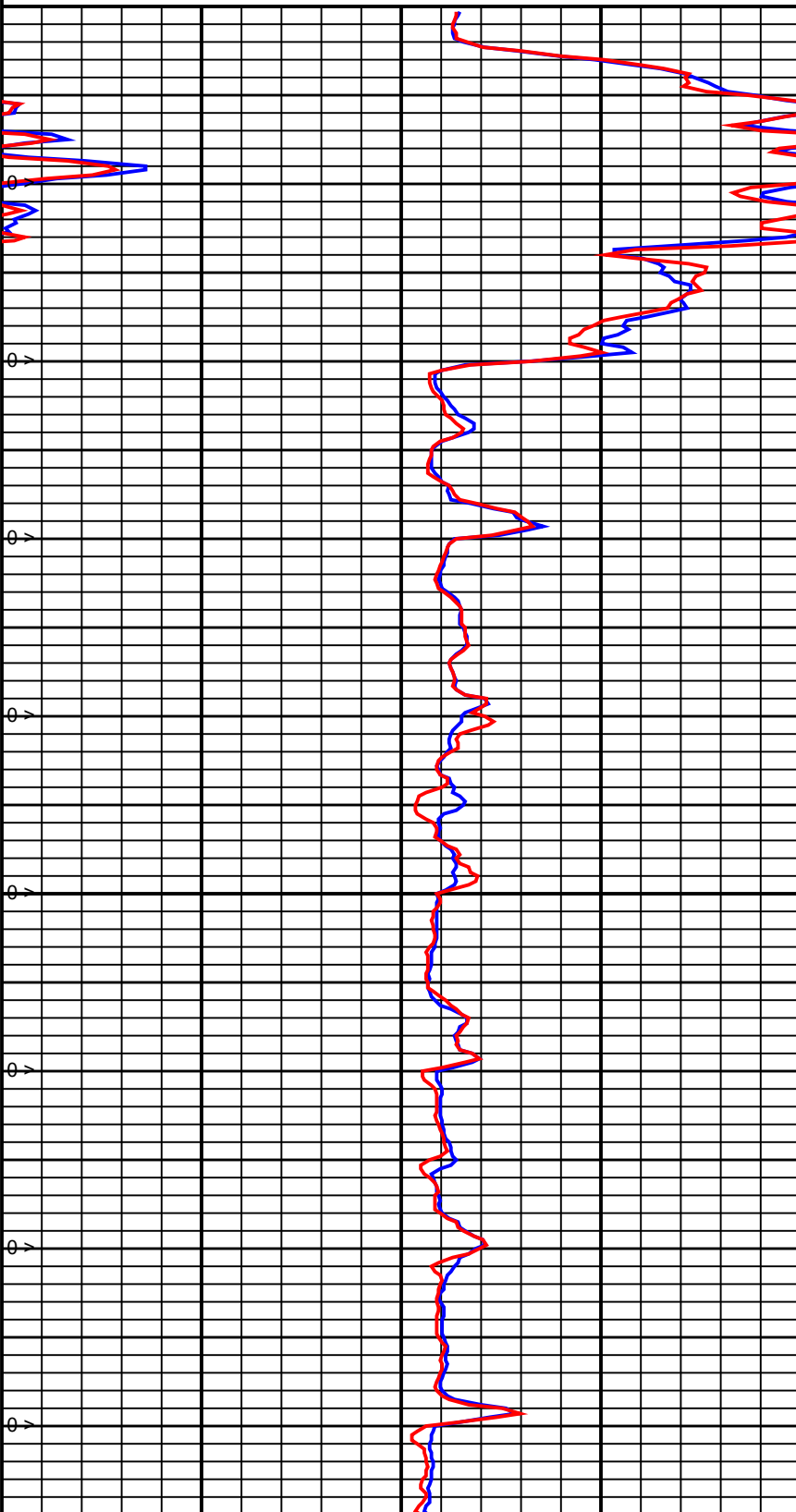


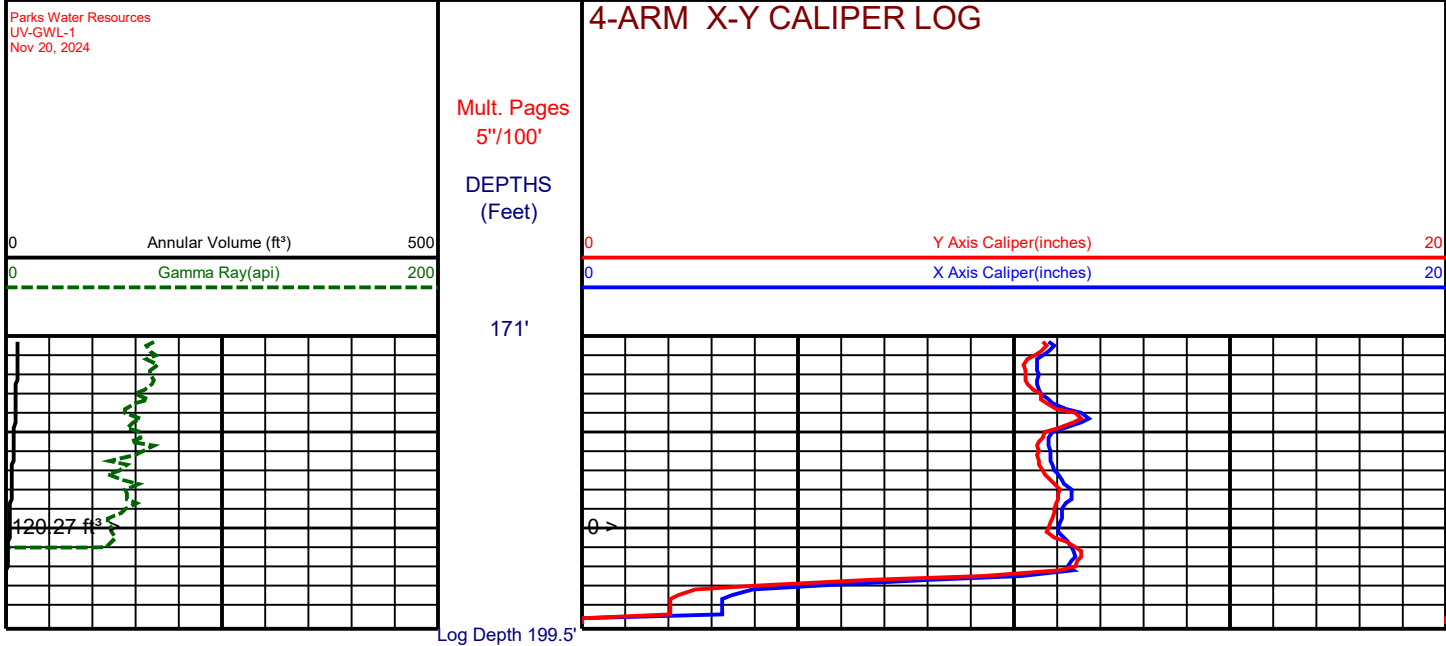
50'

100'

150'

171'

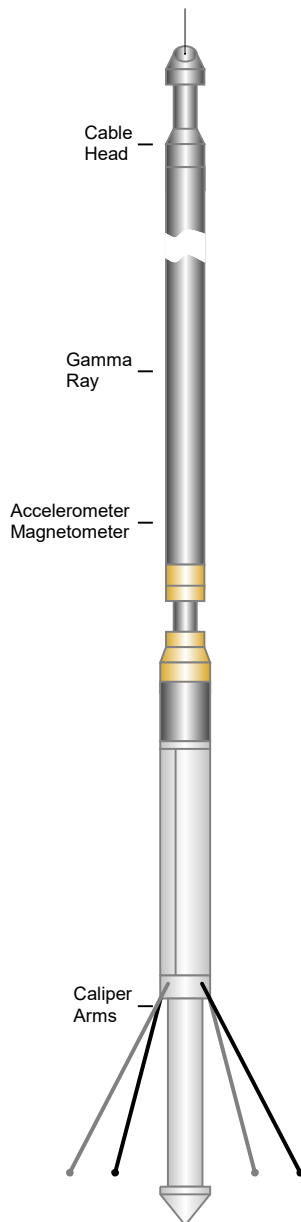




Log Depth 199.5'

 4-ARM X-Y CALIPER LOG																																									
Reamed Borehole																																									
· Phone: (530)908-6928 · Email: stewartwelllogging@gmail.com																																									
Filing No.	COMPANY Parks Water Resources WELL M-GWL-4 FIELD Salinas STATE California COUNTY Monterey LOCATION:																																								
Job No. 1948	SEC: 05 TWP: 14S RGE: 03E LAT.: 36.7416923 LONG.: -121.6599054 OTHER SERVICES: None																																								
Permanent Datum: Ground Level Elev.: 109 Ft. Elevs.: K.B. _____ Ft. Log Measured From: Ground Level , 0 Ft. Above Perm. Datum D.F. _____ Ft. Drilling Measured From: Ground Level G.L. 109 Ft.																																									
Date	Dec 19, 2024																																								
Type Log	Caliper																																								
Run	Two																																								
Depth-Driller	1300 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Depth-Logger	1300 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Top Logged Interval	0 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Btm Logged Interval	1300 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Type Fluid In Hole	Bentonite																																								
Fluid Level	0 Ft. _____ Ft. _____ Ft. _____ Ft.																																								
Max Temp	88 °F _____ °F _____ °F _____ °F																																								
Operating Rig Time	2 °Hr _____ °Hr _____ °Hr _____ °Hr																																								
Van No.	Location SWLS-2 WOODLAND																																								
Recorded By	Stewart																																								
Witnessed By	T.Parks																																								
RUN	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">BOREHOLE RECORD</th> <th colspan="4">CASING RECORD</th> </tr> <tr> <th>NO.</th> <th>BIT SIZE</th> <th>FROM</th> <th>TO</th> <th>CASING SIZE</th> <th>CASING TYPE</th> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8 In</td> <td>0 Ft</td> <td>1300 Ft</td> <td>4 In</td> <td>PVC</td> <td>0 Ft</td> <td>1285 Ft</td> </tr> <tr> <td>2</td> <td>In</td> <td>Ft</td> <td>Ft</td> <td>In</td> <td></td> <td>Ft</td> <td>Ft</td> </tr> <tr> <td>3</td> <td>In</td> <td>Ft</td> <td>Ft</td> <td>In</td> <td></td> <td>Ft</td> <td>Ft</td> </tr> </tbody> </table>	BOREHOLE RECORD				CASING RECORD				NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO	1	8 In	0 Ft	1300 Ft	4 In	PVC	0 Ft	1285 Ft	2	In	Ft	Ft	In		Ft	Ft	3	In	Ft	Ft	In		Ft	Ft
BOREHOLE RECORD				CASING RECORD																																					
NO.	BIT SIZE	FROM	TO	CASING SIZE	CASING TYPE	FROM	TO																																		
1	8 In	0 Ft	1300 Ft	4 In	PVC	0 Ft	1285 Ft																																		
2	In	Ft	Ft	In		Ft	Ft																																		
3	In	Ft	Ft	In		Ft	Ft																																		

4-ARM X-Y CALIPER LOG TOOL



GAMMA RAY LOGS:

Gamma Ray Logs record the amount of natural gamma radiation emitted by the rocks surrounding the borehole. The most significant naturally occurring sources of gamma radiation are potassium 40 and daughter products of the uranium and thorium decay series. Clay and shale bearing rocks commonly emit relatively high gamma radiation because they include weathering products of potassium feldspar and mica and tend to concentrate uranium and thorium by ion absorption and exchange.

4 ARM CALIPER LOGS:

Caliper Logs provide a continuous measurement of the size and shape of a borehole along its depth and is commonly used to determine the annular hole volume of wells. The measurements that are recorded can be an important indicator of voids and swelling clay in the borehole. 4 Arm Caliper Logs measure the borehole on two perpendicular planes resulting in more accurate annular volumes when washouts occur during the drilling process.

MAGNETIC DEVIATION LOGS:

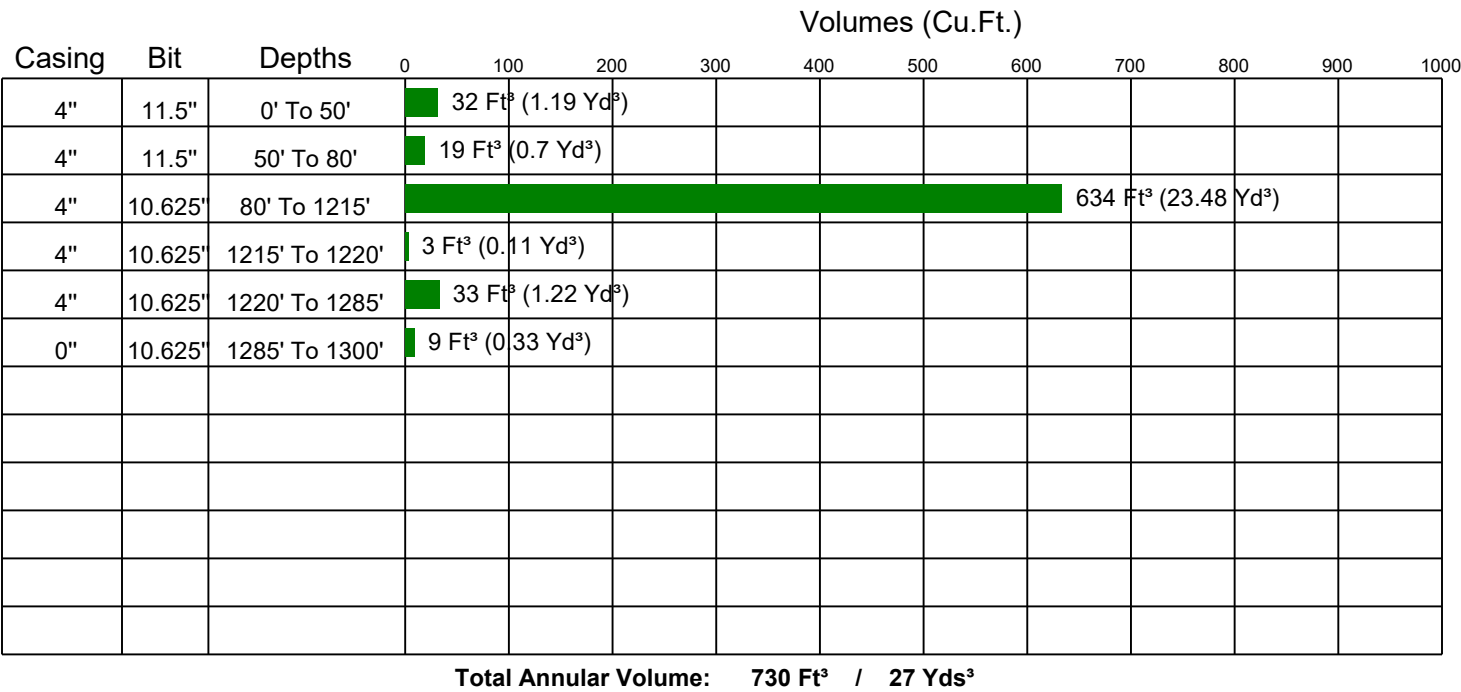
Magnetic logs are used to determine the inclination and direction of the well bore versus depth. With these three parameters, wellbore drift, bearing, and true vertical depth can be calculated based on any one of five API approved methodologies. The magnetic deviation will function in any non-magnetic wellbore with any type of wellbore fluid.

4 ARM CALIPER SPECIFICATIONS:

Diameter	2.36 Inches
Range	2.95 - 52 Inches
Length	11.5 Feet
Weight	88.18 Lbs.
Max. Temp	158° F
Inclination	0 to 180 Deg., +/- 0.5 Deg.
Azimuth	0 to 360 Deg., +/- 1.5 Deg.
Gamma Ray	1.97 inches long x .98 inches diameter Scintillation crystal

VOLUME CALCULATIONS

Annular Volumes Graph



Annular Volumes Table

Casing	Bit	Depths	Feet³	Yards³
4"	11.5"	0' To 50'	32 Ft³	1.19 Yds³
4"	11.5"	50' To 80'	19 Ft³	0.7 Yds³
4"	10.625"	80' To 1215'	634 Ft³	23.48 Yds³
4"	10.625"	1215' To 1220'	3 Ft³	0.11 Yds³
4"	10.625"	1220' To 1285'	33 Ft³	1.22 Yds³
0"	10.625"	1285' To 1300'	9 Ft³	0.33 Yds³
Total Annular Volume			730 Ft³	27 Yds³

NOTICE

All interpretations are opinions based on inferences from electrical and other measurements and we do not guarantee the accuracy or correctness of any verbal or written interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

REMARKS

Parks Water Resources
M-GWL-4
Dec 19, 2024

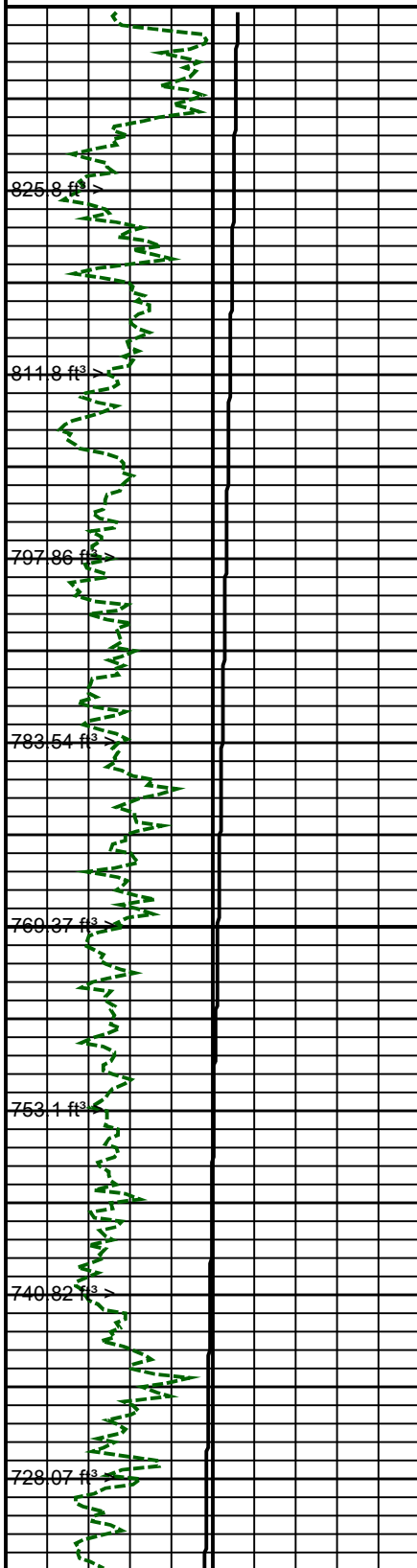
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20

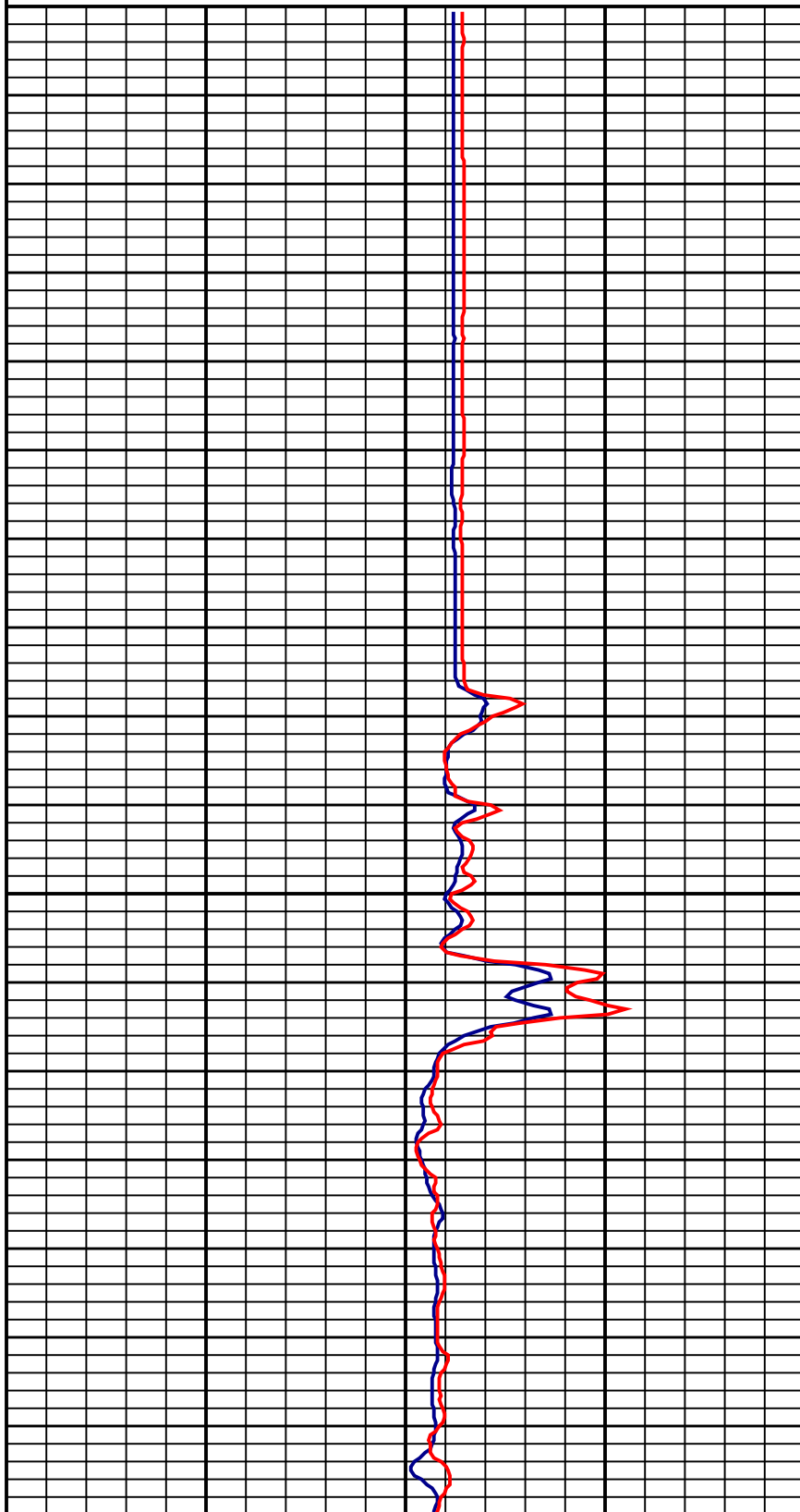


50'

100'

150'

171'



Parks Water Resources
M-GWL-4
Dec 19, 2024

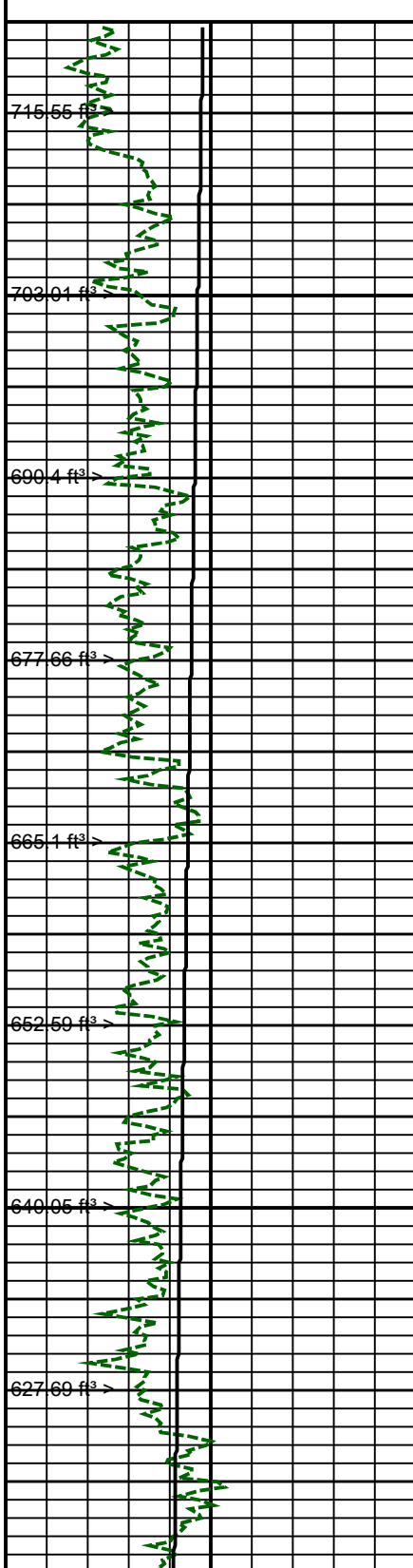
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20



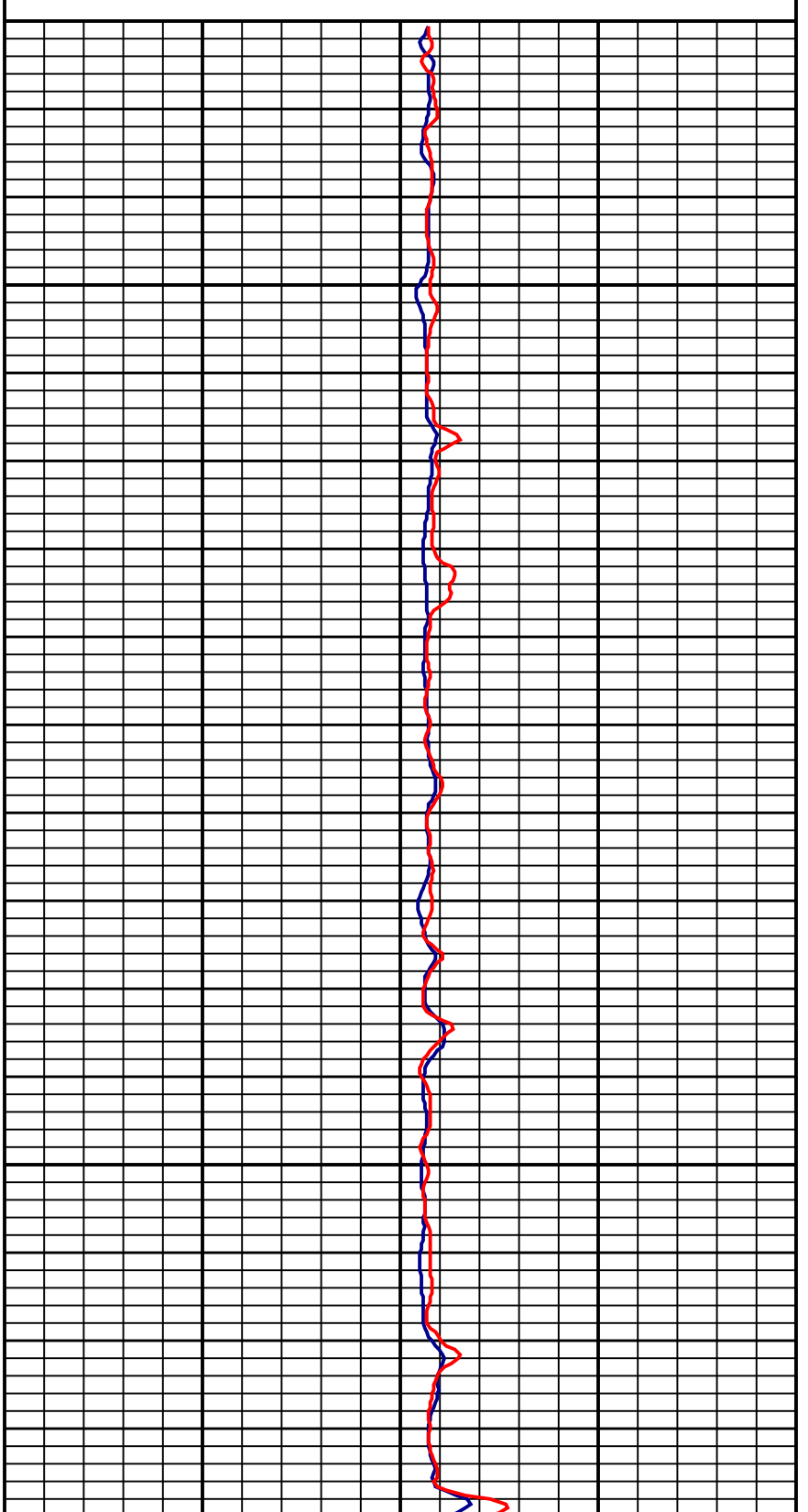
171'

200'

250'

300'

341'



Parks Water Resources
M-GWL-4
Dec 19, 2024

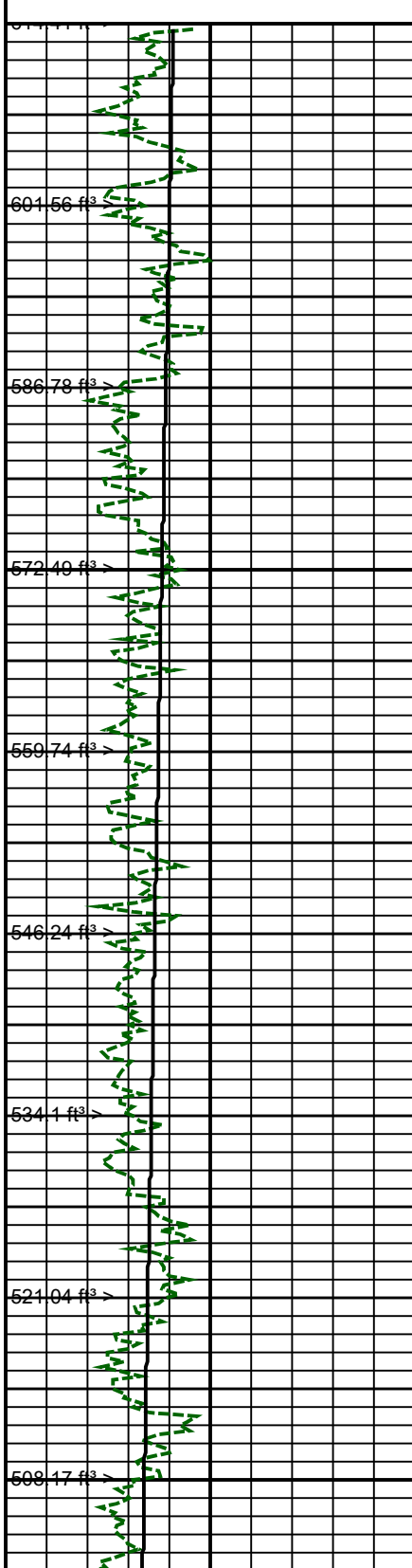
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20



341'

350'

601.56 ft³ >

586.78 ft³ >

572.40 ft³ >

559.74 ft³ >

546.24 ft³ >

534.1 ft³ >

521.04 ft³ >

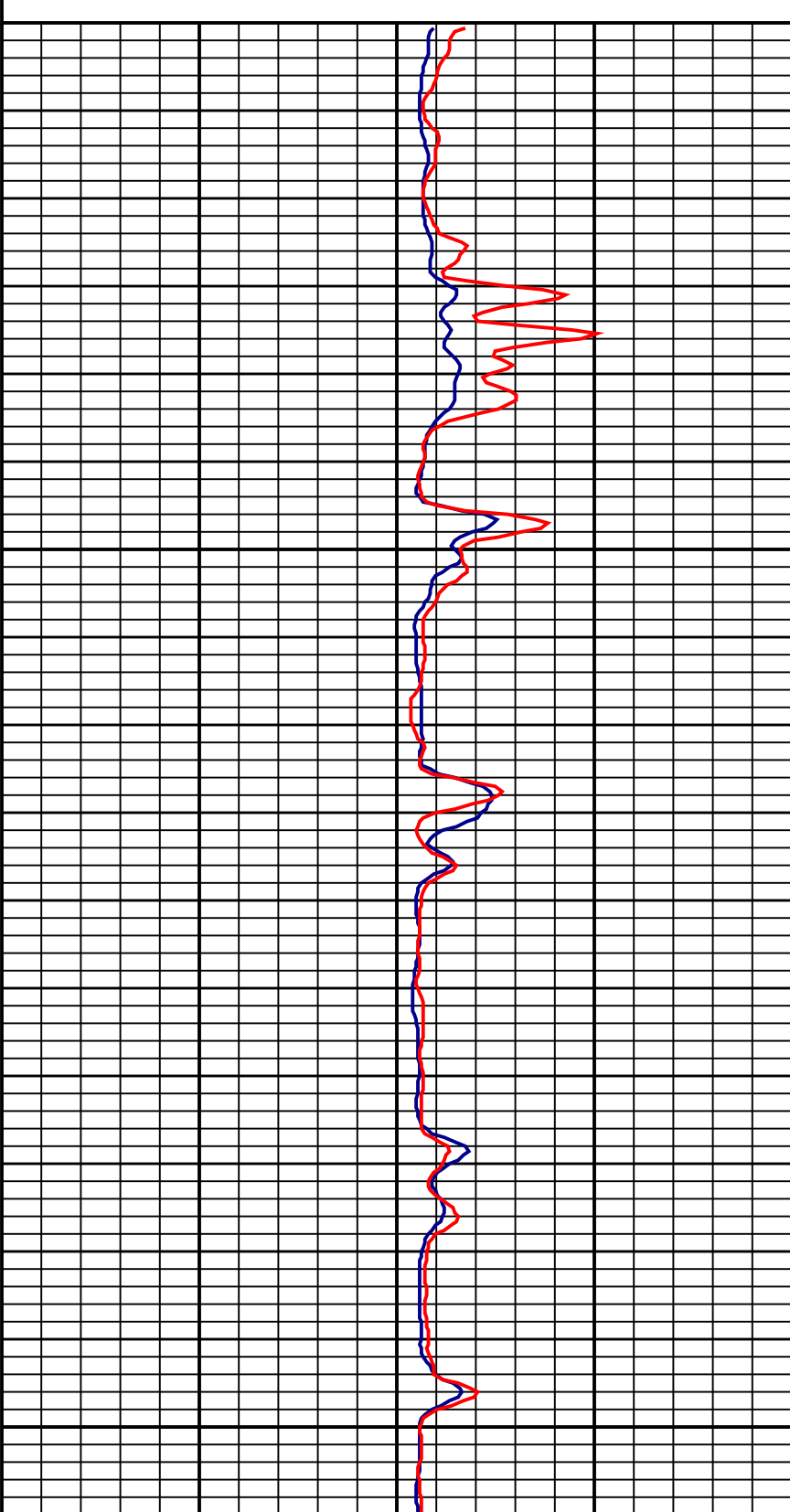
508.17 ft³ >

400'

450'

500'

511'



Parks Water Resources
M-GWL-4
Dec 19, 2024

4-ARM X-Y CALIPER LOG

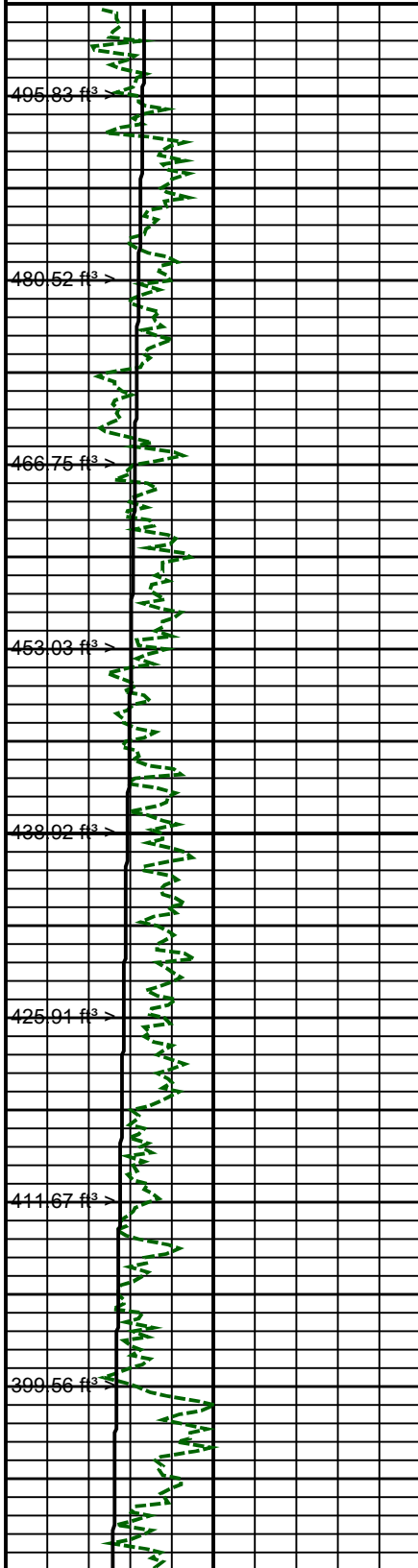
Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20

511'

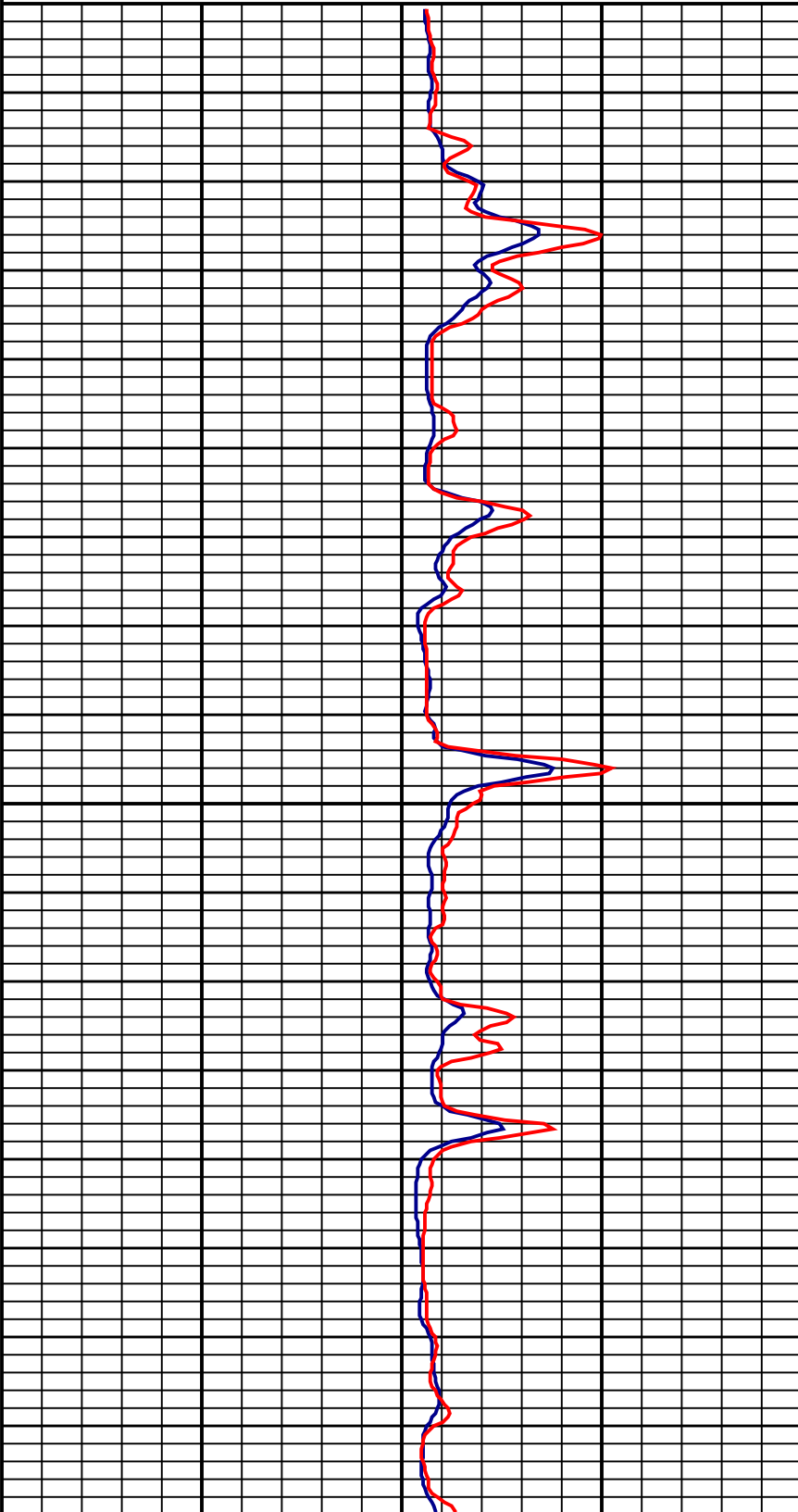


550'

600'

650'

681'



Parks Water Resources
M-GWL-4
Dec 19, 2024

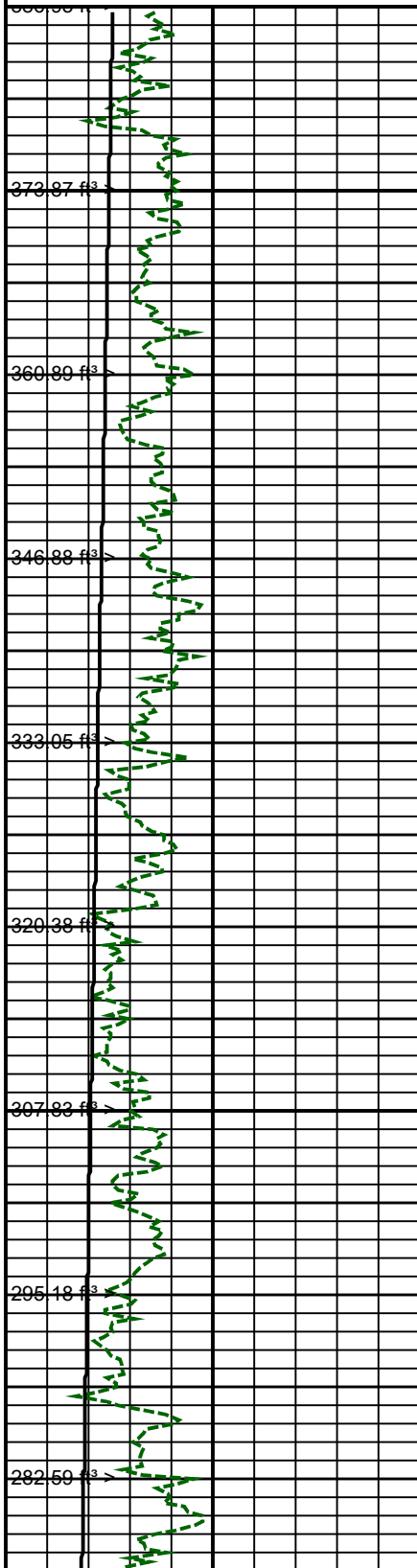
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20



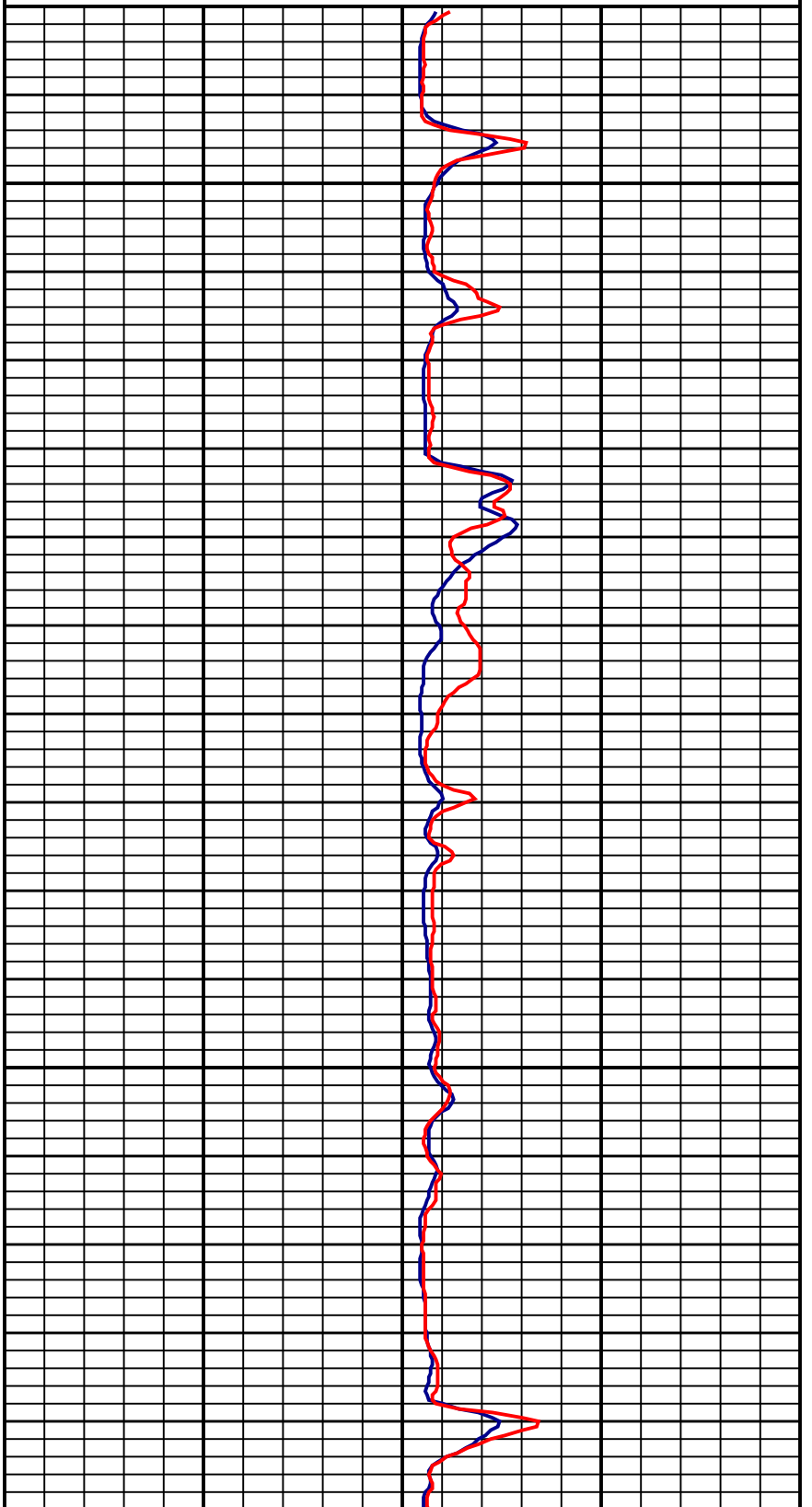
681'

700'

750'

800'

850'



Parks Water Resources
M-GWL-4
Dec 19, 2024

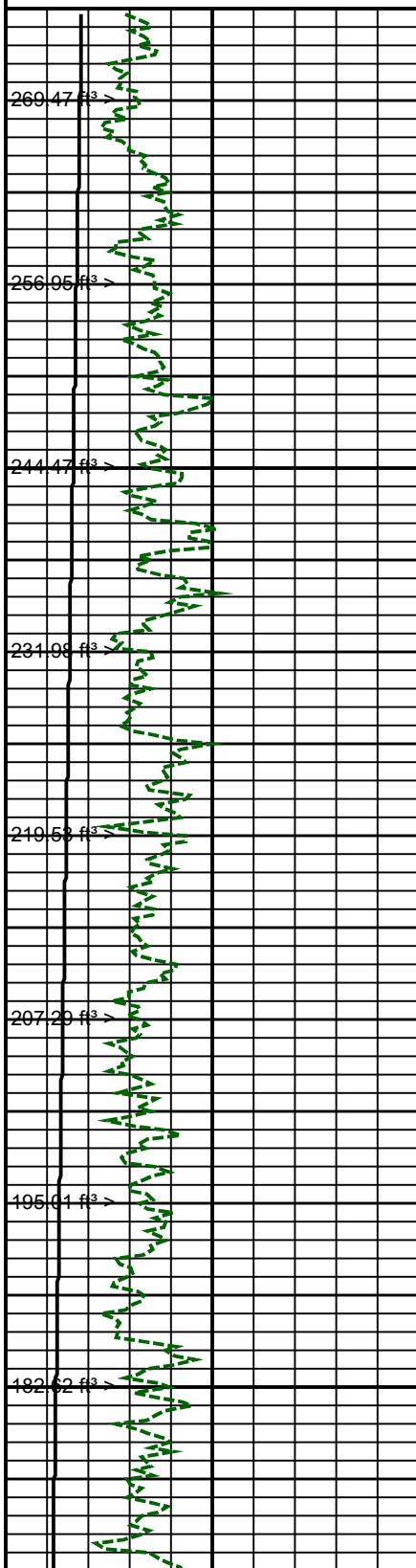
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20



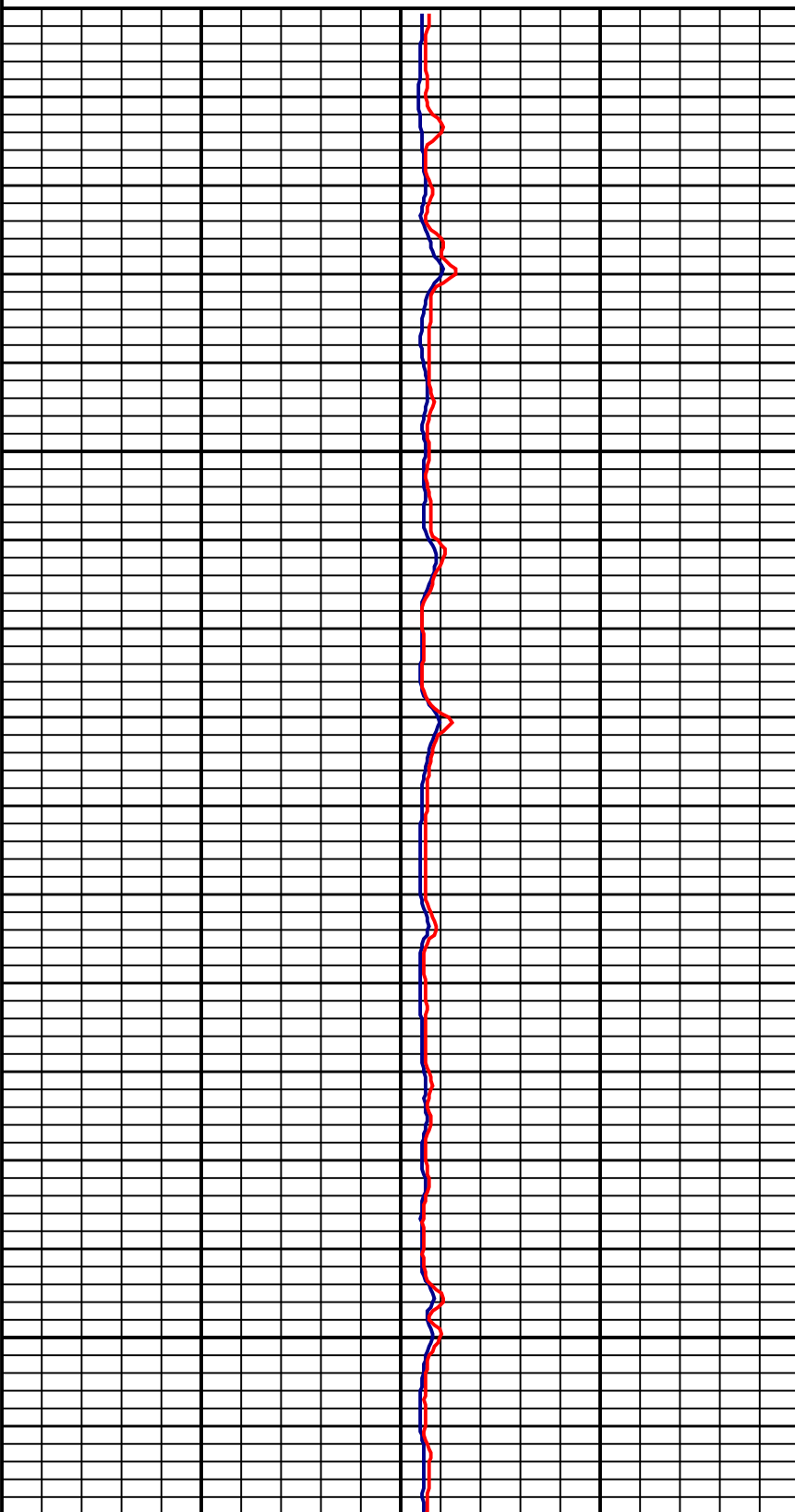
851'

900'

950'

1000'

1021'



Parks Water Resources
M-GWL-4
Dec 19, 2024

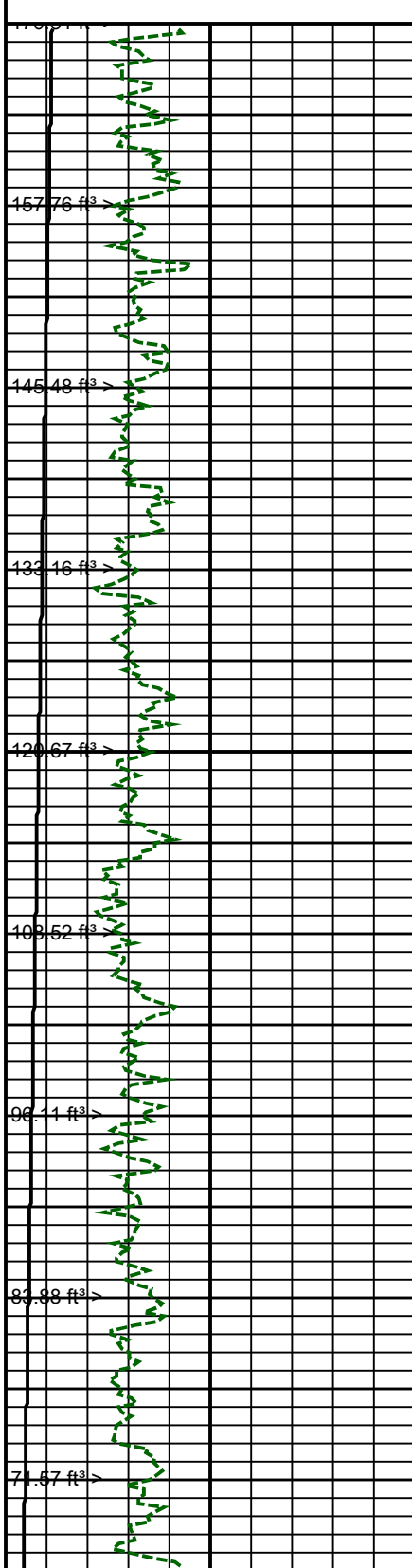
4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500
0 Gamma Ray(api) 200

0 Y Axis Caliper(inches) 20
0 X Axis Caliper(inches) 20



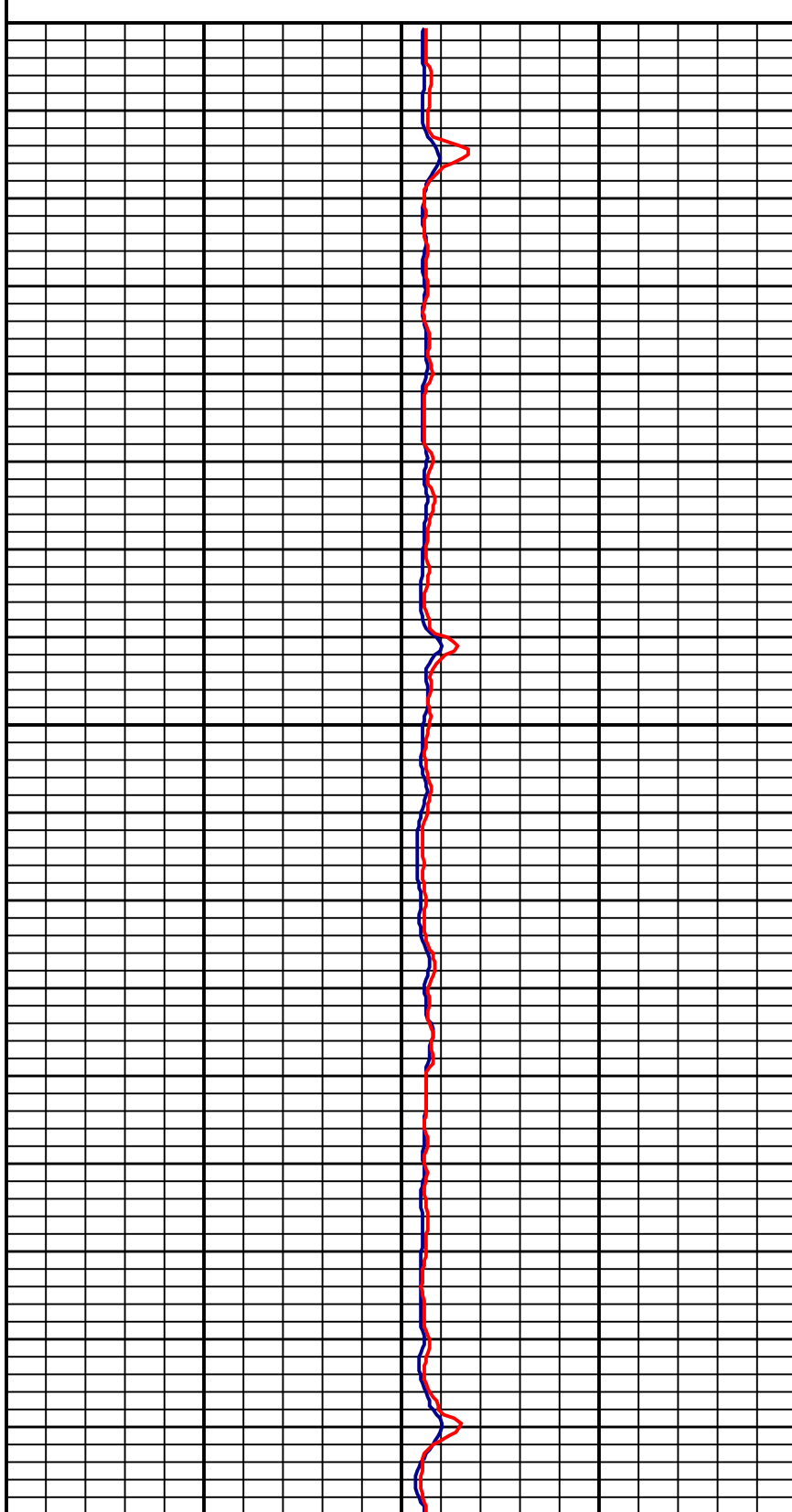
1021'

1050'

1100'

1150'

1191'



Parks Water Resources
M-GWL-4
Dec 19, 2024

4-ARM X-Y CALIPER LOG

Mult. Pages
5"/100'

DEPTHS
(Feet)

0 Borehole Volume (ft³) 1500

0 Gamma Ray(api) 200

0

Y Axis Caliper(inches)

20

0

X Axis Caliper(inches)

20

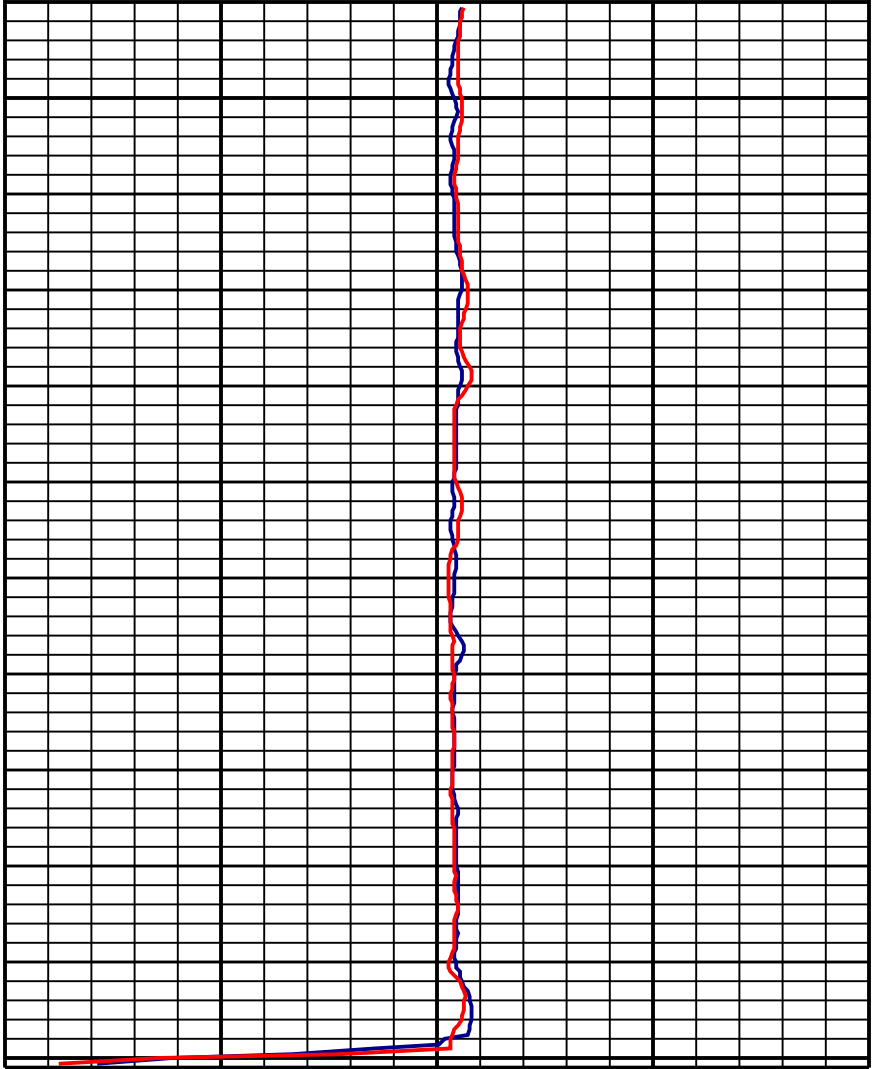
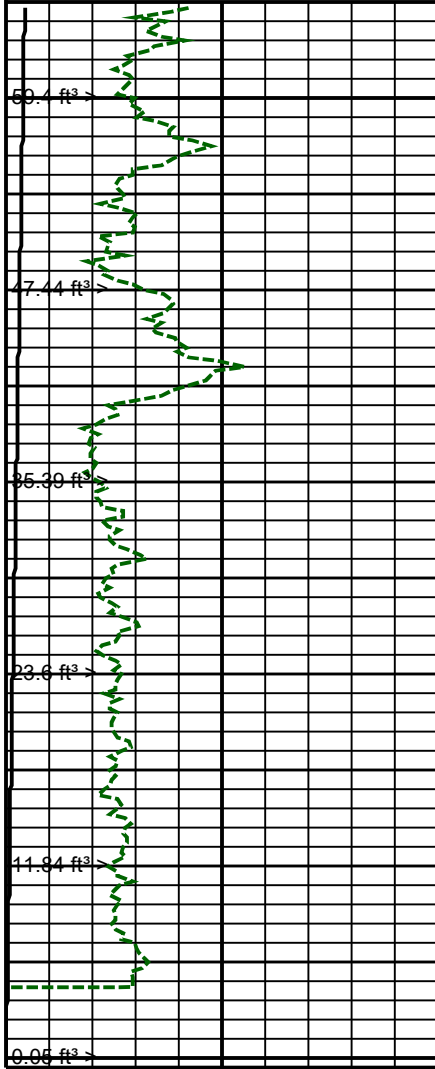
1191'

1200'

1250'

1300'

Log Depth 1300'



E-DA-2		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	70	Alluvial Materials (Qal)
70	130	Salinas Valley Aquitard
130	230	180-Foot Aquifer
230	440	180/400 Aquitard
440	660	400-Foot Aquifer (Upper Paso Robles Formation)
660	820	Deep Aquitard (Middle Paso Robles Formation)
820	1,300	Deep Aquifers (Lower Paso Robles Formation)
L-GWL-2		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	210	Alluvial Fan Deposits (Qp)
210	350	Granodiorite/Quartz Diorite (Kgdn/Kqdv)
L-GWL-6		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	30	Colluvium/Alluvial Deposits (Qc/Qal)
30	350	Aromas Red Sands (Qa)
UV-GWL-1		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	20	Flood Plain Deposits (Qfp)
20	100	Stream Channel Deposits (Qsc)
100	200	Paso Robles Formation, Undifferentiated (QTp)
UV-ISW-1		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	20	Flood Plain Deposits (Qfp)
20	100	Stream Channel Deposits (Qsc)
180/400-GDE-1		
Depth Top (feet bgs)	Depth Bottom (feet bgs)	Hydrogeologic Unit
0	45	Older Flood Plain Deposits (Oof)

UV-ISW-1

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Top Soil, grey/light brown, composed of gravel and cobbles, very fine to coarse-grained, poorly sorted, angular to rounded, dry
10	20	Top Soil, grey/light brown, composed of gravel and cobbles, very fine to coarse-grained, poorly sorted, angular to rounded, moist
20	30	Sand, tan/light brown, loose, very fine to fine-grained, subangular to rounded, well sorted, moist
30	40	Sand, light brown, loose, very fine-grained, subrounded to rounded, very well sorted
40	50	Clay with sand, tan, dense/stiff, moist, with very fine-grained angular to subrounded sand
50	60	Clay with sand, tan, dense/stiff, moist, with very fine-grained angular to subrounded sand
60	70	Clay with sand, tan, dense/stiff, wet, with very fine-grained angular to subrounded sand
70	80	Sand with clay, tan, very fine to fine-grained, angular to rounded, well sorted, wet
80	90	Clay with sand, tan, dense/stiff, moist, with very fine-grained subangular to rounded sand
90	100	Sand with clay, tan, very fine-grained, subangular to rounded, well sorted, wet

180/400-GDE-1

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Top Soil/Clay, brown, moist, soft, contains less than 5% sand 7.5YR 5/4
10	20	Clay with sand, brown, moist, soft, with fine-grained sand 7.5YR 4/2
20	30	Clay, brown with grey streaks, moist, firm 7.5YR 3/2
30	35	Clay with sand, grey with black streaks, moist, soft, with with fine-grained sand 7.5YR 3/1
35	40	Clay, blue, moist, firm, sticky GLE2 5/1
40	45	Clay, dark blue/grey, moist, firm, sticky GLE2 4/5B

L-GWL-2

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz
10	20	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
20	30	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
30	40	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
40	50	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
50	60	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
60	70	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
70	80	sand, white/tan, fine-coarse grained, well sorted, angular, abundant quartz and feldspars, minimal biotite
80	90	sand, white/tan, fine-coarse grained, well sorted, angular, abundant quartz and feldspars, minimal biotite
90	100	sand, white/tan, fine-coarse grained, well sorted, angular, abundant quartz and feldspars, minimal biotite
100	110	sand, white/tan, fine-coarse grained, well sorted, angular, abundant quartz and feldspars, minimal biotite
110	120	sand, white/tan, fine-coarse grained, well sorted, angular-very angular, abundant feldspars and quartz, minimal biotite
120	130	sand, white/tan, fine-coarse grained, well sorted, angular-very angular, abundant feldspars and quartz, minimal biotite
130	140	sand, white/tan, fine-coarse grained, well sorted, angular-very angular, abundant feldspars and quartz, minimal biotite
140	150	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
150	160	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
160	170	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
170	180	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
180	190	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite

190	200	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
200	210	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
210	220	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
220	230	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
230	240	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
240	250	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
250	260	sand, tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
260	270	sand, tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
270	280	sand, tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
280	290	sand, tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
290	300	clayey sand, white/tan, fine-coarse grained, very well sorted, angular- very angular, abundant quartz and feldspars, minimal biotite
300	310	clayey sand, white/tan, fine-coarse grained, very well sorted, angular- very angular, abundant quartz and feldspars, minimal biotite
310	320	clayey sand, white/tan, fine-coarse grained, very well sorted, angular- very angular, abundant quartz and feldspars, minimal biotite
320	330	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
330	340	sand, white/tan, fine-coarse grained, very well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite

L-GWL-6

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	sand, brown, fine-medium grained, well sorted, subangular-angular, abundant quartz and feldspar, minimal hematite
10	20	sand, brown, fine-medium grained, well sorted, subrounded-angular, abundant quartz and feldspar, minimal hematite
20	30	sand, brown, fine-medium grained, well sorted, subrounded-angular, abundant quartz and feldspar, minimal hematite
30	40	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
40	50	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
50	60	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
60	70	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
70	80	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
80	90	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
90	100	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
100	110	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hornblende
110	120	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hornblende
120	130	sandy clay, red/brown, soft
130	140	clayey sand, brown, fine-medium grained, well sorted, subrounded-angular, abundant quartz
140	150	sand, brown, fine-medium grained, well sorted, subrounded-subangular, abundant quartz, minimal hornblende
150	160	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz
160	170	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
170	180	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite and hornblende
180	190	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hematite
190	200	sand, white/tan, fine-medium grained, well sorted, subrounded-angular, abundant quartz and feldspars
200	210	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz
210	220	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz

220	230	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz
230	240	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz
240	250	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz
250	260	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz, minimal hornblende
260	270	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz,
270	280	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz,
280	290	sand, white/tan, fine-coarse grained, well sorted, subrounded-angular, abundant quartz and feldspars
290	300	clay, light brown, soft
300	310	sand, white/tan, fine-coarse grained, moderately sorted, subangular-angular, abundant quartz and feldspars
310	320	clayey sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant quartz and feldspars
320	330	sandy clay, reddish light brown, soft
330	340	clay, light brown, soft
340	350	sandy clay, light brown, soft

UV-GWL-1

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	gravely sand, white, fine-coarse grained, rounded-subangular, abundant quartz
10	20	gravely sand, white, fine-coarse grained, moderately sorted, subrounded-subangular, abundant quartz
20	30	gravely sand, white/tan, fine-coarse grained, moderately sorted, subrounded-very angular, abundant quartz
30	40	gravely sand, white/tan, fine-coarse grained, poorly sorted, rounded-angular, abundant chert
40	50	sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant chert
50	60	sand, tan, fine-coarse grained, poorly sorted, subrounded-angular, abundant chert
60	70	clayey gravel, tan , poorly sorted, rounded-angular, abundant chert
70	80	gravely clay, tan, soft
80	90	gravely clay, tan, firm
90	100	gravely clay, tan, firm
100	110	gravely clay, tan, firm
110	120	gravely clay, tan, soft
120	130	gravely clay, tan, soft
130	140	sand, grey, fine-coarse grained, moderately sorted, subrounded-angular, abundant chert
140	150	gravely clay, grey/brown, soft
150	160	clayey gravely sand, grey, fine-coarse grained, poorly sorted, rounded-angular, abundant chert
160	170	clay, grey, soft
170	180	clay, grey, soft
180	190	sand, dark grey, fine-coarse grained, well sorted, subrounded-angular, abundant chert and quartz
190	200	clay, grey/brown, firm

E-DA-2

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	sand, tan/black, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
10	20	sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars, minimal biotite
20	30	clayey, gravely sand, tan, fine-coarse grained, poorly sorted, subangular-angular, abundant quartz and feldspars
30	40	clayey sand, tan, fine-coarse grained, very well sorted, subangular-angular, abundant quartz and feldspars, minimal biotite
40	50	clay, brown, firm
50	60	sandy clay, brown, firm
60	70	sand, white/tan, fine-coarse grained, very well sorted, subangular-angular, abundant quartz and feldspars, minimal biotite
70	80	clay, grey, very firm
80	90	clay, grey, very firm
90	100	clay, dark grey, very firm
100	110	clay, grey, firm
110	120	clay, grey, firm
120	130	clay, grey, soft
130	140	clay, grey, soft
140	150	sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
150	160	sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
160	170	clayey sand light brown, fine-medium grained, well sorted, subrounded-subangular, abundant quartz and feldspars
170	180	sand, brown, fine grained, very well sorted, subrounded-subangular, abundant quartz and feldspars
180	190	clay, brown, soft
190	200	clay, brown, soft
200	210	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
210	220	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
220	230	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
230	240	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
240	250	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
250	260	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
260	270	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
270	280	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars

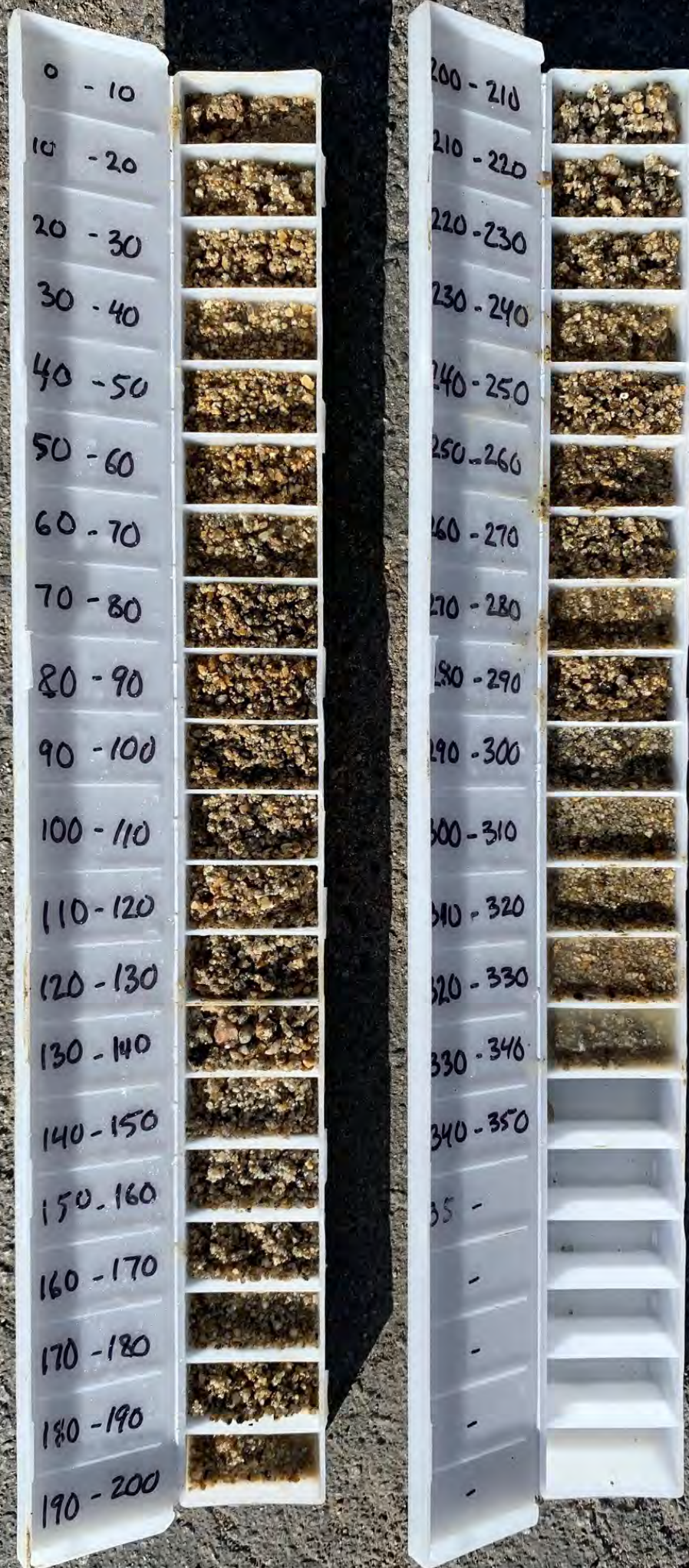
280	290	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
290	300	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
300	310	clayey sand, tan, fine-medium grained, well sorted, subangular-angular, abundant quartz and feldspars
310	320	clayey sand, tan, fine-medium grained, very well sorted, subrounded-subangular, abundant quartz and feldspars
320	330	clay, brown, soft
330	340	clay, brown, soft
340	350	clay, brown, firm
350	360	clayey sand, tan, fine-coarse grained, well sorted, subrounded-angular, abundant quartz and feldspars
360	370	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
370	380	sandy clay, brown, firm
380	390	clay, brown, firm
390	400	clay, brown, firm
400	410	clay, brown, soft
410	420	clay, brown, soft
420	430	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
430	440	sandy clay, brown, firm
440	450	clayey sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
450	460	clayey sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant quartz and chert
460	470	sand, white/tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and chert
470	480	sand, white/tan, fine-medium grained, very well sorted, subrounded-angular, abundant quartz
480	490	clayey sand, tan, fine-medium grained, very well sorted, subrounded-subangular, abundant quartz
490	500	clayey sand, white/tan, fine-coarse grained, well sorted, subrounded-subangular, abundant quartz and chert
500	510	clayey sand, white/tan, fine-coarse grained, well sorted, subrounded-angular, abundant quartz and feldspars
510	520	sand white/tan, fine-coarse grained, well sorted, subrounded-angular, abundant quartz and feldspars
520	530	gravely sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant quartz and chert
530	540	gravely sand, white/tan, fine-coarse grained, poorly sorted, subrounded-angular, abundant quartz, minimal chert
540	550	clayey sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant quartz, minimal chert
550	560	sand, white/tan, fine-coarse grained, moderately sorted, subrounded-angular, abundant quartz and chert

560	570	clayey sand, white/tan, fine-medium grained, well sorted, subrounded-angular, abundant quartz, minimal chert
570	580	sandy clay, brown, soft
580	590	clayey sand, white/tan, fine-medium grained moderately sorted, subrounded-angular, abundant quartz and chert
590	600	clayey sand, white/tan, fine-medium grained, moderately sorted, subangular-angular, abundant quartz, minimal chert
600	610	sandy clay, brown, soft/runny
610	620	sandy clay, brown, soft/runny
620	630	sandy clay, brown, soft/runny
630	640	clayey sand, tan, fine-medium grained, well sorted, subangular-angular, abundant quartz and feldspars
640	650	sandy clay, brown, soft
650	660	sandy clay, brown, soft
660	670	sand, tan, fine-medium grained, very well sorted, subrounded-angular, abundant quartz and feldspars
670	680	sand, tan, fine grained, very well sorted, subrounded-angular, abundant quartz and feldspars
680	690	sand, tan, fine grained, very well sorted, subrounded-angular, abundant quartz and feldspars
690	700	sand, tan, fine grained, very well sorted, subrounded-angular, abundant quartz and feldspars
700	710	sandy clay, brown, soft
710	720	sandy clay, brown, soft
720	730	sandy clay, brown, a lot of hard fine-coarse grained of clay
730	740	sandy clay, brown, soft
740	750	sandy clay, brown, soft
750	760	clay, brown, firm
760	770	clay, brown, firm
770	780	clayey sand, white/brown, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
780	790	sandy clay, brown, firm
790	800	sandy clay, brown, firm
800	810	clayey sand, white/tan, fine-coarse grained, moderately sorted, angular-very angular, abundant quartz
810	820	clayey sand, white, fine-medium grained, very well sorted, angular-very angular, abundant quartz
820	830	sand, tan/white, fine-coarse grained , well sorted, angular-very angular, abundant quartz and feldspars
830	840	sand, tan/white, fine-coarse grained , well sorted, angular-very angular, abundant quartz and feldspars
840	850	sand, tan/white, fine-coarse grained , well sorted, angular-very angular, abundant quartz and feldspars
850	860	clayey sand, brown, fine-medium grained, very well sorted, subrounded-angular, abundant quartz and feldspars
860	870	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite

870	880	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
880	890	sandy clay, brown, soft
890	900	clayey sand, tan, fine-coarse grained, well sorted, subangular-angular, abundant quartz and feldspars
900	910	clayey sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
910	920	clayey sand, tan, fine-medium grained, well sorted, angular-very angular, abundant quartz and feldspars
920	930	clayey sand, tan, fine-medium grained, very well sorted, angular-very angular, abundant quartz and feldspars
930	940	sand, tan, fine-coarse grained, moderately sorted, angular-very angular, abundant quartz and feldspars
940	950	gravely sand, tan, fine-coarse grained, poorly sorted, angular-very angular, abundant quartz and feldspars
950	960	gravely sand, tan, fine-coarse grained, poorly sorted, angular-very angular, abundant quartz and feldspars
960	970	sand, tan, fine-medium grained, moderately sorted, angular-very angular, abundant quartz and feldspars
970	980	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
980	990	clayey sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
990	1000	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1000	1010	sand, tan, fine-medium grained, well sorted, angular-very angular, abundant quartz and feldspars
1010	1020	sand, tan, fine-medium grained, well sorted, angular-very angular, abundant quartz and feldspars
1020	1030	sand, tan, fine-medium grained, well sorted, angular-very angular, abundant quartz and feldspars
1030	1040	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1040	1050	sand, tan, fine-medium grained, well sorted, angular-very angular, abundant quartz and feldspars
1050	1060	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1060	1070	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1070	1080	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1080	1090	clayey sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1090	1100	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1100	1110	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1110	1120	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars

1120	1130	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1130	1140	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1140	1150	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1150	1160	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars, minimal biotite
1160	1170	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1170	1180	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1180	1190	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1190	1200	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1200	1210	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1210	1220	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1220	1230	sand, tan, fine-coarse grained, well sorted, angular-very angular, abundant quartz and feldspars
1230	1240	sand, tan, fine-medium grained, very well sorted, angular-very angular, abundant quartz and feldspars
1240	1250	sand, white, fine-medium grained, very well sorted, subangular-very angular, abundant quartz and feldspars
1250	1260	sand, white, fine-medium grained, very well sorted, subangular-very angular, abundant quartz and feldspars
1260	1270	sand, white, fine-medium grained, very well sorted, subangular-very angular, abundant quartz and feldspars
1270	1280	sand, white, fine-coarse grained, well sorted, subangular-very angular, abundant quartz and feldspars
1280	1290	sand, white, fine-coarse grained, well sorted, rounded-very angular, abundant quartz and feldspars
1290	1300	sand, white, fine-coarse grained, well sorted, rounded-very angular, abundant quartz and feldspars

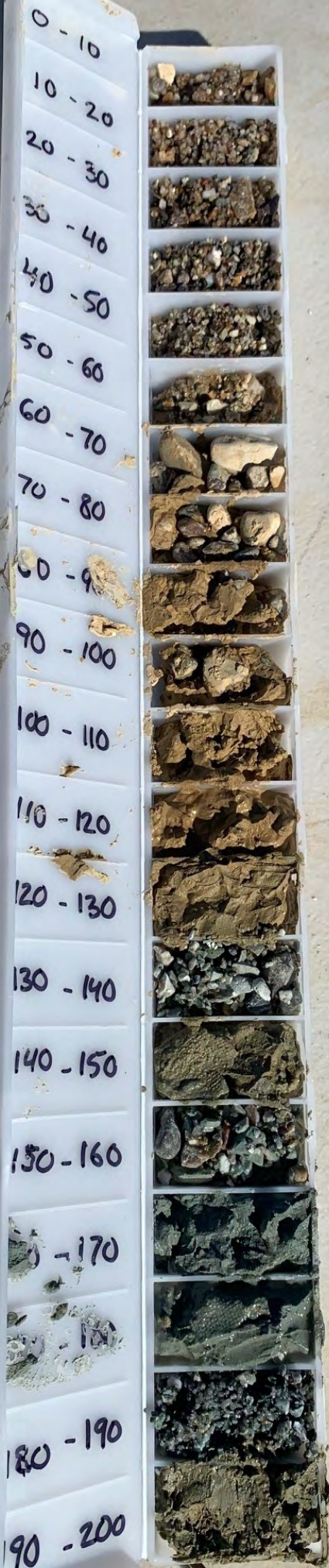
L-GWL-2



L-GWL-6



UV-GWL-1





E-DA-2

400 - 410

410 - 420

420 - 430

430 - 440

440 - 450

450 - 460

460 - 470

470 - 480

480 - 490

⁴⁹⁰
~~500~~ - 500

500 - 510

510 - 520

520 - 530

530 - 540

~~540~~ - 550

550 - 560

560 - 570

570 - 580

580 - 590

590 - 600

600 - 610

610 - 620

620 - 630

630 - 640

640 - 650

650 - 660

660 - 670

670 - 680

680 - 690

690 - 700

700 - 710

710 - 720

720 - 730

730 - 740

740 - 750

750 - 760

760 - 770

770 - 780

780 - 790

790 - 800

800 - 810

810 - 820

820 - 830

830 - 840

840 - 850

E-DA-2

800 - 810	
810 - 820	
820 - 830	
830 - 840	
840 - 850	
850 - 860	
860 - 870	
870 - 880	
880 - 890	
890 - 900	
900 - 910	
910 - 920	
920 - 930	
930 - 940	
940 - 950	
950 - 960	
960 - 970	
970 - 980	
980 - 990	
990 - 1000	

1000 - 1010	
1010 - 1020	
1020 - 1030	
1030 - 1040	
1040 - 1050	
1050 - 1060	
1060 - 1070	
1070 - 1080	
1080 - 1090	
1090 - 1100	
1100 - 1110	
1110 - 1120	
1120 - 1130	
1130 - 1140	
1140 - 1150	
1150 - 1160	
1160 - 1170	
1170 - 1180	
1180 - 1190	
1190 - 1200	

E-DA-2

1200 - 1210

1210 - 1220

1220 - 1230

1230 - 1240

1240 - 1250

1250 - 1260

1260 - 1270

1270 - 1280

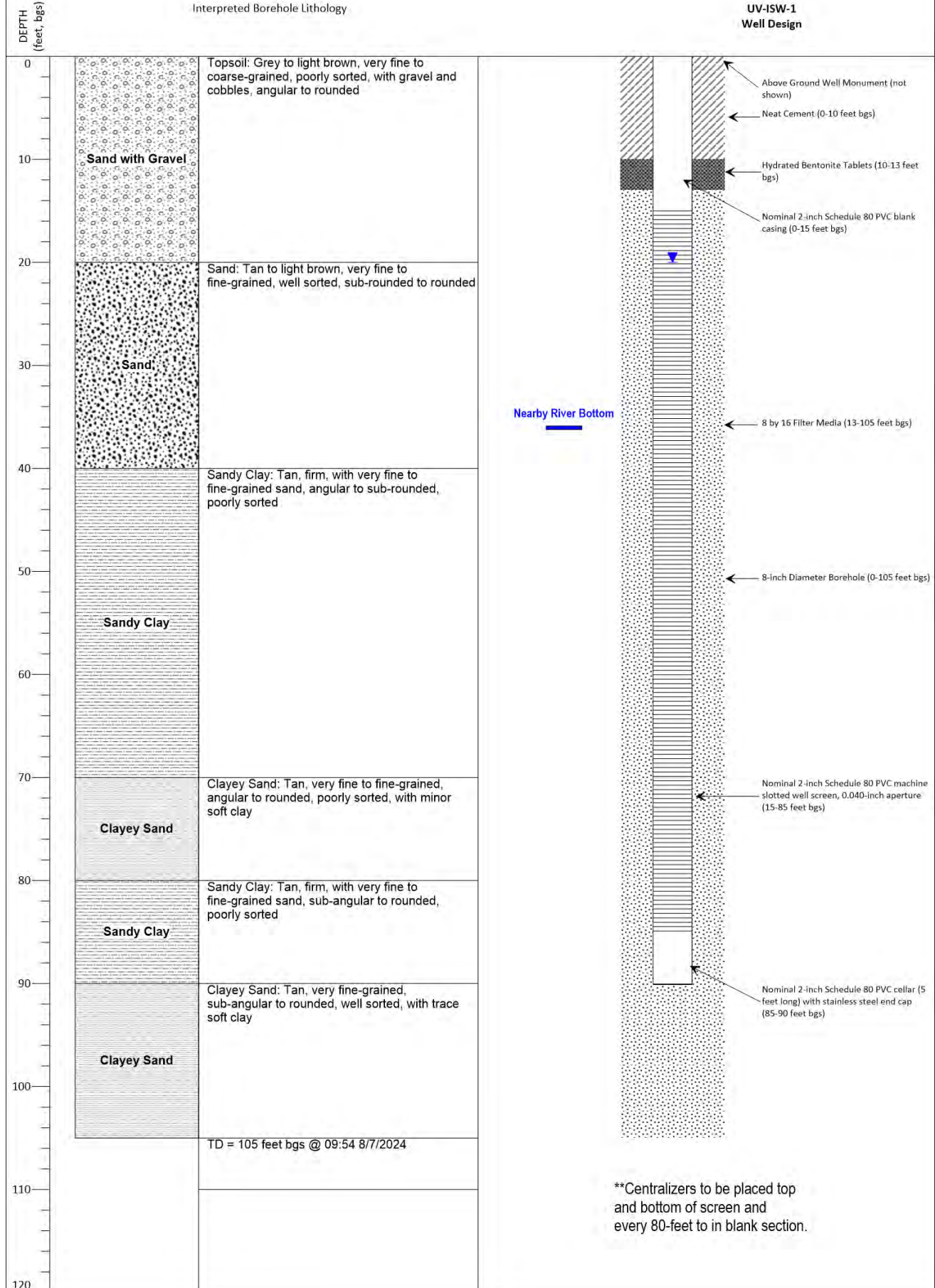
1280 - 1290

1290 - 1300

UV-ISW-1 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley Basin GSA
Driller: Parks Water Resources
Method: Hollow Stem Auger

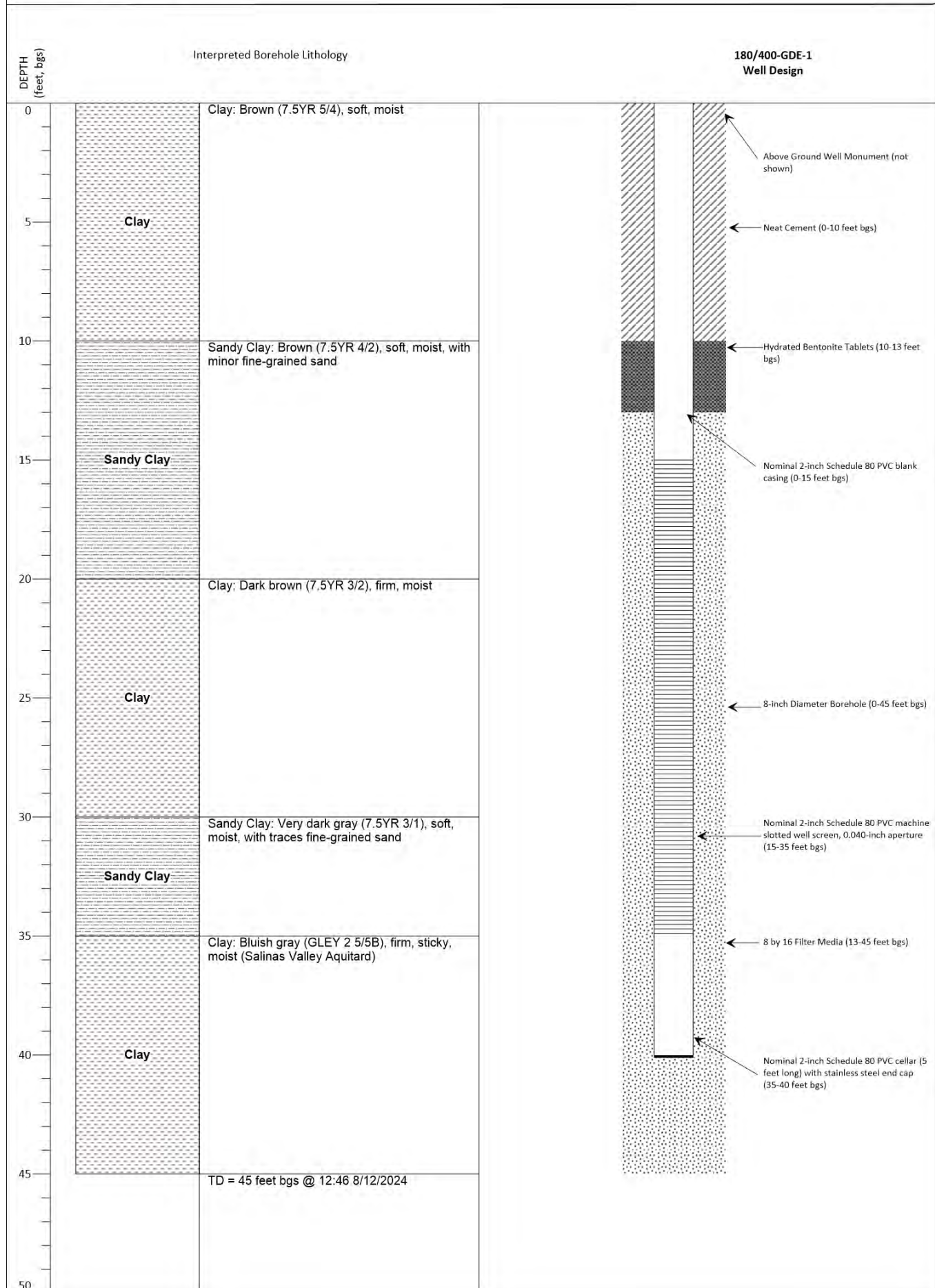
August 7, 2024



180/400-GDE-1 Well Design - FINAL FOR CONSTRUCTION

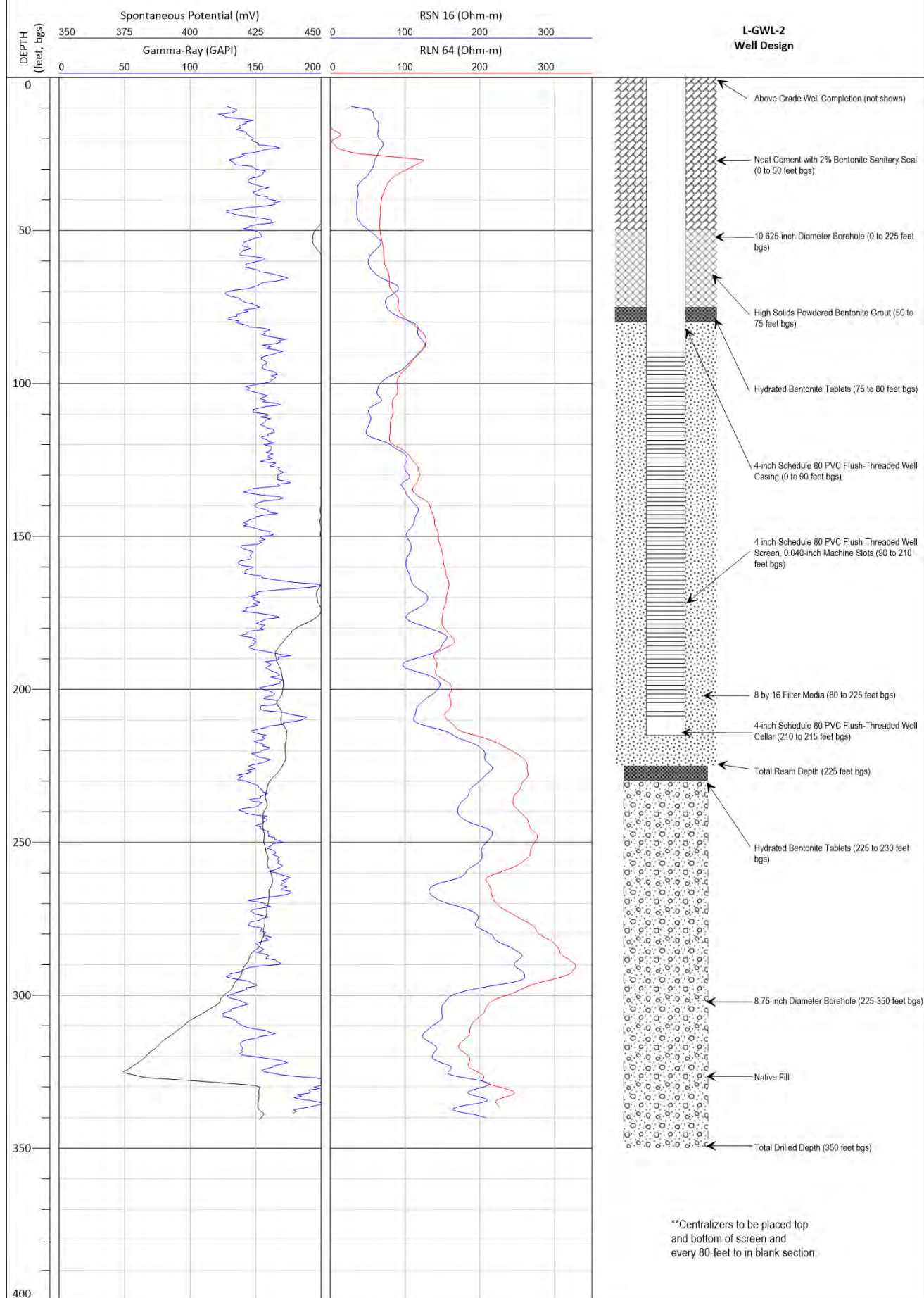
Client: Salinas Valley Basin GSA
Driller: Parks Water Resources
Method: Hollow Stem Auger

August 13, 2024



Client: Salinas Valley Basin GSA
 Driller: Parks Water Resources
 Method: Direct Mud Rotary

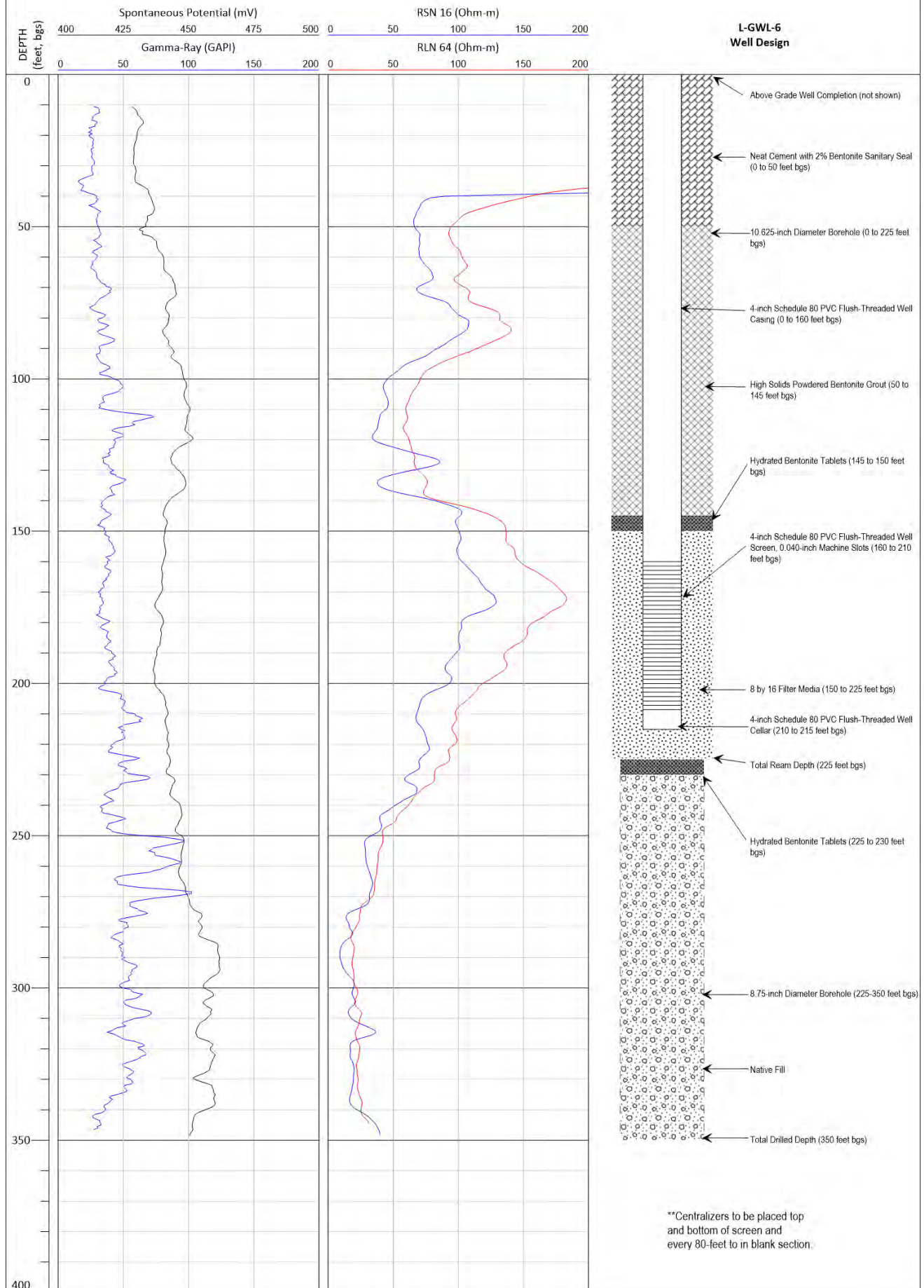
October 25, 2024



L-GWL-6 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley Basin GSA
Driller: Parks Water Resources
Method: Direct Mud Rotary

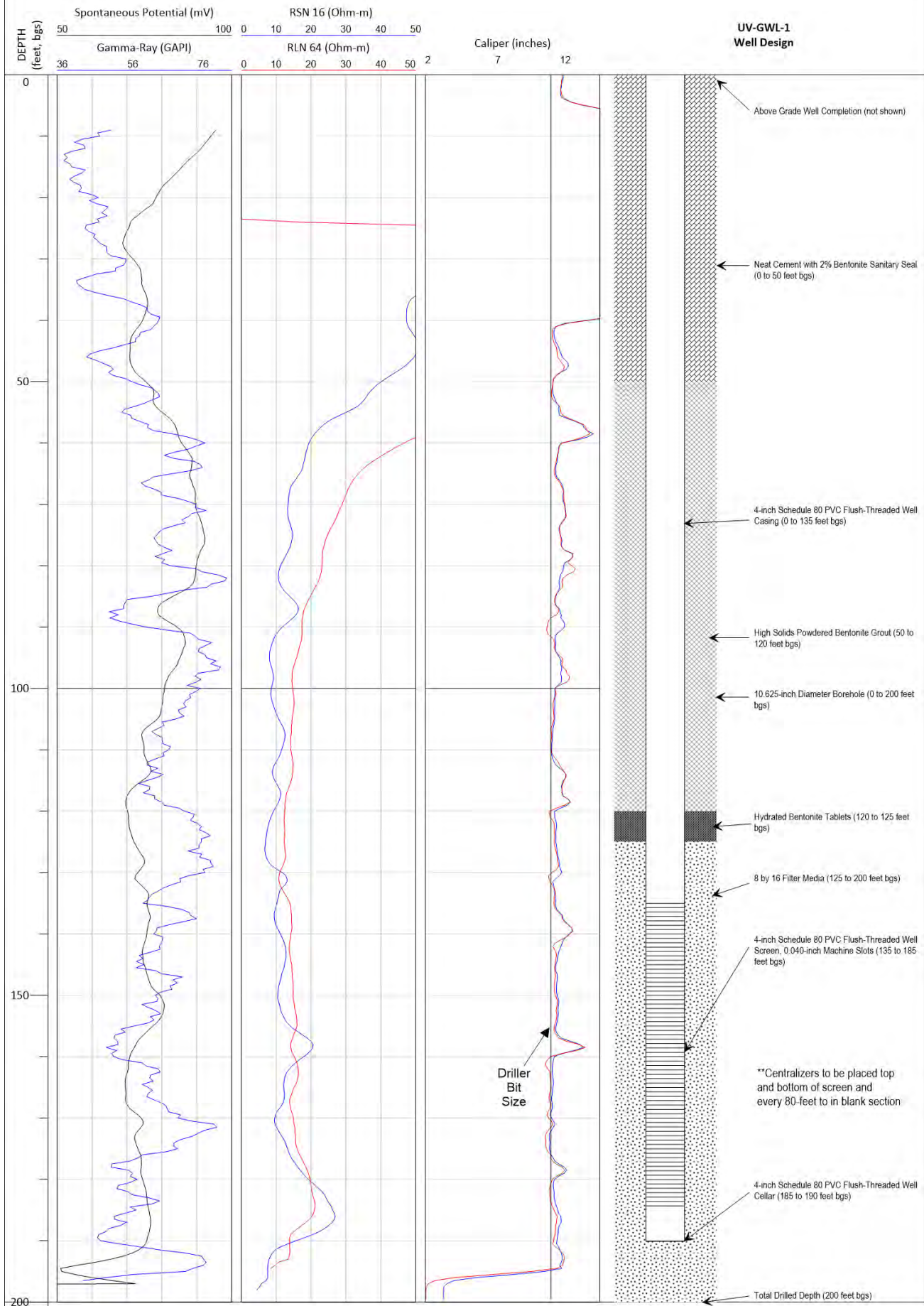
November 7, 2024



UV-GWL-1 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley Basin GSA
Driller: Parks Water Resources
Method: Direct Mud Rotary

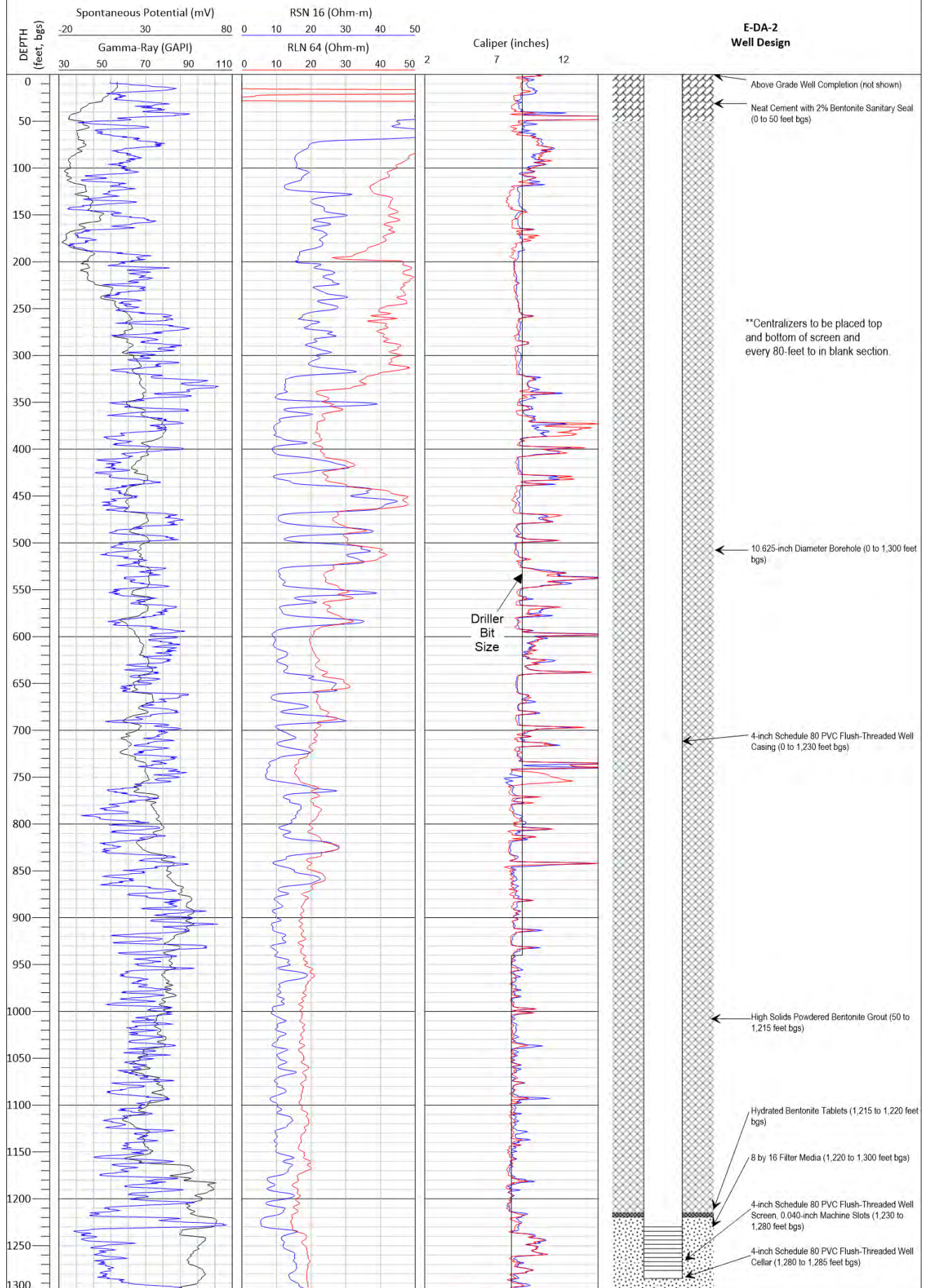
November 21, 2024



E-DA-2 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley Basin GSA
Driller: Parks Water Resources
Method: Direct Mud Rotary

December 12, 2024



State of California
Well Completion Report
Form DWR 188 Submitted 12/3/2024
WCR2024-012662

Owner's Well Number UV-ISW-1 Date Work Began 08/05/2024 Date Work Ended 08/07/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000014 Permit Date 07/27/2024

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>
City <u>Carmel Valley</u> State <u>Ca</u> Zip <u>93924</u>	

Well Location			
Address <u>0 Bradley Rd.</u>		APN <u>SEA25-000015</u>	
City <u>Bradley</u>	Zip <u>93426</u>	County <u>Monterey</u>	Township <u>24 S</u>
Latitude <u>35</u> <u>51</u> <u>51.3072</u> <u>N</u>	Longitude <u>-120</u> <u>48</u> <u>23.3424</u> <u>W</u>	Range <u>11 E</u>	Section <u>08</u>
Deg. Min. Sec.	Deg. Min. Sec.	Baseline Meridian <u>Mount Diablo</u>	
Dec. Lat. <u>35.864252</u>	Dec. Long. <u>-120.806484</u>	Ground Surface Elevation _____	
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy _____	
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method _____	

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Auger</u> Drilling Fluid <u>None</u>	Depth to Static _____
Total Depth of Boring <u>105</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>90</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
<u>0</u>	<u>20</u>	<u>Sand w/Gravel</u>
<u>20</u>	<u>40</u>	<u>Sand</u>
<u>40</u>	<u>70</u>	<u>Sandy Clay</u>
<u>70</u>	<u>80</u>	<u>Clay Sand</u>
<u>80</u>	<u>90</u>	<u>Sandy Clay</u>
<u>90</u>	<u>105</u>	<u>Clay Sand</u>

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size If any (inches)	Description
1	0	15	Blank	PVC	N/A	0.218	2			PVC SCH 80
2	15	85	Screen	PVC	N/A	0.218	2	Milled Slots	0.04	PVC SCH 80
3	85	90	Blank	PVC	N/A	0.218	2			PVC SCH 80

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	10	Cement	Portland Cement/Neat Cement		
10	13	Bentonite	Other Bentonite		Tablets
13	105	Filter Pack	Other Gravel Pack		SRI#8

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	15	8
15	85	8
85	105	8

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name <u>PARKS WATER RESOURCES LLC</u>			
Person, Firm or Corporation			
<u>P O BOX 494</u>	<u>ZAMORA</u>	<u>CA</u>	<u>95698</u>
Address	City	State	Zip
Signed <u>electronic signature received</u>	<u>12/04/2024</u>	<u>1113206</u>	
C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number	

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
		N	W
Latitude Deg/Min/Sec		Longitude Deg/Min/Sec	
TRS:			
APN:			

State of California
Well Completion Report
Form DWR 188 In Review 2/4/2025
WCR2024-012703

Owner's Well Number 180-400-GDE-1 Date Work Began 08/12/2024 Date Work Ended 08/13/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000019 Permit Date 07/27/2024

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>
City <u>Carmel Valley</u> State <u>CA</u> Zip <u>93924</u>	

Well Location									
Address <u>0 Somavia Rd.</u>					APN <u>137-041-018</u>				
City <u>Salinas</u>	Zip <u>93908</u>	County <u>Monterey</u>			Township <u>15 S</u>				
Latitude <u>36</u> <u>35</u> <u>12.8148</u> <u>N</u>	Longitude <u>-121</u> <u>33</u> <u>50.3028</u> <u>W</u>	Range <u>04 E</u>							
Deg. <u></u> Min. <u></u> Sec. <u></u>	Deg. <u></u> Min. <u></u> Sec. <u></u>	Section <u>31</u>							
Dec. Lat. <u>36.586893</u>					Dec. Long. <u>-121.563973</u>				
Vertical Datum <u></u>					Horizontal Datum <u>WGS84</u>				
Location Accuracy <u></u>					Location Determination Method <u></u>				
					Baseline Meridian <u>Mount Diablo</u>				
					Ground Surface Elevation <u></u>				
					Elevation Accuracy <u></u>				
					Elevation Determination Method <u></u>				

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify <u></u>	Depth to first water <u></u> (Feet below surface)
Drilling Method <u>Auger</u> Drilling Fluid <u>None</u>	Depth to Static <u></u>
Total Depth of Boring <u>45</u> Feet	Water Level <u></u> (Feet) Date Measured <u></u>
Total Depth of Completed Well <u>40</u> Feet	Estimated Yield* <u></u> (GPM) Test Type <u></u>
	Test Length <u></u> (Hours) Total Drawdown <u></u> (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet	Description	
0	10	Clay
10	20	Sandy clay
20	30	Clay
30	35	Sandy Clay
35	45	Clay

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	15	Blank	PVC	N/A	0.218	2			PVC SCH 80
2	15	35	Screen	PVC	N/A	0.218	2	Milled Slots	0.04	PVC SCH 80
3	35	40	Blank	PVC	N/A	0.218	2			PVC SCH 80

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	10	Cement	Portland Cement/Neat Cement		
10	13	Bentonite	Other Bentonite		Tablets
13	45	Filter Pack	Other Gravel Pack		SRI#8

Other Observations:

Borehole Specifications			
Depth from Surface Feet to Feet		Borehole Diameter (inches)	
0	15	8	
15	35	8	
35	45	8	

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name <u>PARKS WATER RESOURCES LLC</u>				
Person, Firm or Corporation				
P O BOX 494		ZAMORA	CA	95698
Address		City	State	Zip
Signed	<u>electronic signature received</u>	12/04/2024	1113206	
	C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number	

DWR Use Only												
CSG #	State Well Number				Site Code			Local Well Number				
					N							W
Latitude Deg/Min/Sec						Longitude Deg/Min/Sec						
TRS:												
APN:												

State of California
Well Completion Report
Form DWR 188 Submitted 12/2/2024
WCR2024-012624

Owner's Well Number L-GWL-2 Date Work Began 10/21/2024 Date Work Ended 10/25/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000016 Permit Date 07/27/2024

Well Owner (must remain confidential pursuant to Water Code 13752)		Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity <u>New Well</u>	
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>	
City <u>Carmel Valley</u> State <u>Ca</u> Zip <u>93924</u>		

Well Location	
Address <u>0 San Juan Grade</u>	APN <u>SEA25-000016</u>
City <u>Salinas</u> Zip <u>93908</u> County <u>Monterey</u>	Township <u>13 S</u>
Latitude <u>36</u> <u>46</u> <u>23.0484</u> <u>N</u> Longitude <u>-121</u> <u>36</u> <u>12.708</u> <u>W</u>	Range <u>03 E</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>26</u>
Dec. Lat. <u>36.773069</u> Dec. Long. <u>-121.60353</u>	Baseline Meridian <u>Mount Diablo</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>350</u> Feet	Water Level <u>37</u> (Feet) Date Measured _____
Total Depth of Completed Well <u>215</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	25	Coarse Sand
25	34	Hard Coarse Sand
34	65	Coarse Sand & Clay
65	72	Hard Coarse Sand (Broken Granite)
72	77	Hard Layer (Broken Granite)
77	108	Hard Coarse Sand
108	119	Consolidate Decomposed Granite
119	177	Hard Fine Gravel
177	188	Broken Granite
188	208	Consolidated Decomposed Fine Granite
208	223	Mixed Fine Gravel w/Hard Granite
223	255	Consolidated Decomposed Granite
255	262	Hard Brown Silt
262	288	Consolidated Decomposed Granite

State of California
Well Completion Report
Form DWR 188 Submitted 12/2/2024
WCR2024-012623

Owner's Well Number L-GWL-6 Date Work Began 11/04/2024 Date Work Ended 11/07/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000018 Permit Date 08/30/2024

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>
City <u>Carmel Valley</u> State <u>Ca</u> Zip <u>93924</u>	

Well Location			
Address <u>0 San Miguel Canyon Rd.</u>		APN <u>SEA25-000018</u>	
City <u>Salinas</u>	Zip <u>93908</u>	County <u>Monterey</u>	Township <u>13 S</u>
Latitude <u>36</u> <u>50</u> <u>5.8235</u> <u>N</u>	Longitude <u>-121</u> <u>40</u> <u>53.7852</u> <u>W</u>	Range <u>03 E</u>	Section <u>06</u>
Deg. Min. Sec.	Deg. Min. Sec.	Baseline Meridian <u>Mount Diablo</u>	
Dec. Lat. <u>36.834951</u>	Dec. Long. <u>-121.681607</u>	Ground Surface Elevation _____	
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy _____	
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method _____	

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>350</u> Feet	Water Level <u>178</u> (Feet) Date Measured _____
Total Depth of Completed Well <u>225</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	8	Coarse Sand
8	52	Red Sandy Silt
52	61	Fine Hard Sand
61	66	White Ashy Silt
66	98	Decomposed Granite (soft)
98	110	Dark Decomposed Granite
110	132	Red Sandy Ash
132	231	Cemented Sand Fine
231	238	Decomposed Granite
238	270	Brown Sandy Silt
270	276	Black Sandy Gravel
276	282	Grey Sand Clay
282	290	White Cemented Sand
290	294	Green Grey Clay

294	301	Sandy Blue Clay
301	307	White Sandy Brown Clay
307	316	Brown Decomposed Granite
316	323	Decomposed Granite & Sand
323	342	Soft Sandy Silt
342	350	Hard Cemented Sand

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size If any (inches)	Description
1	0	160	Blank	PVC	N/A	0.337	4			PVC SCH 80
2	160	210	Screen	PVC	N/A	337	4	Milled Slots	0.04	PVC SCH 80
3	210	225	Blank	PVC	N/A	0.337	4			PVC SCH 80

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	50	Cement	Other Cement		2% Bentonite
50	145	Bentonite	High Solids		
145	150	Bentonite	Other Bentonite		Tablets
150	225	Filter Pack	Other Gravel Pack		SRI#8
225	350	Other Fill	See description.		Native Fill

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (Inches)
0	160	10.625
160	210	10.625
210	350	10.625

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name <u>PARKS WATER RESOURCES LLC</u>				
Person, Firm or Corporation				
<u>P O BOX 494</u>	<u>ZAMORA</u>	<u>CA</u>	<u>95698</u>	
Address	City	State	Zip	
Signed <u>electronic signature received</u>	<u>12/02/2024</u>	<u>1113206</u>		
C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number		

DWR Use Only											
CSG #	State Well Number				Site Code			Local Well Number			
					N						W
Latitude Deg/Min/Sec						Longitude Deg/Min/Sec					
TRS:											
APN:											

State of California
Well Completion Report
Form DWR 188 Submitted 12/4/2024
WCR2024-012721

Owner's Well Number UV-GWL-1 Date Work Began 11/19/2024 Date Work Ended 11/21/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000015 Permit Date 07/27/2024

Well Owner (must remain confidential pursuant to Water Code 13752)		Planned Use and Activity	
Name	<u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity	<u>New Well</u>
Mailing Address	<u>PO Box 1350</u>	Planned Use	<u>Monitoring</u>
City	<u>Carmel Valley</u>		
State	<u>CA</u>		
Zip	<u>93924</u>		

Well Location			
Address <u>0 Bradley Rd.</u>		APN <u>SEA25-000014</u>	
City <u>Bradley</u>	Zip <u>93426</u>	County <u>Monterey</u>	Township <u>24 S</u>
Latitude <u>35</u> <u>51</u> <u>51.0479</u> <u>N</u>	Longitude <u>-120</u> <u>48</u> <u>22.6799</u> <u>W</u>	Range <u>11 E</u>	Section <u>08</u>
Deg. Min. Sec.	Deg. Min. Sec.	Baseline Meridian <u>Mount Diablo</u>	
Dec. Lat. <u>35.86418</u>	Dec. Long. <u>-120.8063</u>	Ground Surface Elevation _____	
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy _____	
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method _____	

Borehole Information		Water Level and Yield of Completed Well	
Orientation <u>Vertical</u>	Specify _____	Depth to first water _____ (Feet below surface)	
Drilling Method <u>Direct Rotary</u>	Drilling Fluid <u>Bentonite</u>	Depth to Static _____	
Total Depth of Boring <u>200</u> Feet		Water Level _____ (Feet)	Date Measured _____
Total Depth of Completed Well <u>190</u> Feet		Estimated Yield* _____ (GPM)	Test Type _____
		Test Length _____ (Hours)	Total Drawdown _____ (feet)
		*May not be representative of a well's long term yield.	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	5	Road Base
5	12	Coarse Sand
12	28	Coarse Sand & Gravel
28	38	Rounded Rock & Sand
38	56	Sandy Brown Clay
56	60	Broken Rock to Hard Silt
60	70	Brown Clay
70	90	Clay w/layered rock
90	95	Broken rock & gravel
95	112	Brown Clay
112	120	Black Rounded Rock
120	132	Soft Brown Clay
132	140	Blue Clay/Silt
140	152	Brown Clay

152	158	Blue Clay
158	160	Broken Black Rock
160	178	Sandy Blue Clay
178	193	Layered Mixed Gravel
193	200	Sandy Blue Clay

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	135	Blank	PVC	N/A	0.337	4			PVC SCH 80
2	135	185	Screen	PVC	N/A	0.337	4	Milled Slots	0.04	PVC SCH 80
3	185	190	Blank	PVC	N/A	0.337	4			PVC SCH 80

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	50	Cement	Other Cement		2% Bentonite
50	120	Bentonite	High Solids		
120	125	Bentonite	Other Bentonite		Tablets
125	200	Filter Pack	Other Gravel Pack		SRI#8

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (Inches)
0	135	10.625
135	185	10.625
185	200	10.625

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name <u>PARKS WATER RESOURCES LLC</u>			
Person, Firm or Corporation			
<u>P O BOX 494</u>	<u>ZAMORA</u>	<u>CA</u>	<u>95698</u>
Address	City	State	Zip
Signed <u>electronic signature received</u>	<u>12/04/2024</u>	<u>1113206</u>	
C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number	

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
		N	W
Latitude Deg/Min/Sec		Longitude Deg/Min/Sec	
TRS:			
APN:			

State of California
Well Completion Report
Form DWR 188 Submitted 2/3/2025
WCR2025-001158

Owner's Well Number E-DA-2 Date Work Began 12/03/2024 Date Work Ended 12/12/2024
Local Permit Agency Environmental Health Services of Monterey County
Secondary Permit Agency _____ Permit Number 25-000017 Amdt#1 Permit Date 07/27/2024

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUND WATER SUSTAINABLE AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>
City <u>Carmel Valley</u> State <u>Ca</u> Zip <u>93924</u>	

Well Location	
Address <u>12310 Christensen Rd.</u>	APN <u>SEA25-000017</u>
City <u>Salinas</u> Zip <u>93908</u> County <u>Monterey</u>	Township <u>14 S</u>
Latitude <u>36</u> <u>44</u> <u>30.0876</u> <u>N</u> Longitude <u>-121</u> <u>39</u> <u>35.2008</u> <u>W</u>	Range <u>03 E</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>05</u>
Dec. Lat. <u>36.741691</u> Dec. Long. <u>-121.659778</u>	Baseline Meridian <u>Mount Diablo</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>1300</u> Feet	Water Level <u>192</u> (Feet) Date Measured _____
Total Depth of Completed Well <u>1285</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	2	Sandy Fill
2	5	Black Fine Gravel
5	20	Brown Clay
20	28	Coarse Sand
28	33	Brown Clay
33	70	Coarse Sand
70	108	Grey Clay
108	135	Brown Clay
135	154	Brown Sand
154	158	Brown Clay
158	170	Brown Sand
170	195	Red/Brown Clay w/Sand
195	205	Brown Sand
205	240	Layered Clay & Sand

240	260	Mixed Coarse Sand
260	274	Clay w/Sand
274	279	Medium Gravel
279	330	Sandy Brown Clay
330	352	Soft Brown Clay
352	383	Coarse Sand & Clay
383	432	Medium Sand
432	452	Brown Clay
452	478	Medium Sand
478	482	Brown Clay w/Sand
482	504	Medium Sand
504	520	Hard Silt & Sand
520	530	Fine to Medium Gravel
530	556	Sandy Brown Clay
556	580	Sandy Brown Clay
580	585	Fine Sand
585	592	Sandy Clay
592	600	Coarse Sand
600	683	Sandy Clay
683	696	Hard Silt
696	726	White Silt w/Rock
726	758	Fine to Medium Sand Cemented
758	772	Cemented Sand/Brown Clay
772	780	Fine Gravel/Sand
780	787	Brown Clay
787	800	#8 Sand Cemented
800	810	Hard
810	813	Brown Clay
813	815	Cemented Sand
815	820	Brown Clay
820	835	Sand Brown Clay
835	837	Cemented Sand Hard
837	845	Sand
845	850	Hard Clay/Sand
850	860	Cemented Sand
860	863	Hard
863	865	Cemented
865	923	Cemented Sand (Hard)
923	926	Sandy Brown Clay
926	935	Sand w/Silt Layers
935	989	Cemented Coarse Gravel
989	1012	Gravel
1012	1020	Gravel
1020	1030	Clay
1030	1065	Gravel
1065	1075	Gravel
1075	1080	Gravel
1080	1105	Sandy Clay

1105	1107	Hard/Cemented
1107	1170	Loose Gravel
1170	1190	Cemented Fine Gravel
1190	1195	Sandy/Brown Clay
1195	1230	Cemented Fine Gravel
1230	1245	Hard
1245	1278	Cemented Coarse Sand
1278	1300	Cemented Fine Sand & Quartz

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If any (Inches)	Description
1	0	1230	Blank	PVC	N/A	0.337	4			PVC SCH 80
2	1230	1280	Screen	PVC	N/A	0.337	4	Milled Slots	0.04	PVC SCH 80
3	1280	1285	Blank	PVC	N/A	0.337	4			PVC SCH 80

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	50	Cement	Other Cement		2% Bentonite
50	1215	Bentonite	High Solids		
1215	1220	Bentonite	Other Bentonite		Tablets
1220	1300	Filter Pack	Other Gravel Pack		SRI#8

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (Inches)
0	1230	10.625
1230	1280	10.625
1280	1300	10.625

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name <u>PARKS WATER RESOURCES LLC</u>				
Person, Firm or Corporation				
P O BOX 494		ZAMORA	CA	95698
Address		City	State	Zip
Signed	<u>electronic signature received</u>	02/03/2025	1113206	
	C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number	

DWR Use Only											
CSG #	State Well Number				Site Code				Local Well Number		
					N						W
Latitude Deg/Min/Sec						Longitude Deg/Min/Sec					
TRS:											
APN:											



COUNTY OF MONTEREY

HOUSING & COMMUNITY DEVELOPMENT - ENGINEERING SERVICES
1441 Schilling Place, 2nd Floor-South, Salinas, CA 93901

ENCROACHMENT PERMIT 24EP0279

Notify the Department of Housing & Community Development - Engineering Services
at least 48 hours prior to starting any permit work, excluding weekends and legal holidays.
Contact by phone by calling 831-755-5025 or by email at encroachment@co.monterey.ca.us

APPLICATION DATE:	08/01/2024	DISTRICT:	5-All Districts
PERMIT ISSUE DATE:	08/02/2024	ASSOCIATED CONSTRUCTION PERMIT:	
PARCEL NO. (if any):	111-111-111-111	UTILITY WORK ORDER:	
PROJECT ADDRESS:	VARIOUS COUNTY ROADS		
LOCATION DESCRIPTION:	SOMAVIA ROAD, CORRAL DE TIERRA ROAD, PORTOLA DRIVE, RIVER ROAD, SAN BENANCIO ROAD, BRADLEY ROAD, SAN JUAN GRADE ROAD, ESPINOSA ROAD AND STRAWBERRY ROAD.		
PERMITTEE:	PARKS WATER RESOURCES, LLC		
ORGANIZATION:	C/O SVBGSA		
PERMITTEE ADDRESS:	PO BOX 494, ZAMORA, CA 93924		
PERMITTEE PHONE:	5306619027		
PERMITTEE EMAIL:	drilling@parkswaterresources.com		

In compliance with your request and subject to the existing County Encroachment Ordinance, and to all other terms, conditions, and restrictions written below, printed on or attached to any part of this permit, Permission is hereby granted to:

*INSTALL AND MAINTAIN (10) GSA MONITORING WELLS LOCATED ON VARIOUS COUNTY ROADS
PER ATTACHED LOCATION MAPS FOR SALINAS VALLEY BASIN GROUNDWATER SUSTAINABILITY
AGENCY PROJECT.*

In order for this encroachment permit to be acknowledged as complete, work shall be in accordance with the above mentioned plan, all pertinent sections of Chapter 14.04 of the Monterey County Code, together with any other applicable provisions of the Monterey County Code, the forms listed below, and other attachments:

Forms

Unless specified, no permit work or activity is to take place after: 08/01/25

CEQA Status:

CEQA Section:

CEQA Class:

Fees Assessed: \$2,794.43

Copy: Permittee Job Site Inspector File District Superintendent Finance

“ENCROACHMENT” includes any structure or object of any kind or character placed, without authority of law, either in, on, under, or over any County highway.

GENERAL CONDITIONS FROM MONTEREY COUNTY CODE - CHAPTER 14.04

An ordinance to protect the County highways and works incidental thereto by regulating their excavation and encroachment.

Sec.14.04.010 "County highway" means and includes all or any part of the entire width of right-of-way of any road, street, land, alley, way, place, or cul-de-sac maintained by the County and open to the use of the public for purposes of travel, whether or not such entire width is actually used for highway purposes, and whether or not it has been accepted into the County road system by resolution of the County Board of Supervisors. It also includes bridges, culverts, curbs, drains, ditches, and all works incidental to County highway construction, improvement, and maintenance.

Sec.14.04.020 A - When satisfied an applicant's right or necessity, the Public Works Director may issue to him or her, a writing permit, which shall not be transferable, authorizing him or her to do any of the following acts:

1. Make an opening or excavation for any purpose in any County highway;
2. Place, change, or renew an encroachment;
3. Construct, grade, or place any driveway within a County highway; but no driveway shall be located within any portion of the normal curve returns of any intersection;
4. Plant, remove, cut, cut down, injure or destroy any tree/shrub/plant/flower growing within any County highway. (Ord. 1162 § 6, 1960)

Sec.14.04.070 A - This Chapter shall not be construed to prohibit any act for which a permit is required when the performance of such act is reasonably necessary for the preservation of life or property in an emergency. In all such cases, however, the person performing such act shall promptly notify the Public Works Director and shall apply for a permit therefor at the earliest practicable time thereafter, in any event not later than the next succeeding day during which the office of the Public Works Director is open.

B - Any person who violates any of the provisions of this Section is guilty of a misdemeanor. (Ord. 1162 § 11, 1960)

Sec.14.04.100 The Public Works Director may, but is not required to, supervise any work done under any permit issued under the County, but no cost of supervision shall be charged by the Public Works Director to any public Agency. (Ord. 1162 § 11, 1960)

Sec.14.04.110 A - Every permittee shall:

1. Notify the Public Works Director at least forty-eight (48) hours, exclusive of Saturdays, Sundays, and legal holidays, before starting any permit work;
2. Keep his or her permit, or a copy thereof, at the site of the permit work at all times when he or she is actually engaged in work thereat, and exhibit it to the Public Works Director, or his or her representative or any peace officer, upon demand;
3. Promptly remove all refuse, debris, equipment, and excess material from the site of the permit work upon its completion, and leave the premises in as presentable a condition as before the work started;
4. Place and maintain suitable warning lights, signs, barriers, devices, or flagmen, which be the types specified in Section 21406 of the California Vehicle Code;
5. Deliver to the Public Works Director, upon his or her demand, after the completion of any permit work, a plan or drawing showing locations and details of permitted encroachments and connections, if any, to existing structures where such encroachments and connections differ substantially from any plats and diagrams submitted with the application for a permit;
6. In every case where he or she has disturbed the existing surface of a County highway, replace, repair or restore such highway in accordance with the terms of his or her permit. In case his or her permit contains no such terms, then he or she shall do such replacing, repairing, or restoring at his or her own expense promptly upon completion of his or her permit work, in a good and workmanlike manner as directed by the applicable provisions of this Chapter, to as good condition as before the permit work started; provided, however, that if the surface which was disturbed was a bituminous-surfaced roadway, such surface shall be replaced, repaired or restored with not less than one and one-half inches, compacted in thickness, of asphaltic concrete surfacing, over a minimum of six inches, compacted, in depth, of aggregate base material of a type approved by the Public Works Director;

7. Comply with all of the terms and conditions of his or her permit;
8. Comply with all construction standards and methods specified in this Chapter;
9. Store, place or deposit no material within five feet (5') from the edge of the pavement or traveled way or within the shoulder line, where the shoulders are wider than five feet (5'), of any County highway, without the prior approval of the Public Works Director;
10. Diligently pursue the permit work in such a way as not to cause an unreasonable interference or inconvenience to the traveling public.

Sec. 14.04.120 A - Unless the permit provides otherwise: All permit work shall conform to the following specifications as may be designated by the permit:

1. The Standard Specifications of the Department of Public Works of the State of California;
2. The Special Provisions for Encroachment Work, on file in the office of the Public Works Director.

Sec. 14.04.125 Indemnity and hold harmless: an applicant shall agree to indemnify, defend, and save harmless the County, its officers, agents and employees, from and against any and all claims and losses whatsoever accruing or resulting to any and all persons, firms or corporations, and public and private property in connection with the encroachment or the conduct of the special event, unless arising out of the sole negligence or willful misconduct of the County. (Ord. 3889, 1996)

Sec. 14.04.160 The Public works Director may, in the manner provided in this section, require and enforce the removal of any of the things authorized by Subsection A of this Section, when, in his or her opinion, any of said things are so placed or done as to constitute a traffic hazard, or to interfere with normal highway maintenance, or otherwise to violate any of the conditions under which said things are authorized. (Ord. 3889, 1996; Ord. § 7, 1960)

DATE	WORK DESCRIPTION
7/10/2024	Stake Borehole Locations.
7/29/2024	Underground Utility Locating.
7/30/2024	Underground Utility Locating.
8/6/2024	Mobilize to UV-ISW-1, drill to 70 feet.
8/7/2024	Reach TD, install casing/screen, filter pack, sanitary seal, and monument.
8/12/2024	Mobilize to 180/400-GDE-1, drill to 45 feet bgs.
8/13/2024	Install casing/screen, filter pack, sanitary seal, and monument.
8/14/2024	Develop UV-ISW-1, construct well pad.
8/15/2024	Develop 180/400-GDE-1, construct well pad.
10/16/2024	No work, mobilizing to L-GWL-2.
10/17/2024	No work, mobilizing to L-GWL-2.
10/18/2024	Underground Utility Locating.
10/21/2024	Hand clear borehole location.
10/22/2024	Drill to 200 ft bgs.
10/23/2024	Drill to 345 ft bgs. Conduct geophysical logs.
10/24/2024	Ream to 225 ft bgs.
10/25/2024	Conduct caliper log.
10/28/2024	Conduct clean out pass. Install casing/screen and filter pack.
10/29/2024	Install filter pack, and bentonite transition seal. Pour sanitary seal.
10/30/2024	Open ended airlifting. Mechanical Development with dual swab.
10/31/2024	Mechanical development with dual swab.
11/1/2024	No work, mobilizing to L-GWL-6.
11/4/2024	Mobilization and set up at L-GWL-6. Hand clear borehole location.
11/5/2024	Drill to 320 ft bgs.
11/6/2024	Reach total depth. Conduct geophysical logs. Ream to 120 ft bgs.
11/7/2024	Ream to 225 ft bgs. Conduct caliper log.
11/8/2024	No work.
11/11/2024	Conduct clean out pass. Install casing/screen and filter pack.
11/12/2024	Install bentonite transition seal and high solids bentonite grout. Pour sanitary seal.
11/13/2024	Top off sanitary seal. Open ended airlifting and swabbing while adding potable water.
11/14/2024	Mechanical development with dual swab and open ended airlifting. WL in screened interval (~170 ft btoc), airlifting dewatered screen.
11/15/2024	Construct well pad.
11/18/2024	Mobilize to UV-GWL-1. Hand clear borehole location.
11/19/2024	Drill to 40 ft bgs.
11/20/2024	Drill to 200 ft bgs. Conduct geophysical logs and caliper log.
11/21/2024	Conduct clean out pass. Install casing/screen, filter pack and bentonite transition seal.
11/22/2024	Install high solids bentonite grout. Pour sanitary seal. Open ended airlifting.

11/25/2024	Mechanical development with dual swab.
11/26/2024	Mechanical development with dual swab.
11/27/2024	Construct well pad.
11/28/2024	No work. Thanksgiving Holiday.
11/29/2024	No work. Thanksgiving Holiday.
12/2/2024	No work. Contractor repairing mud pump.
12/3/2024	Mobilize to E-DA-2. Hand clear borehole location. Drill to 120 feet bgs.
12/4/2024	Drill to 560 feet bgs.
12/5/2024	Drill to 750 feet bgs.
12/6/2024	Drill to 940 feet bgs.
12/9/2024	Drill to 970 feet bgs.
12/10/2024	Reach total depth of 1300 feet bgs at 12:08. Conduct geophysical and caliper logs. Geophysical probe was only able to descend to 1,200 feet bgs.
12/11/2024	Conduct clean out pass and run geophysical and caliper logs.
12/12/2024	No work. Drilling crew is moving temporary conductor casing to the site.
12/13/2024	Install temporary conductor casing to 60 feet bgs.
12/16/2024	Install 20 additional feet of temporary conductor casing for a total length of 80 feet bgs. Repair top head track.
12/17/2024	Ream to 610 feet bgs.
12/18/2024	Ream to 1300 feet bgs. Conduct caliper log, but caliper tool could not be advanced past 160 feet bgs.
12/19/2024	PWR goes back to 1300 feet bgs with 10 5/8-inch bit to prepare borehole for caliper log. Conduct caliper log. Install casing/screen, filter pack and bentonite transition seal.
12/20/2024	Install high solids bentonite grout.
12/23/2024	Pour sanitary seal.
12/24/2024	Open ended airlifting.
12/25/2024	No work, Christmas Holiday.
12/26/2024	No work, Christmas Break.
12/27/2024	No work, Christmas Break.
13/30/2024	Mechanical Development with dual swab.
12/31/2024	Mechanical Development with dual swab.
1/1/2025	No work, New Years Day Holiday.
1/2/2025	No work, PWR break.
1/3/2025	No work, PWR break.
1/6/2025	Top off sanitary seal at E-DA-2. Pick up sample bottles and COC for water quality sampling.
1/7/2025	Install Surface completion at E-DA-2. Pump development at L-GWL-2.
1/8/2025	Conduct pump development and sample L-GWL-2.
1/9/2025	Conduct pump development and sample E-DA-2.
1/10/2025	Conduct pump development and sample UV-GWL-1.



Appendix B

Land Surveyor Data Sheets

SVBGSA Monitoring Well As-Built Survey

Date Prepared: 1/31/25

Project No. 4728.00



Well ID:

180/400-ISW-2

Surveyed September 18, 2024

As-Built Positions

Northing

Easting

Elevation

PVC Well Casing

2106808.26

5808996.64

88.92

Described Location:

Metal Standpipe

90.04

Somavia Road

Adjacent Ground

86.34

Well ID:

M-GWL-2

Surveyed September 18, 2024

Northing

Easting

Elevation

PVC Well Casing

2118587.22

5781136.20

63.86

Described Location:

Metal Standpipe

64.19

River Road

Adjacent Ground

61.92

Well ID:

M-GWL-3

Surveyed October 28, 2024

Northing

Easting

Elevation

PVC Well Casing

2097357.31

5759221.82

381.61

Described Location:

Metal Standpipe

381.97

Corral De Tierra

Adjacent Ground

379.95

Well ID:

M-GWL-4

Surveyed October 28, 2024

Northing

Easting

Elevation

PVC Well Casing

2095820.89

5770514.31

670.69

Described Location:

Metal Standpipe

670.93

San Benancio

Adjacent Ground

668.75

Well ID:

L-GWL-2

Surveyed January 20, 2025

Northing

Easting

Elevation

PVC Well Casing

2174873.78

5799171.24

243.64

Described Location:

Metal Standpipe

243.82

San Juan Grade

Adjacent Ground

240.74

SVBGSA Monitoring Well As-Built Survey

Date Prepared: 1/31/25

Project No. 4728.00



Well ID:

L-GWL-6

Surveyed January 20, 2025

		Northing	Easting	Elevation
	PVC Well Casing	2198042.49	5776971.15	262.62
Described Location:	Metal Standpipe			263.04
San Miguel Canyon	Adjacent Ground			259.98

Well ID:

M-ISW-1

Surveyed December 3, 2024

		Northing	Easting	Elevation
	PVC Well Casing	2121098.85	5773987.33	65.54
Described Location:	Metal Standpipe			66.28
Portola Drive	Adjacent Ground			62.66

Well ID:

E-DA-2

Surveyed January 20, 2025

		Northing	Easting	Elevation
	PVC Well Casing	2163912.40	5782413.26	125.11
Described Location:	Metal Standpipe			125.51
Christensen Road	Adjacent Ground			122.58

Well ID:

UV-GWL-1

Surveyed December 3, 2024

		Northing	Easting	Elevation
	PVC Well Casing	1838712.52	6026440.53	536.29
Described Location:	Metal Standpipe			536.46
Bradley (GWL)	Adjacent Ground			533.24

Well ID:

UV-ISW-1

Surveyed December 3, 2024

		Northing	Easting	Elevation
	PVC Well Casing	1838723.95	6026396.02	535.67
Described Location:	Metal Standpipe			536.19
Bradley (ISW)	Adjacent Ground			532.93

Survey Notes:

Coordinates are grid coordinates per the California Coordinate System, NAD83 Zone IV.

Elevations are relative to the North American Vertical Datum of 1988 (NAVD88).

Positions were determined using a combination of GNSS and conventional survey methods; at each well location the site control was related to the National Spatial Reference System using static GNSS observations and the use of the National Geodetic Survey's (NGS's) Online Positioning User Service (OPUS). Positions were subsequently transferred to the wells using conventional survey equipment.

All units are US Survey Feet.



Appendix C

Laboratory Reports



MONTEREY COUNTY HEALTH DEPARTMENT

Consolidated Chemistry Laboratory
1270 Natividad Road Salinas, CA 93906
Phone (831)755-4516 Fax (831)755-4652
ELAP Certification Number 1395

Analytical Report

Montgomery & Associates
201 Hoffman Ave. Suite 9
Monterey, CA 93940

Attn: Abby Ostovar

Page 1 of 3

Monday, January 27, 2025

Lab Number: AC89006

Sample Site M-GWL-2 (RIVER ROAD)
Source Code
Other ID

Client Code: MONTGOMERY

Collection Date/Time 01/08/2025 14:50
Submittal Date/Time 01/08/2025 15:19
Sample Collector GRANICHER H

Sample Comments: Ground Water. Receiving temperature 5.6°C.

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		0.74			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.6	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	2	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO ₃)	Calculated	mg/L	569.7	1.0		01/08/2025 15:35
Boron	SM4500B B-2000	mg/L	0.21	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	176	5		01/23/2025 09:00
Carbonate Alkalinity (as CO ₃)	Calculated	mg/L	<1	1.0		01/08/2025 15:35
Cl (Chloride)	EPA300.0	mg/L	108	0.2		01/08/2025 22:04
Conductivity @ 25C	SM2510 B-2011	umho/cm	1570	4		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	2690	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	<100	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	546	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	66	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.2	0.2		01/08/2025 22:04
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO ₃ (Nitrate)	EPA300.0	mg/L	<1	1		01/08/2025 22:04
pH (Laboratory)	SM4500H+ B-2011	pH	6.7	0.1	HT	01/08/2025 15:35
Potassium	ASTM6919-17	mg/L	5.1	1		01/23/2025 09:00
SO ₄ (Sulfate)	EPA300.0	mg/L	205	1		01/08/2025 22:04
Sodium	ASTM6919-17	mg/L	84	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		0.69	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO ₃)	SM2320 B-2011	mg/L	467	2		01/08/2025 15:35

mg/L : Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

AC89008 1/27/25 9:14
PQL: Practical Quantitation Limit

Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	1000	5	01/09/2025 14:29
------------------------------	---------------	------	------	---	------------------

Lab Number: AC89007

Sample Site M-GWL-4 (CORRAL DE TIERRA ROAD)

Source Code

Other ID

Client Code: MONTGOMERY

Collection Date/Time 01/08/2025 12:55

Submittal Date/Time 01/08/2025 15:19

Sample Collector GRANICHER H

Sample Comments: Ground Water. Receiving temperature 1.4°C.

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		3.42			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.5	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	6	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO ₃)	Calculated	mg/L	353.8	1.0		01/08/2025 15:55
Boron	SM4500B B-2000	mg/L	0.17	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	132	5		01/23/2025 09:00
Carbonate Alkalinity (as CO ₃)	Calculated	mg/L	<1	1.0		01/08/2025 15:55
Cl (Chloride)	EPA300.0	mg/L	194	0.2		01/08/2025 22:18
Conductivity @ 25C	SM2510 B-2011	umho/cm	1520	4		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	449	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	<100	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	29	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	34	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	2.0	0.2		01/08/2025 22:18
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO ₃ (Nitrate)	EPA300.0	mg/L	8.8	1		01/08/2025 22:18
pH (Laboratory)	SM4500H+ B-2011	pH	6.5	0.1	HT	01/08/2025 15:55
Potassium	ASTM6919-17	mg/L	3.9	1		01/23/2025 09:00
SO ₄ (Sulfate)	EPA300.0	mg/L	168	1		01/08/2025 22:18
Sodium	ASTM6919-17	mg/L	126	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		2.55	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO ₃)	SM2320 B-2011	mg/L	290	2		01/08/2025 15:55
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	933	5		01/09/2025 14:29

Lab Number: AC89008

Sample Site L-GWL-2 (SAN JUAN GRADE ROAD)

Source Code

Other ID

Client Code: MONTGOMERY

Collection Date/Time 01/08/2025 10:48

Submittal Date/Time 01/08/2025 15:19

Sample Collector GRANICHER H

Sample Comments: Ground Water. Receiving temperature 1.0°C.

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		3.48			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.0	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	2	0.5		01/25/2025 16:00
Bicarbonate Alkalinity (as HCO ₃)	Calculated	mg/L	181.8	1.0		01/08/2025 16:17

mg/L : Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

AC89008 1/27/25 9:14
PQL: Practical Quantitation Limit

Boron	SM4500B B-2000	mg/L	0.11	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	56	5		01/23/2025 09:00
Carbonate Alkalinity (as CO ₃)	Calculated	mg/L	<1	1.0		01/08/2025 16:09
Cl (Chloride)	EPA300.0	mg/L	170	0.2		01/08/2025 22:32
Conductivity @ 25C	SM2510 B-2011	umho/cm	1020	2		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	226	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	1440	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	21	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	213	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	12.8	0.1		01/08/2025 22:32
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/08/2025 15:41
NO ₃ (Nitrate)	EPA300.0	mg/L	57	1		01/08/2025 22:32
pH (Laboratory)	SM4500H+ B-2011	pH	6.4	0.1	HT	01/08/2025 16:09
Potassium	ASTM6919-17	mg/L	8.3	1		01/23/2025 09:00
SO ₄ (Sulfate)	EPA300.0	mg/L	35	1		01/08/2025 22:32
Sodium	ASTM6919-17	mg/L	112	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		3.20	N/A		01/25/2025 16:00
Total Alkalinity (as CaCO ₃)	SM2320 B-2011	mg/L	149	2		01/08/2025 16:09
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	650	5		01/09/2025 14:29

Qualifier(s) / Notes:

pH: The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.

Report approved by



Donna Ferguson, Ph.D., P.H.M.
Laboratory Director



MONTEREY COUNTY HEALTH DEPARTMENT

Consolidated Chemistry Laboratory
1270 Natividad Road Salinas, CA 93906
Phone (831)755-4516 Fax (831)755-4652
ELAP Certification Number 1395

Analytical Report

Montgomery & Associates
201 Hoffman Ave. Suite 9
Monterey, CA 93940

Attn: Abby Ostovar

Page 1 of 2

Monday, January 27, 2025

Lab Number: AC89038

Sample Site E-DA-2 CHRISTENSEN RD

Source Code

Other ID

Client Code: MONTGOMERY

Collection Date/Time 01/09/2025 10:59

Submittal Date/Time 01/09/2025 11:33

Sample Collector GRANICHER H

Sample Comments: Ground Water. Receiving temperature blank 0.0°C.

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
1,2,3-TCP by PT-GC/MS	Attached	Attached	Completed	Attached		01/19/2025 12:00
adjusted Sodium Adsorption Ratio	UC Davis1993		21.3			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	2.5	.1		01/10/2025 07:38
Arsenic (As)	EPA200.8 REV 5.4	ug/L	26	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO ₃)	Calculated	mg/L	185.4	1.0		01/09/2025 11:49
Boron	SM4500B B-2000	mg/L	1.2	0.2		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	36	5		01/23/2025 09:00
Carbonate Alkalinity (as CO ₃)	Calculated	mg/L	<1	1.0		01/09/2025 11:49
Cl (Chloride)	EPA300.0	mg/L	668	0.4		01/10/2025 09:07
Conductivity @ 25C	SM2510 B-2011	umho/cm	2530	4		01/10/2025 07:38
Hardness	SM2340 B-2011	mg/L	96.9	1.7		01/24/2025 09:38
Iron	EPA200.7	ug/L	193	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	1.7	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	115	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.4	0.4		01/10/2025 09:07
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/10/2025 14:32
NO ₃ (Nitrate)	EPA300.0	mg/L	<2	2		01/10/2025 09:07
pH (Laboratory)	SM4500H+ B-2011	pH	6.7	0.1		01/09/2025 11:49
Potassium	ASTM6919-17	mg/L	3.1	1		01/23/2025 09:00
SO ₄ (Sulfate)	EPA300.0	mg/L	<2	2		01/10/2025 09:07
Sodium	ASTM6919-17	mg/L	454	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		19.8	N/A		01/25/2025 16:00

mg/L : Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

AC89038 1/27/25 9:22
PQL: Practical Quantitation Limit

Total Alkalinity (as CaCO ₃)	SM2320 B-2011	mg/L	152	2	01/09/2025 11:49
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	1360	5	01/09/2025 14:29

Qualifier(s) / Notes:

pH: The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.

Report approved by



Donna Ferguson, Ph.D., P.H.M.
Laboratory Director



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AIA1419

1/23/2025

Invoice: AI02122

Donna Ferguson, PhD
Monterey CHD
1270 Natividad Rd. Rm A15
Salinas, CA 93906

RE: Report for AIA1419 General

Dear Donna Ferguson, PhD,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 1/10/2025. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Client Services Representative, Jaime Lee LaFave, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michelle Croft, Supervisor III - Project Management



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: Monterey CHD
Report To: Donna Ferguson, PhD
Project #: Montgomery & Associates
Received: 1/10/2025 - 11:30
Report Due: 1/24/2025

Invoice To: Monterey CHD
Invoice Attn: Donna Ferguson, PhD
Project PO#: DO 4000 0000022690

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 0.3

Containers Intact
COC/Labels Agree
Received On Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Theresa Hodges	FINAL.RPT	



AIA1419

General

Montgomery & Associates

Certificate of Analysis

Sample ID: AIA1419-01

Sampled By: H. Granicher

Sample Description: E-DA-2 Christensen Rd // AC89038

Sample Date - Time: 01/09/2025 - 10:59

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>1,2,3-Trichloropropane by GC-MS SIM</u>									
1,2,3-Trichloropropane	SRL 524M-TCP	ND	0.0050	ug/L	1	AIA0952	01/18/25	01/19/25	

BSK Associates Laboratory Fresno
Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

SRL 524M-TCP - Quality Control

Batch: AIA0952

Prepared: 1/18/2025

Prep Method: no prep-volatiles

Analyst: JNG

Blank (AIA0952-BLK1)

1,2,3-Trichloropropane	ND	0.0050	ug/L							01/19/25
------------------------	----	--------	------	--	--	--	--	--	--	----------

Blank Spike (AIA0952-BS1)

1,2,3-Trichloropropane	0.0051	0.0050	ug/L	0.0050	ND	102	80-120			01/19/25
------------------------	--------	--------	------	--------	----	-----	--------	--	--	----------

Blank Spike Dup (AIA0952-BSD1)

1,2,3-Trichloropropane	0.0051	0.0050	ug/L	0.0050	ND	102	80-120	1	30	01/19/25
------------------------	--------	--------	------	--------	----	-----	--------	---	----	----------

Duplicate (AIA0952-DUP1), Source: AIA1585-02

1,2,3-Trichloropropane	ND	0.0050	ug/L		ND				30	01/19/25
------------------------	----	--------	------	--	----	--	--	--	----	----------

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

****NA****

Certificate of Analysis

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-023
State of Nevada	NV-C24-00233	State of Oregon - NELAP	4021-023
EPA UCMR5	CA00079	State of Washington	C997-24b

Sacramento

State of California - ELAP	1180-S1
----------------------------	---------

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-009	State of Oregon - NELAP	4119-009

Vancouver

NELAP certified	WA100008-019	State of Oregon - NELAP	WA100008-019
State of Washington	C824-24		

Sample Integrity

BSK Bottles: Yes NoPage 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	<u>Yes</u>	No	NA	Were correct containers and preservatives received for the tests requested?	<u>Yes</u>	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	<u>NA</u>	Bubbles Present VOAs (524.2/TTHM/TCP)?	<u>Yes</u>	No	NA
	Did all bottles arrive unbroken and intact?	<u>Yes</u>	No		TB Received? (Check Method Below)	<u>Yes</u>	No	NA
	Did all bottle labels agree with COC?	<u>Yes</u>	No		Was a sufficient amount of sample received?	<u>Yes</u>	No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	<u>NA</u>		Do samples have a hold time < 72 hours?	Yes	<u>No</u>	
Bottles Received * means preservation/chlorine checks are either N/A or are performed in the lab	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?		1	2		
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—					
	None (P) White Label	—	—					
	Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW	Cl, pH > 8	P	F				
	Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW	pH 9.3-9.7	P	F				
	Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P	F				
	HNO_3 (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label	—	—					
	H_2SO_4 (P) or (AG) Yellow Label	pH < 2	P	F				
	NaOH (P) Green Cap/Label	Cl, pH > 10	P	F				
	$\text{NaOH} + \text{ZnAc}$ (P)	pH > 9	P	F				
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—		3v	2v		
	Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
	Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) Blue Label 548, THM, 524	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) Blue Label 504, 505, 547	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) Orange Label 531	pH < 3	P	F				1/10/25
	NH_4Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H_3PO_4 (CG) Salmon Label	—	—					
	Trizma - EPA 537, 1 Light Blue Label FB	—	—					
	Ammonia Acetate - EPA 533 Purple Label FB	—	—					
	Bottled Water	—	—					
	Clear Glass: Jar / VOA	—	—					
OTHER:	—	—						
OTHER:	—	—						
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check	
	S P					pH Lot #		
Comments	*Preservation check completed by lab performing analysis. All VOAs have air bubbles present.			✓ Indicates Blanks Received				
	Labeled by:			504 524.2 TTHM 537/533 TCP ✓ ✓ MS/MSD Received Method: _____				
Checked by:								

Scanned:

Rush/Short HT Page: _____ Time: _____



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request
☒ Standard - 10 business days
☐ Rush (Surcharge may apply)
Date needed:



ATA1419 Monte4516 01/10/2025

10

*Required Fields

Temp: 03C

Thermometer ID: 70

Company/Client Name:

Monterey CHD

Report Attention:

Donna Ferguson
Additional ccs:
c/o Theresa Hodges

Invoice To:

Monterey CHD
PO#

Phone:

831-755-4516

Fax:

831-755-4652

Address:

1270 Natividad Road

City: Salinas

State: CA

Zip: 93906

E-mail: hodgestl@countyofmonterey.gov

Project: Montgomery & Associates

Project #:

Reporting Options:

☐ Trace (1-Flag)

☐ Swamp

☐ EDD Type:

Regulatory Carbon Copies

☐ SWRCB (Drinking Water)

☐ Merced Co

☐ Madera Co

☐ Other

Regulatory Compliance

☐ EDT to California SWRCB (Drinking Water)

System Number: _____

☐ Fresno Co

☐ Tulare Co

☐ Geotracker #: _____

H. GRANICHER

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

Sample Description

1 EDA-2 CHRISTENSEN RD

Date 1/9/25

Time 1059

DW

AC 89038

1,2,3-TCP

2 TB TCP #0824058

Date 1/9/25

Time 1059

DW

AC 89038

1,2,3-TCP

Relinquished by: (Signature and Printed Name)

Theresa Hodges

Company MCHD

Date 1/9/25

Time 1600

Received by: (Signature and Printed Name)

Relinquished by: (Signature and Printed Name)

Company

Date

Time

Received by: (Signature and Printed Name)

Received by: (Signature and Printed Name)

Company

Date

Time

Received by: (Signature and Printed Name)

Shipping Method:

WEL

Blue

UPS

None

GSO

WALK-IN

FED EX

Courier

GTS

Chilling Process Begun: Y/N

Custody Seal: Y/N

Amount

PLA#

Check

Int

Cash



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AIA1807

1/30/2025

Invoice: AI02852

Donna Ferguson, PhD
Monterey CHD
1270 Natividad Rd. Rm A15
Salinas, CA 93906

RE: Report for AIA1807 General

Dear Donna Ferguson, PhD,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 1/14/2025. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Client Services Representative, Jaime Lee LaFave, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Senior Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: Monterey CHD	Invoice To: Monterey CHD
Report To: Donna Ferguson, PhD	Invoice Attn: Donna Ferguson, PhD
Project #: Montgomery & Associates	Project PO#: DO 4000 0000022690
Received: 1/14/2025 - 10:59	
Report Due: 2/04/2025	

Sample Receipt Conditions

Cooler: Default Cooler	Containers Intact
Temperature on Receipt °C: 0.0	COC/Labels Agree
	Received On Ice
	Packing Material - Other
	Sample(s) were received in temperature range.
	Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Theresa Hodges	FINAL.RPT	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

****NA****

Certificate of Analysis

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-023
State of Nevada	NV-C24-00233	State of Oregon - NELAP	4021-023
EPA UCMR5	CA00079	State of Washington	C997-24b

Sacramento

State of California - ELAP	1180-S1
----------------------------	---------

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-009	State of Oregon - NELAP	4119-009

Vancouver

NELAP certified	WA100008-019	State of Oregon - NELAP	WA100008-019
State of Washington	C824-24		



10

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)?	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No	NA	TB Received? (Check Method Below)	Yes	No	NA
	Did all bottle labels agree with COC?	Yes	No	NA	Was a sufficient amount of sample received?	Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	NA	Do samples have a hold time <72 hours?	Yes	No	NA
	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?		Was PM notified of discrepancies? PM: dt: email scan copy	Yes	No	NA
Bottles Received means preservation/chlorine checks are either N/A or are performed in the lab	Bacti Na ₂ S ₂ O ₃	—	—					
	None (P) White Label	—	—					
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	P	F				
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	P	F				
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P	F				
	HNO ₃ (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label	—	—					
	H ₂ SO ₄ (P) or (AG) Yellow Label	pH < 2	P	F				
	NaOH (P) Green Cap/Label	Cl, pH > 10	P	F				
	NaOH + ZnAc (P)	pH > 9	P	F				
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	—	—					
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—					
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—					
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—					
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—					
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P	F				
	NH ₄ Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H ₃ PO ₄ (CG) Salmon Label	—	—					
	Trizma - EPA 537.1 Light Blue Label FB	—	—					
	Ammonia Acetate - EPA 533 Purple Label FB	—	—					
	Bottled Water	—	—					
	Clear Glass: Jar / VOA	—	—					
	OTHER:	—	—					
OTHER:	—	—						
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check	
	S P					pH Lot #		
Comments	S P					Cl Lot #		
	*Preservation check completed by lab performing analysis.				✓ Indicates Blanks Received			
				504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP ___				
				✓ MS/MSD Received Method: _____				
Labeled by: _____				Checked by: _____				

Scanned: _____ Rush/Short HT Page: _____ Time: _____



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request
☒ Standard - 10 business days
☐ Rush (Surcharge may apply)
Date needed:



Required Fields

Temp: 0.6°C Thermometer ID: 85

Invoice To:

PO#:

Phone:

(831)755-4516

Fax:

(831)755-4652

Company/Client Name*: **Monterey CHD**

Report Attention*: **Donna Ferguson**
Additional cc's:

Address*:

1270 Natividad Road

City*: **Salinas**

State*: **CA**

Zip*: **93906**

E-mail*:

Project: **Montgomery & Associates**

Project #:

Reporting Options:

☐ Trace (-Flag) ☐ Swamp ☐ EDD Type: _____

Sampler Name (Printed/Signature)*:

H. Granicher

Regulatory Carbon Copies

☐ SWRCB (Drinking Water)

☐ Merced Co

☐ Madera Co

☐ Other: _____

Regulatory Compliance

☐ EDT to California SWRCB (Drinking Water)

System Number: _____

☐ Geotracker #: _____

DW=Drinking Water SO=Solid

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water

Sample Description* **UV-GWL-1 Bradley**

Date **1/10/25**

Time **0844**

Matrix* **GW**

Comments / Station Code / WTRAX **AC89073**

Gross Alpha
(Uranium if necessary)

UV-GWL-1 Bradley

Date **1/10/25**

Time **0844**

Matrix* **GW**

Comments / Station Code / WTRAX **AC89073**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

Received by: (Signature and Printed Name)

Date **1/13/2025**

Time **1600**

January 28, 2025

Lab No. : SP 2500792

Customer No. : 2022939

BSK Associates Engineers & Laboratories

687 N. Laverne Ave.
Fresno, CA 93727

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
UV-GWL-1 Bradley	01/10/2025	01/16/2025	SP 2500792-001	GW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 900.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
-----------	---

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: SMH

Approved By **Kelly A. Dunnahoo, B.S.**


 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2025-01-28

January 28, 2025

BSK Associates Engineers & Laboratories
 687 N. Laverne Ave.
 Fresno, CA 93727

Description : UV-GWL-1 Bradley
 Project : AIA1807

Lab No. : SP 2500792-001
 Customer No. : 2022939

Sampled On : January 10, 2025 at 08:44
 Sampled By : H. Granicher
 Received On : January 16, 2025 at 14:30
 Matrix : Ground Water

Sample Results - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	DQF	Sample Preparation			Sample Analysis			
Radio Chemistry						Date	Time	Who	Method	Date	Time	Who
Gross Alpha	1.70 ± 1.20	1.56	pCi/L	15/5		01/20/2025	08:00	amr	EPA 900.0	01/21/2025	08:23	amr

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

January 28, 2025
BSK Associates

Lab No. : SP 2500792
 Customer No. : 2022939

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Gross Alpha	900.0	01/20/2025:200644AMR	Blank	pCi/L		ND	<1.2077	
			LCS	pCi/L	167.7	89.7%	50-135	
			MS	pCi/L	167.7	102%	60-140	
		(SP 2500335-001)	MSD	pCi/L	167.7	99.9%	60-140	
			MSRPD	pCi/L		1.8%	≤30	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.



SUBCONTRACT ORDER

AIA1807

2500792

SENDING LABORATORY:

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Jaime Lee LaFave
E-mail: BSKSubcontract@bskassociates.com

RECEIVING LABORATORY:

FGL Environmental
P.O. Box 272 / 853 Corporation
Santa Paula, CA 93060
Phone : (805) 392-2000
Fax: (805) 525-4172
Turnaround (Days): Standard
QC Deliverables: I Std III IV

SEND INVOICE TO:

BSKSubcontract@bskassociates.com



Sample ID	Samp Desc	Client Matrix	Ground Water	Sample Date
AIA1807-01	UV-GWL-1 Bradley	Sampled By:	H. Granicher	01/10/2025 08:44
Sample Alias: AC 89073				
Lab Matrix: Water				
Analysis: EXT-Gross Alpha				
State Forms: No	System Name: _____			

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Condition Upon Receipt (Attach to COC) SP 2500792

Sample Receipt at SP:

1. Number of ice chests/packages received: 1
2. Shipper tracking number(s) 562516000
3. Temp IR Gun ID#:
4. Were samples received on Ice? **Yes** ☒ **No** ☐ Temps: RRT / / / / /
5. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
6. Do the number of bottles received agree with the COC? ☒ **Yes** ☐ **No** **N/A**
7. Verify sample date, time, sampler ☒ **Yes** ☐ **No**
8. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) ☒ **Yes** ☐ **No**

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? ☒ **Yes** ☐ **No**
2. Did bottle labels correspond with the client's ID's? ☒ **Yes** ☐ **No**
3. Were all bottles requiring sample preservation properly preserved? ☒ **Yes** ☐ **No** ☒ **N/A** **FGL**
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? ☒ **Yes** ☐ **No** ☒ **N/A**
5. Were all analyses within holding times at time of receipt? ☒ **Yes** ☐ **No**
6. Have rush or project due dates been checked and accepted? ☒ **Yes** ☐ **No** **N/A**

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and
Approved By

Celina D. Arenas



Digitally signed by Celina D. Arenas
Title: Sample Receiving
Date: 01/17/2025-10:28:06

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution:

2. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution:

(2022939)
BSK Associates
SP 2500792
CDA-01/17/2025-10:28:06



MONTEREY COUNTY HEALTH DEPARTMENT

Consolidated Chemistry Laboratory
1270 Natividad Road Salinas, CA 93906
Phone (831)755-4516 Fax (831)755-4652
ELAP Certification Number 1395

Analytical Report

Montgomery & Associates
201 Hoffman Ave. Suite 9
Monterey, CA 93940

Attn: Abby Ostovar

Page 1 of 2

Monday, February 3, 2025

Lab Number: AC89073

Sample Site UV-GWL-1 - BRADLEY
Source Code
Other ID

Client Code: MONTGOMERY

Collection Date/Time 01/10/2025 08:44
Submittal Date/Time 01/10/2025 10:05
Sample Collector GRANICHER H

Sample Comments: Ground Water. Receiving temperature 2.1 °C.

Analyte	Method	Unit	Result	PQL	Qualifier	Analysis Start Date Time
adjusted Sodium Adsorption Ratio	UC Davis1993		5.92			01/25/2025 16:00
Agriculture-Conductivity	SM2510B	dS/m	1.4	.1		01/10/2025 10:59
Arsenic (As)	EPA200.8 REV 5.4	ug/L	4	0.5		01/11/2025 12:00
Bicarbonate Alkalinity (as HCO ₃)	Calculated	mg/L	295.2	1.0		01/10/2025 10:12
Boron	SM4500B B-2000	mg/L	0.94	0.10		01/13/2025 11:25
Calcium	ASTM6919-17	mg/L	58	5		01/23/2025 09:00
Carbonate Alkalinity (as CO ₃)	Calculated	mg/L	<1	1.0		01/10/2025 10:12
Cl (Chloride)	EPA300.0	mg/L	63	0.2		01/10/2025 13:08
Conductivity @ 25C	SM2510 B-2011	umho/cm	1380	2		01/10/2025 10:59
Gross Alpha Radiation	Attached	Attached	Completed	Attached		01/20/2025 12:00
Hardness	SM2340 B-2011	mg/L	268	1.7		01/24/2025 09:39
Iron	EPA200.7	ug/L	359	100		01/18/2025 12:30
Magnesium	ASTM6919-17	mg/L	30	1		01/23/2025 09:00
Manganese (Mn)	EPA200.7	ug/L	244	1		01/18/2025 12:30
Nitrate Nitrogen	EPA300.0	mg/L	<0.2	0.2		01/10/2025 13:08
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05	0.05		01/10/2025 14:32
NO ₃ (Nitrate)	EPA300.0	mg/L	<1	1		01/10/2025 13:08
pH (Laboratory)	SM4500H+ B-2011	pH	6.6	0.1		01/10/2025 10:12
Potassium	ASTM6919-17	mg/L	3.9	1		01/23/2025 09:00
SO ₄ (Sulfate)	EPA300.0	mg/L	366	1		01/10/2025 13:08
Sodium	ASTM6919-17	mg/L	198	1		01/23/2025 09:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		5.19	N/A		01/25/2025 16:00

mg/L : Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

AC89073 2/3/25 8:37
PQL: Practical Quantitation Limit

Total Alkalinity (as CaCO ₃)	SM2320 B-2011	mg/L	242	2	01/10/2025 10:12
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	895	5	01/16/2025 14:00

Qualifier(s) / Notes:

pH: The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.

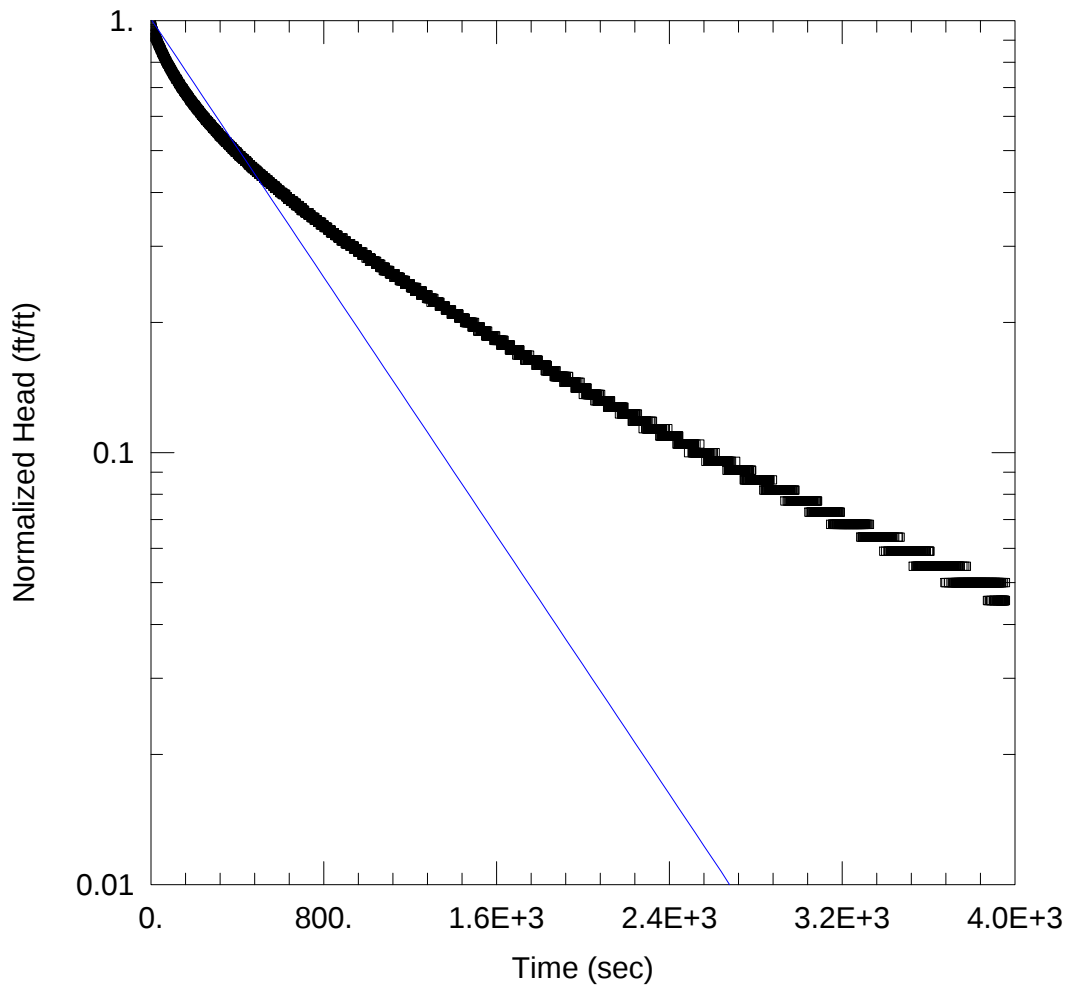
Report approved by



Donna Ferguson, Ph.D., P.H.M.
Laboratory Director

Appendix D

Pneumatic Slug Test Analysis



WELL TEST ANALYSIS

PROJECT INFORMATION

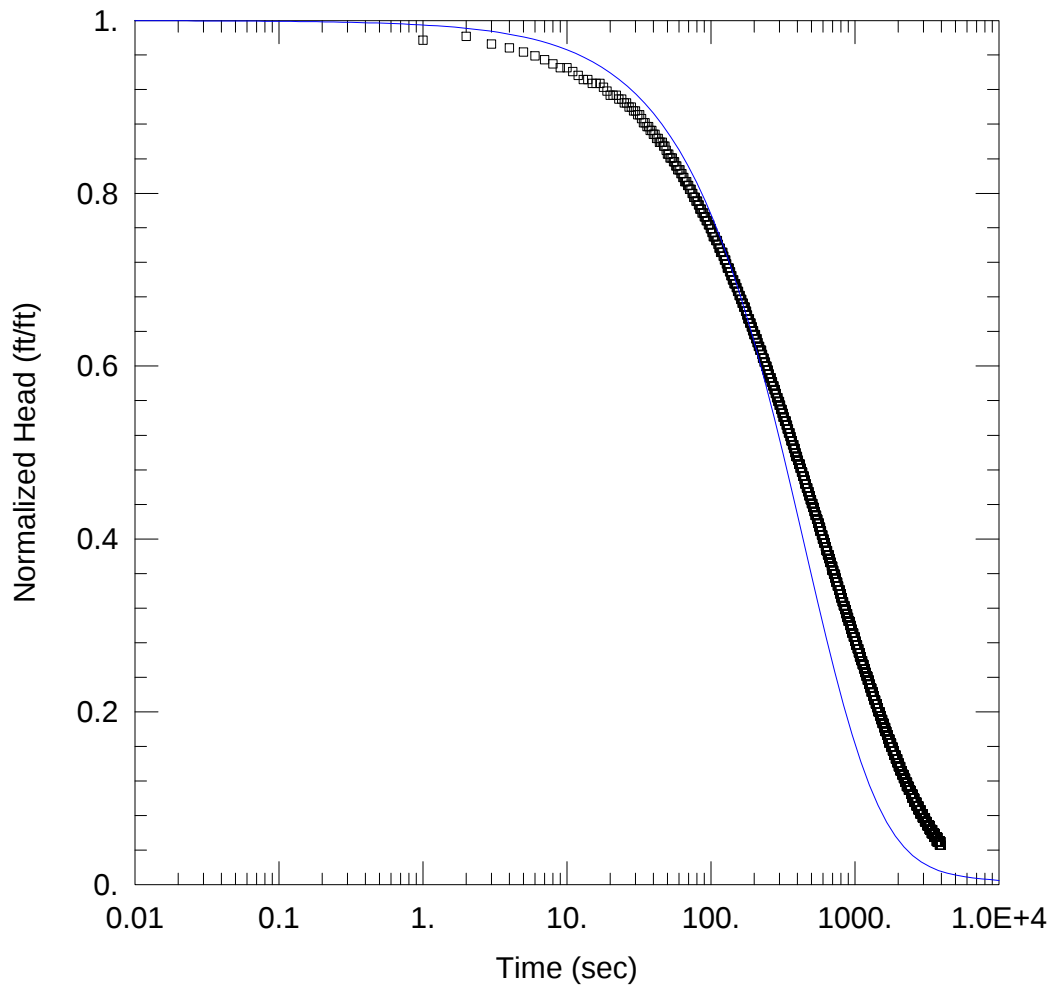
Company: Montgomery & Associates
Client: SVBGSA
Project: 9100.6602
Location: L-GWL-2

WELL DATA (L-GWL-2)

Initial Displacement: <u>2.2</u> ft	Static Water Column Height: <u>170.3</u> ft
Total Well Penetration Depth: <u>130.</u> ft	Screen Length: <u>120.</u> ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>0.1</u> ft/day	y0 = <u>2.22</u> ft



WELL TEST ANALYSIS

PROJECT INFORMATION

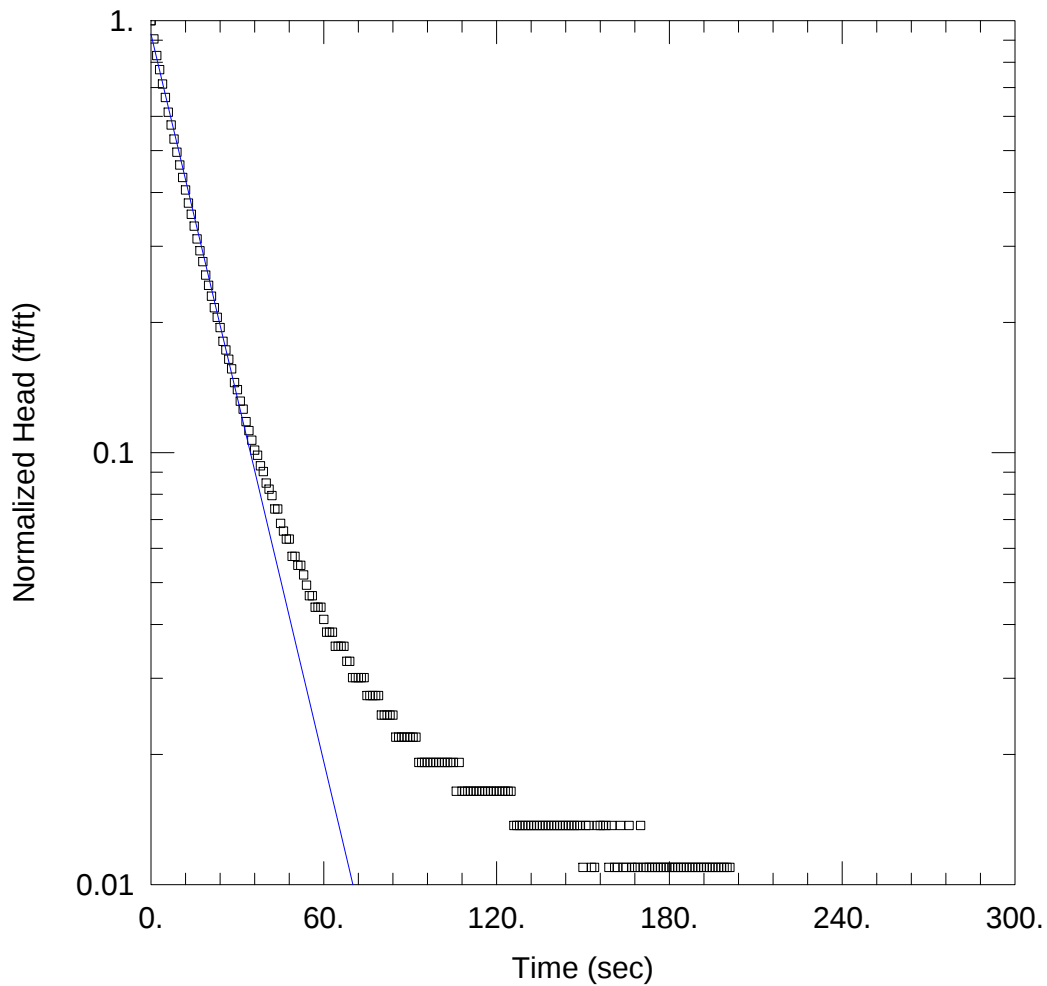
Company: Montgomery & Associates
 Client: SVBGSA
 Project: 9100.6602
 Location: L-GWL-2

WELL DATA (L-GWL-2)

Initial Displacement: <u>2.2</u> ft	Static Water Column Height: <u>170.3</u> ft
Total Well Penetration Depth: <u>130.</u> ft	Screen Length: <u>120.</u> ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>KGS Model</u>
Kr = <u>0.1</u> ft/day	Ss = <u>1.0E-7</u> ft ⁻¹
Kz/Kr = <u>1.</u>	



WELL TEST ANALYSIS

PROJECT INFORMATION

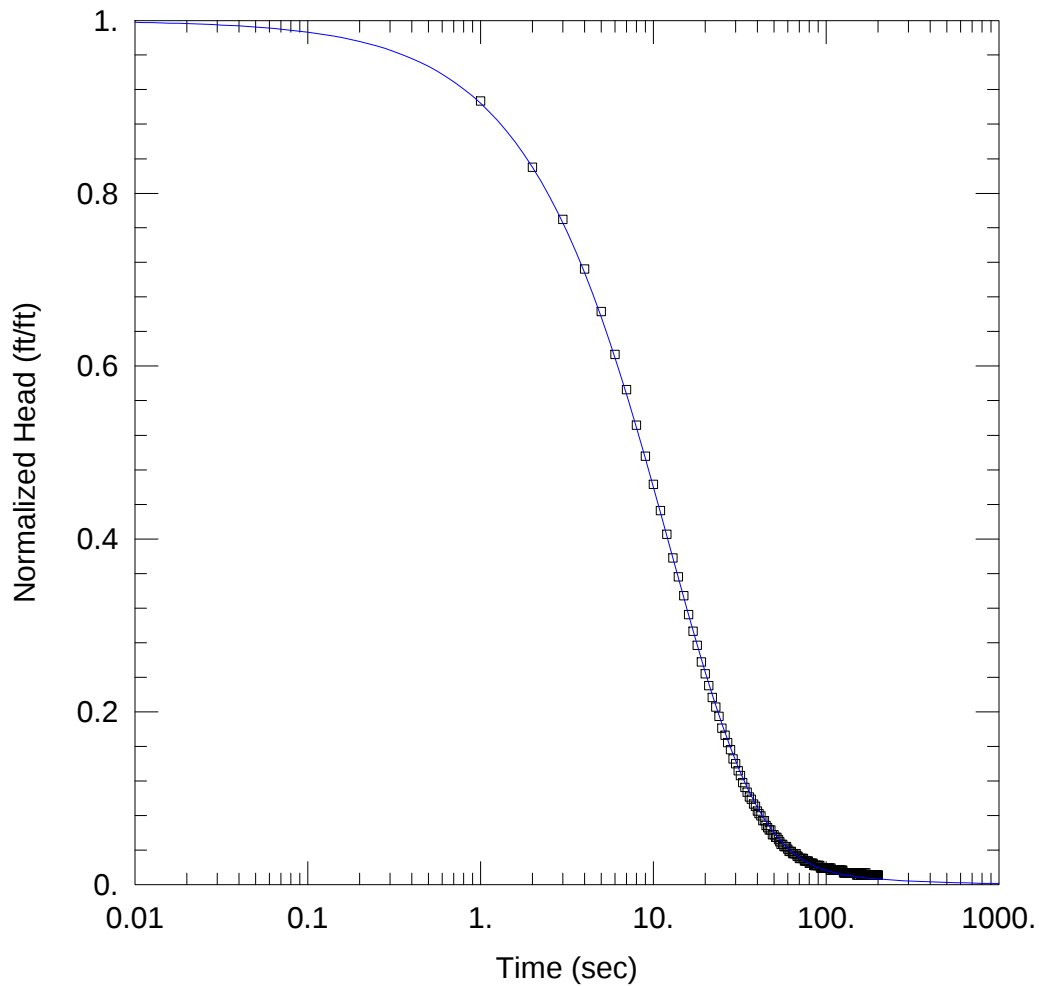
Company: Montgomery & Associates
 Client: SVBGSA
 Project: 9100.6602
 Location: UV-GWL-1

WELL DATA (UV-GWL-1)

Initial Displacement: <u>3.65</u> ft	Static Water Column Height: <u>137.8</u> ft
Total Well Penetration Depth: <u>55</u> . ft	Screen Length: <u>50</u> . ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>6.766</u> ft/day	y0 = <u>3.394</u> ft



WELL TEST ANALYSIS

PROJECT INFORMATION

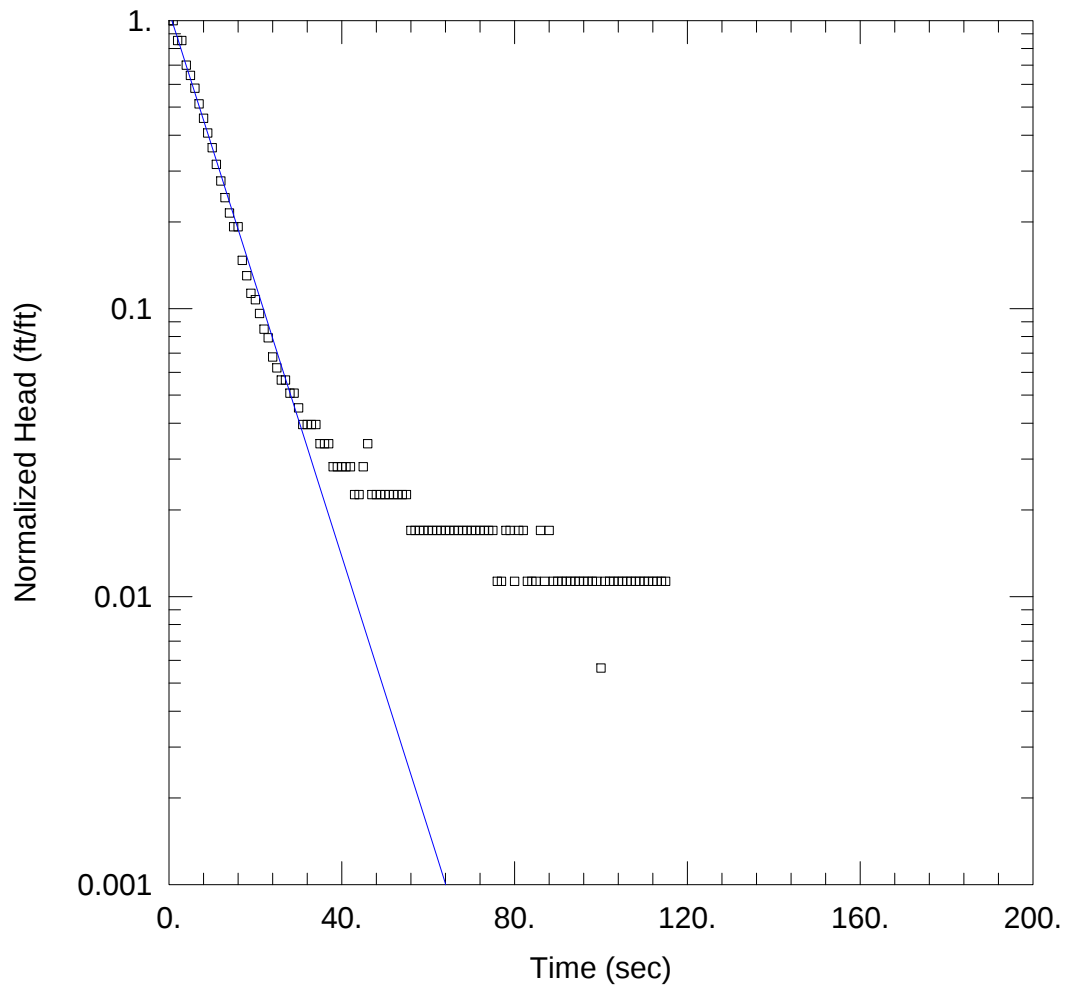
Company: Montgomery & Associates
 Client: SVBGSA
 Project: 9100.6602
 Location: UV-GWL-1

WELL DATA (UV-GWL-1)

Initial Displacement: <u>3.65</u> ft	Static Water Column Height: <u>137.8</u> ft
Total Well Penetration Depth: <u>55</u> ft	Screen Length: <u>50</u> ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>KGS Model</u>
Kr = <u>8.477</u> ft/day	Ss = <u>1.38E-7</u> ft ⁻¹
Kz/Kr = <u>1</u>	



WELL TEST ANALYSIS

PROJECT INFORMATION

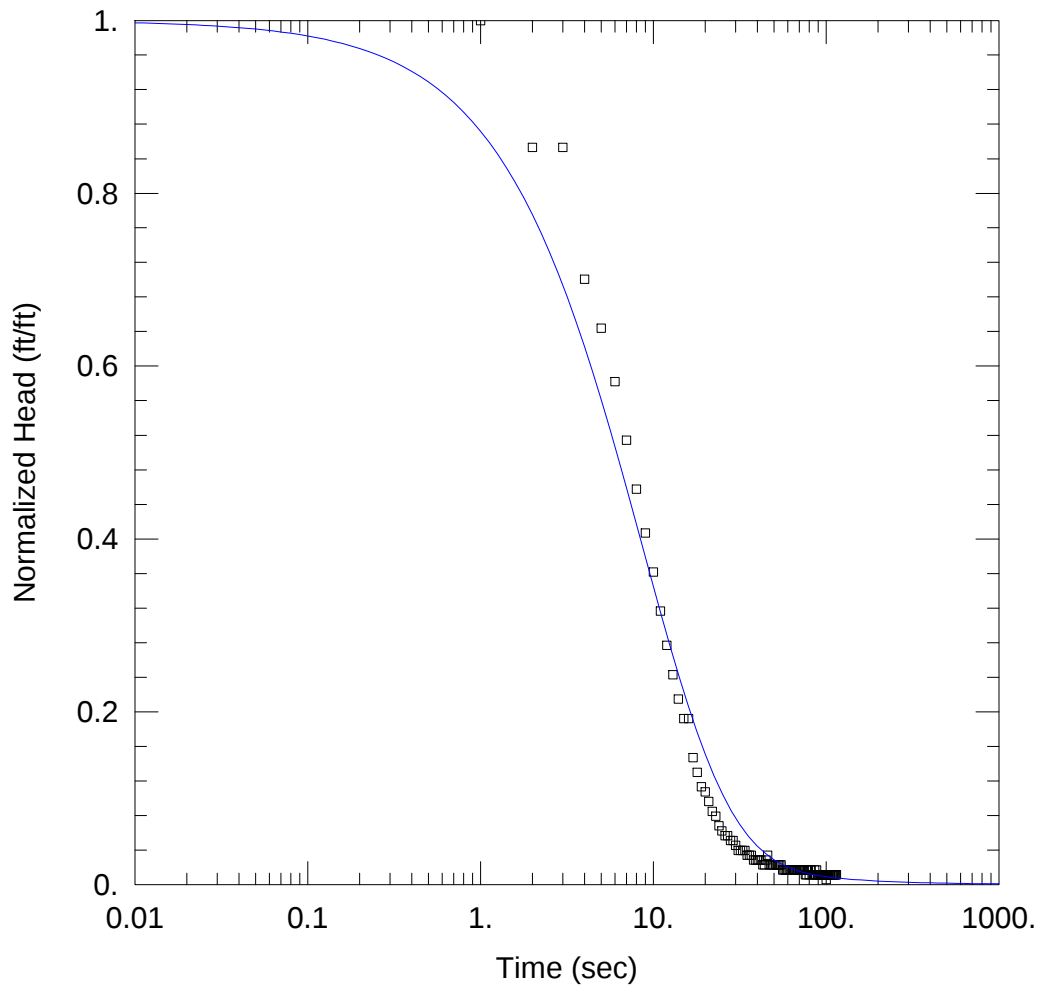
Company: Montgomery & Associates
 Client: SVBGSA
 Project: 9100.6602
 Location: E-DA-2

WELL DATA (E-DA-2)

Initial Displacement: <u>1.77</u> ft	Static Water Column Height: <u>1084.7</u> ft
Total Well Penetration Depth: <u>50.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>13.08</u> ft/day	y0 = <u>1.908</u> ft



WELL TEST ANALYSIS

PROJECT INFORMATION

Company: Montgomery & Associates
 Client: SVBGSA
 Project: 9100.6602
 Location: E-DA-2

WELL DATA (E-DA-2)

Initial Displacement: <u>1.77</u> ft	Static Water Column Height: <u>1084.7</u> ft
Total Well Penetration Depth: <u>50.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.16</u> ft	Well Radius: <u>0.44</u> ft

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>KGS Model</u>
Kr = <u>12.81</u> ft/day	Ss = <u>1.0E-7</u> ft ⁻¹
Kz/Kr = <u>1.</u>	