



**MONTGOMERY
& ASSOCIATES**

Water Resource Consultants

FINAL REPORT

October 6, 2023

Monitoring Well Construction & Development Monitoring Network Enhancement

Prepared for:

SANTA MARGARITA
Groundwater Agency



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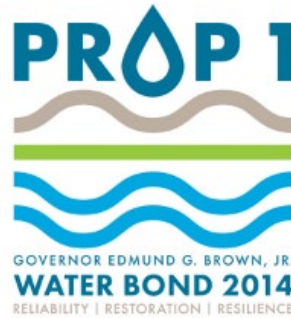
Santa Margarita Groundwater Agency

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SANTA MARGARITA GROUNDWATER AGENCY MEMBER AGENCIES



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1 INTRODUCTION

This report summarizes drilling, construction, development, and equipping of 7 monitoring wells in the Santa Margarita Groundwater Basin (Basin) on behalf of the Santa Margarita Groundwater Agency (SMGWA). The monitoring wells were installed as one of the first tasks in implementing the approved 2022 Groundwater Sustainability Plan (GSP) to comply with the Sustainable Groundwater Management Act (SGMA). The additional wells address groundwater level and interconnected surface water monitoring network data gaps identified in the GSP.

The work was funded by Proposition 68 and SMGWA member agency match funds. The member agencies providing cost sharing matches and logistical support during well installation include San Lorenzo Valley Water District (SLVWD), Scotts Valley Water District (SVWD), and Santa Cruz County (County). The Basin and SGMWA member agency service areas and jurisdictional boundaries are shown on Figure 1.

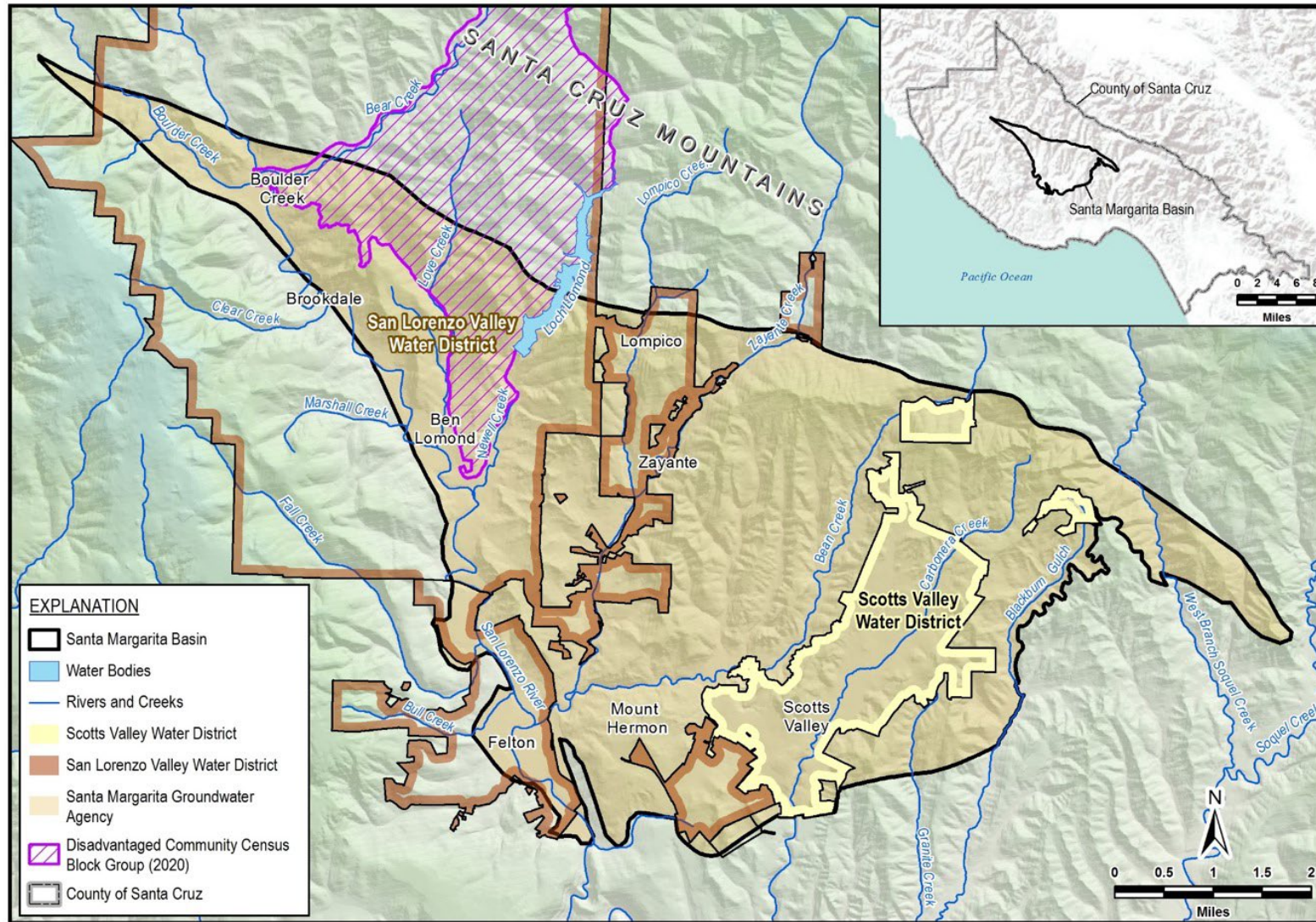


Figure 1. Santa Mararita Basin Boundaries and Member Agency Jurisdiction

2 BACKGROUND

The Basin consists of sandstone, siltstone, mudstone, and shale overlying granitic and metamorphic rocks, all of which have been folded into a geologic trough called the Scotts Valley Syncline. The sandstone units in the geologic sequence are the principal aquifers that supply much of the groundwater produced for local water supply. The Basin's principal aquifers are the Santa Margarita, Lompico, and Butano Sandstones. The Monterey Formation is an aquitard between the Santa Margarita and Lompico Sandstones but has conductive lenses that support some domestic well extraction and baseflow to streams. The Santa Cruz Mudstone aquitard overlies the Santa Margarita aquifer in the uplands between Zayante Creek and Carbonera Creek. Figure 2 is a surficial geology map showing where the aquifers outcrop in the Basin and Figure 3 is an example geologic cross section through the Scotts Valley area showing geologic structure and aquifer layering.

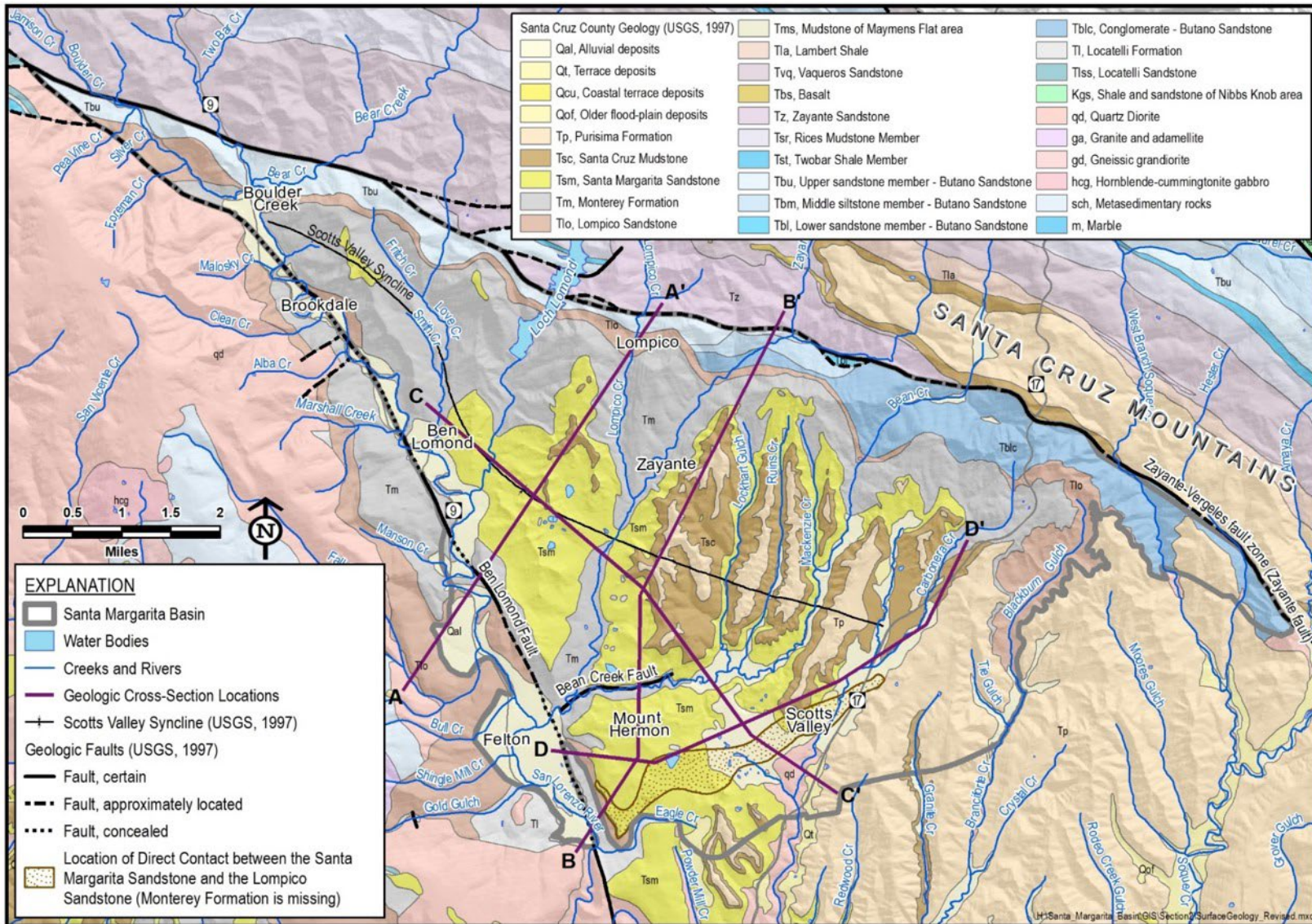


Figure 2. Surface Geology and Geologic Cross Section Locations

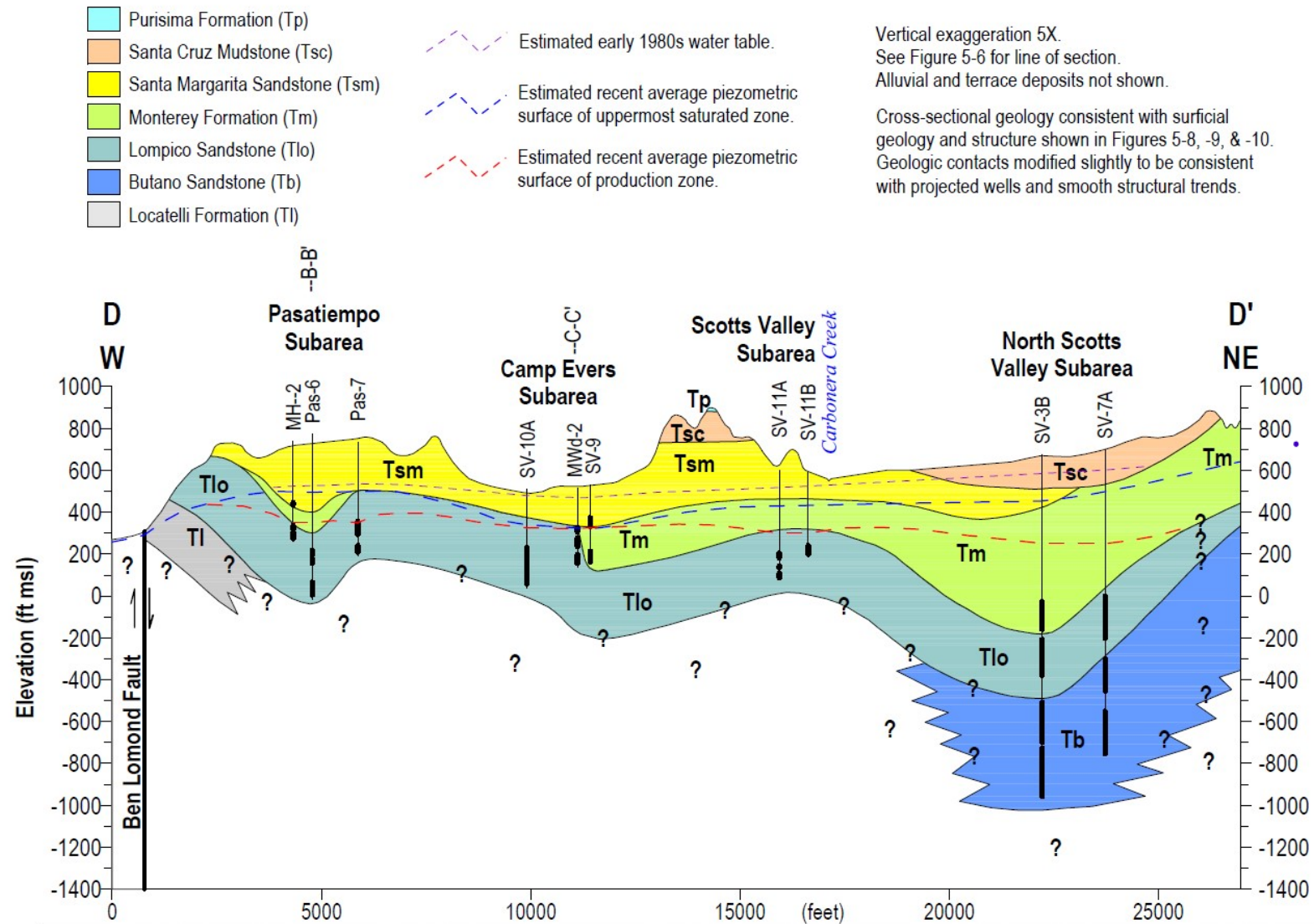


Figure 3. D-D' Geologic Cross Section

3 PURPOSE

The GSP identifies groundwater level monitoring network data gaps in the Santa Margarita aquifer, Monterey Formation, and Butano aquifer. Data gaps identified in the GSP include the following general categories:

- Communities where there is concentrated private domestic pumping from either the Santa Margarita aquifer or Monterey Formation
- Areas where shallow groundwater may be interconnected with surface water and pumping may influence streamflow recharge or discharge
- The Butano aquifer near SVWD production wells, which is only monitored by wells screened across both the Lompico and Butano aquifers

Monitoring wells are used to collect groundwater levels to fill identified groundwater level data gaps. The location of each well and coupled stream gage is shown on Figure 4 and detailed site plans are included in Appendix A. The purpose for each new monitoring well is summarized below:

- SMGWA-2 – Bean Creek: Monitor Santa Margarita aquifer near Bean Creek in an area with concentrated private domestic pumping and adjacent to Bean Creek which is connected to surface water. The reach of Bean Creek near the new well periodically dries up in summer months. A stream gage installed in Bean Creek near the monitoring well in 2022 allows collection of coupled stream stage and groundwater level measurements.
- SMGWA-3 – Ruins Creek: Monitor Santa Margarita aquifer near Ruins Creek where there is concentrated private domestic groundwater pumping and no history of groundwater level monitoring.
- SMGWA-4 – Nelson Road: Monitor Santa Margarita aquifer groundwater levels near the confluence of Bean Creek and Lockhart Gulch in an area with concentrated private domestic pumping and the interconnected surface water of Bean Creek.
- SMGWA-5 – Bahr Drive: Monitor Santa Margarita aquifer groundwater levels near Zayante Creek in an area with concentrated private domestic pumping and likely interconnection with Zayante Creek. The well is near an area where groundwater seeps out of the valley side into Zayante Creek upstream of its confluence with Bean Creek.
- SMGWA-6 – Quail Hollow: Monitor Santa Margarita aquifer downgradient of SLVWD's Quail Hollow wellfield and likely interconnection with Newell Creek. A coupled stream gage in Newell Creek was upgraded in 2020 to allow stream stage data

to be collected and compared to groundwater level measurements from the monitoring well.

- SMGWA-7 – Love Creek: Monitor Monterey Formation near Love Creek in an area with a high concentration of private domestic pumping and no history of groundwater level monitoring.
- SMGWA-8 – Randall Morgan Sandhills Preserve: Monitor Monterey Formation in an area near Bean Creek with a high concentration of private domestic pumping and no groundwater level monitoring.

The following 2 monitoring well sites identified in the GSP were not included in this monitoring network expansion program as originally planned:

- A site in the Weston Road community was not installed because an accessible location could not be identified. A Monterey Formation groundwater level monitoring data gap remains in the northern portion of the Basin near the headwaters of Mackenzie Creek. This area has a relatively high concentration of private domestic pumping and no record of historical groundwater levels. SMGWA will continue to outreach to landowners in the area to either access an existing well to measure groundwater levels or to install a new monitoring well.
- SMGWA-1 Vine Hill School, a deep Butano aquifer monitoring well in Scotts Valley, was not installed because there were no responsive bidders and SMGWA lacks funding needed to construct the well. The public bid procedure separated the deep monitoring well as an optional bid item since it required different drilling methods than the rest of the shallower monitoring wells. The location is near existing SVWD production wells #3B and Orchard and monitoring well #15B, which are screened in both the Butano and Lompico aquifers. A dedicated Butano aquifer monitoring well would improve understanding of groundwater conditions that would further GSP implementation and reporting.

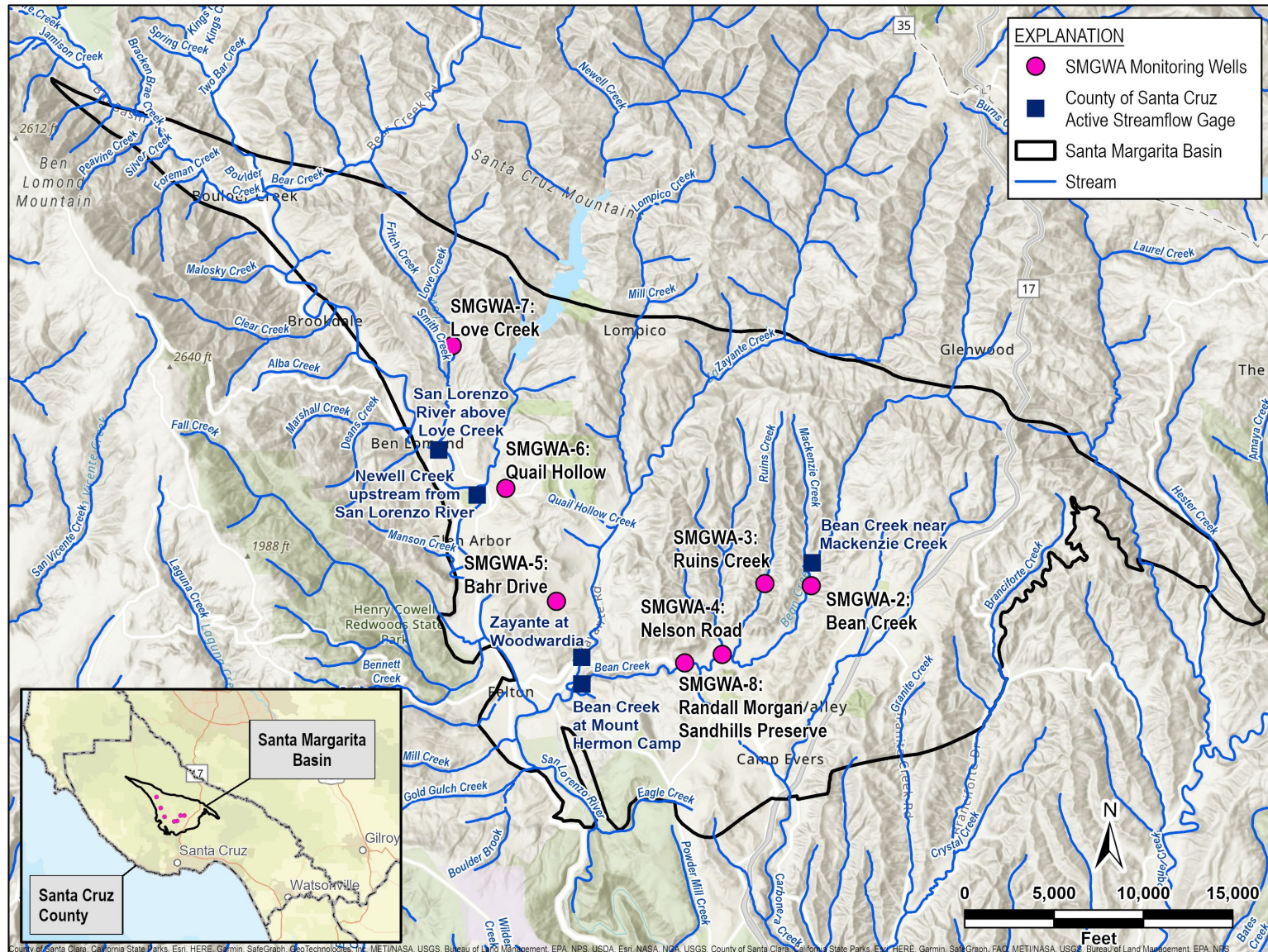


Figure 4. New Monitoring Well and Stream Gage Locations

4 ACCESS AND PERMITTING

Well construction permits were obtained for each site prior to drilling. Encroachment permits, Sandhills habitat mitigation, access agreements, and permanent easements were required for some sites. A California Environmental Quality Act notice of exemption was obtained prior to drilling. Relevant permits are attached in Appendix B.

Wells on private properties requiring access agreements for drilling and easement for future monitoring include:

- SMGWA-6 Quail Hollow located on property owned by SLVWD. Drilling access was granted through a temporary construction easement between SGMWA and the SLVWD.
- SMGWA-8 Randall Morgan Sandhills Preserve located on a property owned by the Land Trust of Santa Cruz County. Drilling access was granted through a temporary construction easement between SMGWA and the Land Trust. A permanent groundwater monitoring easement was agreed to between the County, the planned monitoring entity, and the Land Trust.

A County Encroachment Permit was acquired for locations in County rights-of-way. Wells in County rights-of-way are SMGWA-2 Bean Creek, SMGWA-3 Ruins Creek, SMGWA-4 Nelson Road, SMGWA-5 Bahr Drive and SMGWA-7 Love Creek. SMGWA-6 Quail Hollow was also included on the County Encroachment Permit to allow for equipment staging along the road during drilling on this private site.

Several well locations are in Sandhills habitat preservation zones. The only well that required purchase of Sandhills habitat mitigation credits to offset potential habitat disturbance is SMGWA-6 Quail Hollow. SMGWA-5 Bahr Drive and SMGWA-8 Randall Morgan Sandhills Preserve only included work on existing paved surfaces, which did not require mitigation despite being located in Sandhills Habitat preservation zones.

SMGWA and the Scotts Valley Unified School District agreed to a temporary construction easement for well installation at SMGWA-1 Vine Hill School, which was not installed. The school has agreed to allow the SMGWA to drill and install the well installation in summer months when the school is out of session. A permanent groundwater monitoring well easement was agreed to between SVWD, the planned monitoring entity, and the Scotts Valley Unified School District. These easements are included in Appendix B for future reference.

5 MONITORING WELL INSTALLATION

This section describes the activities to drill, construct, develop, and equip new monitoring wells. Well installation involved the following parties:

- Geocentric Drilling, Inc. (Geocentric), a C-57 well driller licensed in the state of California contracted by SMGWA for drilling, monitoring well construction, and development
- Montgomery & Associates (M&A), contracted by SMGWA for monitoring well siting, planning, construction management, and reporting
- BATS Traffic Solutions, subcontractor to Geocentric for traffic control plans and traffic control services during drilling and well installation at 6 sites: SMGWA-2 Bean Creek, SMGWA-3 Ruins Creek, SMGWA-4 Nelson Road, SMGWA-5 Bahr Drive, SMGWA-6 Quail Hollow, and SMGWA-7 Love Creek.
- Ponder Environmental Services, Inc. (Ponder), subcontractor to Geocentric for sediment and groundwater disposal

All drilling and well construction activities were documented in the field by a qualified M&A geologist, under the supervision of an M&A Professional Geologist licensed in the State of California. During drilling activities, the onsite geologist inspected and logged continuous cores and cuttings of the subsurface materials encountered and took notes regarding drilling characteristics and water encountered in each borehole. Based on the borehole's lithologic log and encountered depth to water, M&A finalized monitoring well designs. Following well construction, the wells were developed and equipped with a transducer. Wells will be surveyed by SMGWA after preparation of this report and the well completion data will be updated on the Basin's SGMA Portal monitoring network module. The drilling contractor is responsible for submitting a signed Well Completion Report to the Department of Water Resources. The chronologic order of completed activities is summarized in Table 1.

Table 1. Well Installation Chronology

Well ID	Location Name	Drilling Dates	Well Installation Dates	Surface Completion Date	Development and Sampling Dates
SMGWA-5	Bahr Drive	May 22	May 23	May 24	May 30
SMGWA-8	Randall Morgan Sandhills Preserve	May 25 to 26	May 30 to 31	May 31	June 13
SMGWA-3	Ruins Creek	June 1 to 5	June 6 to 7	June 7	June 14
SMGWA-7	Love Creek	June 22 to 27	June 28 to 30	June 30	August 16, 17, 23, & September 8
SMGWA-6	Quail Hollow	July 10 to 13	July 13 to 14	July 13	August 21
SMGWA-4	Nelson Road	August 1 to 8	August 9 to 10	August 15	August 22
SMGWA-2	Bean Creek	August 10 to 14	August 14 to 15	August 15	August 18 & September 21

5.1 Drilling Methods and Soil Borings

The monitoring well borings were drilled using roto sonic and mud rotary methods. Rotosonic boreholes were 7.25-inch diameter and mud rotary boreholes were 6-inch diameter. Geocentric utilized 2 roto sonic rigs of variable size and power, and a limited access mud rotary rig depending on site conditions. The smaller roto sonic and mud rotary rigs were used where the drilling site was small and/or overhead hazards existed that required a low clearance mast.

Pictures of each rig are provided on Figure 5. The following wells were installed with each rig:

- SMGWA-3 Ruins Creek, SMGWA-5 Bahr Drive, and SMGWA-8 Randall Morgan Sandhills Preserve were drilled with roto sonic methods using the larger Fraste LRS 275 HT rig.
- SMGWA-6 Quail Hollow, and SMGWA-7 Love Creek were drilled with roto sonic methods using the smaller Fraste CRS XL 140 rig.
- SMGWA-2 Bean Creek and SMGWA-4 Nelson Road were drilled with mud rotary methods using a Fraste Dart rig.

Continuous roto sonic core samples were collected in plastic core bags at 5-foot intervals and sediment samples were collected periodically from the mud rotary tailings. Representative photographs of the different aquifer materials are included on Figure 6. Cores were logged and representative samples were collected in 10-foot intervals and stored in chip trays for later reference. Detailed logs describing the lithology are included in Appendix C and photographs of chip trays are provided in Appendix D.

The initial boring at SMGWA-4 Nelson Road was drilled inadvertently on private property to a depth of 40 feet bgs before discovering the error. That boring was later abandoned with County inspection using the same grout mixture as used to seal the monitoring wells described in Section 5.2. The boring used to install SMGWA-4 Nelson Road was moved closer to the road in the County right-of-way.



Fraste LRS 275 HT Rotononic



Fraste CRS XL 140 Rotononic



Fraste Dart Mud Rotary

Figure 5. Drill Rigs used for Monitoring Well Installations



Figure 6. Representative Lithology

Figure 6 on the left shows a complete set of cores from SMGWA-8 Randall Morgan Sandhills Preserve. The Santa Margarita aquifer cores at bottom left are lighter than Monterey Formation darker colored shale. Figure 6 on the top right shows an example of Monterey Formation shale core; at bottom right is an example of Santa Margarita sandstone core.

5.2 Well Construction

Monitoring wells were installed in each completed boring and roto sonic borings were cased and cleaned out prior to well installations. For mud rotary borings, all tooling was removed to install wells in an open boring. Wells were constructed with threaded, nominal 2.5-inch outside diameter (OD) Schedule 80 polyvinyl chloride (PVC) casing with 0.040-inch horizontal machine cut well screens. A 5-foot sump and threaded end cap was placed at the bottom of each well. A picture of materials used is shown on Figure 7, including well casing, 2.5-inch Schedule 80 PVC well screen, riser, threaded end cap, and lockable well plug. Centralizers were installed above and below the screen interval and every 50 feet to ensure that the casing remained centered in the borehole during construction. Approximately 2 feet below ground surface (bgs), the casing diameter was expanded from 2.5-inch to 4-inch diameter using a coupling (Figure 7). The larger below grade casing allows for additional space in the wells for transducer cables, pump tubing, or other equipment. Each well is plugged with a 4-inch diameter lockable, watertight compression well cap (Figure 7), except for SMGWA-7 Love Creek, as described in Section 5.7. Construction depths for each well are summarized in Table 2.



Figure 7. Well Materials

Table 2. Well Construction Details for Monitoring Wells

Well ID	Location Name	Total Depth (feet bgs)	Blank Casing (feet bgs)	Screen Interval (feet bgs)	Sump (feet bgs)	Cement Seal (feet bgs)	Transition Sand (feet bgs)	Filter Pack (feet bgs)
SMGWA-2	Bean Creek	75	0-53	53-68	68-73	0-43	43-48	48-75
SMGWA-3	Ruins Creek	175	0-145	145-160	160-165	0-130	130-135	135-175
SMGWA-4	Nelson Road	76.5	0-54	54-69	69-74	0-44	44-49	49-76.5
SMGWA-5	Bahr Drive	70	0-40	40-55	55-60	0-30	30-35	35-70
SMGWA-6	Quail Hollow	140	0-115	115-130	130-135	0-105	105-110	110-140
SMGWA-7	Love Creek	185	0-163	163-178	178-183	0-153	153-158	158-185
SMGWA-8	Randall Morgan Sandhills Preserve	200	0-155	155-170	170-175	0-145	145-150	150-200

During well construction blank casing and screen were hung in the borehole and annular materials were placed using a tremie pipe. Photos of annular materials used are shown on Figure 8 and include filter pack, transition sand, and Type I to II Portland cement. In general, 8x16 gradation filter pack was placed from the bottom of the borehole extending approximately 10 feet above the top of the well screen. A 5-foot-thick transition seal consisting of #60 plaster sand was placed above the filter pack. A cement annular seal was placed above the transition seal to near ground surface. Cement batches were mixed on site and were mixed in ratios of 47 pounds of Type I to II Portland cement to 5 to 7 gallons of potable water. The cement was placed downhole using a concrete pump and tremie pipe. Wells with seals greater than 100 feet were completed in 2 cement lifts to prevent PVC deformation from heat generated during cement curing. A Santa Cruz County Environmental Health Services inspector witnessed placement of cement annular seals at each location. Pictures showing placement of the annular seal are included on Figure 9. The photo on the left shows mixing and pumping cement into annular space using a tremie pipe, and the photo on the right shows grout seal to surface with PVC well stickup. Table 2 summarizes placement of annular materials.



Figure 8. Well Annular Materials



Figure 9. Example Annular Seal Placement

Monitoring wells were completed in flush-mounted vaults. The vaults are 12-inch diameter, H-20 traffic rated, include a watertight gasket, and have a lid secured by two 15/16-inch threaded bolts. A 1-inch PVC drainpipe was cemented in place inside the vault at a height below the well casing to drain standing water that might accumulate in the vault. The vaults are set in 2-foot diameter concrete pads reinforced with rebar. The concrete pad for SMGWA-5 Bahr Drive was stained to match the asphalt. Representative photographs of a completed well vault are shown on Figure 10. The photo on the left shows an unfinished completion with rebar support, and the photo on the right shows a finished completion stained to match the asphalt. Photographs of each well completion are included in the photographic log in Appendix D.



Figure 10. Example Well Vault Installation at SGMWA-5 Bahr Drive

5.3 Well Development

Following well construction, the wells were developed using swabbing, bailing, airlifting, and pumping. First the well was mechanically developed using a combination of swabbing and bailing to surge the filter pack and remove fines that accumulated in the well during installation. Next either pumping or airlifting was used to remove remaining fine sediment and develop the filter pack. The well was purged with a pump or airlift until groundwater quality stabilized and clarity improved. Well purging was completed with a submersible pump at SMGWA-2 Bean Creek, SMGWA-3 Ruins Creek, SMGWA-5 Bahr Drive, SMGWA-8 Randall Morgan Sandhills Preserve and with airlifting at SMGWA-4 Nelson Road, SMGWA-5 Quail Hollow, and SMGWA-7 Love Creek. Development was considered complete after 3 consecutive measurements were collected with consistent water quality results and low turbidity. Each well took 1 day to develop except for SMGWA-7 Love Creek that took 4 days (1 full day and 3 half days) for water clarity to improve. Photographs of the well development rig and submersible pump are shown on Figure 11. Well development field sheets are included in Appendix F.



Figure 11. Well Development Rig (left) and Submersible Pump (right)

5.4 Groundwater Sampling

Groundwater from each monitoring well was sampled and water samples sent to a state-certified laboratory for analysis. Results of the water quality testing provides data on concentrations of constituents of concern identified in the GSP.

Groundwater samples were collected using well development equipment after groundwater quality stabilized. Water quality parameters collected prior to sampling are recorded in well development sampling field sheets included in Appendix E. The initial sample request for

SMGWA-2 Bean Creek omitted some of the intended analytes. Additional samples from SMGWA-2 Bean Creek were collected on September 21, 2023 using a submersible pump and low flow sampling protocol. Groundwater samples for each well were collected by M&A, delivered under chain-of-custody to SLVWD or SVWD, and shipped overnight for analysis at Eurofins Calscience environmental laboratory in Pomona, California. Samples were analyzed by Eurofins Calscience for nitrate as N, chloride, total dissolved solids (TDS), iron, and manganese.

The analytical results reported by the laboratory are consistent with other groundwater quality testing in the Basin. Analytical results in milligrams per Liter (mg/L) are summarized in Table 3 and complete laboratory results are included in Appendix F. The data each well was sampled is provided on Table 1 and the laboratory reports.

Table 3. Groundwater Quality Analytical Results (mg/L)

Well ID	Location Name	Geologic Unit	Nitrate as N	Chloride	TDS	Iron	Manganese
SMGWA-2	Bean Creek	Santa Margarita	0.15	13	390	0.25	2.3
SMGWA-3	Ruins Creek	Santa Margarita	0.31	16	250	0.89	0.37
SMGWA-4	Nelson Road	Santa Margarita	<0.10	13	420	0.38	0.18
SMGWA-5	Bahr Drive	Santa Margarita	1.2	39	170	1.9	0.34
SMGWA-6	Quail Hollow	Santa Margarita	0.45	6.2	120	8.3	0.38
SMGWA-7	Love Creek	Monterey	<0.25	45	1,300	1.1	0.028
SMGWA-8	Randall Morgan Sandhills Preserve	Monterey	<0.25	200	1,000	15	0.24

5.5 Groundwater Level Measurement

After well development, the monitoring wells were allowed to equilibrate to static conditions before groundwater levels were measured. Measurements were made using an electronic water level meter on August 25, 2023. Groundwater levels were measured in feet below the top of casing (btoc). Groundwater level measurements are summarized in Table 4.

SMGWA-7 Love Creek is a flowing or artesian well which means its groundwater level is above the top of casing. The pressure in the well on September 8, 2023 was about 1 pound per square inch (psi), which converts to 2.3 feet of water above top of casing. Groundwater levels in feet btoc will be converted to elevations once well reference point elevations have been surveyed.

Table 4. Groundwater Level Measurements, August 25, 2023

Well ID	Location Name	Geologic Unit	Screen Interval (feet bgs)	Groundwater Level (feet btoc)
SMGWA-2	Bean Creek	Santa Margarita	53-68	52.62
SMGWA-3	Ruins Creek	Santa Margarita	145-160	105.95
SMGWA-4	Nelson Road	Santa Margarita	54-69	9.15
SMGWA-5	Bahr Drive	Santa Margarita	40-55	43.69
SMGWA-6	Quail Hollow	Santa Margarita	115-130	68.66
SMGWA-7	Love Creek	Monterey	163-178	-2.3*
SMGWA-8	Randall Morgan Sandhills Preserve	Monterey	155-170	47.60

* Groundwater pressure at wellhead on September 8, 2023 was about 1 psi, which corresponds to about 2.3 feet of head above top of casing.

5.6 Waste Disposal

Geocentric and their subcontractor Ponder were responsible for collecting and disposing of all boring related waste and restoring sites to the extent possible to pre-drilling conditions. Soil cuttings and purged groundwater were collected in hoppers and transferred to a centrally located roll-off dumpster (Figure 12). Ponder vacuumed liquids from the roll-offs dumpsters into a vacuum truck and disposed of the sediment remaining in roll-offs. Other refuse such as plastic sample sleeves, cement bags, and well casing boxes were disposed of by Geocentric as municipal waste. Photographs from final site inspections are included in the photographic log in Appendix D.



Figure 12. Roll-off Dumpsters and Secondary Containment

5.7 Well Instrumentation

All monitoring wells were equipped with In-Situ Level Troll 400 transducers between September 26 and October 3, 2023. Transducers are suspended using non-vented direct data cables designed so that the transducer hangs at the bottom of the well screen. The transducers measure absolute pressure which is converted to a groundwater level after compensating for barometric pressure. SVWD's barometric pressure logger will be used to compensate for air pressure after the groundwater pressure data is downloaded. The Level Troll 400 transducers have a direct read cable for downloading data without removing the transducer from the well (Figure 13). Except for SMGWA-7 Love Creek, each transducer is hung in the well using a transducer cable hanger secured to the top of the wellhead (Figure 13).

Since the groundwater level at SMGWA-7 Love Creek is currently above the top of casing, this well was equipped with a watertight cap with a compression fitting for housing the transducer cable above the well casing in the vault (Figure 14). The artesian wellhead is designed to prevent water leaking out of the casing thereby keeping the transducer direct read cable dry. The transducers are programmed to collect daily groundwater level measurements. SMGWA and/or SMGWA member agencies will perform site visits to hand measure groundwater levels and to download transducer data at least semi-annually. Groundwater level data will be uploaded to the Santa Cruz County Data Management System.



Figure 13. Example Transducer Equipping and Programming



Figure 14. Transducer Equipping and Artesian Wellhead at SMGWA-7 Love Creek

6 ACRONYMS & ABBREVIATIONS

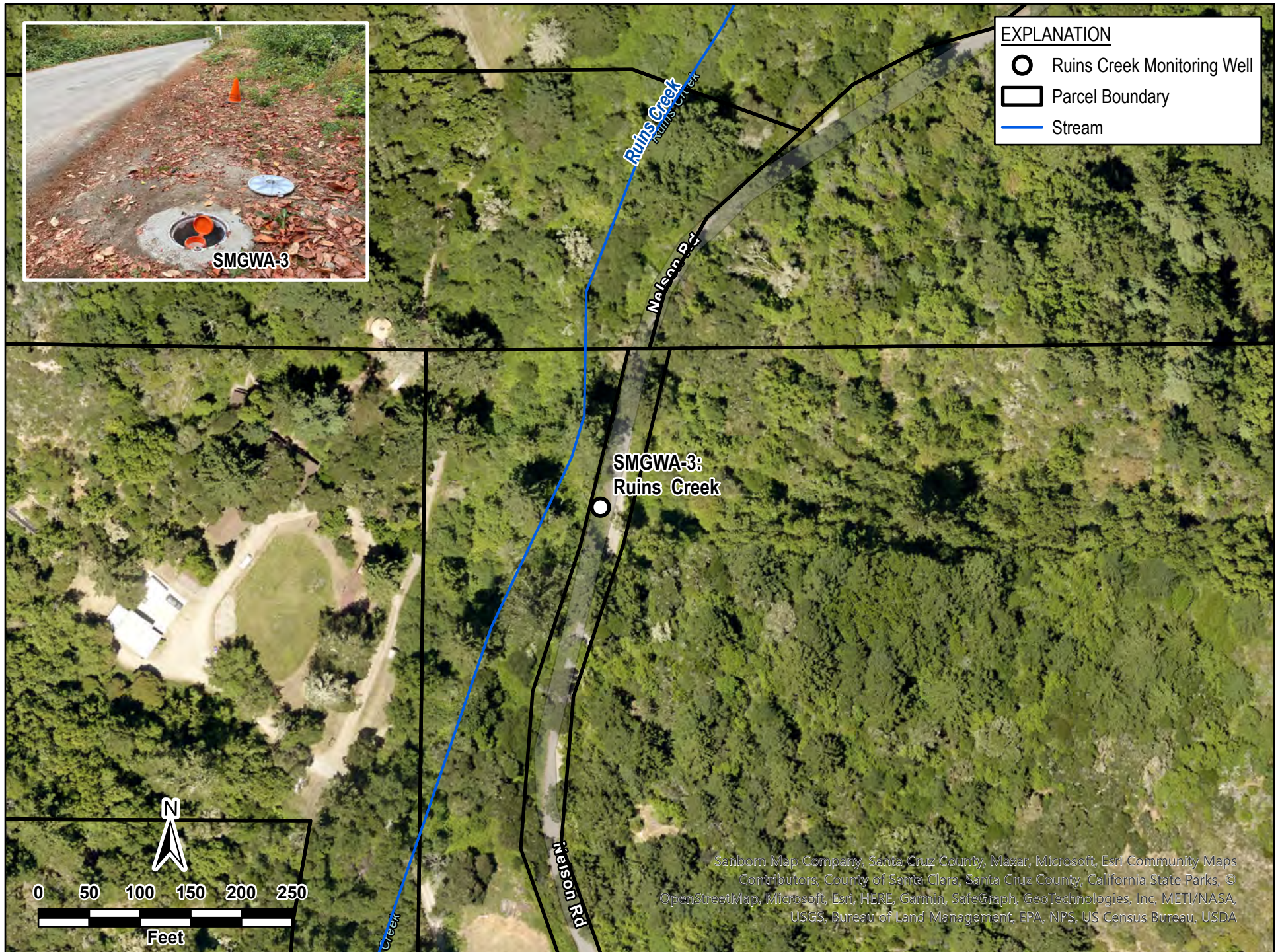
Basin	Santa Margarita Basin
bgs	below ground surface
btoc.....	below top of casing
County.....	Santa Cruz County
EPA	United States Environmental Protection Agency
Geocentric	Geocentric Drilling, Inc
GSP	Groundwater Sustainability Plan
M&A	Montgomery & Associates
MCL.....	maximum contaminant level
mg/L.....	milligrams per Liter
OD.....	outside diameter
Ponder	Ponder Environmental Services, Inc.
PVC.....	polyvinyl chloride
SGMA	Sustainable Groundwater Management Act
SLVWD	San Lorenzo Valley Water District
SMGWA	Santa Margarita Groundwater Agency
SVWD.....	Scotts Valley Water District
TDS.....	total dissolved solids



Appendix A

Site Plans



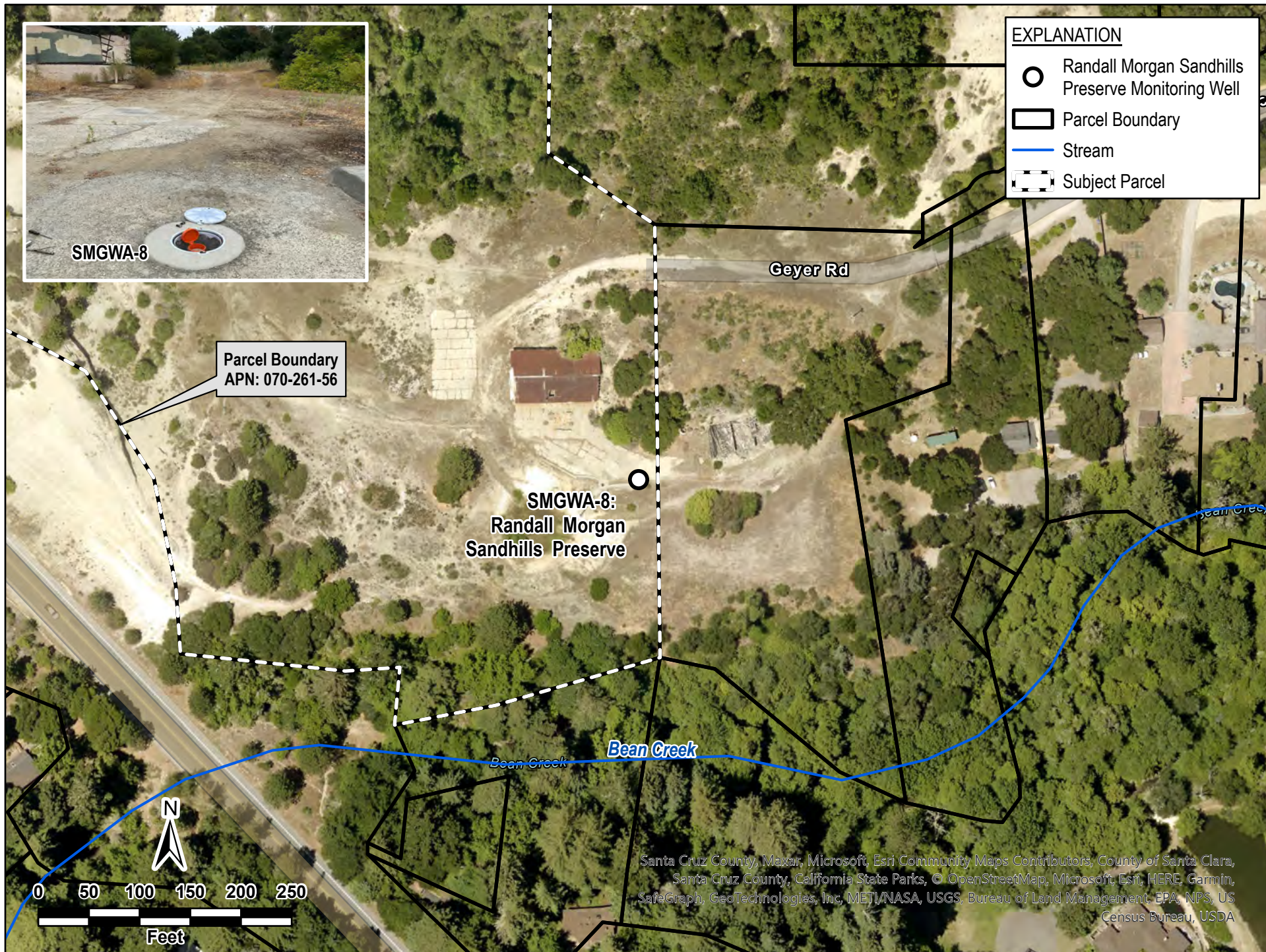












Appendix B

Permits

- Well Permits
- Encroachment Permits
- Sandhills Habitat Mitigation
- Access Agreements
- Permanent Easements
- California Environmental Quality Act Notice of Exemption

SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060
(831) 454-2022 scceh.com landuse@santacruzcounty.us

APPLICATION FOR WELL PERMIT

☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other _____ ☐ Geothermal ☒ Monitoring Well

County right-of-way _____

Site Parcel Number _____ Other Parcels Served _____

WP 131 4680
(Permit #) (Envision #) Program Element

Site Address Bean Creek Road, Scotts Valley, CA. 95066

Owner County of Santa Cruz Address 701 Ocean St, Santa Cruz, CA, 95060

Drilling Contractor Unknown License # Unknown Phone Unknown

Directions To Site West side of Bean Creek Road, 1.465' south of Morgans Run ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To: David McNair, SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95066

DESIGN SPECIFICATIONS:**INTENDED USE**DOMESTIC: ☐

#Homes Served _____

WATER SYSTEM WELL ☐

Name of Water System _____

IRRIGATION _____ Acres _____

Crop: _____

Water Use: _____ af/yr

COMMERCIAL/INDUSTRIAL _____ Type _____

WITHIN WATER DISTRICT SERVICE AREA ☒ NO ☐ YES NAME _____CONSTRUCTION DEPTH (FT.) ⁸⁰ _____ DIAMETER (IN.) ² _____ DEPTH OF SEAL (FT.) ⁴⁰ _____ WIDTH OF SEAL (IN.) ^{>=2} _____**EXISTING WELLS ON PROPERTY:**1 OTHER WELLS ON PROPERTY: NUMBER _____ TYPES DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER _____

2 CONDITION OF OTHER WELLS ON PROPERTY: IN USE _____ TO BE DESTROYED _____

3 IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER _____

WELL DESTRUCTION: Depth Of Well _____ Depth Of Seal _____ Number Of Water Formations Penetrated _____ Perforation? _____
Cleaning Of Well Required Yes: ☐ No: ☐ Sealing Material _____ Other measures _____

Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

WORKER'S COMPENSATION CERTIFICATE☐ A CURRENTLY EFFECTIVE CERTIFICATION OF WORKERS COMPENSATION INSURANCE IS ON FILE WITH THIS OFFICE

INSURANCE CARRIER _____ POLICY # _____

☐ I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKER'S COMPENSATION LAWS OF CALIFORNIA

RESPONSIBLE AGENCY

DRILLING CONTRACTOR

5/17/2023

FOR OFFICE USE ONLY

SITE INSPECTION _____

SUPPLEMENTAL WATER USE SHEET _____

APPLICATION APPROVAL _____

PAD INSPECTION _____

RECEIPT OF WELL LOG _____

FINAL _____

DATE

EHS SPECIALIST

MGR

ANNULAR WELL SEAL WITNESSED

☐ YES DATE _____☐ NO DEPTH _____

SEAL MATERIAL _____

SACKS CEMENT/YARD _____

WATER QUALITY DATA RECEIVED _____ OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE _____ INSTALLATION VERIFIED _____GEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED _____

COMMENTS _____

SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060
(831) 454-2022 scceh.com landuse@santacruzcounty.us

APPLICATION FOR WELL PERMIT

SMGWA-3_RUINSCred

☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

NEAR 070-131-20
County right-of-way

WP 133 4680
(Permit #) (Envision #) Program Element

Site Address Nelson Road, Scotts Valley, CA, 95066

Owner County of Santa Cruz Address 701 Ocean St, Santa Cruz, CA, 95060

Drilling Contractor Unknown License # Unknown Phone Unknown

Directions To Site 1.2 miles north on Nelson Road, west side of road

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To: David McNair, SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95066

DESIGN SPECIFICATIONS:

INTENDED USE

DOMESTIC: ☐

#Homes Served

WATER SYSTEM WELL ☐

Name of Water System

IRRIGATION Acres

Crop

Water Use all/yr

COMMERCIAL/INDUSTRIAL Type

WITHIN WATER DISTRICT SERVICE AREA ☒ NO ☐ YES NAME:

CONSTRUCTION DEPTH (FT.) 300 DIAMETER (IN.) 2 DEPTH OF SEAL (FT.) 260 WIDTH OF SEAL (IN.) >=2

EXISTING WELLS ON PROPERTY:

1. OTHER WELLS ON PROPERTY: NUMBER 0 TYPES DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER

2. CONDITION OF OTHER WELLS ON PROPERTY: IN USE TO BE DESTROYED

3. IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL.

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER

WELL DESTRUCTION:

Depth Of Well Depth Of Seal Number Of Water Formations Penetrated Perforation?
Cleaning Of Well Required Yes ☐ No ☐ Sealing Material Other measures

Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

WORKER'S COMPENSATION CERTIFICATE

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INSURANCE CARRIER POLICY #

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RESPONSIBLE AGENCY

455E6F70FDE740B

DRILLING CONTRACTOR

MICHAEL CRAMER

5/17/2023

FOR OFFICE USE ONLY:

SITE INSPECTION

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

DATE

EHS SPECIALIST

MGR

ANNULAR WELL SEAL WITNESSED

☐ YES DATE

☐ NO DEPTH

SEAL MATERIAL

SACKS CEMENT/YARD

WATER QUALITY DATA RECEIVED OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE INSTALLATION VERIFIED

GEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED

COMMENTS

SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060

(831) 454-2022 scceh.com landish@santacruzcounty.us

APPLICATION FOR WELL PERMITSMGWA-4-Nelson Rd-
Lockhart Gulch☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

County right-of-way

Site Parcel Number Other Parcels Served

WP 132

(Permit #)

(Envision #)

4680

Program Element

Site Address Nelson Road after intersection with Lockhart Gulch Scotts Valley, CA 95066

Owner County of Santa Cruz Address 701 Ocean St, Santa Cruz, CA 95060

Drilling Contractor Unknown

License # Unknown

Phone Unknown

Directions To Site 100 ft north on Nelson Road after intersection with Lockhart Gulch

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To David McNair SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95066

DESIGN SPECIFICATIONS:**INTENDED USE**DOMESTIC ☐

#Homes Served

WATER SYSTEM WELL ☐

Name of Water System

IRRIGATION Acres

Crop

Water Use at/yr

COMMERCIAL/INDUSTRIAL Type

WITHIN WATER DISTRICT SERVICE AREA ☒ NO ☐ YES NAME**CONSTRUCTION** DEPTH (FT) 100 DIAMETER (IN) 2 DEPTH OF SEAL (FT) 60 WIDTH OF SEAL (IN) 2**EXISTING WELLS ON PROPERTY:**1. OTHER WELLS ON PROPERTY: NUMBER 0 TYPES: DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER

2. CONDITION OF OTHER WELLS ON PROPERTY: IN USE TO BE DESTROYED

3. IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER**WELL DESTRUCTION** Depth Of Well Depth Of Seal Number Of Water Formations Penetrated Perforation? Cleaning Of Well Required Yes ☐ No ☐ Sealing Material Other measures**Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)**

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

WORKER'S COMPENSATION CERTIFICATE

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 INSURANCE CARRIER POLICY #
☐ I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKER'S COMPENSATION LAWS OF CALIFORNIA

RESPONSIBLE AGENCY

DRILLING CONTRACTOR

5/17/2023

FOR OFFICE USE ONLY

SITE INSPECTION

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

DATE

EHS SPECIALIST

MGR

ANNULAR WELL SEAL WITNESSED

☐ YES DATE☐ NO DEPTH

SEAL MATERIAL

SACKS CEMENT/YARD

WATER QUALITY DATA RECEIVED OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE INSTALLATION VERIFIEDGEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED

COMMENTS

SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060

(831) 454-2022 scceh.com landuse@santacruzcounty.us

SMGWA - 5. BAHR DRIVE

APPLICATION FOR WELL PERMIT☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

County right-of-way

Site Parcel Number Other Parcels Served

(Permit #) (Envision #) Program Element

Site Address Bahr Dr. Ben Lomond, CA 95005

Owner San Lorenzo Valley Water District

Address 13060 CA-9 Boulder Creek, CA 95006

Drilling Contractor Unknown

License # Unknown

Phone Unknown

Directions To Site North side of Bahr Dr opposite 290 Bahr Rd

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To: David McNair, SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95066

DESIGN SPECIFICATIONS:**INTENDED USE**DOMESTIC ☐

#Homes Served

WATER SYSTEM WELL ☐

Name of Water System

IRRIGATION Acres:

Crop

Water Use af/yr

COMMERCIAL/INDUSTRIAL Type:

WITHIN WATER DISTRICT SERVICE AREA ☐ NO ☒ YES NAME: San Lorenzo Valley Water District

(FORM HSA-579 REQUIRED)

CONSTRUCTION DEPTH (FT) 200 DIAMETER (IN) 2 DEPTH OF SEAL (FT) 160 WIDTH OF SEAL (IN) >= 2**EXISTING WELLS ON PROPERTY:**1 OTHER WELLS ON PROPERTY NUMBER 0 TYPES DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER

2 CONDITION OF OTHER WELLS ON PROPERTY IN USE TO BE DESTROYED

3 IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER**WELL DESTRUCTION:** Depth Of Well Depth Of Seal Number Of Water Formations Penetrated Perforation? Cleaning Of Well Required Yes: ☐ No: ☐ Sealing Material Other measures**Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)**

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

WORKER'S COMPENSATION CERTIFICATE☐ A CURRENTLY EFFECTIVE CERTIFICATION OF WORKERS COMPENSATION INSURANCE IS ON FILE WITH THIS OFFICE☐ INSURANCE CARRIER POLICY #

I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKER'S COMPENSATION LAWS OF CALIFORNIA

RESPONSIBLE AGENCY

DRILLING CONTRACTOR

5/17/2023

FOR OFFICE USE ONLY

SITE INSPECTION DATE EHS SPECIALIST MGR ANNULAR WELL SEAL WITNESSED

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

☐ YES DATE☐ NO DEPTH

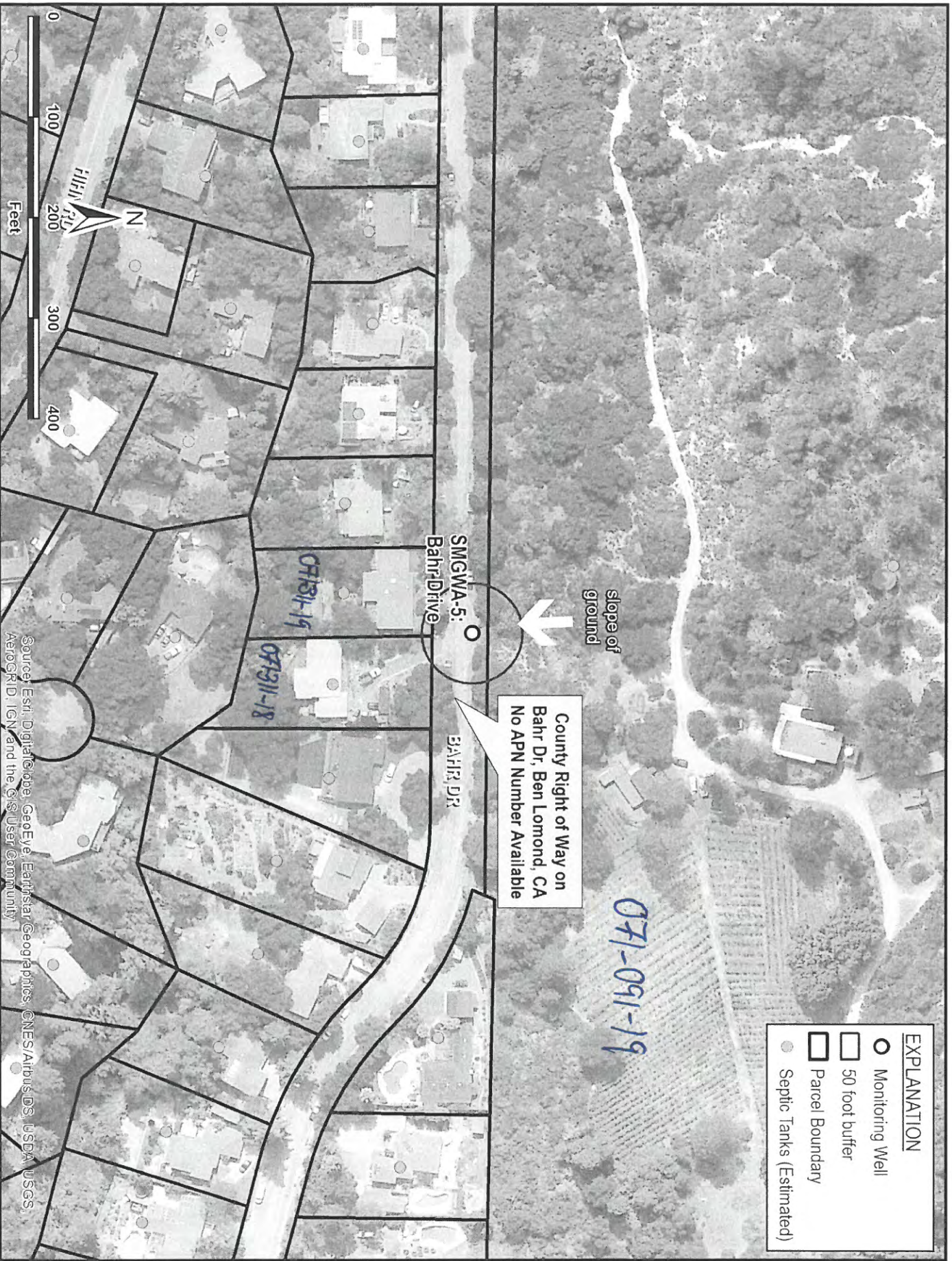
SEAL MATERIAL

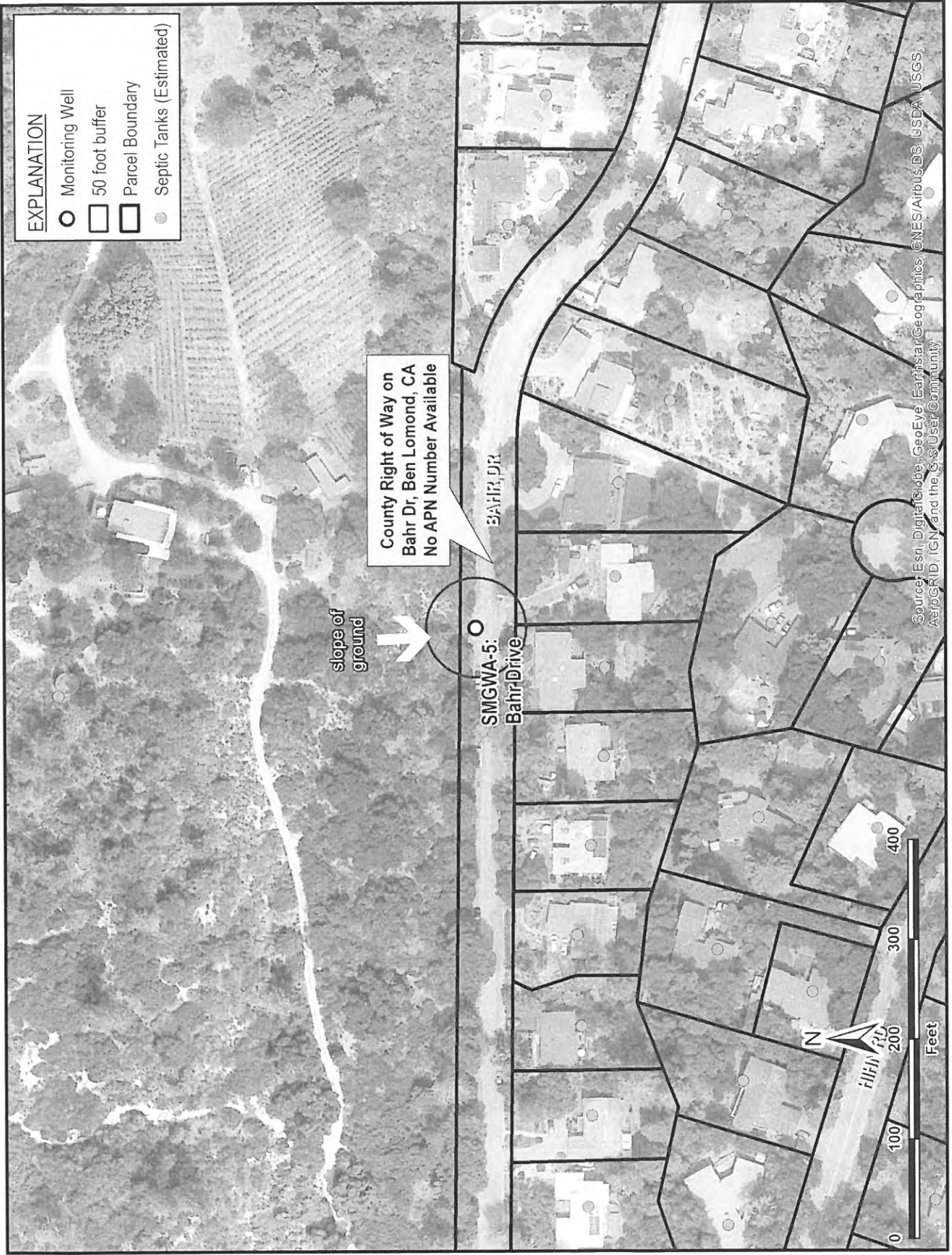
SACKS CEMENT/YARD

WATER QUALITY DATA RECEIVED OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE INSTALLATION VERIFIEDGEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED

COMMENTS





SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060
(831) 454-2022 scceh.com landuse@santacruzcounty.us

APPLICATION FOR WELL PERMIT

SMGWA-6-QuailHolt

☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

077-391-03

Site Parcel Number _____ Other Parcels Served _____

Site Address Quail Hollow Rd, Ben Lomond, CA 95005

WP 134
(Permit #)4680
(Envision #)

Program Element

Owner San Lorenzo Valley Water District

Address 13560 CA-9, Boulder Creek, CA 95006

Drilling Contractor Unknown

License # Unknown

Phone Unknown

Directions To Site Water District-owned utility parcel on north side of Quail Hollow Rd, opposite 2001 Quail Hollow Rd

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To: David McNair, SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95066

DESIGN SPECIFICATIONS

INTENDED USE

DOMESTIC ☐

#Homes Served _____

WATER SYSTEM WELL ☐

Name of Water System _____

IRRIGATION _____ Acres _____

Crop _____

Water Use _____ af/yr

COMMERCIAL/INDUSTRIAL _____ Type _____

WITHIN WATER DISTRICT SERVICE AREA ☐ NO ☒ YES NAME San Lorenzo Valley Water District

(FORM HSA-579-REQUIRED)

CONSTRUCTION DEPTH (FT) 300 DIAMETER (IN) 2 DEPTH OF SEAL (FT) 250 WIDTH OF SEAL (IN) 2

EXISTING WELLS ON PROPERTY

1. OTHER WELLS ON PROPERTY NUMBER 1 TYPES DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER Multi extraction

2. CONDITION OF OTHER WELLS ON PROPERTY IN USE inactive TO BE DESTROYED

3. IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER

WELL DESTRUCTION

Depth Of Well _____ Depth Of Seal _____ Number Of Water Formations Penetrated _____ Perforation? _____

Cleaning Of Well Required Yes ☐ No ☐ Sealing Material _____ Other measures _____

Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted

WORKER'S COMPENSATION CERTIFICATE

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I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKER'S COMPENSATION LAWS OF CALIFORNIA

RESPONSIBLE AGENCY

455E6F70FDE740B

DRILLING CONTRACTOR

BA206BA60F68466

FOR OFFICE USE ONLY

SITE INSPECTION

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

DATE

EHS SPECIALIST

MGR

ANNULAR WELL SEAL WITNESSED

☐ YES DATE _____☐ NO DEPTH _____

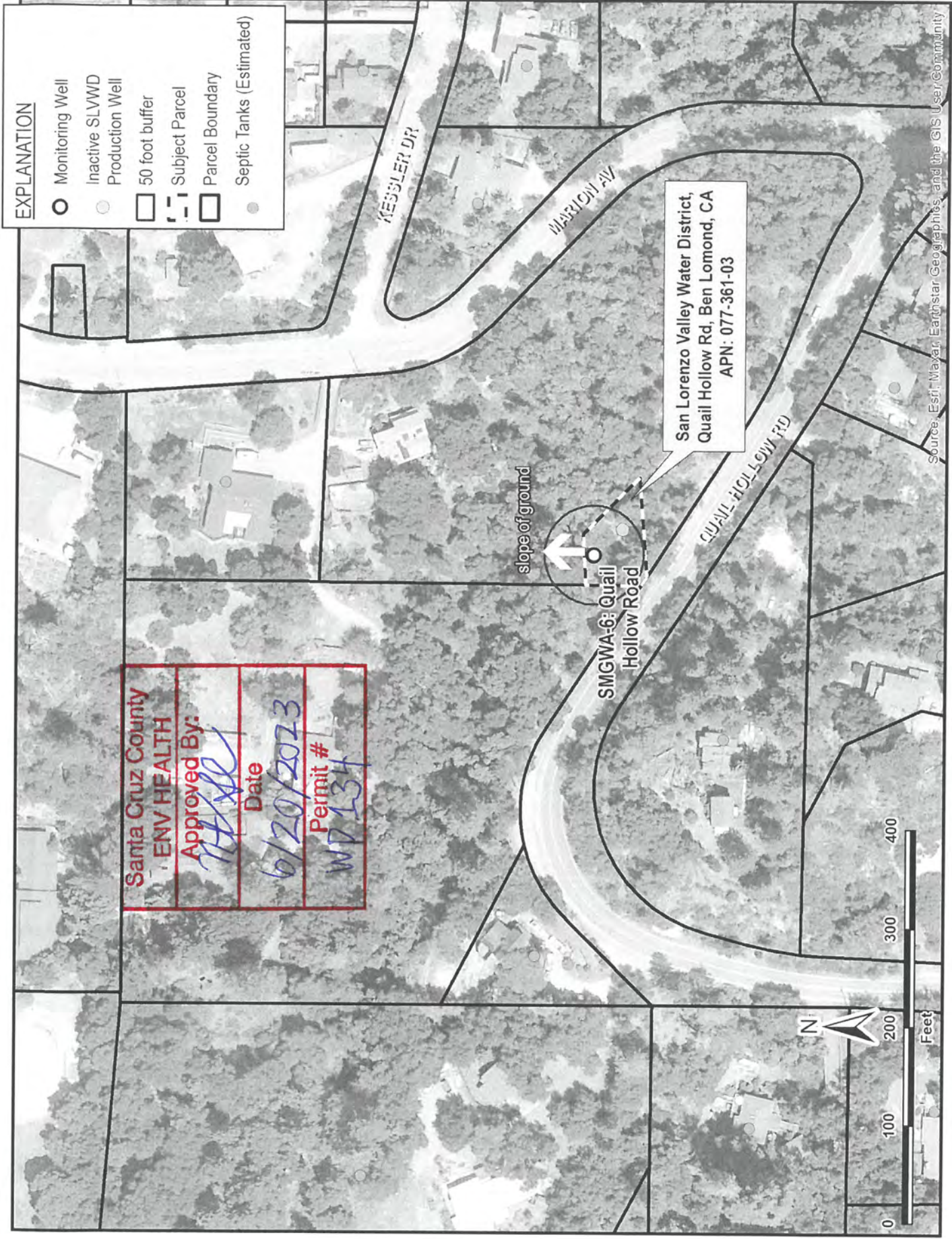
SEAL MATERIAL _____

SACKS CEMENT/YARD _____

WATER QUALITY DATA RECEIVED _____ OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE _____ INSTALLATION VERIFIED _____GEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED _____

COMMENTS The Environmental Health Division must be notified at least 48 hours prior to the start of work - please call (831) 359-0856 or (831) 454-2145.



APPLICATION FOR WELL PERMIT

SMGWA-7-LOVE Creek

☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

076-192-19

Site Parcel Number _____ Other Parcels Served _____

Site Address Love Creek Rd Ben Lomond, CA 95005

Owner San Lorenzo Valley Water District

Address 13060 CA-9 Boulder Creek, CA 95006

Drilling Contractor Unknown

License # Unknown

Phone Unknown

Directions To Site Site is in a vacant county-owned land off of Love Creek Rd

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

Mail Correspondence To: David McNair, SMGWA, 2 Civic Center Dr, Scotts Valley, CA 95006

DESIGN SPECIFICATIONS:

INTENDED USE

DOMESTIC: ☐

#Homes Served _____

WATER SYSTEM WELL: ☐

Name of Water System _____

IRRIGATION _____ Acres _____

Crop _____

Water Use: _____ a/yr

COMMERCIAL/INDUSTRIAL _____ Type _____

WITHIN WATER DISTRICT SERVICE AREA ☐ NO ☒ YES NAME San Lorenzo Valley Water District

CONSTRUCTION DEPTH (FT) 300 DIAMETER (IN.) 2 DEPTH OF SEAL (FT.) 260 WIDTH OF SEAL (IN.) 2 (FORM HSA-579-REQUIRED)

EXISTING WELLS ON PROPERTY:

1. OTHER WELLS ON PROPERTY: NUMBER 0 TYPES DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER _____

2. CONDITION OF OTHER WELLS ON PROPERTY: IN USE _____ TO BE DESTROYED _____

3. IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL:

☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER _____
 WELL DESTRUCTION: Depth Of Well _____ Depth Of Seal _____ Number Of Water Formations Penetrated _____ Perforation? _____
 Cleaning Of Well Required Yes ☐ No ☐ Sealing Material _____ Other measures _____

Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

WORKER'S COMPENSATION CERTIFICATE



A CURRENTLY EFFECTIVE CERTIFICATION OF WORKERS COMPENSATION INSURANCE IS ON FILE WITH THIS OFFICE



INSURANCE CARRIER _____

POLICY # _____

I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKER'S COMPENSATION LAWS OF CALIFORNIA

RESPONSIBLE AGENCY

45566760DE740B

DRILLING CONTRACTOR

MICHAEL CRAMER

5/17/2023

BA206BA60F68466

FOR OFFICE USE ONLY

SITE INSPECTION

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

DATE

5/23/23

EHS SPECIALIST

[Signature]

MGR

AS 5/23/23

ANNULAR WELL SEAL WITNESSED

☐ YES DATE _____☐ NO DEPTH _____

SEAL MATERIAL _____

SACKS CEMENT/YARD _____

WATER QUALITY DATA RECEIVED _____ OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE _____ INSTALLATION VERIFIED _____GEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED _____

COMMENTS: _____

MOBORGAN
Sandhills

APPLICATION FOR WELL PERMIT

☒ New ☐ Replacement ☐ Supplemental ☐ Destruction ☐ Other ☐ Geothermal ☒ Monitoring Well

070-261-56

Site Parcel Number _____ Other Parcels Served _____ (Permit #) WP 129 (Envision #) 4680 Program Element _____

Owner County of Santa Cruz Address 701 Ocean St. Santa Cruz CA 95060

Drilling Contractor Unknown License # Unknown Phone Unknown

Directions To Site End of Geyer Rd. in Scotts Valley, CA

Mail Correspondence To: David McNair, SMGWA 2 Civic Center Dr. Scotts Valley, CA 95066

ESTIMATED WORK DATES: START Unknown COMPLETION Unknown

DESIGN SPECIFICATIONS:

INTENDED USE

DOMESTIC ☐

#Homes Served _____

WATER SYSTEM WELL ☐

Name of Water System _____

IRRIGATION _____ Acres _____

Crop _____

Water Use _____ af/yr

COMMERCIAL/INDUSTRIAL _____ Type _____

WITHIN WATER DISTRICT SERVICE AREA ☒ NO ☐ YES NAME _____

CONSTRUCTION DEPTH (FT) 200 DIAMETER (IN) 2 DEPTH OF SEAL (FT) 160 WIDTH OF SEAL (IN) >= 2 (FORM HSA-579-REQUIRED)

EXISTING WELLS ON PROPERTY

1. OTHER WELLS ON PROPERTY NUMBER 0 TYPES: DOMESTIC ☐ IRRIGATION ☐ COMMERCIAL USE ☐ OTHER _____
2. CONDITION OF OTHER WELLS ON PROPERTY IN USE _____ TO BE DESTROYED _____
3. IF NEW WELL REPLACES AN EXISTING WELL, INDICATE INTENTIONS FOR USE OF REPLACED WELL
☐ TO SUPPLEMENT NEW WELL ☐ TO BE DESTROYED ☐ OTHER _____

WELL DESTRUCTION Depth Of Well _____ Depth Of Seal _____ Number Of Water Formations Penetrated _____ Perforation? _____
Cleaning Of Well Required Yes ☐ No ☐ Sealing Material _____ Other measures _____

Plot Plan: Attach 2 copies of plot plan (see reverse for requirements)

I hereby agree to comply with all laws and regulations of the county of Santa Cruz and state of California pertaining to well construction, and declare under penalty of perjury the information submitted on this application is true and correct. I will contact the environmental health service when I commence the work. Within 15 days after completion of work I will furnish the environmental health service a report of the work performed and notify them before putting the well into use. I understand that this permit expires one year from date of issuance. I understand approval of the well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such system will be granted.

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INSURANCE CARRIER _____ POLICY # _____

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RESPONSIBLE AGENCY

4556670F0E740B

DRILLING CONTRACTOR

MICHAEL CRAMER

5/17/2023

BA206BA60F68466

FOR OFFICE USE ONLY

SITE INSPECTION

SUPPLEMENTAL WATER USE SHEET

APPLICATION APPROVAL

PAD INSPECTION

RECEIPT OF WELL LOG

FINAL

DATE

5/23/23

EHS SPECIALIST

(Signature)

MGR

AS 5/23/23

ANNULAR WELL SEAL WITNESSED

☐ YES DATE _____

☐ NO DEPTH _____

SEAL MATERIAL _____

SACKS CEMENT/YARD _____

WATER QUALITY DATA RECEIVED _____ OK?

WATER EFFICIENCY EVALUATION REQUIRED YES ☐ NO ☐ COMPLETE _____ INSTALLATION VERIFIED _____

GEOPHYSICAL LOG REQUIRED YES ☐ NO ☐ RECEIVED _____

COMMENTS _____

NO. 23- 035

County of Santa Cruz
Department of Community Development and Infrastructure
701 Ocean Street, Fourth Floor, Santa Cruz, CA 95060
Planning (831) 454-2580 Public Works (831) 454-2160
sccoplanning.com dpw.co.santa-cruz.ca.us

MATT MACHADO, Deputy CAO
Director of Community Development & Infrastructure

Encroachment Inspector Info.:

Mike MacMahon Phone: 831-454-2054 Email: michael.macmahon@santacruzcounty.us

ENCROACHMENT PERMIT

TO: Permittee Name	SANTA MARGARITA GROUNDWATER A	Date Permit Issued	5/16/2023
Contact Name	David McNair		
Mailing Address	2 CIVIC CENTER DR	Estimated Start Date	5/22/2023
	SCOTTS VALLEY CA 95066	Est. Completion Date	5/16/2024
Phone	831-438-2363	Fee	\$1,216.00
APN		Receipt #	C 455217
Utility Project No.		Date Fee Paid	5/16/2023
Building Permit No.			
Project Address	6 Different sites in North Santa Cruz Co	Contractor	Geocentric Drilling Inc.
		Contractor Phone	916-304-2665

Project Description	Monitoring Wells
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Work Hours Allowed	8:30 AM to 4:30 PM, Monday thru Friday
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Work outside of the approved hours may result in fines or a Stop-Work order.

THIS PERMIT IS FOR WORK IN THE COUNTY RIGHT-OF-WAY ONLY. Permittee is responsible for any road damage during construction. The County Encroachment Inspector (noted above) shall be contacted at least one week in advance for initial site inspection prior to commencement of any approved work, and at least 72 hours in advance for subsequent inspections.

Pursuant to Santa Cruz County Code Chapter 9.70 Street and Roads and subject to existing ordinances, and to all the terms, conditions, and restrictions written below or printed as general or special provisions on any part of this form and/or attached hereto, PERMISSION IS HEREBY GRANTED TO (scope of work):

Drilling and installing 5 monitoring wells (SMGWA-2, -3, -4, -5, and -7) in the County Right-of-Way in Scotts Valley and San Lorenzo Valley areas. Drilling equipment includes 1 truck mounted drill rig, 1 support truck, 1 roll-off dumpster, and 1 porta-potty. 1 additional monitoring well (SMGWA-6) will be installed on San Lorenzo Valley Water District property but roll-off dumpster and support truck will be in right-of-way during drilling and well installation.

PLEASE READ THIS PERMIT CAREFULLY. Keep it at the work site. To arrange for an inspection, phone 454-2160 at least 48 hours prior to construction. Your attention is directed to the General Provisions attached herewith. (Attach two sets of plans or sketches if applicable).

This permit shall be void unless the work herein contemplated shall have been completed by: 5/16/2024

Accepting this permit or starting work hereunder shall constitute acceptance and agreement to all the conditions and requirements of this permit.

Signature of Permittee: MATT MACHADO Director of Public Works

By: _____
Permittee or Authorized Agent

By: Michael MacMahon

THIS PERMIT BECOMES VALID WHEN BOTH PARTIES HAVE SIGNED

GENERAL PROVISIONS

1. Definition: This permit is issued pursuant to Chapter 9.70 of the Santa Cruz County Streets and Roads Code. The term "encroachment" is used in this permit as defined in said chapter 9.70 of the said Code, except as otherwise provided for public agencies and franchise holders. This permit is revocable on five days' notice.
2. Acceptance of Provisions: It is understood and agreed by the permittee that the doing of any work under this permit shall constitute an acceptance of the provisions.
3. No precedent established: This permit is granted with the understanding that this action is not to be considered as establishing any precedent on the question of the expediency permitting certain kinds of encroachment to be reckoned within right of way of County highways.
4. Notice prior to starting work: Before starting work, the permittee shall notify the Director of Public Works or other designated employee. Such notice shall be given at least 48 hours in advance of the date work is to begin. Unless otherwise specified, all work shall be performed on weekdays and during normal working hours of the grantor's inspector.
5. Keep permit on work: The permit shall be kept at the site of the work and must be shown to any representative of the grantor or any law enforcement officer on demand.
6. Permits from other agencies: The party or parties to whom this permit is issued shall, whenever the same is required by law, secure the written order of consent of any work hereunder from the Public Utilities Commission of the State of California or any other public board having jurisdiction and this permit shall be suspended in operation until such order of consent is obtained.
7. Protection of traffic: Adequate provisions shall be made for the protection of the traveling public. Barricades shall be placed with amber lights at night; also, flagmen employed. All of this may be required by the grantor for the particular work in progress. Warning signs, lights, and devices shall be placed in conformance with the requirements of the State of California, Department of Public Works.
8. Minimum interference with traffic: All work shall be planned and carried out so that there will be the least possible inconvenience to the traveling public except for the specific work permitted. One lane shall remain open to the traveling public at all times. Road closures are not allowed, except with special permission from the Director of Public Works.
9. Storage of material: No material shall be stored within two feet of the edge of the pavement or traveled way or within the shoulder line where the shoulders are wider than five feet. No supplies or equipment shall be stored on the highway until permittee is ready to start work.
10. Cleanup right of way: Upon completion of the work, all brush, timber, scraps, and material shall be entirely removed and the right of way left in as presentable condition as before work started.
11. All construction shall conform with the current edition of the California Division of Highways standard plans and specification, and the design criteria of the County of Santa Cruz. In case of conflict, the conditions of this permit will take precedence over standard specifications.
12. Trench Safety has not been checked and is NOT IMPLIED with this permit. For current Codes and Regulations contact: CAL/OSHA (408) 452-7288 and for utility locations contact: USA Underground Service Alert (800) 227-2600.
13. Future moving of installation: It is understood by the permittee that whenever construction, reconstruction, or maintenance work on the highway may require, the installation provided herein shall, upon request of the grantor, be removed or revised at the sole expense of the permittee within five days of such notice.
14. Liability for damages: The permittee is responsible and liable for personal injury or property damage which may arise out of the work herein permitted or which may arise out of failure on permittee's part to perform their obligation under this permit in respect to maintenance. If any claim for such injury or damage is made against the County of Santa Cruz or any department, officer, or employee thereof, permittee shall defend, indemnify, and hold them and each of them harmless from such claim.
15. Care of drainage: If the work herein contemplated shall interfere with established drainage, ample provision shall be made by the permittee to provide for it as may be directed by the grantor.
16. Maintenance: The permittee agrees by the acceptance of this permit to exercise reasonable care to maintain properly any encroachments placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.
17. Test results: Upon demand, the permittee shall provide the Director of Public Works with the results of tests showing that the compaction requirements have been complied with. Compliance shall be certified by a materials testing laboratory with local experience and said laboratory shall be acceptable to the Director of Public Works.
18. Pavement replacement: Any paved portion of County highway which is removed or damaged shall be replaced with a minimum replacement of 0.75 foot of Class II aggregate base and 0.25 foot of Type B asphalt concrete. Where the existing structural section is greater than the replacement requirement, the structural section removed shall be replaced in kind. Prior to repaving the existing pavement shall be cut on a straight line to give a vertical face to pave against.
19. Damages to roads: Permittee agrees to repair in a manner satisfactory to the County of Santa Cruz any damages to the roads in the project area result from this work.
20. Trimming or removing trees: Trimming of trees will be permitted only in the manner authorized by permit. Trimming of trees required for overhead utility clearance may be performed without a permit. Attention is directed to the Tree Policy approved by the Board of Supervisors.
21. If the provisions of this permit are not complied with, the County reserves the right to do any and all work necessary to bring the road into a safe condition. The costs of this work will be charged to the permittee. The County will give a reasonable notice of its intentions to make such repairs.

ENCROACHMENT PERMIT CONDITIONS

Work Hours

Work hours shall be as indicated on the permit.

- 1) Requests for changes to working hours shall be submitted in writing at least two weeks in advance of the intended work, or 30 days if road closures are involved. Penalty fees for lane closure before or after designated times.
- 2) Penalty fees for lane closure before or after designated times shall be enforced. Penalty fees will be assessed for each 10- minute interval (or fraction thereof) for lane closures outside permitted times, penalty fee shall be \$100 per interval for first infraction, \$300 per interval for second infraction and \$500 per interval thereafter. Penalty fees will be payable from the permittee to the County of Santa Cruz Public Works.

Emergency Contact

Project Emergency Contact List shall be furnished prior to the first day of work. These contacts should include person(s) responsible for 24-hour complaint or safety issues. Send via email to the County Maintenance Yard Dispatcher dpwct3@santacruzcounty.us and to the ***Encroachment Inspector***.

Traffic Control and Signage

Traffic Control and Signage shall be performed per MUTCD and Caltrans Standards.

- 1) The ***Encroachment Inspector*** may require a site specific Traffic Control Plan and/or additional signage depending on the jobsite conditions. Changes in approved Traffic Control Plan or Setup must be approved by the Encroachment Inspector prior to implementation. Accommodations for pedestrians and bicycle traffic should be implemented.
 - 2) For traffic signal modifications and traffic loop repair please contact Craig Geis @ Cal-West lighting (408) 640-7796 for costs and scheduling.
 - 3) Site signage shall be posted as required by the encroachment permit. Signage shall display at a minimum: impacts to access, working hours, and dates work will occur, additional information to be posted may be required by the encroachment permit. Site signage shall accurately reflect project conditions as approved in the encroachment permit (including but not limited to indicating approved dates of work, working hours, and whether closures or detours will be in effect). Permittee shall be assessed a penalty fee of \$1,000 per day, per site, for failure to post site signage meeting these requirements. Penalty fees will be payable from the permittee to the County of Santa Cruz Public Works.
-

ENCROACHMENT PERMIT CONDITIONS

Temporary Signs

Temporary No Parking Signs shall contain the following information:

- 1) The Words: "NO PARKING" "TOW AWAY" "C.V.C. 22651"
- 2) The Times of day and the Date or Date Range that No Parking will be in effect
- 3) Signs shall be 12"x18" in size with red lettering on white background as shown in detail contained in the appendix of these specifications.
- 4) Signs shall be posted at least 2 working days prior to the start date referenced on the sign.
- 5) Signs shall be posted at a visible and stable location adjacent to Temporary No Parking area.
- 6) Signs shall be posted every 50 feet for on-street parallel parking, and every 25 feet for on-street diagonal parking spaces. Signs shall also be posted at the beginning and end of a block or portion of a block. Signs in off-street parking lots will be posted on barricades at all lot entrances.

Notifications

Contractor is required to notify residents, schools, and businesses impacted by proposed work in advance of starting date. Contractor shall notify Santa Cruz Metro 72 hours prior to impacting a bus stop. Please email Donna Bauer dbauer@scmtd.com or call (831) 426-6080 72 hours prior to impacting a bus stop.

Staging and Right of Way

Unless specifically permitted by the County, staging shall not be allowed in the County road right-of-way. The Permittee shall make arrangements for a construction staging area that is in conformance with all County land use and zoning regulations.

Potholing

Potholing shall be required to meet County of Santa Cruz Design Criteria, Figures EP-7 and EP-8. Pothole paving should be included in final paving limits.

Custom Conditions

DPW Encroachments must have Traffic Control Plans for a site before work at that site can be started. As of 5/16/23 work can only be done on sites 2,3,6, and 7

NO. _____



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060-4070
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

MATT MACHADO
DIRECTOR OF PUBLIC WORKS

ENCROACHMENT PERMIT APPLICATION

TO:	Permittee Name	David McNair	Date Issued	
	Mailing Address	Santa Margarita Groundwater Agency 2 Civic Center Dr, Scotts Valley, CA 95066	Project Address	County Right-of-Way - see attached site plans or lat/
	Phone	(831) 438-2363	Fee	
	Building Permit No.	None	Receipt #	
	APN	Various, see site plans		
	Contractor	Geocentric Drilling, Inc.	Phone	916-304-2665

Pursuant to Santa Cruz County Code Chapter 9.70 Street and Roads and subject to existing ordinances, and to all the terms, conditions, and restrictions written below or printed as general or special provisions on any part of this form and/or attached hereto, PERMISSION IS HEREBY GRANTED TO:

Please Provide Project Description:

Drilling and installing 5 monitoring wells (SMGWA-2, -3, -4, -5, and -7) in the County Right-of-Way in Scotts Valley and San Lorenzo Valley areas. Drilling equipment includes 1 truck mounted drill rig, 1 support truck, 1 roll-off dumpster, and 1 porta-potty. 1 additional monitoring well (SMGWA-6) will be installed on San Lorenzo Valley Water District property but roll-off dumpster and support truck will be in right-of-way during drilling and well installation.

PLEASE READ THIS PERMIT CAREFULLY. Keep it at the work site. To arrange for an inspection, phone 454-2160 at least 48 hours prior to construction. Your attention is directed to the General Provisions attached herewith. This permit shall be void unless the work herein contemplated shall have been completed by: _____ (Attach two sets of plans or sketches if applicable).

Accepting this permit or starting work hereunder shall constitute acceptance and agreement to all the conditions and requirements of this permit.

Signature of Permittee

By:

Permittee or Authorized Agent

MATT MACHADO
Director of Public Works

By:

Email Form

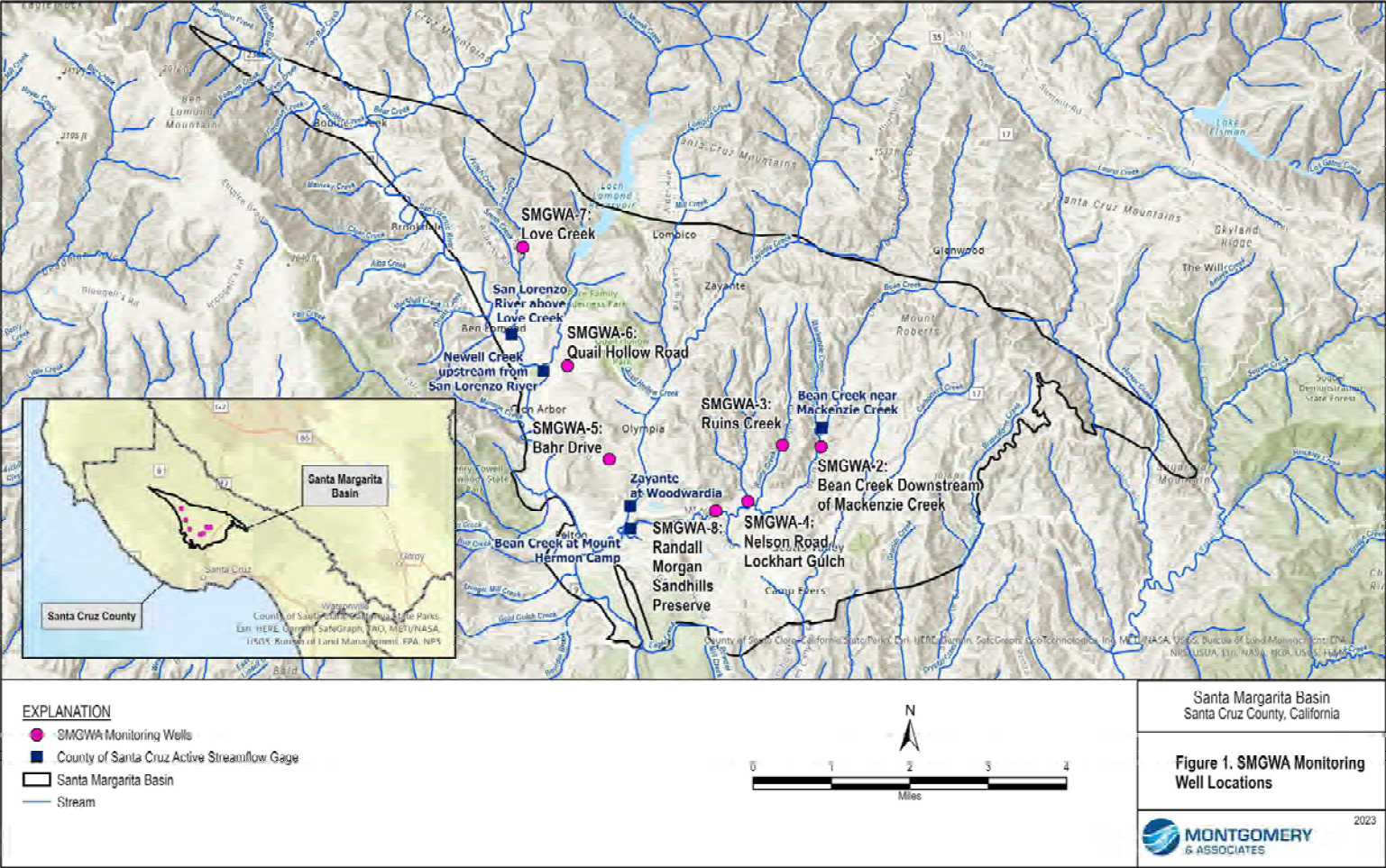
THIS PERMIT BECOMES VALID WHEN BOTH PARTIES HAVE SIGNED

Reset Form

WORK COMPLETED: Date: _____ By: _____

GENERAL PROVISIONS

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6. Permits from other agencies: The party or parties to whom this permit is issued shall, whenever the same is required by law, secure the written order of consent of any work hereunder from the Public Utilities Commission of the State of California or any other public board having jurisdiction and this permit shall be suspended in operation until such order of consent is obtained.
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21. If the provisions of this permit are not complied with, the County reserves the right to do any and all work necessary to bring the road into a safe condition. The costs of this work will be charged to the permittee. The County will give a reasonable notice of its intentions to make such repairs.





BEAN CREEK RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THE CALIFORNIA TEMPORARY TRAFFIC CONTROL HANDBOOK (CATTCH).
2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT PER THE LATEST ANS/ISEA 107 STANDARDS. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A R1-1/W20-8 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
4. NO PARKING SIGNS SHALL BE PLACED IN ACCORDANCE TO LOCAL AGENCY REQUIREMENTS. OTHERWISE, NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
5. ANY CONFLICTING SIGNS SHALL BE COVERED FOR THE LENGTH OF THE JOB.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
7. B.A.T.S. TRAFFIC SOLUTIONS, INC. ASSUMES NO LIABILITY WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN. PLANS ARE NOT TO BE DUPLICATED OR REDISTRIBUTED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS SCOPE OF WORK WITHOUT WRITTEN CONSENT.
8. PLACE W20-1 "ROAD WORK AHEAD" SIGNS ON ALL SIDE STREETS WITHIN THE ADVANCE WARNING AREA.
9. IF PEDESTRIAN ACCESS IS RESTRICTED DURING WORK HOURS, AT LEAST ONE WORKER SHALL BE ASSIGNED WITH THE RESPONSIBILITY TO SAFELY ESCORT DISABLED, ELDERLY, AND/OR ANY OTHER PEDESTRIAN IN NEED OF ASSISTANCE. THE ASSIGNED WORKER(S) MAY ALSO PARTICIPATE IN OTHER CONSTRUCTION ACTIVITIES BUT SHALL ALWAYS BE AWARE OF HIS/HER RESPONSIBILITY TO PROVIDE THIS ASSISTANCE. PEDESTRIANS SHALL NOT BE DIRECTED NOR EXPECTED TO CROSS A ROADWAY AT ANY LOCATION OTHER THAN AT A SIGNALIZED INTERSECTION OR ALL-WAY STOP. ACCOMMODATIONS SHOULD BE MADE ON THE SAME SIDE OF THE ROADWAY AS THE WORK.
10. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH A HIGH-LEVEL WARNING DEVICE (FLAG TREE).
11. TYPE A OR TYPE B FLASHING WARNING LIGHTS SHALL BE USED, AS SHOWN ON THE PLAN, WHEN WORK IS AT NIGHT OR ENDOACHES THE HOURS OF DARKNESS. TYPE B FLASHING WARNING LIGHTS SHALL BE USED, AS SHOWN ON THE PLAN, WHEN WORK IS 24/7 SETUP.
12. LIGHT TOWERS SHALL BE USED AT FLAGGER STATIONS AND WORK AREAS WHEN WORK IS AT NIGHT OR ENDOACHES THE HOURS OF DARKNESS. HIGHWAY CONSTRUCTION WORK LIGHTING SHALL BE PER CALIFORNIA CODE OF REGULATIONS CONSTRUCTION SAFETY ORDER 1523 (TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 4, ARTICLE 3, SECTION 1523).
13. WHEN APPLICABLE, PLACE A MINIMUM OF FOUR CONES AT 50FT INTERVALS IN ADVANCE OF FLAGGER STATION.
14. WHEN APPLICABLE, PLACE SHOULDER TAPER IN ADVANCE OF PCMS BOARD. SEE TABLE 1 ON CALTRANS STD T9 FOR SHOULDER TAPER LENGTH.
15. NOTHING ALLOWED IN BUFFER OR TRANSITION AREAS UNLESS OTHERWISE SHOWN ON THE PLAN.
16. CONTRACTOR SHALL PLATE OR BACKFILL EXCAVATED AREA DURING NON-WORKING HOURS.
17. PLAN IS ACCURATE FOR TRAFFIC CONTROL WORK ONLY. EXCAVATION LOCATION IS APPROXIMATE AND FOR REFERENCE ONLY.
18. CONES SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT NUMBER OF CONES REQUIRED SHALL BE BASED ON THE POSTED SPEED, TANGENT LENGTHS, TAPER LENGTHS, CONFLICT SECTIONS, AND ACTUAL FIELD CONDITIONS, ETC.
19. CONTRACTOR SHOULD AVOID PLACING SIGNS IN THE BIKE LANE.
20. WHEN APPLICABLE, CONTRACTOR SHALL PLACE C27 (CA) "OPEN TRENCH" SIGNS ON EACH END OF AN OPEN TRENCH. C27 (CA) SIGN SHALL FACE TRAFFIC TRAVELING WITHIN 15' OF THE OPEN TRENCH (I.E. DOUBLE SIDED SIGNS IN SOME CASES). PLACE C27 (CA) SIGNS IN THE TRENCH AT INTERVALS NOT TO EXCEED 2,000 FT.
21. CONTRACTOR PERFORMING THE WORK SHALL NOT LEAVE EXCAVATIONS UNATTENDED AT ANY TIME DURING CONSTRUCTION. EXCAVATIONS MUST BE LEFT PLATED OR BACKFILLED.

B.A.T.S. TRAFFIC SOLUTIONS



Sacramento
916-973-0323
dispatchsacramento@gobats.net

Fremont & Martinez
510-259-6666
dispatch@gobats.net

Fresno
559-365-2289
dispatchfresno@gobats.net

We are a Full-Service Traffic Control Company
(Flagging, Lane Closures/Shifts, Freeway/Highway).
We also offer a full Support Structure for all of your needs:

- Traffic Control Plans
- Permit Applications
- Construction Area Signs
- Special Events
- Equipment Sales & Rentals

(Even hard to find: Rumble Strips and ADA Ramps)

BEAN CREEK RD
TRAFFIC CONTROL PLANS

SCOTTS VALLEY, CALIFORNIA

B.A.T.S. TRAFFIC SOLUTIONS

CSLBB# 917034
OFFICE: 510-457-2543
FAX: 510-457-2544
44800 INDUSTRIAL DR, FREMONT, CA 94538
WWW.BATSTRAFFICSOLUTIONS.COM



DESIGNED BY
DPATEL

DATE:
5/4/23

AFTER HOURS EMERGENCY
510-259-6666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

COVER SHEET

\\OTHER\GEOCENTRIC\DRAWING\INC\BEAN CREEK RD\

\\OTHER\GEOTECHNICAL\DRAWING\IND\BEAN CREEK RD\



SYMBOLS:

- = TRAFFIC LANE CONFIGURATION
- ⊢ = TEMPORARY TRAFFIC CONTROL SIGN
- = CHANNELIZING DEVICE (SPACING PER TABLE 1 ON CALTRANS STD T9)
- * = FLASHING WARNING LIGHT (SEE GENERAL NOTE 11 ON COVER SHEET)

PROJECT NOTES:

- 1 NO PARKING. SEE GENERAL NOTE 4 ON COVER SHEET.
- 2 CONTRACTOR SHALL PROVIDE ACCESS TO LOCAL RESIDENTS/BUSINESSES AT ALL TIMES DURING CONSTRUCTION.
- 3 PLACE FLAGGER AT BEGINNING OF HORIZONTAL CURVE.



BEAN CREEK RD
TRAFFIC CONTROL PLANS

SCOTT'S VALLEY, CALIFORNIA

B.A.T.S. TRAFFIC SOLUTIONS
CILEBH 917034
OFFICE: 510-457-2543
FAX: 510-457-2544
44800 INDUSTRIAL DR, FREMONT, CA 94538
WWW.BATSTRAFFICSOLUTIONS.COM



DESIGNED BY
DPATEL

DATE
5/4/23

AFTER HOURS EMERGENCY
510-299-6666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

SHEET No. TC-01

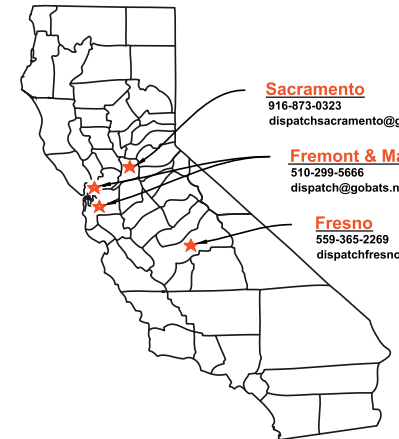


NELSON RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THE CALIFORNIA TEMPORARY TRAFFIC CONTROL HANDBOOK (CATTCH).
2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT PER THE LATEST ANSI/ISEA 107 STANDARDS. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A R1-1/W20-8 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
4. NO PARKING SIGNS SHALL BE PLACED IN ACCORDANCE TO LOCAL AGENCY REQUIREMENTS. OTHERWISE, NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
5. ANY CONFLICTING SIGNS SHALL BE COVERED FOR THE LENGTH OF THE JOB.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
7. B.A.T.S. TRAFFIC SOLUTIONS, INC. ASSUMES NO LIABILITY WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN. PLANS ARE NOT TO BE DUPLICATED OR REDISTRIBUTED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS SCOPE OF WORK WITHOUT WRITTEN CONSENT.
8. PLACE W20-1 "ROAD WORK AHEAD" SIGNS ON ALL SIDE STREETS WITHIN THE ADVANCE WARNING AREA.
9. IF PEDESTRIAN ACCESS IS RESTRICTED DURING WORK HOURS, AT LEAST ONE WORKER SHALL BE ASSIGNED WITH THE RESPONSIBILITY TO SAFELY ESCORT DISABLED, ELDERLY, AND/OR ANY OTHER PEDESTRIAN IN NEED OF ASSISTANCE. THE ASSIGNED WORKER(S) MAY ALSO PARTICIPATE IN OTHER CONSTRUCTION ACTIVITIES BUT SHALL ALWAYS BE AWARE OF HIS/HER RESPONSIBILITY TO PROVIDE THIS ASSISTANCE. PEDESTRIANS SHALL NOT BE DIRECTED NOR EXPECTED TO CROSS A ROADWAY AT ANY LOCATION OTHER THAN AT A SIGNALIZED INTERSECTION OR ALL-WAY STOP. ACCOMMODATIONS SHOULD BE MADE ON THE SAME SIDE OF THE ROADWAY AS THE WORK.
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B.A.T.S. TRAFFIC SOLUTIONS



Sacramento
916-873-0323
dispatchsacramento@gobats.net

Fremont & Martinez
510-299-5666
dispatch@gobats.net

Fresno
559-365-2269
dispatchfresno@gobats.net

We are a Full-Service Traffic Control Company
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TRAFFIC CONTROL PLANS

SCOTTS VALLEY, CALIFORNIA

B.A.T.S. TRAFFIC SOLUTIONS

CSLB# 917034
OFFICE: 510-657-2543
FAX: 510-657-2544

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WWW.BATSTRAFFICSOLUTIONS.COM



DESIGNED BY:
DPATEL

DATE:
5/8/23

AFTER HOURS EMERGENCY
510-299-5666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

COVER SHEET

(\OTHER\GEOCENTRIC DRILLING INC\NELSON RD\)



SYMBOLS:

- = TRAFFIC LANE CONFIGURATION
- ⌵ = TEMPORARY TRAFFIC CONTROL SIGN
- = CHANNELIZING DEVICE (SPACING PER TABLE 1 ON CALTRANS STD T9)
- * = FLASHING WARNING LIGHT (SEE GENERAL NOTE 11 ON COVER SHEET)

PROJECT NOTES:

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SHEET No. TC-01



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BAHR DR TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

GENERAL NOTES:

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DESIGNED BY:
KECKER
DATE: 5/17/23

AFTER HOURS EMERGENCY
510-299-5666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

COVER SHEET



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SCOTTS VALLEY, CALIFORNIA

B.A.T.S. TRAFFIC SOLUTIONS

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OFFICE 510-457-2543
FAX 510-457-2544

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WWW.BATSTRAFFICSOLUTIONS.COM



DESIGNED BY
DPATEL

DATE:
5/8/23

AFTER HOURS EMERGENCY
510-429-6666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

COVER SHEET



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NELSON RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA	B.A.T.S. TRAFFIC SOLUTIONS CILEBH 917034 OFFICE: 510-457-2543 FAX: 510-457-2544 44800 INDUSTRIAL DR, FREMONT, CA 94538 WWW.BATSTRAFFICSOLUTIONS.COM	DESIGNED BY DPATEL DATE 5/8/23	AFTER HOURS EMERGENCY 510-299-6666 TCP QUESTIONS? EMAIL: TCPORDERS@GOBATS.NET SHEET No. TC-01
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QUAIL HOLLOW RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

GENERAL NOTES:

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COVER SHEET										

\\OTHER\GEOCENTRIC\DRAWING\INC\QUAIL HOLLOW RD\

24/7 SETUP

LOVE CREEK RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

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19. CONTRACTOR SHOULD AVOID PLACING SIGNS IN THE BIKE LANE.
20. WHEN APPLICABLE, CONTRACTOR SHALL PLACE C27 (CA) "OPEN TRENCH" SIGNS ON EACH END OF AN OPEN TRENCH. C27 (CA) SIGN SHALL FACE TRAFFIC TRAVELING WITHIN 15' OF THE OPEN TRENCH (I.E. DOUBLE SIDED SIGNS IN SOME CASES). PLACE C27 (CA) SIGNS IN THE TRENCH AT INTERVALS NOT TO EXCEED 2,000 FT.
21. CONTRACTOR PERFORMING THE WORK SHALL NOT LEAVE EXCAVATIONS UNATTENDED AT ANY TIME DURING CONSTRUCTION. EXCAVATIONS MUST BE LEFT PLATED OR BACKFILLED.

B.A.T.S. TRAFFIC SOLUTIONS



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LOVE CREEK RD
TRAFFIC CONTROL PLANS

SCOTTS VALLEY, CALIFORNIA

B.A.T.S. TRAFFIC SOLUTIONS

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OFFICE: 510-657-2543
FAX: 510-657-2544

44800 INDUSTRIAL DR, FREMONT, CA 94538
WWW.BATSTRAFFICSOLUTIONS.COM



DESIGNED BY:
DPATEL

DATE:
6/8/23

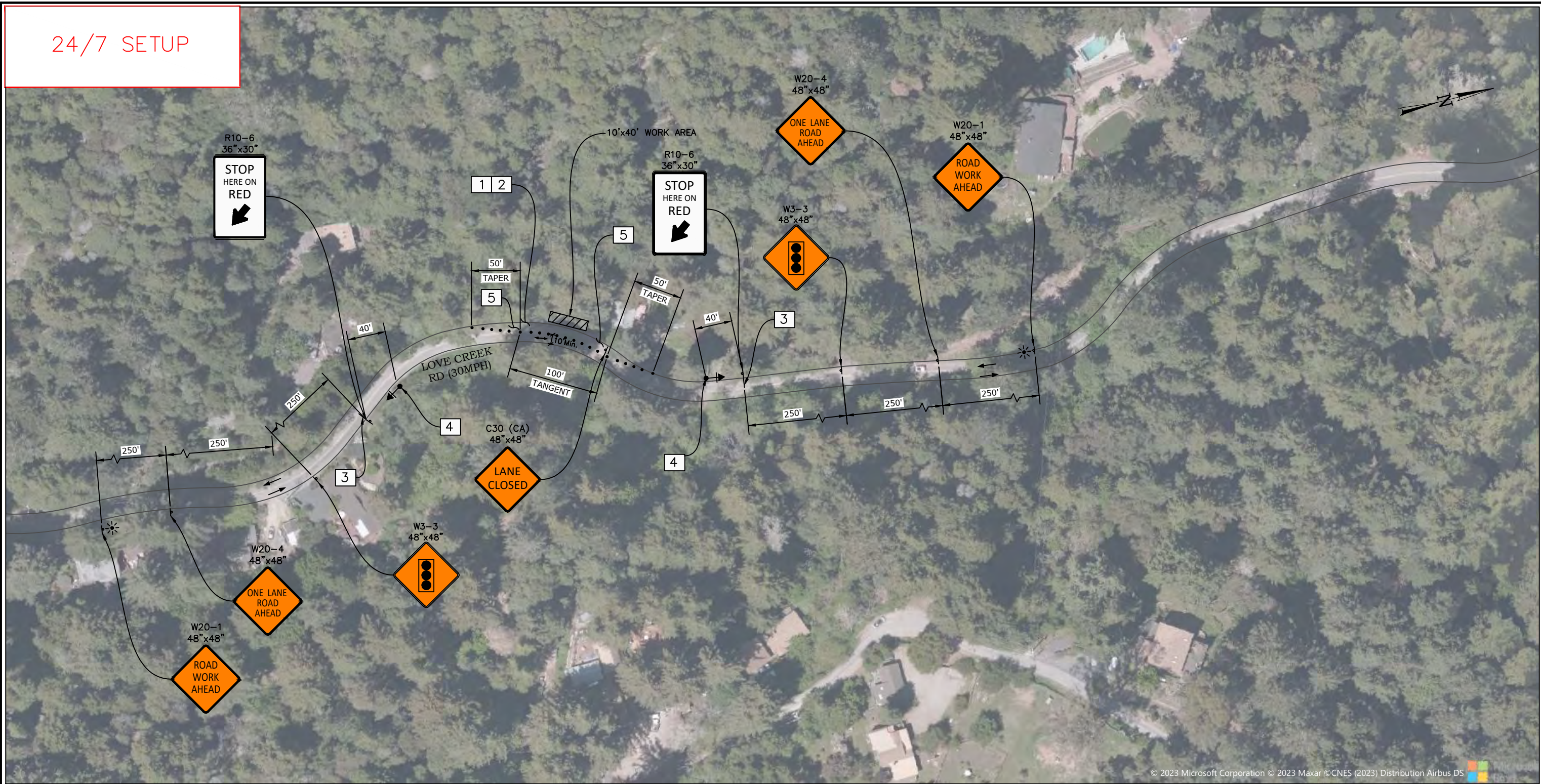
AFTER HOURS EMERGENCY
510-299-5666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET

COVER SHEET

(\\OTHER\\GEOCENTRIC DRILLING INC\\LOVE CREEK RD\\V02\\)

24/7 SETUP



SYMBOLS:

- = TRAFFIC LANE CONFIGURATION
- ⇄ = TEMPORARY TRAFFIC CONTROL SIGN
- = CHANNELIZING DEVICE (SPACING PER TABLE 1 ON CALTRANS STD T9)
- ⚡ = FLASHING WARNING LIGHT (SEE GENERAL NOTE 11 ON COVER SHEET)
- ⬅ = TRAFFIC CONTROL SIGNAL

PROJECT NOTES:

- NO PARKING. SEE GENERAL NOTE 4 ON COVER SHEET.
- CONTRACTOR SHALL PROVIDE ACCESS TO LOCAL RESIDENTS/BUSINESSES AT ALL TIMES DURING CONSTRUCTION.
- INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD A24E.
- PLACE TEMPORARY TRAFFIC CONTROL SIGNAL AT BEGINNING OF HORIZONTAL CURVE.
- INSTALL LIGHT TOWER WHEN WORK ENCKROAHES THE HOURS OF DARKNESS.

0 50 100 150

(\\OTHER\\GEOCENTRIC DRILLING INC\\LOVE CREEK RD\\V02\\)

LOVE CREEK RD
TRAFFIC CONTROL PLANS

SCOTTS VALLEY, CALIFORNIA

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DESIGNED BY:
DPATEL

DATE:
6/8/23

AFTER HOURS EMERGENCY
510-299-5666

TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET



SYMBOLS:
→ = TRAFFIC LANE CONFIGURATION
+ = TEMPORARY TRAFFIC CONTROL SIGN
• = CHANNELIZING DEVICE (SPACING PER TABLE 1 ON CALTRANS STD T9)
* = FLASHING WARNING LIGHT (SEE GENERAL NOTE 11 ON COVER SHEET)

PROJECT NOTES:
1 NO PARKING. SEE GENERAL NOTE 4 ON COVER SHEET.

QUAIL HOLLOW RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA	B.A.T.S. TRAFFIC SOLUTIONS CALL 917034 OFFICE 510-453-2543 FAX 510-453-2544 44800 INDUSTRIAL DR, FREMONT, CA 94538 WWW.BATSTRAFFICSOLUTIONS.COM	DESIGNED BY DPATEL DATE 5/4/23	AFTER HOURS EMERGENCY 510-299-6666 TCP QUESTIONS? EMAIL: TCPORDERS@GOBATSL.NET SHEET No. TC-01
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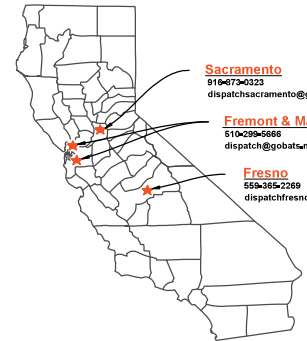


LOVE CREEK RD TRAFFIC CONTROL PLANS SCOTTS VALLEY, CALIFORNIA

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THE CALIFORNIA TEMPORARY TRAFFIC CONTROL HANDBOOK (CATTCH).
2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT PER THE LATEST ANSI/ISEA 107 STANDARDS. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A R1-1/W20-8 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
4. NO PARKING SIGNS SHALL BE PLACED IN ACCORDANCE TO LOCAL AGENCY REQUIREMENTS. OTHERWISE, NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
5. ANY CONFLICTING SIGNS SHALL BE COVERED FOR THE LENGTH OF THE JOB.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
7. B.A.T.S. TRAFFIC SOLUTIONS, INC. ASSUMES NO LIABILITY WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN. PLANS ARE NOT TO BE DUPLICATED OR REDISTRIBUTED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS SCOPE OF WORK WITHOUT WRITTEN CONSENT.
8. PLACE W20-1 "ROAD WORK AHEAD" SIGNS ON ALL SIDE STREETS WITHIN THE ADVANCE WARNING AREA.
9. IF PEDESTRIAN ACCESS IS RESTRICTED DURING WORK HOURS, AT LEAST ONE WORKER SHALL BE ASSIGNED WITH THE RESPONSIBILITY TO SAFELY ESCORT DISABLED, ELDERLY, AND/OR ANY OTHER PEDESTRIAN IN NEED OF ASSISTANCE. THE ASSIGNED WORKER(S) MAY ALSO PARTICIPATE IN OTHER CONSTRUCTION ACTIVITIES BUT SHALL ALWAYS BE AWARE OF HIS/HER RESPONSIBILITY TO PROVIDE THIS ASSISTANCE. PEDESTRIANS SHALL NOT BE DIRECTED NOR EXPECTED TO CROSS A ROADWAY AT ANY LOCATION OTHER THAN AT A SIGNALIZED INTERSECTION OR ALL-WAY STOP. ACCOMMODATIONS SHOULD BE MADE ON THE SAME SIDE OF THE ROADWAY AS THE WORK.
10. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH A HIGH-LEVEL WARNING DEVICE (FLAG TREE).
11. TYPE A OR TYPE B FLASHING WARNING LIGHTS SHALL BE USED, AS SHOWN ON THE PLAN, WHEN WORK IS AT NIGHT OR ENDOACHES THE HOURS OF DARKNESS. TYPE B FLASHING WARNING LIGHTS SHALL BE USED, AS SHOWN ON THE PLAN, WHEN WORK IS 24/7 SETUP.
12. LIGHT TOWERS SHALL BE USED AT FLAGGER STATIONS AND WORK AREAS WHEN WORK IS AT NIGHT OR ENDOACHES THE HOURS OF DARKNESS. HIGHWAY CONSTRUCTION WORK LIGHTING SHALL BE PER CALIFORNIA CODE OF REGULATIONS CONSTRUCTION SAFETY ORDER 1523 (TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 4, ARTICLE 3, SECTION 1523).
13. WHEN APPLICABLE, PLACE A MINIMUM OF FOUR CONES AT 50FT INTERVALS IN ADVANCE OF FLAGGER STATION.
14. WHEN APPLICABLE, PLACE SHOULDER TAPER IN ADVANCE OF PCMS BOARD. SEE TABLE 1 ON CALTRANS STD T9 FOR SHOULDER TAPER LENGTH.
15. NOTHING ALLOWED IN BUFFER OR TRANSITION AREAS UNLESS OTHERWISE SHOWN ON THE PLAN.
16. CONTRACTOR SHALL PLATE OR BACKFILL EXCAVATED AREA DURING NON-WORKING HOURS.
17. PLAN IS ACCURATE FOR TRAFFIC CONTROL WORK ONLY. EXCAVATION LOCATION IS APPROXIMATE AND FOR REFERENCE ONLY.
18. CONES SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT NUMBER OF CONES REQUIRED SHALL BE BASED ON THE POSTED SPEED, TANGENT LENGTHS, TAPER LENGTHS, CONFLICT SECTIONS, AND ACTUAL FIELD CONDITIONS, ETC.
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DESIGNED BY
DPATEL
DATE:
5/8/23

AFTER HOURS EMERGENCY
510-259-6666
TCP QUESTIONS?
EMAIL: TCPORDERS@GOBATS.NET
COVER SHEET

LOVE CREEK RD
SCOTTS VALLEY, CALIFORNIA



Location: Santa Margarita Basin
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

Driller: TBD
Method: TBD

WELL DIAGRAM

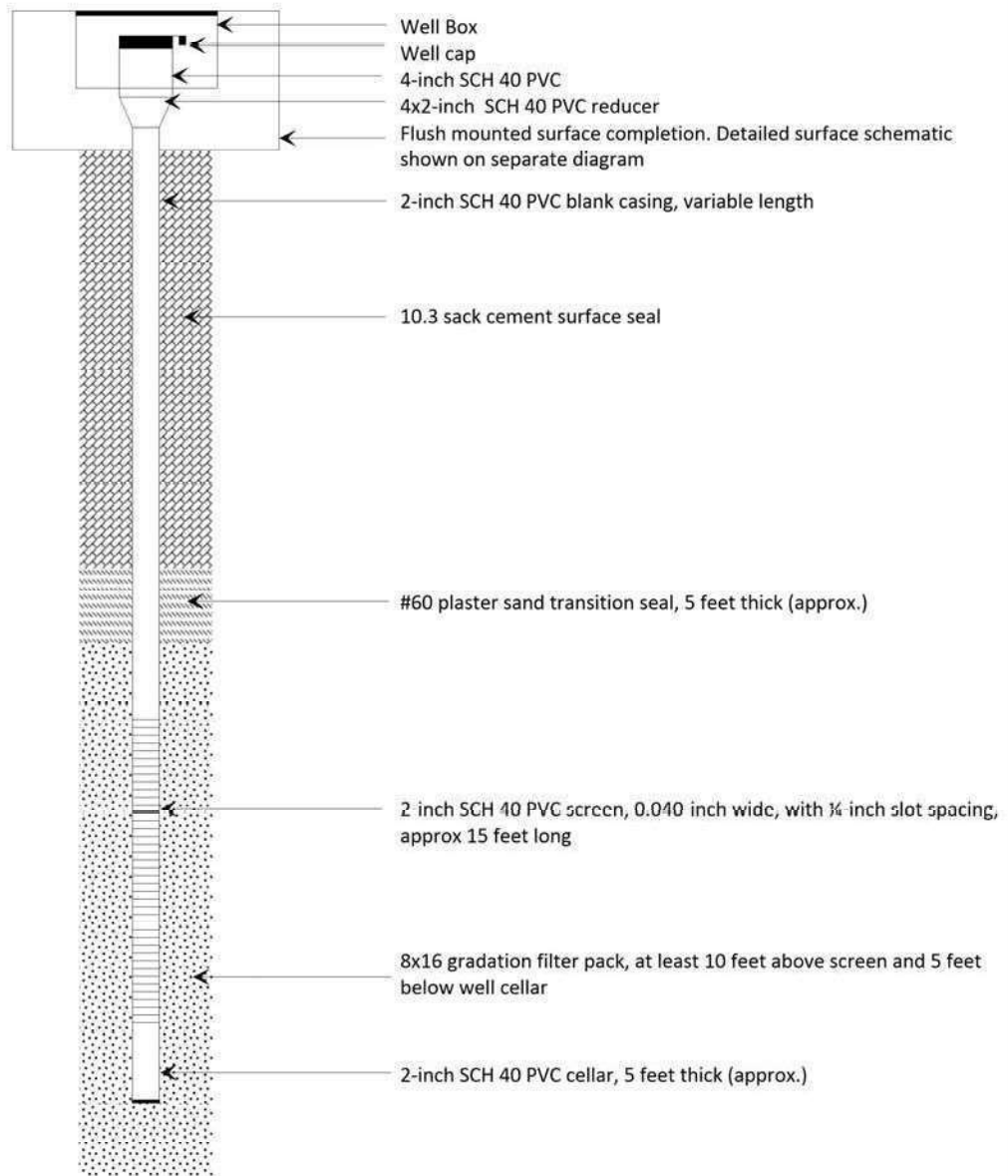


Figure 10. SMGWA Shallow Monitoring Well Schematic

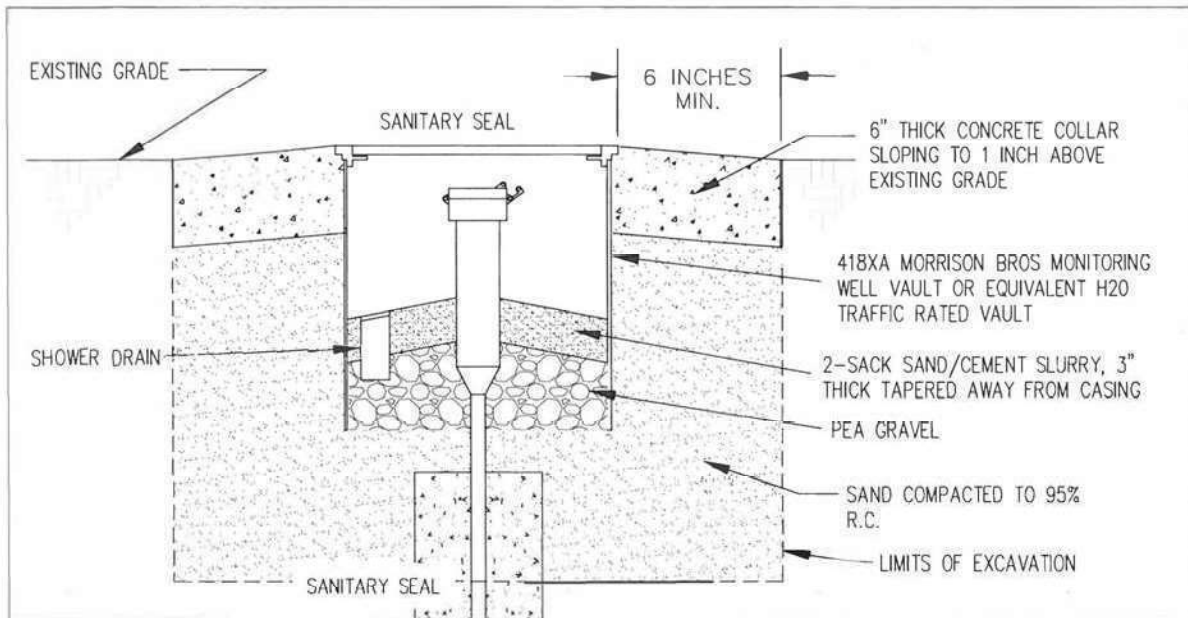


Figure 12A. Typical Monitoring Wellhead Completion Detail

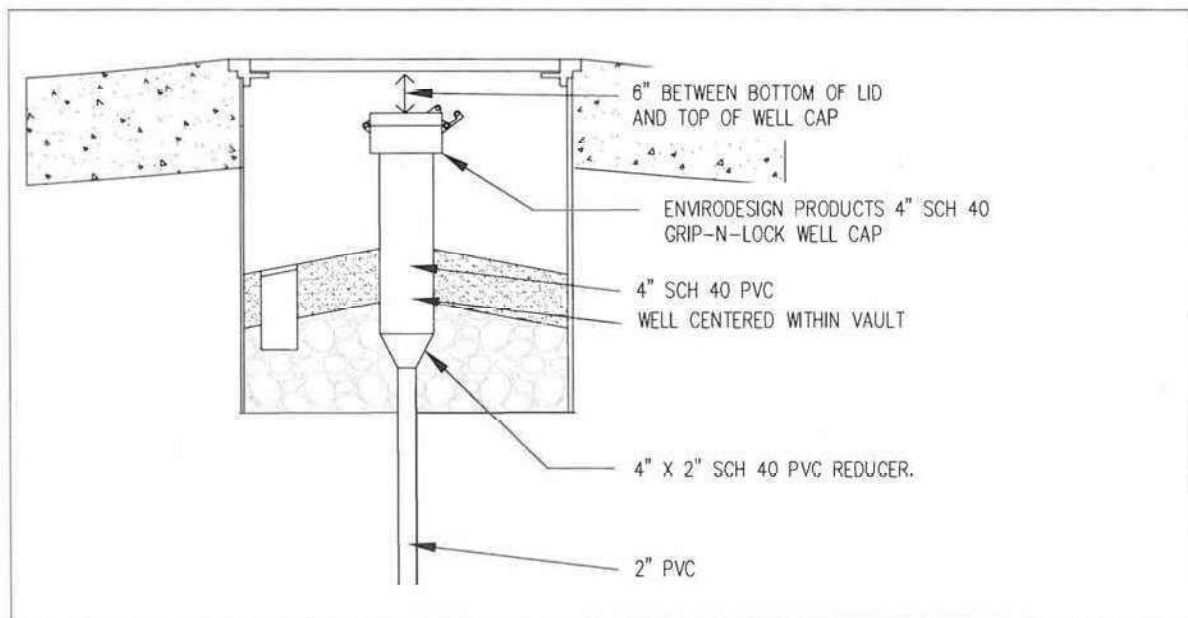
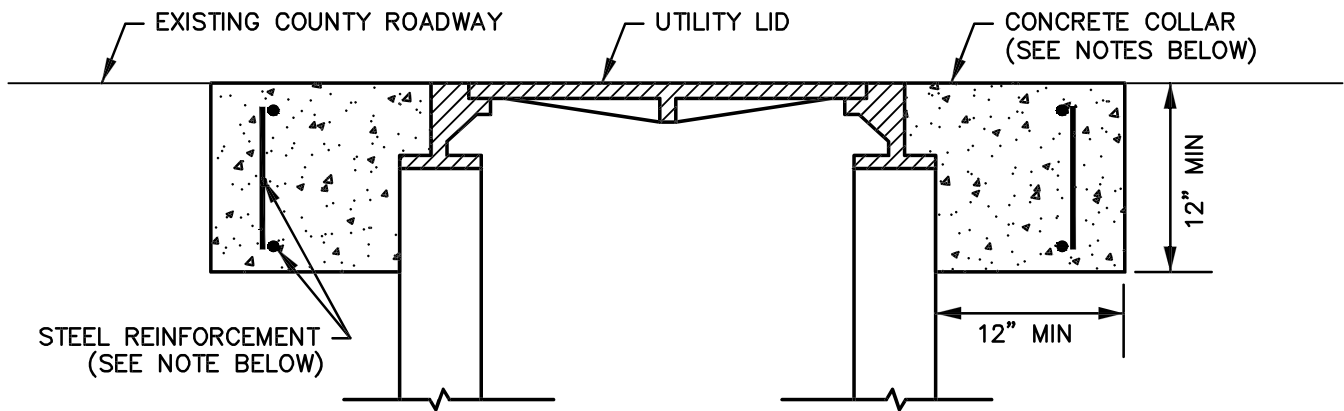


Figure 12B. Wellhead Material and Spacing

Santa Cruz County Design Criteria

Wellhead Completion for SMGWA-5 in Bahr Drive



NOTES:

1. THIS DETAIL SHALL APPLY TO MANHOLES, VAULTS, VALVE BOXES, MONUMENT WELLS, OR ANY OTHER UTILITY LID STRUCTURES LOCATED WITHIN COUNTY MAINTAINED ROADWAYS. EXCEPTIONS MUST BE APPROVED BY THE COUNTY.
2. CONCRETE COLLAR SHALL BE ROUND FOR CIRCULAR UTILITY LIDS AND RECTANGULAR FOR RECTANGULAR LIDS.
3. CONCRETE COLLAR SHALL EXTEND TO BE FLUSH WITH ADJACENT ROADWAY SURFACE, NO ASPHALT SHALL BE PLACED OVER TOP.
4. CONCRETE SHALL USE TYPE III HIGH-EARLY STRENGTH CEMENT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI.
5. BROADCAST 1 LB OF LAMPBLACK PIGMENT ON CONCRETE SURFACE DURING CURE TO ACHIEVE DARKENED APPEARANCE.
6. CONCRETE COLLAR SHALL BE PROTECTED FROM TRAFFIC USING TRENCH PLATES OR OTHER ACCEPTABLE MEANS. CONCRETE SHALL NOT BE REOPENED TO TRAFFIC UNTIL A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI HAS BEEN ACHIEVED.
7. CONCRETE SHALL BE REINFORCED HORIZONTALLY WITH #4 REBAR HOOP AROUND GRADE RING AT TOP & BOTTOM, AND VERTICALLY WITH #4 REBAR TIES SPACED AT 12". REBAR SHALL BE KEPT A MINIMUM OF 2" CLEAR FROM ALL EDGES.

UTILITY LID PAVING



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060
(831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123
KATHLEEN MOLLOY, PLANNING DIRECTOR

Certificate of Inclusion to Participate in the IPHCP

The United States Fish and Wildlife Service (Service) has issued incidental take permits (Permits) pursuant to the Federal Endangered Species Act authorizing take (50 Code of Federal Regulations 17.3) of the Mount Hermon June beetle in accordance with the terms and conditions of the Permits, the Sandhills Interim-Programmatic Habitat Conservation Plan (IPHCP), and the associated Implementing Agreement. Under the Permits, certain activities by San Lorenzo Valley Water District (owner/agent) are authorized to take the Mount Hermon June beetle, provided all applicable terms and conditions of the Permits, the IPHCP, and the associated Implementing Agreement are met.

As the owner/operator of the property depicted on Exhibit "1," attached hereto and incorporated herein by this reference, you are entitled to the protection by the County of Santa Cruz for the proposed activities as set forth in Exhibit "2," with respect to any take of the Mount Hermon June beetle as identified in the IPHCP. In the event that you use the property depicted on Exhibit "1" for other purposes without the express written consent of the Service, take authorization under the Permits will automatically cease. Such authorization is provided as described in the Permits, the IPHCP, and the Implementing Agreement. By signing this Certificate of Inclusion, you signify your election to receive Take Authorization under the County of Santa Cruz Take Permit in accordance with the terms and conditions thereof. This Certificate of Inclusion does not give Federal agencies additional regulatory control over the signatory nor require the signatory to provide additional information not called for in the Certificate of Inclusion, but instead ensures compliance with 50 Code of Federal Regulations, section 13.25(d). Coverage under the Permit will become effective upon receipt of the executed Certificate of Inclusion by the County of Santa Cruz. In the event that the subject property is sold or leased, the buyer or lessee must be informed of these provisions and execute a new Certificate of Inclusion.

Richard M. Rogers

Name

Richard M. Rogers

Signature

13060 Highway 9, Boulder Creek, CA 95006

Address

831-338-2153

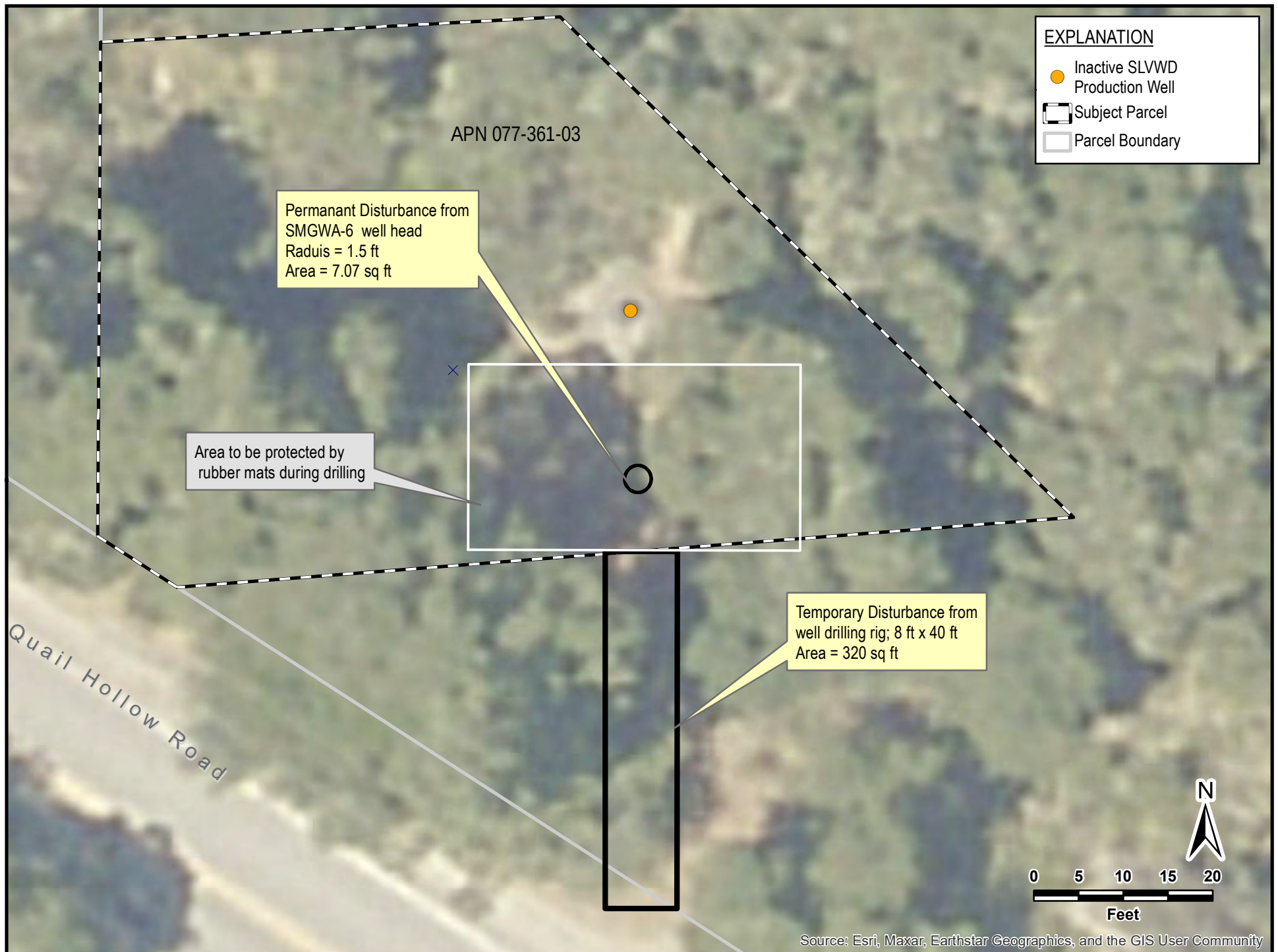
Phone

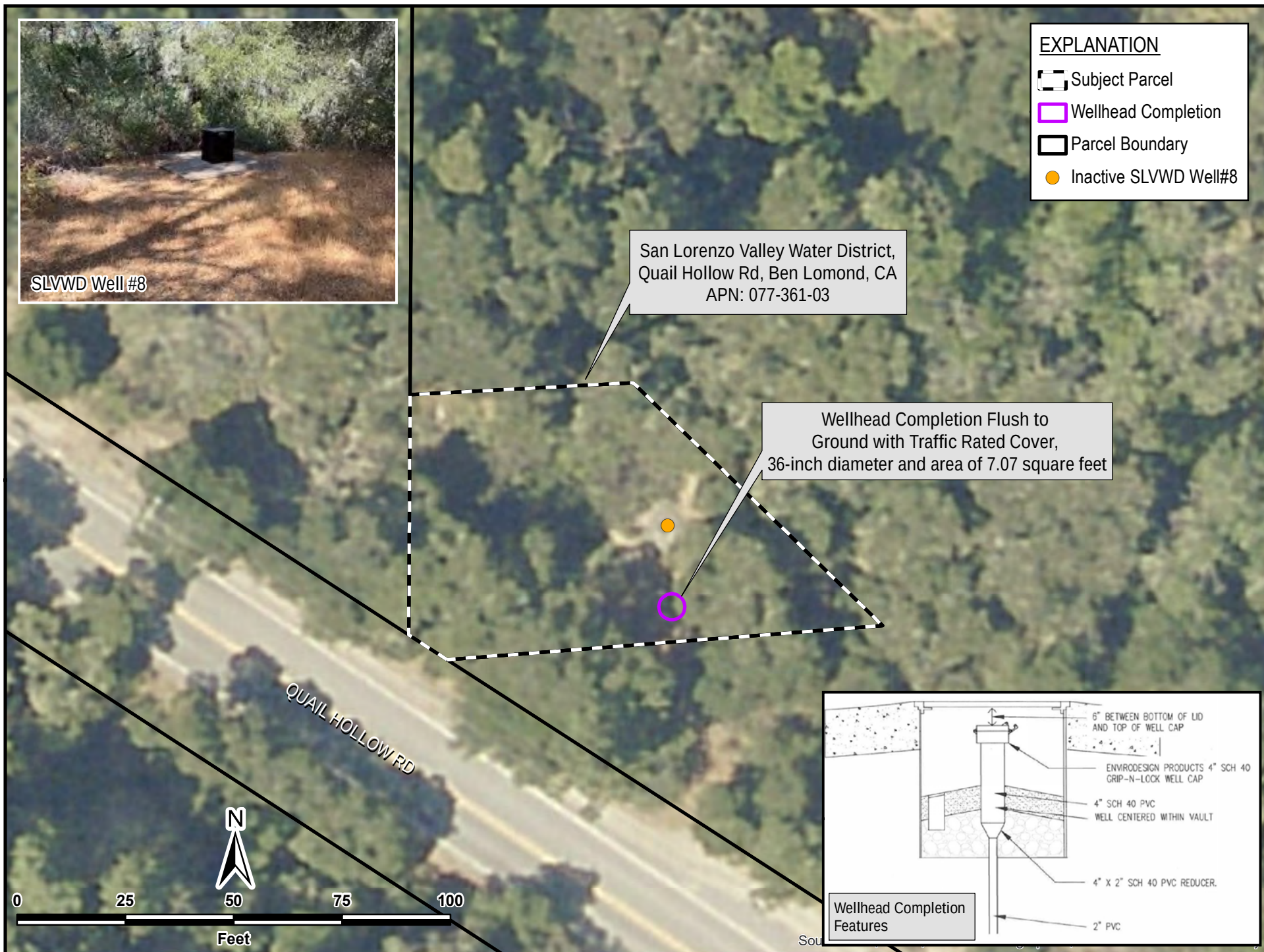
Santa Cruz County

City or County Representative

Exhibit 1: Sheet 1 prepared by Santa Margarita Groundwater Agency representatives dated April 28, 2023.

Exhibit 2: Sheet 1 prepared by Santa Margarita Groundwater Agency representatives dated April 28, 2023.





RECORDED AT REQUEST OF:
County of Santa Cruz

WHEN RECORDED MAIL TO:
Logan Thompson
Santa Cruz County Planning
701 Ocean St.
Santa Cruz, CA 95060



2023-0010421 06/13/2023 08:49:56 AM
OFFICIAL RECORDS OF Santa Cruz County
Sheri Thomas Recorder
RECORDING FEE: \$26.00
COUNTY TAX: \$0.00
CITY TAX: \$0.00



(Space above this line for Recorder's use only)

DECLARATION OF RESTRICTION REGARDING SANDHILLS HABITAT

This declaration is made in the County of Santa Cruz, State of California, effective April 28th, 2023, by the San Lorenzo Valley Water District owner(s) of real property described in Exhibit "A" attached hereto and incorporated herein by reference, also known as Assessor's Parcel Number(s) 077-361-03 (hereinafter "subject property"), who hereby declare(s) that all of the property described below shall be held, transferred, sold, and conveyed subject to the following restrictions and conditions, which are for the purpose of compliance with the County Code of the County of Santa Cruz, and which shall run with the title to the property and be binding on all parties having any right, title or interest in the property or any part thereof, their heirs, assigns, and any other transferees and successors and shall apply to each owner thereafter.

RECITALS

WHEREAS, Declarants have proposed to an addition of a new monitoring well (hereafter referred to as the "project") as described in Exhibit B attached hereto and incorporated herein by reference;

WHEREAS, the Sensitive Habitat Protection Ordinance of the County of Santa Cruz (Chapter 16.32 of the County Code, hereinafter "the Ordinance") requires that any development approved by the County of Santa Cruz (hereinafter the "County") shall mitigate significant environmental impacts;

WHEREAS, the County has found that the portion(s) of the subject property are sensitive habitat as defined in Chapter 16.32 of the County Code in that the project is located within the Sandhills;

WHEREAS, Grantors have made application for a permit to develop on project site (hereinafter "said permit"), and such development, if inappropriately sited, designed or utilized could have a significant adverse impact in the sensitive habitat described above;

WHEREAS, The County has found that to issue an approval or permit consistent with said Sensitive Habitat Protection Ordinance the County must be assured that the development will be sited, designed and utilized so as to not significantly adversely impact the sensitive habitat;

WHEREAS, the County has found that the restrictions enumerated hereinafter will confine the development to a limited area, prevent expansion of the development, and

otherwise constrain the development, and will thus adequately mitigate the adverse impacts set forth above; and

WHEREAS, it is intended that the restrictions contained herein shall be and shall continue to be, to the end of the term of said restrictions, enforceable restrictions within the meaning of Article XIII, Section 8 of the California Constitution and that said revisions shall thereby qualify as an enforceable restriction under the provisions of the California revenue and Taxation Code Section 402.1.

RESTRICTIONS

NOW THEREFORE, in consideration of the mutual benefits and covenants hereby acknowledged by the parties and the substantial public benefits for the protection of the sensitive habitat, Declarant(s) hereby declare(s) that they are subject to the following restrictions and conditions.

1. **USE OF PARCEL**. Development as defined in Chapter 16.32 of the County Code (including, without limitation, removal of trees and other vegetation, grading, paving, installation of structures such as signs, buildings, or other structures of similar impact) shall be subject to the following restrictions:
 - a. Total site disturbance shall not exceed that area identified on Exhibit 'B' for which conservation credits or other mitigation has been accepted. To date credits have been purchased for 327 square feet of total disturbance.
 - b. Total cumulative site disturbance shall not exceed 15,000 square feet¹
 - c. Ground disturbing activities (e.g. vegetation clearing, grading, digging etc.) shall be minimized during the growing season of the Ben Lomond spineflower and adult flight period of the Mount Hermon June Beetle (May 15-Aug15).
 - d. Removal of native Sandhills plant species shall be minimized. Revegetation of disturbed areas shall be with native Sandhills plant species that are locally derived, if possible.
 - e. Landscaping shall exclude the use of turf grass, weed matting, aggregate and mulch.
 - f. During construction, night lighting shall be minimized during the flight season of the Mount Hermon June Beetle (May 15-Aug 15).
 - g. During construction, areas that have been recently disturbed by the development project shall be covered every evening (during May15-Aug15) with tarps, landscape fabric or other similar material.
 - h. Permanent outdoor lighting shall be minimized and shall be shielded by fixture design or other means to minimize illumination of surrounding areas. Light sources that do not attract insects (e.g. yellow or sodium vapor bulbs) shall be used if outdoor lighting is necessary (e.g. security or handicap access structures).

¹ Parcels that are allowed less than 15,000 square feet of site disturbance are thus restricted because of a residential land division, which resulted in the 15,000 square feet being divided between the newly created lots.

2. **TERM.** This Declaration of Restrictions shall be in effect for a period beginning on the effective date stated above and continuing for the life of the development approved by said approval and/or permit, and so long as any development rights whatsoever remain or are claimed under said approval and/or permit.
3. **RECORDATION OF DOCUMENTS.** This Declaration of Restrictions shall be duly recorded on the Office of the Recorder for the County of Santa Cruz. In the event that under the terms and conditions of this document, or any subsequent mutual written agreement, these restrictions are terminated with respect to all or any part of the subject property, the County shall, upon written request, execute and record with the Recorder of the County of Santa Cruz any documents necessary to evidence such termination.
4. **SUCCESSORS IN INTEREST.** This declaration of Restrictions shall be appurtenant to the land described herein, for the term described herein, and all obligation hereby imposed shall be deemed to be covenants and restrictions running with the land, and shall bind any person having at any time any interest or estate in the subject property and as such shall be binding upon and inure to the benefit of all successors, transferees and assigns of the Declarants.
5. **CONSTRUCTION OF VALIDITY/SEVERABILITY.** If any provisions of these restrictions shall be held to be invalid, or for any reason become unenforceable no other provision shall be thereby affected or impaired, but rather shall be deemed severable.
6. **ENFORCEMENT OF DECLARATION.** Any conveyance, contract, or authorization (whether written or oral) by the Declarants or their successors on interest which would permit use of the subject property contrary to the term of this Declaration of Restrictions shall be deemed a breach of this Declaration. County or its successors may bring any action by administrative or judicial proceeding when County deems necessary of convenient to enforce this Declaration of Restrictions including, but not limited to, an action to enforce the Declaration. Grantors understand and agree that the enforcement proceedings provided in this paragraph are not exclusive and that County may pursue any appropriate legal and equitable remedies.

DECLARATION OF RESTRICTIONS

This Declaration shall run with the land and shall be binding upon the undersigned, any future owners, encumbrances, their successors, heirs or assignees. This document should be disclosed to the foregoing individuals. This Declaration may not be altered or removed from the records of the County Recorder without the prior consent of the Planning Director of the County of Santa Cruz.

IN WITNESS WHEREOF, Declarants have executed this Declaration of Restrictions on the

12th day of June, 2023.

Richard M. Rogers

Declarant

Richard M. Rogers, General Manager, San Lorenzo Valley Water District

Declarant

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Santa Cruz

On June 12, 2023, before me, Holly B. Hossack, Notary Public, personally appeared Richard M. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Holly B. Hossack
Signature

(Seal)

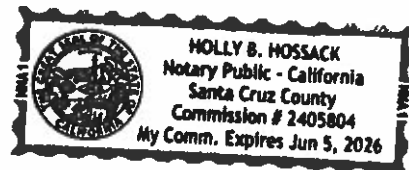


EXHIBIT "A"

All that real property situated in the County of Santa Cruz, State of California, conveyed from San Lorenzo Valley Water District to San Lorenzo Valley Water District by deed recorded on Document number 110825, Santa Cruz County. Official Records on 7/4/1776. Assessor's Parcel No. 077-361-03.

Exhibit "B"

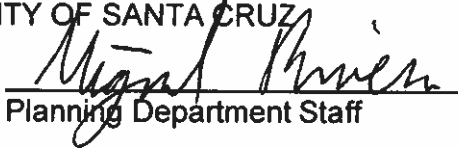
Project includes an addition of a new monitoring well.

This form must be reviewed and approved by a County Planning Department staff person after notarization and prior to recordation.

Dated: 6/13/23

COUNTY OF SANTA CRUZ

By:


Planning Department Staff

TEMPORARY CONSTRUCTION EASEMENT

THIS TEMPORARY CONSTRUCTION EASEMENT ("**Agreement**") is made and entered into on the 24 day of May, 2022 by and between the Scotts Valley Unified School District ("**Grantor**") and the Santa Margarita Groundwater Agency, a joint powers agency formed pursuant to California's Sustainable Groundwater Management Act ("**Grantee**"). Grantor and Grantee are referred to herein individually as a "**Party**" and collectively as the "**Parties**".

RECITALS

A. Grantor owns the property commonly known as APN 023-101-02 depicted on **Exhibit "A"** attached hereto ("**Property**").

B. Grantee desires to construct a groundwater monitoring well on a portion of the Property at Grantee's sole expense. It is anticipated that the construction of the monitoring well, including drilling and installation of the well and its component parts, will take no more than ninety (90) days from the Grantee's issuance of a Notice to Proceed with construction of the monitoring well. Grantor has agreed to grant this Temporary Construction Easement to Grantee to allow a groundwater monitoring well to be constructed on a portion of the Property, subject to the terms and conditions set forth herein.

C. Upon completion of construction, the groundwater monitoring well will be transferred by Grantee to the Scotts Valley Water District ("**SVWD**"), who will assume responsibility for ownership, operation and maintenance of the groundwater monitoring well at SVWD's sole expense. Through a separate easement agreement, Grantor has agreed to grant a permanent easement to the SVWD for the purposes of operation and maintenance of the groundwater monitoring well.

NOW, THEREFORE, the Parties agree as follows:

1. Grantor hereby grants to Grantee a temporary construction easement for purposes of constructing a groundwater monitoring well at Grantee's sole cost and expense. The temporary construction easement is located on a portion of the Property depicted on **Exhibit "B"**. The temporary construction easement is granted to Grantee for a period not to exceed ninety (90) days after Grantee's issuance of a Notice to Proceed with construction of the groundwater monitoring well.

2. Prior to the commencement of construction within the easement area, (1) Grantee shall provide Grantor with plans, specifications and/or the proposed scope of work and (2) Grantor shall promptly approve the plans, specifications and/or scope of work and may impose reasonable conditions of approval, including limiting the time frame within which the work may be performed. Construction work, once commenced, shall be diligently pursued until completion and costs for labor and materials shall be paid in a timely and proper manner.

3. The groundwater monitoring well shall be constructed by a licensed contractor. Prior to commencement of construction, Grantee shall cause its contractor(s) to provide 1) Workers Compensation insurance; and 2) General Liability insurance with limits of at least \$1,000,000, which shall name Grantor, its officers, directors, employees or agents as additional insureds by separate endorsement; and 3) Grantee's contractor(s) shall comply with fingerprinting certification requirements set forth in Education Code Section 45125.2.

4. To construct said monitoring well, Grantee and its contractor(s) shall have to access the monitoring well site with drilling and other equipment to construct the groundwater monitoring well. Access to the groundwater monitoring well site will have to accommodate a drilling rig and accompanying pieces of equipment.

5. During the period of construction, Grantee agrees to cause its contractors to keep the construction site in a good and safe condition, to adequately secure the site against unauthorized persons, and indemnify and hold harmless the Grantor, its agents and employees against any damage or injury caused by Grantee, its contractors or agents, or the failure of Grantee, its contractor(s) or agents to adequately secure the site.

6. Upon completion of construction,

(a) Grantee shall cause its contractor(s) to remove all equipment and other debris and restore the site back to its previous condition, except for the well site surface cap which will be adequately marked and secured; and

(b) Grantee will transfer ownership of the groundwater monitoring well to SVWD.

7. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument. For purposes of this Agreement, a signature through an electronic medium shall have the same force and effect as an original signature.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year first above written.

GRANTOR

Scotts Valley Unified School District

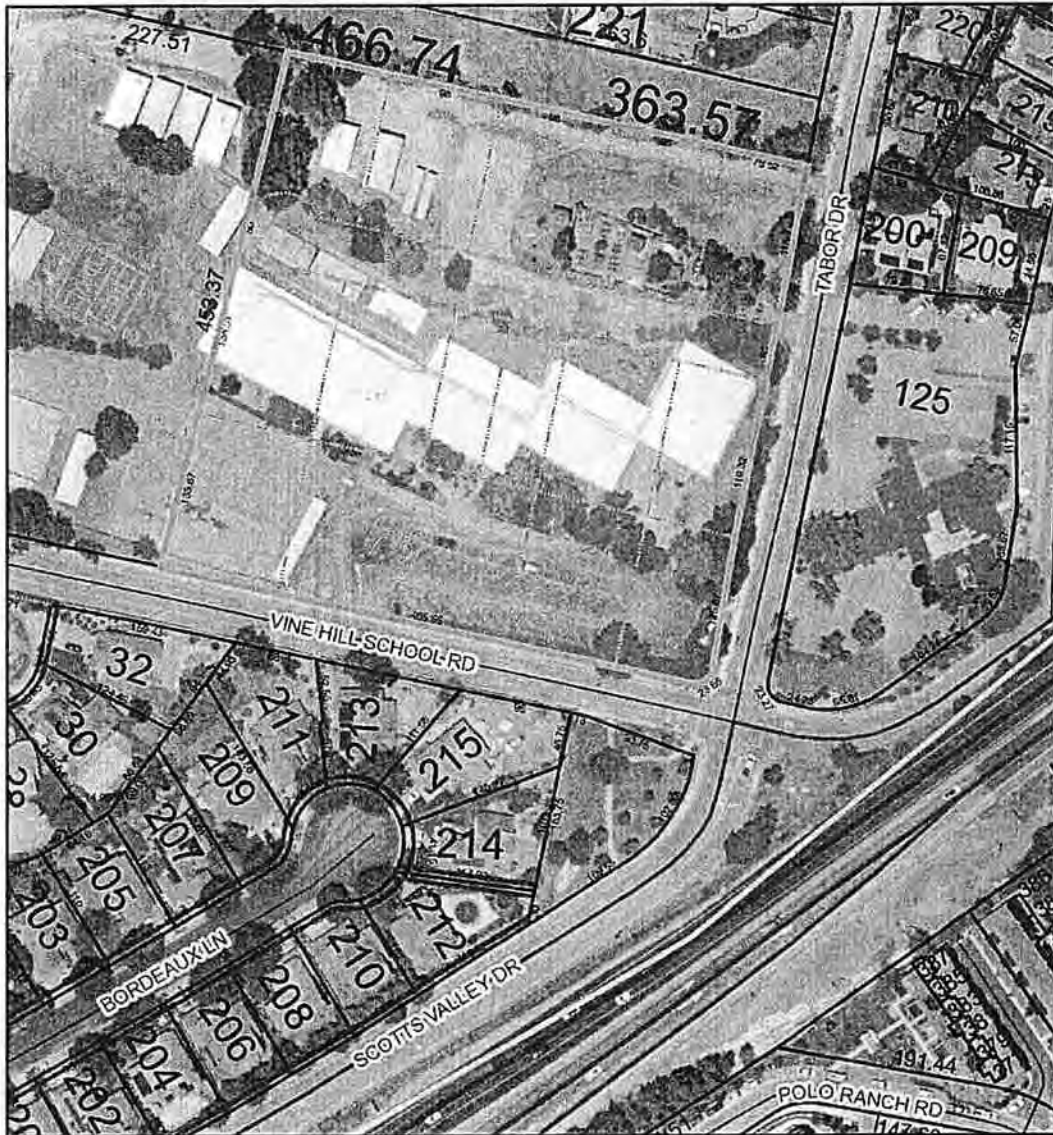
By: Tanya Krause
Name: Tanya Krause
Superintendent
Scotts Valley Unified School District

GRANTEE

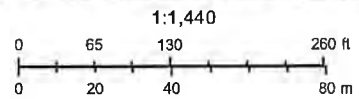
Santa Margarita Groundwater Agency

By: Piret Harmon
Name: Piret Harmon
Authorized Representative
Santa Margarita Groundwater Agency

Exhibit A: APN 02310102



May 10, 2022



County of Santa Cruz

Exhibit "B"
Location of Temporary Construction Easement



TEMPORARY ACCESS AGREEMENT

THIS TEMPORARY ACCESS AGREEMENT (“**Agreement**”) is made and entered into on the 19th day of June, 2023 by and between the San Lorenzo Valley Water District (“**SLVWD**”) and the Santa Margarita Groundwater Agency, a joint powers agency formed pursuant to California’s Sustainable Groundwater Management Act (“**SMGWA**”). SLVWD and SMGWA are referred to herein individually as a “**Party**” and collectively as the “**Parties**”.

RECITALS

A. SLVWD owns the property commonly known as APN 077-361-03 depicted on **Exhibit “A”** attached hereto (“**Property**”).

B. SMGWA desires to construct a groundwater monitoring well on a portion of the Property with funds received, in part or in whole, from the 2017 Proposition 1 Sustainable Groundwater Planning (SGWP Grant; Agreement # 4600012697) (“**Grant Agreement**”). It is anticipated that the construction of the monitoring well, including drilling and installation of the well and its component parts, will take no more than ninety (90) days from SMGWA’s issuance of a Notice to Proceed with construction of the monitoring well.

C. SLVWD has agreed to allow a groundwater monitoring well to be constructed on a portion of the Property by SMGWA, subject to the terms and conditions set forth herein.

D. Upon recordation of the Notice of Completion construction, the groundwater monitoring well shall be automatically transferred by SMGWA to SLVWD as provided in this Agreement.

NOW, THEREFORE, the Parties agree as follows:

1. SLVWD hereby grants a temporary construction license (“**License**”) to SMGWA described and depicted on Exhibit “B” (“**License Area**”). The License is for the construction of a groundwater monitoring well and related appurtenances over, across, along, upon and through the License Area by SMGWA with funds received, in part or in whole, from the Grant Agreement. The License granted herein includes the right of ingress/egress thereto for personnel and equipment necessary and required for such uses and purposes.

2. The License shall be irrevocable by SLVWD upon issuance of the Notice Inviting Bids for construction of the monitoring well. The License shall automatically expire and shall be deemed revoked ninety (90) days after SMGWA’s issuance of a Notice to Proceed with construction of the groundwater monitoring well, unless the term of the License is extended by SLVWD’s General Manager.

3. Prior to the commencement of construction within the License Area, (1) SMGWA shall provide SLVWD with plans, specifications and/or the proposed scope of work and (2)

SLVWD shall promptly approve the plans, specifications and/or scope of work and may impose reasonable conditions of approval, including limiting the time frame within which the work may be performed. Construction work, once commenced, shall be diligently pursued until completion and costs for labor and materials shall be paid in a timely and proper manner by SMGWA.

4. The groundwater monitoring well shall be constructed by a licensed contractor. Prior to commencement of construction, SMGWA shall cause its contractor(s) to provide 1) workers compensation insurance; and 2) General Liability insurance with limits of at least \$1,000,000, which shall name SLVWD, its officers, directors, employees or agents as additional insureds by separate endorsement.

5. During the period of construction, SMGWA agrees to cause its contractors to keep the construction site in a good and safe condition and hold harmless SLVWD, its agents and employees against any damage or injury caused by SMGWA, its contractors or agents, including without limitation any damage or injury arising from hazardous waste or other hazardous substances caused by the construction.

6. Upon completion of construction, SMGWA shall cause its contractor(s) to restore the site back to its previous condition including, without limitation, removal of any hazardous waste or other hazardous substances caused by the construction, and to remove all equipment and other debris, except for the well site surface cap which will be adequately marked and secured; and

7. The groundwater monitoring well shall be automatically transferred by SMGWA to SLVWD upon recordation of the Notice of Completion of the groundwater monitoring well, at which time SLVWD shall assume responsibility for ownership, operation and maintenance of the groundwater monitoring well as required by the Grant Agreement for the duration required by the Grant Agreement, at SLVWD's sole expense.

8. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument. For purposes of this Agreement, a signature through an electronic medium shall have the same force and effect as an original signature.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year first above written.

SLVWD

SMGWA

San Lorenzo Valley Water District

Santa Margarita Groundwater Agency

DocuSigned by:

By: 4A9A18D63C4C482...
Name: Rick Rogers
Its: General Manager

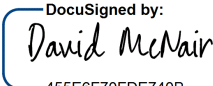
DocuSigned by:

By: 455E6F70FDE740B...
Name: David McNair
Authorized Representative
Santa Margarita Groundwater Agency

Exhibit "A"



Path: H:\Santa_Margarita_Basin\9060.16_MonNetworkEnhancement\GIS\Tech_Spech_Figures\Access_Agreement_Figs\Exhibit A - SMGWA-6.aprx

TEMPORARY CONSTRUCTION EASEMENT

THIS TEMPORARY CONSTRUCTION EASEMENT (“**Agreement**”) is made and entered into on the 22nd day of May, 2023, by and between the Land Trust of Santa Cruz County (“**Grantor**”) and the Santa Margarita Groundwater Agency, a joint powers agency formed pursuant to California’s Sustainable Groundwater Management Act (“**Grantee**”). Grantor and Grantee are referred to herein individually as a “**Party**” and collectively as the “**Parties**”.

RECITALS

A. Grantor owns the property commonly known as APN 070-261-56 and 070-261-58 depicted on **Exhibit “A-1”** and “**A-2**” attached hereto (“**Property**”).

B. Grantee desires to construct a groundwater monitoring well on a portion of the Property at Grantee’s sole expense. It is anticipated that the construction of the monitoring well, including drilling and installation of the well and its component parts, will take no more than ninety (90) days from the Grantee’s issuance of a Notice to Proceed with construction of the monitoring well. Grantor has agreed to grant this Temporary Construction Easement to Grantee to allow a groundwater monitoring well to be constructed on a portion of the Property, subject to the terms and conditions set forth herein.

C. Upon completion of construction, the groundwater monitoring well will be transferred by Grantee to Santa Cruz County (“**County**”), who will assume responsibility for ownership, operation and maintenance of the groundwater monitoring well at the County’s sole expense. Through a separate easement agreement, Grantor has agreed to grant a permanent easement to the County for the purposes of operation and maintenance of the groundwater monitoring well.

D. The Parties acknowledge that the Grantor’s provision of this Easement serves the public interest. In particular, the public will benefit from this easement as it enables groundwater monitoring and reporting activities that support the goals of the Sustainable Groundwater Management Act (Water Code Sections 10720 through 10737.6).

NOW, THEREFORE, the Parties agree as follows:

1. Grantor hereby grants to Grantee a temporary construction easement for purposes of constructing a groundwater monitoring well at Grantee’s sole cost and expense. The temporary construction easement is located on a portion of the Property depicted on **Exhibit “B”**. The temporary construction easement is granted to Grantee for a period not to exceed ninety (90) days after Grantee’s issuance of a Notice to Proceed with construction of the groundwater monitoring well.

2. Prior to the commencement of construction within the easement area, (1) Grantee shall provide Grantor with plans, specifications and/or the proposed scope of work and (2) if the plans and specifications are acceptable, Grantor shall promptly approve the plans, specifications and/or scope of work and may impose reasonable conditions of approval, including limiting the time frame within which the work may be performed. Construction work, once commenced, shall be diligently pursued until completion and costs for labor and materials shall be paid in a timely and proper manner.

3. The groundwater monitoring well shall be constructed by a licensed contractor. Prior to commencement of construction, Grantee shall cause its contractor(s) to provide 1) Workers' Compensation insurance; and 2) General Liability insurance with limits of at least \$1,000,000, which shall name Grantor, its officers, directors, employees or agents as additional insureds by separate endorsement.

4. To construct said monitoring well, Grantee and its contractor(s) shall have to access the monitoring well site with drilling and other equipment to construct the groundwater monitoring well. Access to the groundwater monitoring well site will have to accommodate a drilling rig and accompanying pieces of equipment.

5. During the period of construction, Grantee agrees to cause its contractors to keep the construction site in a good and safe condition and to defend, indemnify and hold the Grantor, its officers, directors, employees and agents, harmless from any loss, damage, injury, claim, cost, liability or cause of action arising from or relating to the construction of the monitoring well, or the operation and maintenance of the monitoring well, or the negligence or wrongful act of Grantee or its officers, directors, employees, contractors, or agents.

6. Upon completion of construction,

(a) Grantee shall cause its contractor(s) to remove all equipment and other debris and restore the site back to its previous condition, except for the well site surface cap which will be adequately marked and secured; and

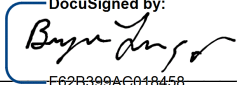
(b) Grantee will transfer ownership of the groundwater monitoring well to the County.

7. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument. For purposes of this Agreement, a signature through an electronic medium shall have the same force and effect as an original signature.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year first above written.

GRANTOR

LAND TRUST OF SANTA CRUZ COUNTY

By: 
Name: Bryan Largay
Its: Conservation Director

GRANTEE

SANTA MARGARITA GROUNDWATER AGENCY

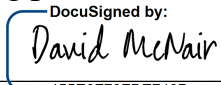
By: 
Name: David McNair
Authorized Representative
Santa Margarita Groundwater Agency

EXHIBIT A -1

SITUATE IN THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA AND DESCRIBED AS
FOLLOWS:

BEING A PART OF THE SOUTHEAST 1/4 OF SECTION 14, TOWNSHIP 10 SOUTH, RANGE 2 WEST, M.D.B. & M., AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERLY CORNER OF LANDS DEEDED TO GEORGE AND ADELE M. DUFOUR, BY DEED RECORDED IN VOLUME 496, AT PAGE 242, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY, FROM WHICH POINT A WITNESS PIPE BEARS SOUTH 6 DEGREES 49' WEST 103.0 FEET DISTANT; THENCE FROM SAID POINT OF BEGINNING ALONG THE WESTERLY BOUNDARY OF SAID LANDS TO DUFOUR, SOUTH 6 DEGREES 49' WEST 289.80 FEET TO A 1/2" ROD ON THE NORTHERLY BOUNDARY OF LANDS DEEDED TO A.K. ZEITLER, BY DEED RECORDED IN VOLUME 81, AT PAGE 499, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE NORTHERLY AND WESTERLY BOUNDARY OF SAID LAST MENTIONED LANDS NORTH 84 DEGREES 00' WEST 16.7 FEET TO AN OLD SPIKE; THENCE SOUTH 45 DEGREES 00' WEST 60.0 FEET TO AN ANGLE FROM WHICH A "W" ON A 12 INCH OAK TREE BEARS SOUTH 21 DEGREES 00' WEST 6.90 FEET DISTANT; THENCE SOUTH 3 DEGREES 53' EAST 50.00 FEET TO AN ANGLE ON THE EASTERLY BOUNDARY OF LANDS DEEDED TO L.W. STETTNER, ET UX, BY DEED RECORDED IN VOLUME 184, AT PAGE 154, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST MENTIONED LANDS NORTH 26 DEGREES 05' WEST 102.30 FEET TO A STATION ON THE SOUTHERLY BOUNDARY OF LANDS

DEEDED TO L. W. STETTNER BY DEED RECORDED IN VOLUME 241, AT PAGE 393, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE SOUTHERLY BOUNDARY OF SAID LAST MENTIONED LANDS SOUTH 65 DEGREES 00' EAST 30.0 FEET TO AN ANGLE; THENCE NORTH 60 DEGREES 45' EAST 32.90 FEET TO AN ANGLE FROM WHICH THE MOST NORTHERN CORNER OF SAID ABOVE MENTIONED LANDS CONVEYED TO A.K. ZEITLER BEARS SOUTH 84 DEGREES 00' EAST 28.30 FEET DISTANT AND A SPIKE IN THE ROOT OF A 12 INCH MADRONE TREE BEARS NORTH 37 DEGREES 45' WEST 6.60 FEET DISTANT; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST ABOVE MENTIONED LANDS TO STETTNER NORTH 7 DEGREES 00' EAST 176.70 FEET TO THE NORTHEAST CORNER THEREOF; THENCE ALONG THE NORTHERLY BOUNDARY OF SAID LANDS NORTH 83 DEGREES 27' WEST 82.50 FEET TO A SPIKE IN THE NORTH SIDE OF THE BASE OF A 6 FOOT REDWOOD TREE; THENCE LEAVING SAID BOUNDARY NORTH 27 DEGREES 02' WEST 69.38 FEET TO THE MOST EASTERLY CORNER OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 125, AT PAGE 97, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY FROM WHICH POINT A "W" ON A 16 INCH REDWOOD TREE BEARS SOUTH 20 DEGREES 02' EAST 11.1 FEET DISTANT; THENCE ALONG THE EASTERLY AND NORTHERLY BOUNDARY OF SAID LANDS TO MASON NORTH 20 DEGREES 02' WEST 206.80 FEET TO A STAKE; THENCE SOUTH 65 DEGREES 09' WEST 220.28 FEET TO A STAKE FROM WHICH A "W" ON AN 18 INCH PINE TREE BEARS NORTH 4 DEGREES 15' WEST 21.0 FEET DISTANT; AND A "W" ON A 10 INCH PINE TREE BEARS NORTH 55 DEGREES 45' EAST 31.45 FEET DISTANT; THENCE SOUTH 78 DEGREES 06' WEST 27.32 FEET TO A PIPE AT THE SOUTHEASTERLY CORNER OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 449, AT PAGE 129, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY AND NORTHERLY BOUNDARY OF SAID LANDS NORTH 23 DEGREES 22' WEST 191.81 FEET TO A PIPE; THENCE DUE WEST 60.0 FEET TO A PIPE ON THE EASTERLY BOUNDARY OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 387, AT PAGE 325, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LANDS DUE NORTH 95.0 FEET TO A PIPE AT THE SOUTHEASTERLY CORNER OF LANDS DEED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 449, AT PAGE 129, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY FROM WHICH A "W" ON AN 8 INCH OAK TREE BEARS SOUTH 89° 00' WEST 19.64 FEET DISTANT; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST MENTIONED LANDS DUE NORTH 346.23 FEET TO A PIPE ON THE 1/16 SECTION LINE RUNNING EAST AND WEST THROUGH THE SOUTHEAST 1/4 OF SAID SECTION 14; THENCE ALONG SAID 1/16 SECTION LINE DUE EAST 552.12 FEET TO A 3/4 INCH PIPE; THENCE LEAVING SAID LINE SOUTH 00 DEGREES 42' WEST 186.21 FEET TO A PIPE; THENCE SOUTH 56 DEGREES 11' EAST 126.60 FEET TO A PIPE; THENCE SOUTH 6 DEGREES 51' WEST 422.53 FEET TO THE PLACE OF BEGINNING; and including the following:

SITUATE IN THE SOUTHEAST QUARTER OF SECTION 14, T. 10 S., R. 2 W., M.D.B. & M., SANTA CRUZ COUNTY, CALIFORNIA.

BEING A PORTION OF THE LANDS CONVEYED TO MARJORIE R. HARRIS BY DEED RECORDED JUNE 26, 1964, IN VOLUME 1626, PAGE 707, SANTA CRUZ COUNTY OFFICIAL RECORDS, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A PIPE ON THE SIXTEENTH SECTION LINE RUNNING EAST AND WEST THROUGH THE MIDDLE OF SAID SOUTHEAST QUARTER OF SECTION 14, SAID PIPE BEING THE NORTHWEST CORNER OF SAID LANDS OF HARRIS; THENCE FROM SAID POINT OF BEGINNING ALONG SAID SIXTEENTH SECTION LINE EAST 213.00 FEET TO A PIPE ON THE PROPERTY LINE BETWEEN THE LANDS CONVEYED TO SANTA CRUZ AGGREGATES COMPANY BY DEED RECORDED APRIL 26, 1950, IN VOLUME 769, PAGE 565, SANTA CRUZ COUNTY OFFICIAL RECORDS AND SAID LANDS OF HARRIS; THENCE LEAVE SAID SIXTEENTH SECTION LINE AND ALONG SAID PROPERTY LINE SOUTH 391.52 FEET; THENCE LEAVE SAID PROPERTY LINE NORTH 64 DEGREES 00' WEST 93.42 FEET; THENCE NORTH 78 DEGREES 00' WEST 156.34 FEET TO THE PROPERTY LINE BETWEEN THE LANDS CONVEYED TO H.W. EDWARDS, ET UX, BY DEED RECORDED AUGUST 28, 1925, IN VOLUME 53, PAGE 279, SANTA CRUZ COUNTY OFFICIAL RECORDS, AND SAID LANDS OF HARRIS; THENCE ALONG SAID PROPERTY LINE NORTH 4 DEGREES 17' 48" EAST 318.96 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION CONVEYED TO FREDERICK L. STETTNER, ET UX., BY DEED DATED AUGUST 3, 1962 AND RECORDED IN BOOK 1487, PAGE 668, OFFICIAL RECORDS OF SANTA CRUZ COUNTY.

ALSO EXCEPTING PARCELS ONE AND TWO, OF THE DEED TO COUNTY OF SANTA CRUZ, DATED DECEMBER 2, 1971 AND RECORDED IN BOOK 2188, PAGE 73, OFFICIAL RECORDS OF SANTA CRUZ

EXHIBIT A -2

SITUATE IN THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA AND DESCRIBED AS
FOLLOWS:

BEING A PART OF SECTIONS 13 AND 14, TOWNSHIP 10 SOUTH, RANGE 2 WEST, M.D.B. & M., AND THE
SAN AUGUSTINE RANCHO AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS, TO
WIT:

BEGINNING AT AN IRON PIPE STANDING AT THE NORTHEAST CORNER OF PARCEL 3, OF LANDS
CONVEYED BY HAROLD M. PRICE AND ANN PRICE TO G.W. HAVENS BY DEED DATED JULY 2, 1948 AND
RECORDED JULY 6, 1948 IN VOLUME 662 AT PAGE 154 OF OFFICIAL RECORDS OF SANTA CRUZ
COUNTY AND RUNNING THENCE ALONG THE NORTHERLY BOUNDARY OF SAID LANDS SOUTH 70
DEGREES 37' WEST 109.67 FEET TO AN IRON PIPE STANDING AT THE NORTHWEST CORNER
THEREOF; THENCE RUNNING ALONG THE WESTERLY BOUNDARY OF SAID LANDS SOUTH 08 DEGREES
58' EAST 382.27 FEET TO THE SOUTHWEST CORNER OF SAID LANDS IN THE MIDDLE OF BEAN CREEK
AND ON THE NORTHERLY BOUNDARY OF LANDS OF DUFOUR AS DESCRIBED IN VOLUME 496, PAGE
242 OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE RUNNING ALONG THE NORTHERLY
BOUNDARY OF SAID LANDS IN THE MIDDLE OF BEAN CREEK NORTH 65 DEGREES 0' WEST 72.37 FEET
TO AN ANGLE NORTH 50 DEGREES 29' WEST 159.51 FEET TO AN ANGLE AND NORTH 78 DEGREES 11'
WEST 55.29 FEET TO THE EASTERLY BOUNDARY OF LANDS CONVEYED BY BARTON TROBOCK AND
BERENICE TROBOCK TO WALTER P. DUBOIS BY DEED RECORDED IN VOLUME 686 AT PAGE 20 OF
OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE LEAVING SAID BEAN CREEK AND RUNNING
ALONG THE EASTERLY BOUNDARY OF SAID LANDS NORTH 06 DEGREES 51' EAST 409.11 FEET TO AN
IRON PIPE FROM WHICH AN IRON PIPE AT AN ANGLE IN THE EASTERLY BOUNDARY OF SAID LAST
MENTIONED LANDS BEARS NORTH 06 DEGREES 51' EAST 13.42 FEET DISTANT; THENCE LEAVING SAID
BOUNDARY SOUTH 88 DEGREES 23' EAST 238.44 FEET TO THE WESTERLY BOUNDARY OF LANDS OF

G.W. HAVENS AS DESCRIBED IN VOLUME 662 AT PAGE 154 OF OFFICIAL RECORDS OF SANTA CRUZ
COUNTY; THENCE ALONG SAID BOUNDARY OF SOUTH 0 DEGREES 49' WEST 128.63 FEET TO THE
PLACE OF BEGINNING.

EXHIBIT B

TEMPORARY EASEMENT AREA

LINE & CURVE TABLE

LINE/CURVE	RADIUS	LENGTH	Δ / BEARING
L1	—	22.32'	S87°14'28"W
L2	—	17.18'	S15°24'29"W
L3	—	8.49'	S88°20'17"E
L4	—	21.50'	N16°46'45"W
C1	100'	52.99'	Δ=30°21'36"
C2	200'	49.55'	Δ=14°11'44"
C3	100'	41.64'	Δ=23°51'38"
C4	100'	11.34'	Δ=06°29'58"

lands of
LAND TRUST of SANTA CRUZ COUNTY
Doc. #2008-0040764

APN 070-261-57

POINT OF-
BEGINNING

32-M-73
Geyer Rd.

lands of
LAND TRUST of SANTA CRUZ COUNTY
Doc. #2008-0040765

APN 070-261-58

lands of
LAND TRUST of SANTA CRUZ COUNTY
Doc. #2008-0040763

APN 070-261-56

EXISTING BUILDING

POINT "B"

MONITORING WELL EASEMENT

R=125'
L=85.88'
 $\Delta=39^{\circ}21'58''$

$$\begin{aligned} R &= 200' \\ L &= 77.98' \\ \Delta &= 22^\circ 20' 25'' \end{aligned}$$

SCALE:
1"=60'

Recording Requested by
And Return To:

Scotts Valley Water District
2 Civic Center Drive
Scotts Valley, CA 95066

Scotts Valley Water District Official Business

Exempt from Recording Fees Pursuant to
Government Code Section 27383
Exempt from Transfer Tax Pursuant to
Revenue and Taxation Code Section 11911 and 11922

))
APN 023-101-02 (Grantor Parcel)

GROUNDWATER MONITORING WELL EASEMENT

THIS GROUNDWATER MONITORING WELL EASEMENT ("Agreement") is made and entered into on the 24th day of May, 2022 (the "Effective Date") by and between the **Scotts Valley Unified School District** ("**Grantor**") and the **Scotts Valley Water District**, a County Water District organized under California Water Code Section 30000 et seq. ("**Grantee**"). Grantor and Grantee are referred to herein individually as a "**Party**" and collectively as the "**Parties**".

RECITALS

A. Grantor is the owner of that certain real property located in the City of Scotts Valley, County of Santa Cruz, State of California, known as Assessor's Parcel Number 023-101-02, and depicted in **Exhibit "A"**, attached hereto and incorporated herein ("**Property**").

B. The Santa Margarita Groundwater Agency (**SMGWA**), a joint powers agency formed pursuant to California's Sustainable Groundwater Management Act, desires to construct a groundwater monitoring well on a portion of the Property at SMGWA's sole expense. Through a separate agreement, Grantor has agreed to grant a temporary construction easement to SMGWA to allow a groundwater monitoring well to be constructed on a portion of the Property.

C. Upon completion of construction, the groundwater monitoring well will be transferred by SMGWA to the Grantee, who will assume responsibility for ownership, operation and Maintenance (defined below) of the groundwater monitoring well at Grantee's sole expense.

D. Grantor has agreed to grant an easement to Grantee to allow Grantee to operate and Maintain a groundwater monitoring well on a portion of the Property, subject to the terms and conditions set forth herein.

NOW, THEREFORE, the Parties agree as follows:

1. Grant of Easement. Grantor grants an easement ("Easement") to Grantee described and depicted on **Exhibit "B" ("Easement Area")**. The Easement is for the operation and Maintenance of a monitoring well and related appurtenances over, across, along, upon and through the Easement Area by the Grantee and the Related Parties (defined below). The Easement granted herein includes the right to operate and Maintain groundwater monitoring well improvements and appurtenances within the Easement Area, together with the right of access thereto for personnel and equipment necessary and required for such uses and purposes.

2. Restrictions. No permanent buildings, structures, improvements, landscaping or fences shall be constructed or maintained on, across, over or through the Easement Area if such building, structures, improvements, landscaping or fences would interfere with or adversely affect the Easement rights granted herein. Grantor shall not perform, or knowingly allow others to perform, any act or use affecting the Easement Area in conflict with the rights set out in this Agreement.

3. Use and Maintenance.

3.1. General Maintenance Responsibilities. Grantee shall operate and Maintain the groundwater monitoring well in good condition and repair, in accordance with all Applicable Laws (defined below), at its sole cost and expense. Grantee shall keep the Easement Area and the Property free and clear of any liens arising out of any Maintenance work.

3.2. Damage to Easements and Improvements. To the extent that any damage to, or destruction of, any portion of the Easement Area or the groundwater monitoring system is caused by the willful misconduct or negligent act or omission of any Party to this Agreement, the cost and expense incurred in connection therewith (to the extent not compensated by insurance proceeds) shall be the responsibility of the Party causing or responsible for the damage or destruction.

4. Indemnification; Insurance.

4.1. Grantee shall, at its expense, defend, indemnify and hold the Grantor, its officers, directors, employees and agents, harmless from any claim, cost, liability or cause of action arising from or relating to the negligence or wrongful act of Grantee or its officers, directors, employees or agents.

4.2. Prior to commencement of Maintenance of the groundwater monitoring system within the Easement Area by a licensed contractor, Grantee shall cause its contractor(s) to provide 1) Workers Compensation insurance; and 2) General Liability insurance with limits of at least \$1,000,000, which shall name Grantor, its officers, directors, employees or agents as additional insureds by separate endorsement; and 3) Grantee's contractor(s) shall comply with fingerprinting certification requirements set forth in Education Code Section 45125.2.

5. Dispute Resolution Procedures.

5.1. Cooperation. The Parties shall endeavor to resolve all matters and disputes through mutual cooperation.

5.2. Mediation of Disputes. The Parties agree to mediate any dispute or claim arising from or relating to this Agreement before resorting to arbitration or litigation. The mediation fees shall be divided equally between the disputing Parties. If any Party commences an action without first attempting to resolve the matter through mediation, or refuses to mediate after a request has been made, then that Party shall not be entitled to recover attorneys' fees, even if they would otherwise be available to that Party in such action or arbitration or litigation.

6. Attorneys' Fees. Subject to paragraph 5.2 of this Agreement, if any action is commenced regarding the rights or duties of the Parties hereto relating to the matters set forth herein, the prevailing Party in such action shall be entitled to recover the costs of such action and reasonable attorneys' fees.

7. Covenants Running With the Land. All of the rights and obligations contained herein are covenants and shall be binding upon successors and assigns and shall run with the land to the benefit of all persons having or acquiring any right, title or interest in the Property, or any portion thereof. The Easement shall be a servitude running with the land in perpetuity consistent with the concepts and intent of California Civil Code §1468. Every provision in this Agreement that applies to Grantor and Grantee shall also apply to and be binding on their respective agents, heirs, executors, administrators, successors, and assigns.

8. Definitions.

(a) **"Applicable Laws"** means all applicable federal, state and local laws, common law, statutes, acts, ordinances, rules, regulations, permits, building codes, licenses and requirements of all governmental authorities (including any agency, authority, board, branch, division, department or similar unit of any federal, state, county, city, district or other governmental entity having jurisdiction over the Parcels) that now or hereafter may be applicable to the Property.

(b) **"Maintain"** or **"Maintenance"** means to construct, install, operate, inspect, test, maintain, repair, replace, and upgrade the Easement Area and the related improvements and facilities within the Easement Area as provided herein.

(c) **"Related Parties"** are: the Santa Margarita Groundwater Agency, the County of Santa Cruz and their employees, agents, contractors and consultants.

9. General Provisions.

(a) **Amendment.** This Agreement may not be amended, modified or supplemented except by a written agreement executed by the Parties.

(b) **Binding Effect.** This Agreement shall be binding upon and shall inure to the benefit of the Parties and their heirs, successors and assigns, and any reference to a Party hereto shall also be a reference to an heir, successor or assign.

(c) **Complete Agreement.** This Agreement constitutes the complete and exclusive statement of agreement among the Parties with respect to the subject matter herein and therein replace and supersede all prior written and oral agreements or statements by and among the Parties. No representation, statement, condition or warranty not contained in this Agreement, or the

attached Exhibits, will be binding on the Parties or have any force or effect whatsoever, notwithstanding the provisions of Civil Code Section 1698.

(d) Controlling Law. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California.

(e) Further Acts. The Parties to this Agreement will, in good faith, exercise and perform such other acts as are reasonably necessary and appropriate to consummate and carry out the terms and conditions described under this Agreement.

(f) Interpretation. In the event any claim is made by any Party relating to any conflict, omission or ambiguity in this Agreement, no presumption or burden of proof or persuasion shall be implied by virtue of the fact that this Agreement was prepared by or at the request of a particular Party or his or its counsel. The Parties further agree that California Civil Code Section 1654 does not apply to this Agreement.

(g) Jurisdiction and Venue. The Parties acknowledge and understand that the making of this Agreement is in Santa Cruz County, California. Any suit or proceeding shall be filed and maintained in Santa Cruz County, California.

(h) Severability. If any provision of the Agreement is held invalid or unenforceable, then the remainder of this Agreement shall nevertheless remain in full force and effect.

(i) Time of the Essence. Time is of the essence for each and every provision of this Agreement.

(j) Waiver. A waiver by one Party of the performance of any covenant, agreement, obligation or condition, shall not be construed as a waiver of any other covenant, agreement or condition. A waiver by any Party of the performance of any act shall not constitute a waiver of the performance of any other act or an identical act required to be performed at a later time.

(k) Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

[SIGNATURE PAGE ATTACHED]

IN WITNESS WHEREOF, the parties have executed this Agreement on the day and year first above written.

GRANTOR

Scotts Valley Unified School District

By: 
Name: Tanya Krause
Its: Superintendent

GRANTEE

Scotts Valley Water District

By: 
Name: Piret Harmon
Its: General Manager

CERTIFICATE OF ACCEPTANCE
(California Government Code section 27281)

This is to certify that the interest in the real property conveyed hereby pursuant to the Monitoring Well Easement Agreement from Scotts Valley Unified School District, to the Scotts Valley Water District , a County Water District organized under Water Code Section 30000 et seq., is hereby accepted by the undersigned officer or agent on behalf of the Board of Directors pursuant to authority conferred by resolution of the Board of Directors adopted on 02/09/2017 and the Grantee consents to recordation thereof by its duly authorized officer.

Scotts Valley Water District

By: Piret Harmon
Name: Piret Harmon
General Manager

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

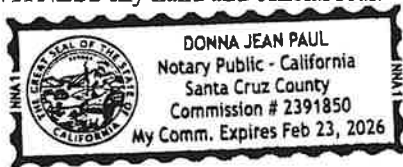
State of California

County of Santa Cruz

On 12/21/2022 before me, Donna Jean Paul, Notary Public, personally appeared Pier Hammer, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

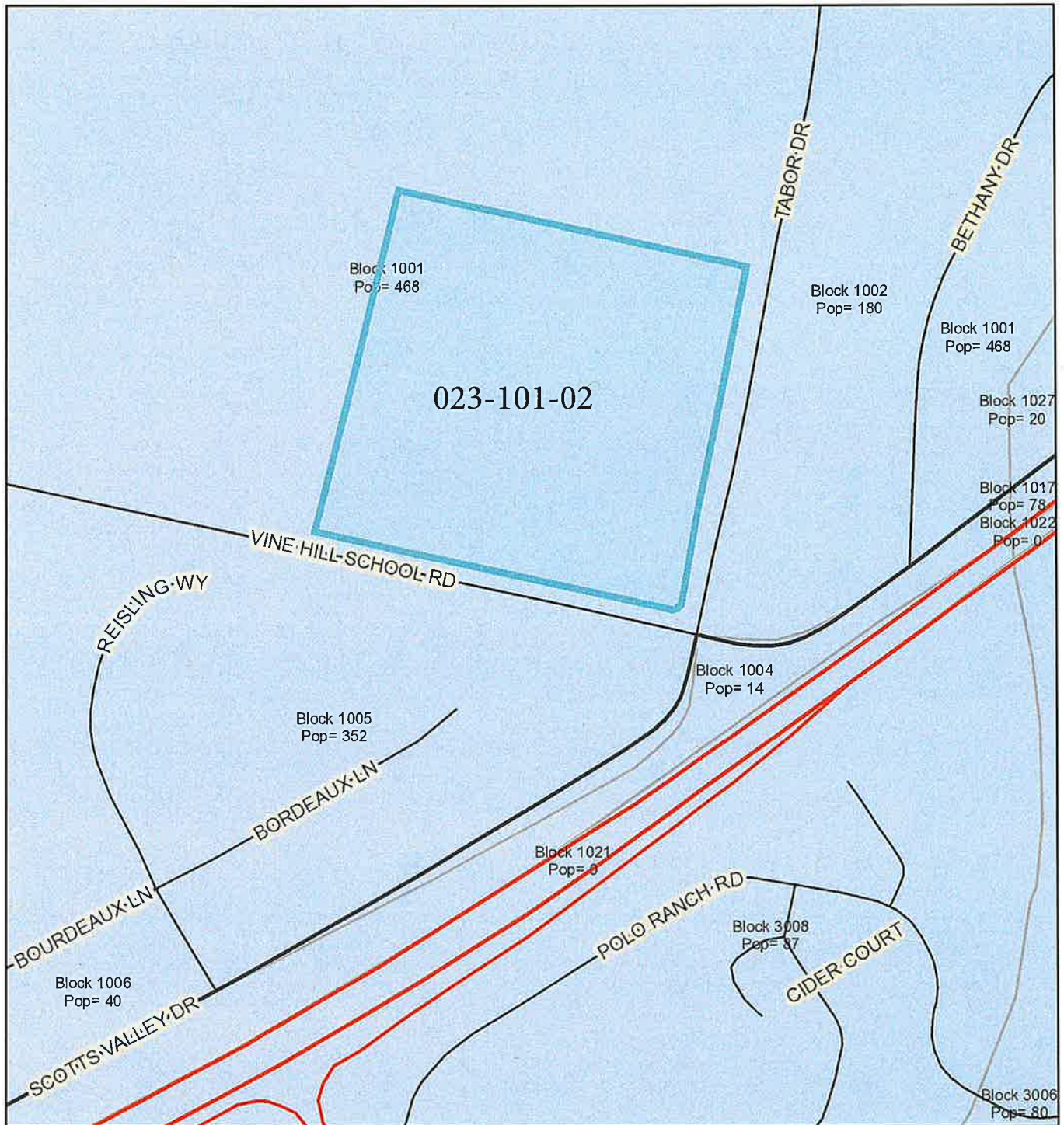
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Donna Jean Paul

Exhibit A



December 21, 2022

1:2,160

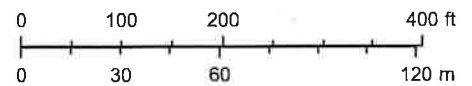


Exhibit B

Situate in the City of Scotts Valley, County of Santa Cruz, State of California

Being part of the lands of Scotts Valley Unified School District

PARCEL ONE

Being an easement for a monitoring well, more particularly described as follows, to wit:

Commencing at the southeastern corner of that Parcel B on the western sideline of Tabor Drive shown on that map recorded in Volume 24 of Parcel Maps at Page 42, Santa Cruz County Records;

Thence from said **Point of Commencement**, along said western sideline of Tabor Drive, South 10°20'00" West 49.00 feet; thence leaving said western sideline at right angles thereto North 79°40'00" West 5.00 feet to the **True Point of Beginning**

Thence from said **True Point of Beginning**, northerly 5.00 feet west of and parallel to said Tabor Drive, North 10°20'00" East 2.50 feet; thence at right angles thereto, North 79°40'00" West 5.00 feet; thence at right angles thereto, South 10°20'00" West 5.00 feet; thence at right angles thereto, North 10°20'00" East 2.50 feet to the **True Point of Beginning**.

PARCEL TWO

Being an easement, 20.00 feet wide, for ingress and egress for the construction of, maintenance of and monitoring of the herein described **PARCEL ONE**.

Beginning at the southeastern corner of that Parcel B on the western sideline of Tabor Drive shown on that map recorded in Volume 24 of Parcel Maps at Page 42, Santa Cruz County Records;

Thence from said **Point of Beginning**, along said western sideline of Tabor Drive, South 10°20'00" West 60.00 feet; thence leaving said western sideline at right angles thereto North 79°40'00" West 20.00 feet; thence North 10°20'00" East 60.00 feet, more or less, to the southern boundary of said Parcel B; thence along said boundary, South 79°33'10" East 20.00 feet to the **Point of Beginning**



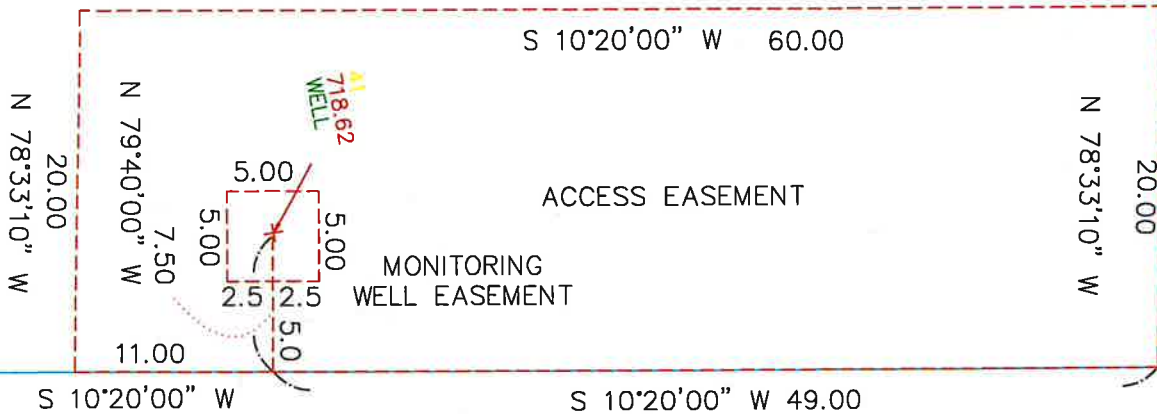
Exhibit B

SCOTTS VALLEY UNIFIED
SCHOOL DISTRICT

TRACT NO. 77
"BETHANT PARK"
"28-MAPS-71"
AS SHOWN ON
22-PM-25

S 78°33'10" E 338.57

CITY OF SCOTTS VALLEY
PARCEL B
24-PM-42



TABOR DRIVE (50)



Curt G. Dunbar

CURT G. DUNBAR

ALPHA LAND SURVEYS, INC.

4444 SCOTTS VALLEY DR. #7
SCOTTS VALLEY, CA 95066
(831) 438-4453

P.O. BOX 1146
MORGAN HILL, CA 95038
(831) 438-4453

PROPOSED MONITORING
WELL EASEMENT
CITY OF SCOTTS VALLEY
SANTA CRUZ CO, CALIF

SHEET
1
OF ONE

1" = 10'

DATE: JUNE 2022

JOB#: 2022-SCWD



51.a
 Approved 8/8/2023
 Board of Supervisors
 DOC-2023-669

Recording Requested by
 and When Recorded, Return To:

Santa Cruz County Environmental Health Services
 Attn: Sierra Ryan
 701 Ocean Street, Room 312
 Santa Cruz, CA 95060

Santa Cruz County Official Business:
 DOCUMENTARY TRANSFER TAX IS \$0
 Revenue and Taxation Code 11911
 Consideration less than \$100.00

SB 2 EXEMPTION

The undersigned declares that this document is exempt from the fee imposed by GC 27388.1 [SB2] because the instrument is being recorded by Santa Cruz County

EXEMPTION FROM RECORDING FEES

Pursuant to Government Code sections 6103 and 27383, Santa Cruz County is exempt from recording fees

APN 070-261-56 and 070-261-58

GROUNDWATER MONITORING WELL EASEMENT

THIS GROUNDWATER MONITORING WELL EASEMENT (“**Agreement**”) is made and entered into on the ____ day of _____, 2023 (the "Effective Date") by and between the **Land Trust of Santa Cruz County** (“**Grantor**”) and **Santa Cruz County** (“**Grantee**”). Grantor and Grantee are referred to herein individually as a “**Party**” and collectively as the “**Parties**”.

R E C I T A L S

A. Grantor is the owner of that certain real property located in the County of Santa Cruz County of Santa Cruz, State of California, known as Assessor’s Parcel Number 070-261-56 and 070-261-58, and further described in **Exhibit “A-1” and “A-2”**, attached hereto and incorporated herein (“**Property**”).

B. The Santa Margarita Groundwater Agency (SMGWA), a joint powers agency formed pursuant to California’s Sustainable Groundwater Management Act, desires to construct a groundwater monitoring well on a portion of the Property at SMGWA’s sole expense. Through a separate agreement, Grantor has agreed to grant a temporary construction easement to SMGWA to allow a groundwater monitoring well to be constructed on a portion of the Property.

C. Upon completion of construction, the groundwater monitoring well will be transferred by SMGWA to Grantee, who will assume responsibility for ownership, operation and maintenance of the groundwater monitoring well at Grantee’s sole expense.

D. Grantor has agreed to grant an easement to Grantee to allow Grantee to operate and maintain a groundwater monitoring well on a portion of the Property, subject to the terms and conditions set forth herein.

E. The Parties acknowledge that the Grantor's provision of this Easement serves the public interest. In particular, the public will benefit from this easement as it enables groundwater monitoring and reporting activities that support the goals of the Sustainable Groundwater Management Act (Water Code Sections 10720 through 10737.6).

NOW, THEREFORE, the Parties agree as follows:

1. Definitions.

(a) **"Applicable Laws"** means all applicable federal, state and local laws, common law, statutes, acts, ordinances, rules, regulations, permits, building codes, licenses and requirements of all governmental authorities (including any agency, authority, board, branch, division, department or similar unit of any federal, state, county, city, district or other governmental entity having jurisdiction over the Parcels) that now or hereafter may be applicable to the Property.

(b) **"Maintain"** or **"maintenance"** means to operate, inspect, test, maintain, repair, replace, and upgrade the Easement Area and the related improvements and facilities within the Easement Area as provided herein.

(c) **"Related Parties"** are the Santa Margarita Groundwater Agency, the Scotts Valley Water District, the San Lorenzo Valley Water District, and their respective directors, officers, employees, agents, contractors and consultants.

2. Grant of Easement; Termination. Grantor grants a groundwater monitoring well easement (**"Easement"**) to Grantee described and depicted on **Exhibit "B-1"** and **"B-2"** (**"Easement Area"**). The Easement is solely for the operation and maintenance of a monitoring well and related appurtenances over, across, along, upon and through the Easement Area by the Grantee and the Related Parties. The Easement granted herein includes the right to operate and maintain groundwater monitoring well improvements and appurtenances within the Easement, together with the right of access to the Easement for personnel and equipment necessary and required for such uses and purposes within the Easement. The Easement granted to Grantee under this Agreement shall terminate fifty (50) years after recordation of this Agreement, unless extended by mutual agreement of the Parties.

3. Restrictions. Grantor shall not perform, or knowingly allow others to perform, any act or use affecting the Easement Area in conflict with the rights set out in this Agreement. Grantee shall not take or engage in any actions in connection with the Easement which interferes or conflicts with Grantor's use of the Property.

4. General Maintenance Responsibilities. Grantee shall operate and maintain the Easement in good condition and repair, in accordance with all Applicable Laws (defined above), at its sole cost and expense. Grantee shall keep the Easement Area and the Property free and clear of any liens arising out of any maintenance work. Grantee shall provide at least seven days' advance notice to Grantor before entering the Property or the Easement Area.

5. Access. Grantor hereby grants the Grantee, the Related Parties, and their agents, employees and representatives pedestrian access to, and across, the Property to the Easement. At its sole discretion, Grantor may determine the access route to the Easement. Grantor may also, at its sole discretion and upon written request by Grantee, allow temporary motor vehicle access to the Easement. This grant of access does not give Grantee the right or ability to construct any improvements, structures, roads, trails, landscaping or facilities in connection with the current or future access route.

6. Limitation on Use. The right of access set forth in Section 5 is for the sole purpose of monitoring groundwater at the Well site, including installing, operating, maintaining and removing monitoring equipment from the Well, or otherwise gaining access to the Easement Area or Well. Grantee shall exercise reasonable care in accessing the Easement Area so as not to damage the Property. Easement access shall be limited to week days, between the hours of 8:00 a.m. and 5:00 p.m. pacific standard time.

7. Indemnification; Insurance.

7.1. Grantee shall, at its expense, defend, indemnify and hold the Grantor, its officers, directors, employees and agents, harmless from any loss, damage, injury, claim, cost, liability or cause of action arising from or relating to the use of the Easement by Grantee and the Related Parties, the operation and maintenance of the monitoring well, or the negligence or wrongful act of Grantee or its officers, directors, employees or agents.

7.2. Prior to commencement of any maintenance of the groundwater monitoring system within the Easement Area by a licensed contractor, Grantee shall cause its contractor(s) to provide 1) Workers Compensation insurance; and 2) General Liability insurance with limits of at least \$1,000,000, which shall name Grantor, its officers, directors, employees and agents as additional insureds by separate endorsement.

8. Cooperation. The Parties shall endeavor to resolve all matters and disputes through mutual cooperation.

9. Covenants Running With the Land. All of the rights and obligations contained herein are covenants and shall be binding upon successors and assigns and shall run with the land to the benefit of all persons having or acquiring any right, title or interest in the Property, or any portion thereof. The Easement shall be a servitude running with the land consistent with the concepts and intent of California Civil Code §1468. Every provision in this Agreement that applies to Grantor and Grantee shall also apply to and be binding on their respective agents, heirs, executors, administrators, successors, and assigns.

10. No Grant of Groundwater Rights. Grantee agrees and acknowledges that its operation and maintenance of a monitoring well within the designated portion of the Easement Area will not grant or create any rights to groundwater or other water supplies as an overlying owner, or otherwise, on the part of Grantee and Related Parties. Grantee further agrees and acknowledges that it will only operate and maintain a well in the designated portion of the Easement Area for groundwater monitoring, and that it will not extract or utilize any water from the well for any consumptive use or for any purpose other than monitoring and testing.

11. General Provisions.

(a) Amendment. This Agreement may not be amended, modified or supplemented except by a written agreement executed by the Parties.

(b) Binding Effect. This Agreement shall be binding upon and shall inure to the benefit of the Parties and their heirs, successors and assigns, and any reference to a Party hereto shall also be a reference to an heir, successor or assign.

(c) Complete Agreement. This Agreement constitutes the complete and exclusive statement of agreement among the Parties with respect to the subject matter herein and therein replace and supersede all prior written and oral agreements or statements by and among the Parties. No representation, statement, condition or warranty not contained in this Agreement, or the attached Exhibits, will be binding on the Parties or have any force or effect whatsoever, notwithstanding the provisions of Civil Code Section 1698.

(d) Controlling Law. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California.

(e) Further Acts. The Parties to this Agreement will, in good faith, exercise and perform such other acts as are reasonably necessary and appropriate to consummate and carry out the terms and conditions described under this Agreement.

(f) Interpretation. In the event any claim is made by any Party relating to any conflict, omission or ambiguity in this Agreement, no presumption or burden of proof or persuasion shall be implied by virtue of the fact that this Agreement was prepared by or at the request of a particular Party or his or its counsel. The Parties further agree that California Civil Code Section 1654 does not apply to this Agreement.

(g) Jurisdiction and Venue. The Parties acknowledge and understand that the making of this Agreement is in Santa Cruz County, California. Any suit or proceeding shall be filed and maintained in Santa Cruz County, California.

(h) Severability. If any provision of the Agreement is held invalid or unenforceable, then the remainder of this Agreement shall nevertheless remain in full force and effect.

(i) Time of the Essence. Time is of the essence for each and every provision of this Agreement.

(j) Waiver. A waiver by one Party of the performance of any covenant, agreement, obligation or condition, shall not be construed as a waiver of any other covenant, agreement or condition. A waiver by any Party of the performance of any act shall not constitute a waiver of the performance of any other act or an identical act required to be performed at a later time.

(k) Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

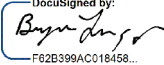
IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year first above written.

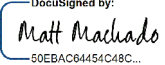
GRANTOR

GRANTEE

LAND TRUST OF SANTA CRUZ COUNTY

SANTA CRUZ COUNTY

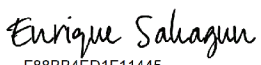
By:  7/24/2023
Name: Bryan Largay
Its: Conservation Director

By:  7/25/2023
Name: Matt Machado
Its: Deputy CAO/Director of Community Development & Infrastructure

APPROVED AS TO FORM:

DocuSigned by:
 6/30/2023
40E85ACDEDAB42D...
Office of County Counsel Date

APPROVED AS TO INSURANCE:

DocuSigned by:
 7/4/2023
F88BB4ED1F11445...
Risk Management Date

RECOMMENDED FOR APPROVAL:

DocuSigned by:
 6/30/2023
553123D22A0D4B5...
Real Property Date

EXHIBIT A -1

SITUATE IN THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA AND DESCRIBED AS
FOLLOWS:

BEING A PART OF THE SOUTHEAST 1/4 OF SECTION 14, TOWNSHIP 10 SOUTH, RANGE 2 WEST, M.D.B. & M., AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERLY CORNER OF LANDS DEEDED TO GEORGE AND ADELE M. DUFOUR, BY DEED RECORDED IN VOLUME 496, AT PAGE 242, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY, FROM WHICH POINT A WITNESS PIPE BEARS SOUTH 6 DEGREES 49' WEST 103.0 FEET DISTANT; THENCE FROM SAID POINT OF BEGINNING ALONG THE WESTERLY BOUNDARY OF SAID LANDS TO DUFOUR, SOUTH 6 DEGREES 49' WEST 289.80 FEET TO A 1/2" ROD ON THE NORTHERLY BOUNDARY OF LANDS DEEDED TO A.K. ZEITLER, BY DEED RECORDED IN VOLUME 81, AT PAGE 499, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE NORTHERLY AND WESTERLY BOUNDARY OF SAID LAST MENTIONED LANDS NORTH 84 DEGREES 00' WEST 16.7 FEET TO AN OLD SPIKE; THENCE SOUTH 45 DEGREES 00' WEST 60.0 FEET TO AN ANGLE FROM WHICH A "W" ON A 12 INCH OAK TREE BEARS SOUTH 21 DEGREES 00' WEST 6.90 FEET DISTANT; THENCE SOUTH 3 DEGREES 53' EAST 50.00 FEET TO AN ANGLE ON THE EASTERLY BOUNDARY OF LANDS DEEDED TO L.W. STETTNER, ET UX, BY DEED RECORDED IN VOLUME 184, AT PAGE 154, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST MENTIONED LANDS NORTH 26 DEGREES 05' WEST 102.30 FEET TO A STATION ON THE SOUTHERLY BOUNDARY OF LANDS

DEEDED TO L. W. STETTNER BY DEED RECORDED IN VOLUME 241, AT PAGE 393, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE SOUTHERLY BOUNDARY OF SAID LAST MENTIONED LANDS SOUTH 65 DEGREES 00' EAST 30.0 FEET TO AN ANGLE; THENCE NORTH 60 DEGREES 45' EAST 32.90 FEET TO AN ANGLE FROM WHICH THE MOST NORTHERN CORNER OF SAID ABOVE MENTIONED LANDS CONVEYED TO A.K. ZEITLER BEARS SOUTH 84 DEGREES 00' EAST 28.30 FEET DISTANT AND A SPIKE IN THE ROOT OF A 12 INCH MADRONE TREE BEARS NORTH 37 DEGREES 45' WEST 6.60 FEET DISTANT; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST ABOVE MENTIONED LANDS TO STETTNER NORTH 7 DEGREES 00' EAST 176.70 FEET TO THE NORTHEAST CORNER THEREOF; THENCE ALONG THE NORTHERLY BOUNDARY OF SAID LANDS NORTH 83 DEGREES 27' WEST 82.50 FEET TO A SPIKE IN THE NORTH SIDE OF THE BASE OF A 6 FOOT REDWOOD TREE; THENCE LEAVING SAID BOUNDARY NORTH 27 DEGREES 02' WEST 69.38 FEET TO THE MOST EASTERLY CORNER OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 125, AT PAGE 97, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY FROM WHICH POINT A "W" ON A 16 INCH REDWOOD TREE BEARS SOUTH 20 DEGREES 02' EAST 11.1 FEET DISTANT; THENCE ALONG THE EASTERLY AND NORTHERLY BOUNDARY OF SAID LANDS TO MASON NORTH 20 DEGREES 02' WEST 206.80 FEET TO A STAKE; THENCE SOUTH 65 DEGREES 09' WEST 220.28 FEET TO A STAKE FROM WHICH A "W" ON AN 18 INCH PINE TREE BEARS NORTH 4 DEGREES 15' WEST 21.0 FEET DISTANT; AND A "W" ON A 10 INCH PINE TREE BEARS NORTH 55 DEGREES 45' EAST 31.45 FEET DISTANT; THENCE SOUTH 78 DEGREES 06' WEST 27.32 FEET TO A PIPE AT THE SOUTHEASTERLY CORNER OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 449, AT PAGE 129, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY AND NORTHERLY BOUNDARY OF SAID LANDS NORTH 23 DEGREES 22' WEST 191.81 FEET TO A PIPE; THENCE DUE WEST 60.0 FEET TO A PIPE ON THE EASTERLY BOUNDARY OF LANDS DEEDED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 387, AT PAGE 325, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LANDS DUE NORTH 95.0 FEET TO A PIPE AT THE SOUTHEASTERLY CORNER OF LANDS DEED TO HULDA L. MASON BY DEED RECORDED IN VOLUME 449, AT PAGE 129, OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY FROM WHICH A "W" ON AN 8 INCH OAK TREE BEARS SOUTH 89° 00' WEST 19.64 FEET DISTANT; THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAST MENTIONED LANDS DUE NORTH 346.23 FEET TO A PIPE ON THE 1/16 SECTION LINE RUNNING EAST AND WEST THROUGH THE SOUTHEAST 1/4 OF SAID SECTION 14; THENCE ALONG SAID 1/16 SECTION LINE DUE EAST 552.12 FEET TO A 3/4 INCH PIPE; THENCE LEAVING SAID LINE SOUTH 00 DEGREES 42' WEST 186.21 FEET TO A PIPE; THENCE SOUTH 56 DEGREES 11' EAST 126.60 FEET TO A PIPE; THENCE SOUTH 6 DEGREES 51' WEST 422.53 FEET TO THE PLACE OF BEGINNING; and including the following:

SITUATE IN THE SOUTHEAST QUARTER OF SECTION 14, T. 10 S., R. 2 W., M.D.B. & M., SANTA CRUZ COUNTY, CALIFORNIA.

BEING A PORTION OF THE LANDS CONVEYED TO MARJORIE R. HARRIS BY DEED RECORDED JUNE 26, 1964, IN VOLUME 1626, PAGE 707, SANTA CRUZ COUNTY OFFICIAL RECORDS, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A PIPE ON THE SIXTEENTH SECTION LINE RUNNING EAST AND WEST THROUGH THE MIDDLE OF SAID SOUTHEAST QUARTER OF SECTION 14, SAID PIPE BEING THE NORTHWEST CORNER OF SAID LANDS OF HARRIS; THENCE FROM SAID POINT OF BEGINNING ALONG SAID SIXTEENTH SECTION LINE EAST 213.00 FEET TO A PIPE ON THE PROPERTY LINE BETWEEN THE LANDS CONVEYED TO SANTA CRUZ AGGREGATES COMPANY BY DEED RECORDED APRIL 26, 1950, IN VOLUME 769, PAGE 565, SANTA CRUZ COUNTY OFFICIAL RECORDS AND SAID LANDS OF HARRIS; THENCE LEAVE SAID SIXTEENTH SECTION LINE AND ALONG SAID PROPERTY LINE SOUTH 391.52 FEET; THENCE LEAVE SAID PROPERTY LINE NORTH 64 DEGREES 00' WEST 93.42 FEET; THENCE NORTH 78 DEGREES 00' WEST 156.34 FEET TO THE PROPERTY LINE BETWEEN THE LANDS CONVEYED TO H.W. EDWARDS, ET UX, BY DEED RECORDED AUGUST 28, 1925, IN VOLUME 53, PAGE 279, SANTA CRUZ COUNTY OFFICIAL RECORDS, AND SAID LANDS OF HARRIS; THENCE ALONG SAID PROPERTY LINE NORTH 4 DEGREES 17' 48" EAST 318.96 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION CONVEYED TO FREDERICK L. STETTNER, ET UX., BY DEED DATED AUGUST 3, 1962 AND RECORDED IN BOOK 1487, PAGE 668, OFFICIAL RECORDS OF SANTA CRUZ COUNTY.

ALSO EXCEPTING PARCELS ONE AND TWO, OF THE DEED TO COUNTY OF SANTA CRUZ, DATED DECEMBER 2, 1971 AND RECORDED IN BOOK 2188, PAGE 73, OFFICIAL RECORDS OF SANTA CRUZ

EXHIBIT A -2

SITUATE IN THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA AND DESCRIBED AS
FOLLOWS:

BEING A PART OF SECTIONS 13 AND 14, TOWNSHIP 10 SOUTH, RANGE 2 WEST, M.D.B. & M., AND THE
SAN AUGUSTINE RANCHO AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS, TO
WIT:

BEGINNING AT AN IRON PIPE STANDING AT THE NORTHEAST CORNER OF PARCEL 3, OF LANDS
CONVEYED BY HAROLD M. PRICE AND ANN PRICE TO G.W. HAVENS BY DEED DATED JULY 2, 1948 AND
RECORDED JULY 6, 1948 IN VOLUME 662 AT PAGE 154 OF OFFICIAL RECORDS OF SANTA CRUZ
COUNTY AND RUNNING THENCE ALONG THE NORTHERLY BOUNDARY OF SAID LANDS SOUTH 70
DEGREES 37' WEST 109.67 FEET TO AN IRON PIPE STANDING AT THE NORTHWEST CORNER
THEREOF; THENCE RUNNING ALONG THE WESTERLY BOUNDARY OF SAID LANDS SOUTH 08 DEGREES
58' EAST 382.27 FEET TO THE SOUTHWEST CORNER OF SAID LANDS IN THE MIDDLE OF BEAN CREEK
AND ON THE NORTHERLY BOUNDARY OF LANDS OF DUFOUR AS DESCRIBED IN VOLUME 496, PAGE
242 OF OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE RUNNING ALONG THE NORTHERLY
BOUNDARY OF SAID LANDS IN THE MIDDLE OF BEAN CREEK NORTH 65 DEGREES 0' WEST 72.37 FEET
TO AN ANGLE NORTH 50 DEGREES 29' WEST 159.51 FEET TO AN ANGLE AND NORTH 78 DEGREES 11'
WEST 55.29 FEET TO THE EASTERLY BOUNDARY OF LANDS CONVEYED BY BARTON TROBOCK AND
BERENICE TROBOCK TO WALTER P. DUBOIS BY DEED RECORDED IN VOLUME 686 AT PAGE 20 OF
OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE LEAVING SAID BEAN CREEK AND RUNNING
ALONG THE EASTERLY BOUNDARY OF SAID LANDS NORTH 06 DEGREES 51' EAST 409.11 FEET TO AN
IRON PIPE FROM WHICH AN IRON PIPE AT AN ANGLE IN THE EASTERLY BOUNDARY OF SAID LAST
MENTIONED LANDS BEARS NORTH 06 DEGREES 51' EAST 13.42 FEET DISTANT; THENCE LEAVING SAID
BOUNDARY SOUTH 88 DEGREES 23' EAST 238.44 FEET TO THE WESTERLY BOUNDARY OF LANDS OF

G.W. HAVENS AS DESCRIBED IN VOLUME 662 AT PAGE 154 OF OFFICIAL RECORDS OF SANTA CRUZ
COUNTY; THENCE ALONG SAID BOUNDARY OF SOUTH 0 DEGREES 49' WEST 128.63 FEET TO THE
PLACE OF BEGINNING.

EXHIBIT B-1

EASEMENT FOR MONITORING WELL

SITUATE in the County of Santa Cruz, State of California

BEING an easement, 15 feet by 15 feet square, for a ground water monitoring well over the lands of the Land Trust of Santa Cruz County as described in Official Document Number 2008-0040763 on file at the County of Santa Cruz Records Office, and more particularly described as follows:

COMMENCING at the northwesterly corner of the lands of the Land Trust of Santa Cruz County as described in Official Document #2008-0040765, from which the westerly end of Geyer Road, as shown on that map filed in Volume 32 of Maps, at Page 73, Santa Cruz County Records, bears South 88°27'00" East a distance of 239.00 feet, more or less;

thence along the westerly side of said lands of the Land Trust of Santa Cruz County as described in Official Document #2008-0040765, South 06°51'00" West, a distance of 241.56 feet to a point;

thence leaving said westerly side, North 83°09'00" West, a distance of 68.37 feet, to the POINT OF BEGINNING,

thence along the following courses:

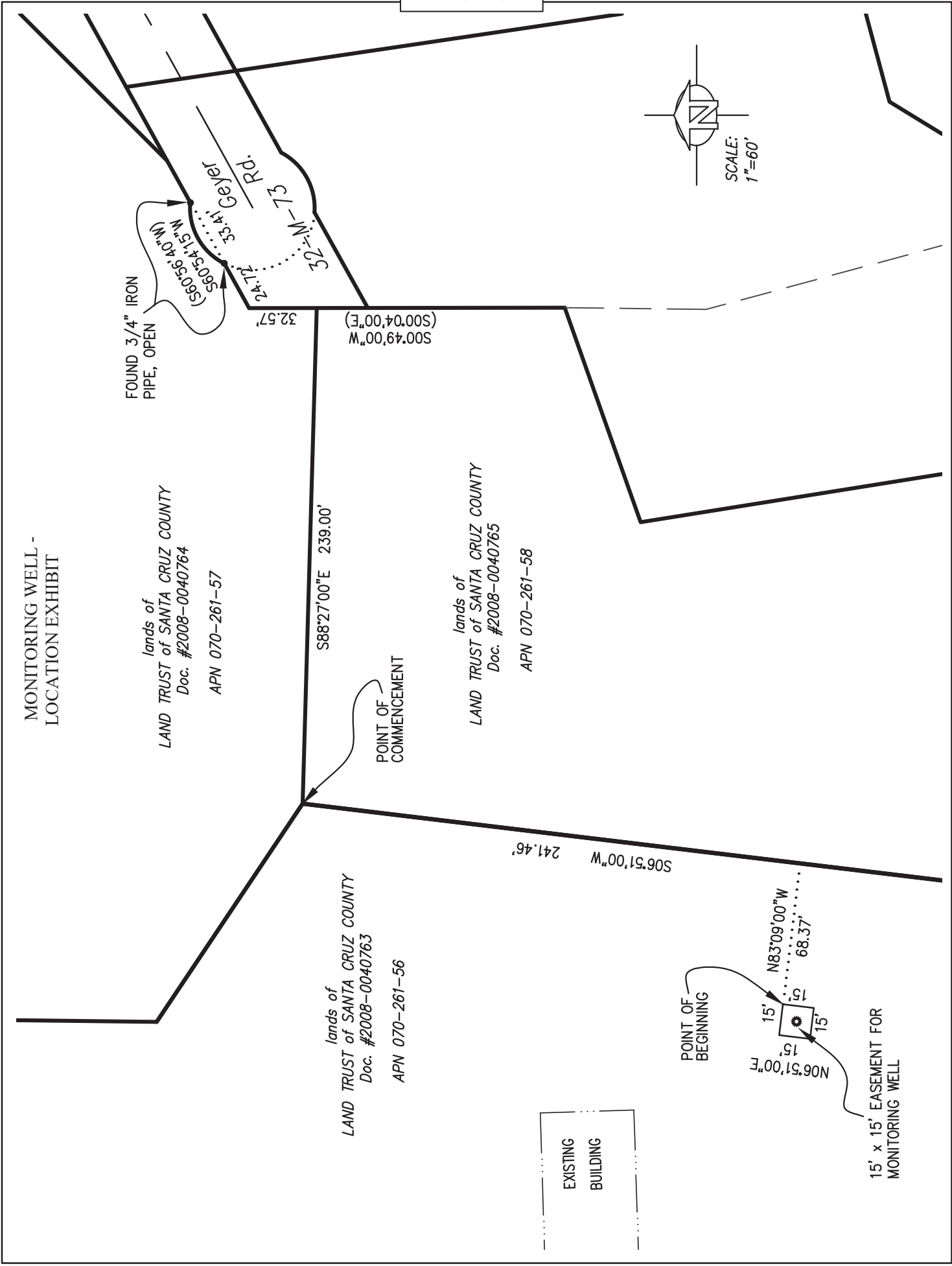
1. South 06°51'00" West, a distance of 15.00 feet
2. North 83°09'00" West, a distance of 15.00 feet
3. North 06°51'00" East, a distance of 15.00 feet,
4. South 83°09'00" East, a distance of 15.00 feet, to the POINT OF BEGINNING

and CONTAINING approximately 225 s.f.

END OF DESCRIPTION

*Job #P40674 – County of Santa Cruz Environmental Health
– monitoring well over lands of the Land Trust of Santa Cruz County*

EXHIBIT B-2



**CERTIFICATE OF ACCEPTANCE
(California Government Code section 27281)**

COUNTY'S FORM ATTACHED

**CERTIFICATE OF ACCEPTANCE -
Govt. Code Sec. 27281**

This is to certify that the interest in real property conveyed by the within deed to the County of Santa Cruz, a political subdivision of the State of California, is hereby accepted by Ordinance No. 5247 of the Board of Supervisors dated May 24, 2017, and the Grantee consents to recordation thereof by its duly authorized officer.

Dated _____

By _____
DIRECTOR OF PUBLIC WORKS

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Santa Cruz

On _____ before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Santa Cruz

On _____ before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Certificate Of Completion

Envelope Id: FB05F00493BE4506A674992D52267C0A

Status: Completed

Subject: Complete with DocuSign: Land Trust WELL Easement 5.18.2023 (v003NAF) with Exhibits.pdf

Source Envelope:

Document Pages: 14

Signatures: 3

Envelope Originator:

Certificate Pages: 5

Initials: 0

Kimberly Finley

AutoNav: Enabled

701 Ocean Street

Enveloped Stamping: Enabled

Santa Cruz, CA 95060

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

kimberly.finley@santacruzcounty.us

IP Address: 73.162.205.237

Record Tracking

Status: Original

Holder: Kimberly Finley

Location: DocuSign

6/30/2023 10:32:51 AM

kimberly.finley@santacruzcounty.us

Security Appliance Status: Connected

Pool: FedRamp

Storage Appliance Status: Connected

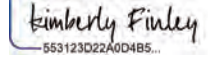
Pool: County of Santa Cruz

Location: DocuSign

Signer Events**Signature****Timestamp**

Kimberly Finley

DocuSigned by:

553123D22A0D4B5...

Sent: 6/30/2023 10:35:11 AM

kimberly.finley@santacruzcounty.us

Viewed: 6/30/2023 10:35:26 AM

Chief Real Property Agent

Signed: 6/30/2023 10:35:37 AM

County of Santa Cruz

Signature Adoption: Pre-selected Style

Security Level: Email, Account Authentication
(None)

Using IP Address: 73.162.205.237

Electronic Record and Signature Disclosure:

Accepted: 3/2/2022 2:54:34 PM

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Justin Graham

DocuSigned by:

40E85ACDEDAB42D...

Sent: 6/30/2023 10:35:38 AM

Justin.Graham@santacruzcounty.us

Viewed: 6/30/2023 10:37:19 AM

Reviewed as to form / Assistant County Counsel

Signed: 6/30/2023 10:37:30 AM

County of Santa Cruz

Signature Adoption: Pre-selected Style

Security Level: Email, Account Authentication
(None)

Using IP Address: 63.194.190.100

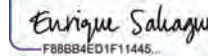
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Enrique Sahagun

DocuSigned by:

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Sent: 6/30/2023 10:37:32 AM

Enrique.Sahagun@santacruzcounty.us

Viewed: 7/4/2023 1:27:09 PM

Risk Manager

Signed: 7/4/2023 1:29:37 PM

County of Santa Cruz

Signature Adoption: Pre-selected Style

Security Level: Email, Account Authentication
(None)

Using IP Address: 162.236.247.162

Electronic Record and Signature Disclosure:

Accepted: 2/28/2022 5:38:23 PM

ID: 53dded50-e6e0-41af-93b9-11ee12d5835c

In Person Signer Events**Signature****Timestamp****Editor Delivery Events****Status****Timestamp****Agent Delivery Events****Status****Timestamp****Intermediary Delivery Events****Status****Timestamp**

Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	6/30/2023 10:35:11 AM
Certified Delivered	Security Checked	7/4/2023 1:27:09 PM
Signing Complete	Security Checked	7/4/2023 1:29:37 PM
Completed	Security Checked	7/4/2023 1:29:37 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact County of Santa Cruz:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: nada.algharib@santacruzcounty.us

To advise County of Santa Cruz of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at nada.algharib@santacruzcounty.us and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

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To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to nada.algharib@santacruzcounty.us and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

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To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

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- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify County of Santa Cruz as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by County of Santa Cruz during the course of your relationship with County of Santa Cruz.

Certificate Of Completion

Envelope Id: EBA2B98BBDE44F32A583E69E56D292BF
Subject: Well Easement Agreement (14835) BOS 8/22/2023
Source Envelope:
Document Pages: 19
Certificate Pages: 5
AutoNav: Enabled
Envelopeld Stamping: Enabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Status: Sent

Envelope Originator:
Blanca Martinez
701 Ocean Street
Santa Cruz, CA 95060
Blanca.Martinez@santacruzcounty.us
IP Address: 108.64.244.228

Record Tracking

Status: Original
7/19/2023 11:10:04 AM
Security Appliance Status: Connected
Storage Appliance Status: Connected

Holder: Blanca Martinez
Blanca.Martinez@santacruzcounty.us
Pool: FedRamp
Pool: County of Santa Cruz

Location: DocuSign

Location: DocuSign

Signer Events

Bryan Largay
Bryan.largay@landtrustsantacruz.org
Security Level: Email, Account Authentication (None)

DocuSigned by:



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Signature Adoption: Drawn on Device
Using IP Address: 50.240.213.245

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Viewed: 7/24/2023 5:38:05 PM
Signed: 7/24/2023 5:41:32 PM

Electronic Record and Signature Disclosure:

Accepted: 7/24/2023 5:38:05 PM
ID: 2b4e51c0-ffdf-4737-a666-a3f996192a3f

Matt Machado
Matt.Machado@santacruzcounty.us
Director of Community Development & Infrastructure
County of Santa Cruz
Security Level: Email, Account Authentication (None)

DocuSigned by:



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Signature Adoption: Pre-selected Style
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Viewed: 7/25/2023 9:04:52 AM
Signed: 7/25/2023 9:05:04 AM

Electronic Record and Signature Disclosure:

Accepted: 3/1/2022 8:22:46 AM
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CBD eSignature
CBD.eSignature@santacruzcounty.us
County of Santa Cruz
Security Level: Email, Account Authentication (None)

Sent: 7/25/2023 9:05:05 AM

Electronic Record and Signature Disclosure:

Accepted: 3/1/2022 5:29:04 PM
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Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp
Kimberly Finley kimberly.finley@santacruzcounty.us Security Level: Email, Account Authentication (None)		
Electronic Record and Signature Disclosure: Accepted: 3/2/2022 2:54:34 PM ID: 080b2d2f-36cf-4132-8ac6-41053a6f7e44		

Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure
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To contact us by email send messages to: nada.algharib@santacruzcounty.us

To advise County of Santa Cruz of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at nada.algharib@santacruzcounty.us and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

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Certificate Of Completion

Envelope Id: 0DBE1201C31540C5891C313E232EC925

Status: Completed

Subject: Complete with DocuSign: Groundwater Monitoring Well Easement (esign).pdf

Source Envelope:

Document Pages: 24

Signatures: 0

Envelope Originator:

Certificate Pages: 5

Initials: 0

CBD eSignature

AutoNav: Enabled

Stamps: 1

701 Ocean Street

Envelopeld Stamping: Enabled

Santa Cruz, CA 95060

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

CBD.eSignature@santacruzcounty.us

IP Address: 63.194.190.100

Record Tracking

Status: Original

Holder: CBD eSignature

Location: DocuSign

8/18/2023 11:30:42 AM

CBD.eSignature@santacruzcounty.us

Security Appliance Status: Connected

Pool: FedRamp

Storage Appliance Status: Connected

Pool: County of Santa Cruz

Location: DocuSign

Signer Events

CBD eSignature

cbd.esignature@santacruzcounty.us

County of Santa Cruz

Security Level: Email, Account Authentication (None)



Using IP Address: 63.194.190.100

Sent: 8/18/2023 11:34:40 AM

Viewed: 8/18/2023 11:34:49 AM

Signed: 8/18/2023 11:35:06 AM

Electronic Record and Signature Disclosure:

Accepted: 3/1/2022 5:29:04 PM

ID: c4e5a2a3-4d71-4795-ac63-16aaad036e28

In Person Signer Events

Editor Delivery Events

Agent Delivery Events

Intermediary Delivery Events

Certified Delivery Events

Carbon Copy Events

Blanca Martinez

Blanca.Martinez@santacruzcounty.us

Security Level: Email, Account Authentication (None)



Sent: 8/18/2023 11:35:08 AM

Electronic Record and Signature Disclosure:

Accepted: 5/22/2023 10:22:56 AM

ID: 19cee9c2-6d92-40c2-9275-3198e60874eb

Witness Events

Notary Events

Envelope Summary Events

Envelope Sent

Hashed/Encrypted

8/18/2023 11:34:40 AM

Certified Delivered

Security Checked

8/18/2023 11:34:49 AM

Signing Complete

Security Checked

8/18/2023 11:35:06 AM

Envelope Summary Events	Status	Timestamps
Completed	Security Checked	8/18/2023 11:35:08 AM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

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If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact County of Santa Cruz:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: nada.algharib@santacruzcounty.us

To advise County of Santa Cruz of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at nada.algharib@santacruzcounty.us and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

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To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to nada.algharib@santacruzcounty.us and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

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- ii. send us an email to nada.algharib@santacruzcounty.us and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify County of Santa Cruz as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by County of Santa Cruz during the course of your relationship with County of Santa Cruz.

Certificate Of Completion

Envelope Id: 943636D4ABB14C1D8883596BC0092A12

Status: Completed

Subject: Complete with DocuSign: Groundwater Monitoring Well Easement (DOC-2023-669) (esign).pdf

Source Envelope:

Document Pages: 29

Signatures: 0

Envelope Originator:

Certificate Pages: 5

Initials: 0

CBD eSignature

AutoNav: Enabled

Stamps: 1

701 Ocean Street

Enveloped Stamping: Enabled

Santa Cruz, CA 95060

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

CBD.eSignature@santacruzcounty.us

IP Address: 63.194.190.100

Record Tracking

Status: Original

Holder: CBD eSignature

Location: DocuSign

8/18/2023 12:04:46 PM

CBD.eSignature@santacruzcounty.us

Security Appliance Status: Connected

Pool: FedRamp

Storage Appliance Status: Connected

Pool: County of Santa Cruz

Location: DocuSign

Signer Events**Signature****Timestamp**

CBD eSignature

cbd.esignature@santacruzcounty.us

County of Santa Cruz

Security Level: Email, Account Authentication (None)



Sent: 8/18/2023 12:11:00 PM

Viewed: 8/18/2023 12:11:09 PM

Signed: 8/18/2023 12:11:35 PM

Using IP Address: 63.194.190.100

Electronic Record and Signature Disclosure:

Accepted: 3/1/2022 5:29:04 PM

ID: c4e5a2a3-4d71-4795-ac63-16aaad036e28

In Person Signer Events**Signature****Timestamp****Editor Delivery Events****Status****Timestamp****Agent Delivery Events****Status****Timestamp****Intermediary Delivery Events****Status****Timestamp****Certified Delivery Events****Status****Timestamp****Carbon Copy Events****Status****Timestamp**

Blanca Martinez

Blanca.Martinez@santacruzcounty.us

Security Level: Email, Account Authentication (None)

COPIED

Sent: 8/18/2023 12:11:36 PM

Electronic Record and Signature Disclosure:

Accepted: 5/22/2023 10:22:56 AM

ID: 19cee9c2-6d92-40c2-9275-3198e60874eb

Witness Events**Signature****Timestamp****Notary Events****Signature****Timestamp****Envelope Summary Events****Status****Timestamps**

Envelope Sent

Hashed/Encrypted

8/18/2023 12:11:00 PM

Certified Delivered

Security Checked

8/18/2023 12:11:09 PM

Signing Complete

Security Checked

8/18/2023 12:11:35 PM

Envelope Summary Events	Status	Timestamps
Completed	Security Checked	8/18/2023 12:11:36 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, County of Santa Cruz (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

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All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

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To advise County of Santa Cruz of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at nada.algharib@santacruzcounty.us and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from County of Santa Cruz

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to nada.algharib@santacruzcounty.us and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with County of Santa Cruz

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- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to nada.algharib@santacruzcounty.us and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

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CALIFORNIA ENVIRONMENTAL QUALITY ACT

NOTICE OF EXEMPTION

The Santa Cruz County Environmental Health Department has reviewed the project described below and has determined that it is exempt from the provisions of CEQA as specified in Sections 15061 - 15332 of CEQA for the reason(s) which have been specified in this document.

Application Number: N/A

Application Title: Installation of Groundwater Monitoring Wells

Assessor Parcel Number: See below

Project Location:

1. Vine Hill School MW: northern portion of APN 023-101-02 alongside Scotts Valley Drive
2. Bean Creek Downstream of Mackenzie Creek MW: west of Bean Creek Road (37.068, -122.016)
3. Ruins Creek MW: west of Nelson Road (37.068, -122.025)
4. Nelson Road / Lockhart Gulch MW: north side of Nelson Road (37.058, -122.033)
5. Bahr Drive MW: north of Bahr Drive (37.065, -122.065)
6. Quail Hollow Road MW: APN 077-361-03 north of Quail Hollow Road
7. Love Creek MW: west of Love Creek Road (37.104, -122.086)
8. Former Geyer Quarry MW: APN 070-261-56 north of Mount Hermon Road

Project Description: Installation of 8 monitoring wells throughout the Santa Margarita Groundwater Basin boundary to collect data concerning the groundwater elevations at strategic locations. These data will inform resource protection under the Sustainable Groundwater Management Act, particularly in evaluating the connection between surface water and groundwater.

Person or Agency Proposing Project: Santa Margarita Groundwater Agency submitted by Sierra Ryan

Contact Phone Number: (831) 454-3133

- A. ☐ The proposed activity is not a project under CEQA Guidelines Section 15378.
- B. ☐ The proposed activity is not subject to CEQA as specified under CEQA Guidelines Section 15060 (c).
- C. ☒ **Ministerial Project** involving only the use of fixed standards or objective measurements without personal judgment.
- D. ☐ **Statutory Exemption** other than a Ministerial Project (CEQA Guidelines Section 15260 to 15285).
- E. ☒ **Categorical Exemption**

Specify type: 15306. INFORMATION COLLECTION Class 6

F. Reasons why the project is exempt:

1. Class 6 Categorical Exemption consists of basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. This project is being done for the purpose of data collection to evaluate and manage an environmental resource by a public agency, and therefore qualifies under this exemption.
2. Ministerial Project: Section 21080 of the Public Resources Code exempts from the application of CEQA those projects over which public agencies exercise only ministerial authority. Wells such as these require only a ministerial well permit from the County.

In addition, none of the conditions described in Section 15300.2 apply to this project.



Sierra Ryan, Water Resources Manager

Date: 5/10/2022



Appendix C

Well Logs

As-Built Well Diagrams
State of California Well Completion Reports
Lithologic Logs

SMGWA-2 Bean Creek Well Schematic

Location: SMGWA-2 Bean Creek
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

Driller: Geocentric Drilling Inc.
Method: Mud Rotary

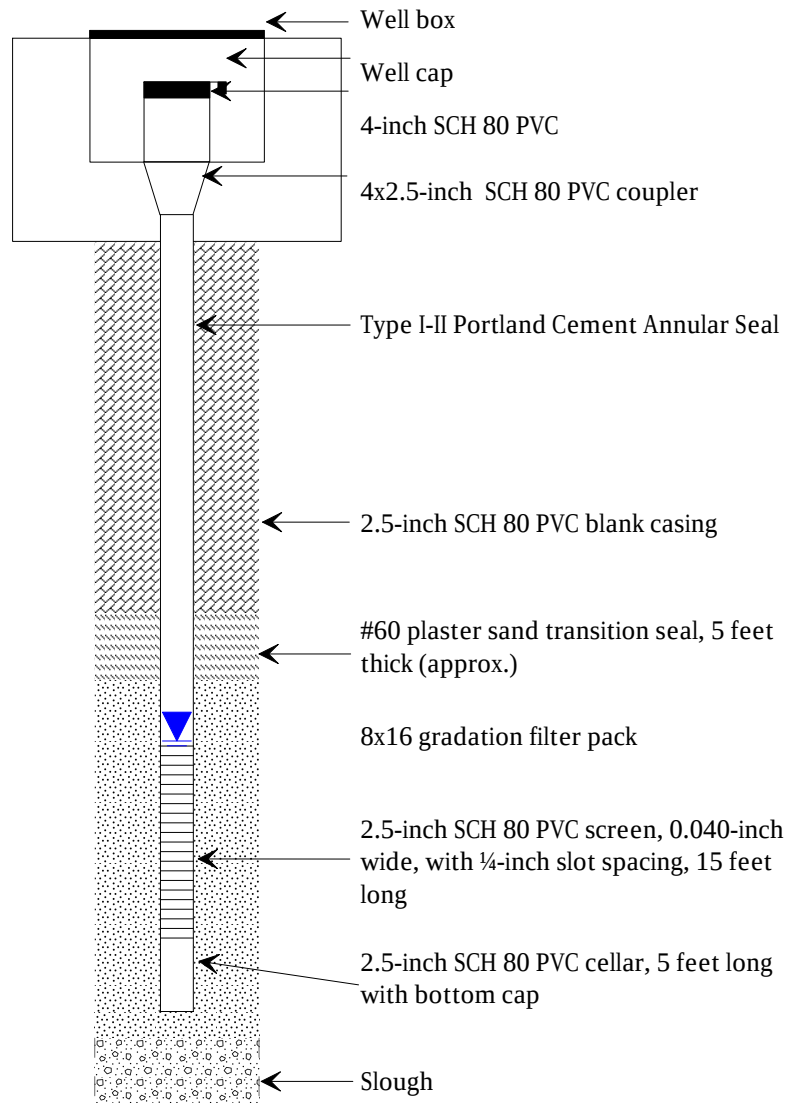
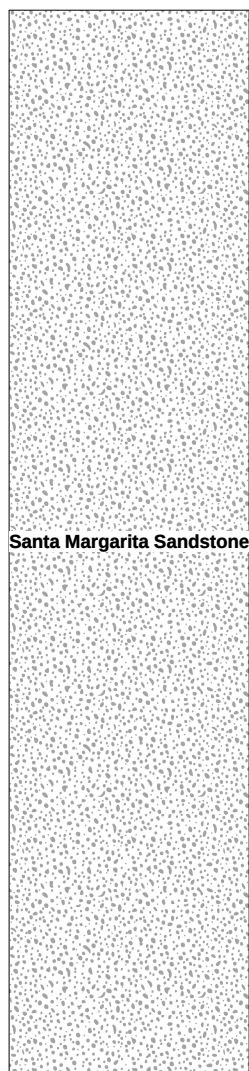
DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION

0
10
20
30
40
50
60
70
80



SMGWA-3 Ruins Creek Well Schematic

Location: SMGWA-3 Ruins Creek
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

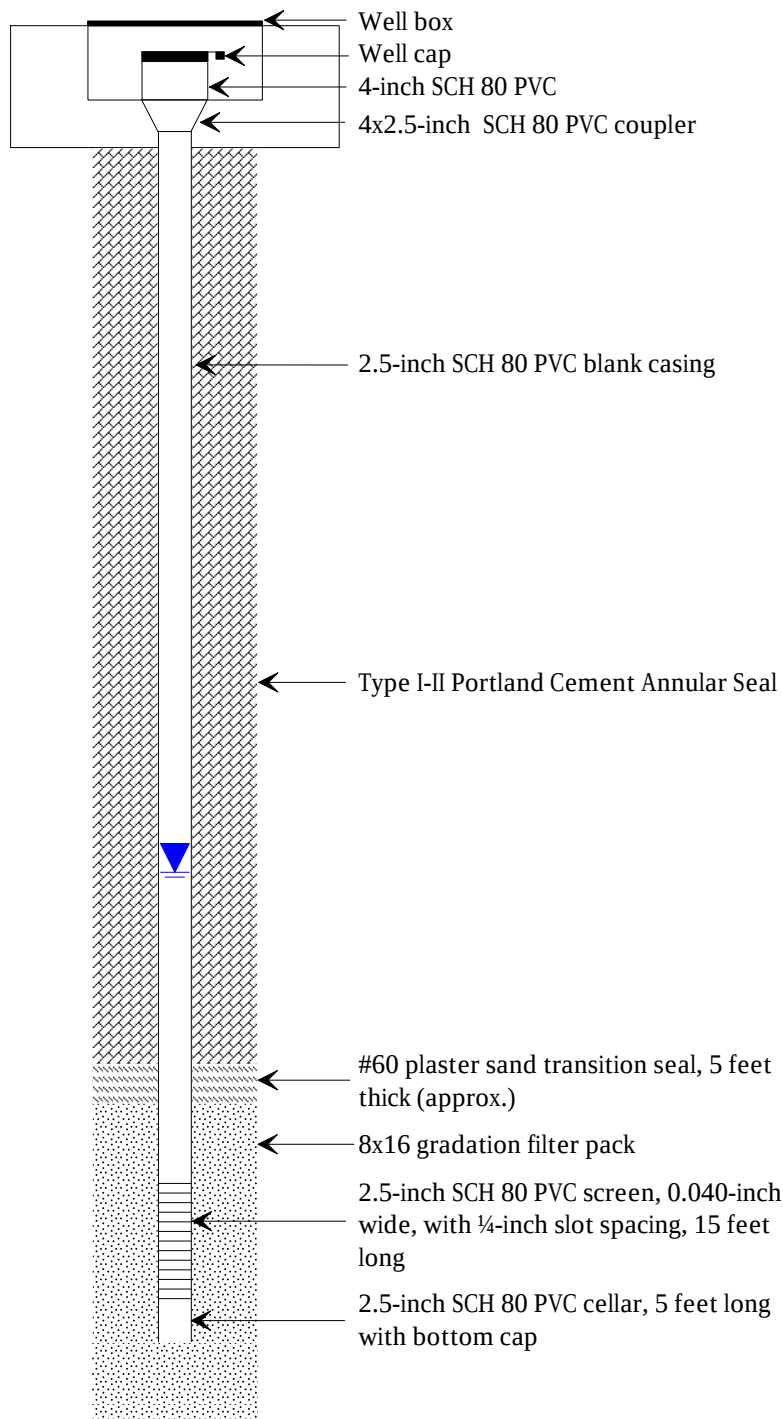
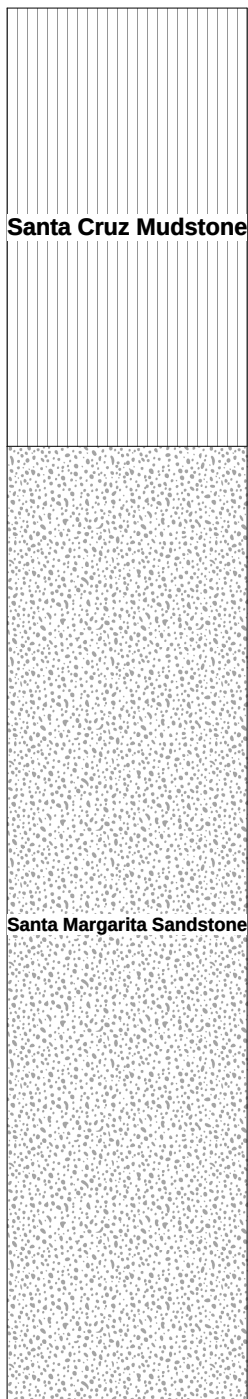
Driller: Geocentric Drilling Inc.
Method: Rotasonic

DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION



SMGWA-4 Nelson Road Well Schematic

Location: SMGWA-4 Nelson Road
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

Driller: Geocentric Drilling Inc.
Method: Mud Rotary

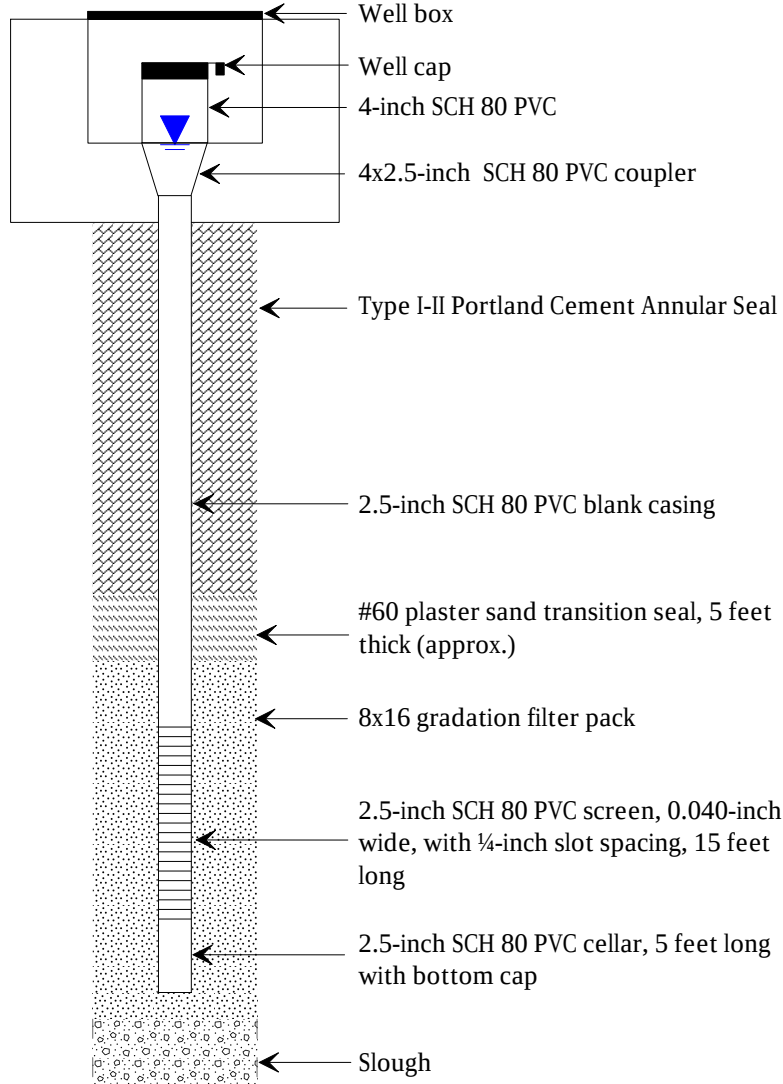
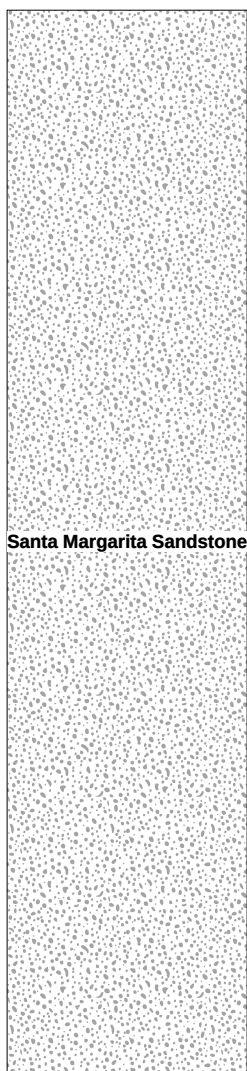
DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION

0
10
20
30
40
50
60
70
80



SMGWA-5 Bahr Drive Well Schematic

Location: SMGWA-5 Bahr Drive
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

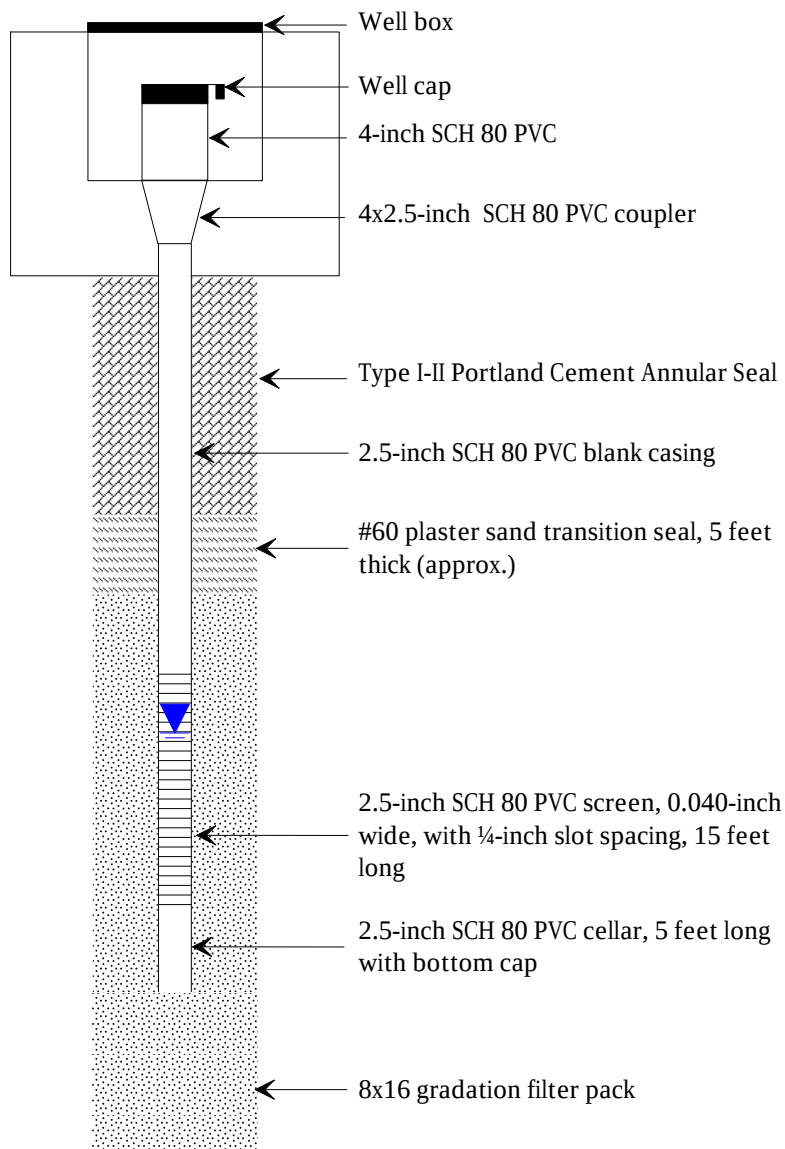
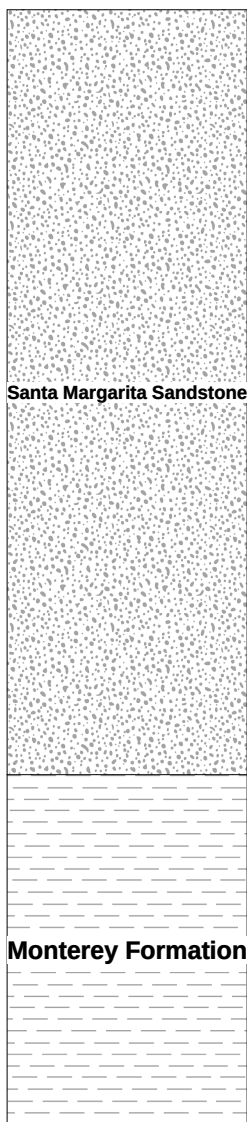
Driller: Geocentric Drilling Inc.
Method: Rotasonic

DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION



SMGWA-6 Quail Hollow Well Schematic

Location: SMGWA-6 Quail Hollow
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

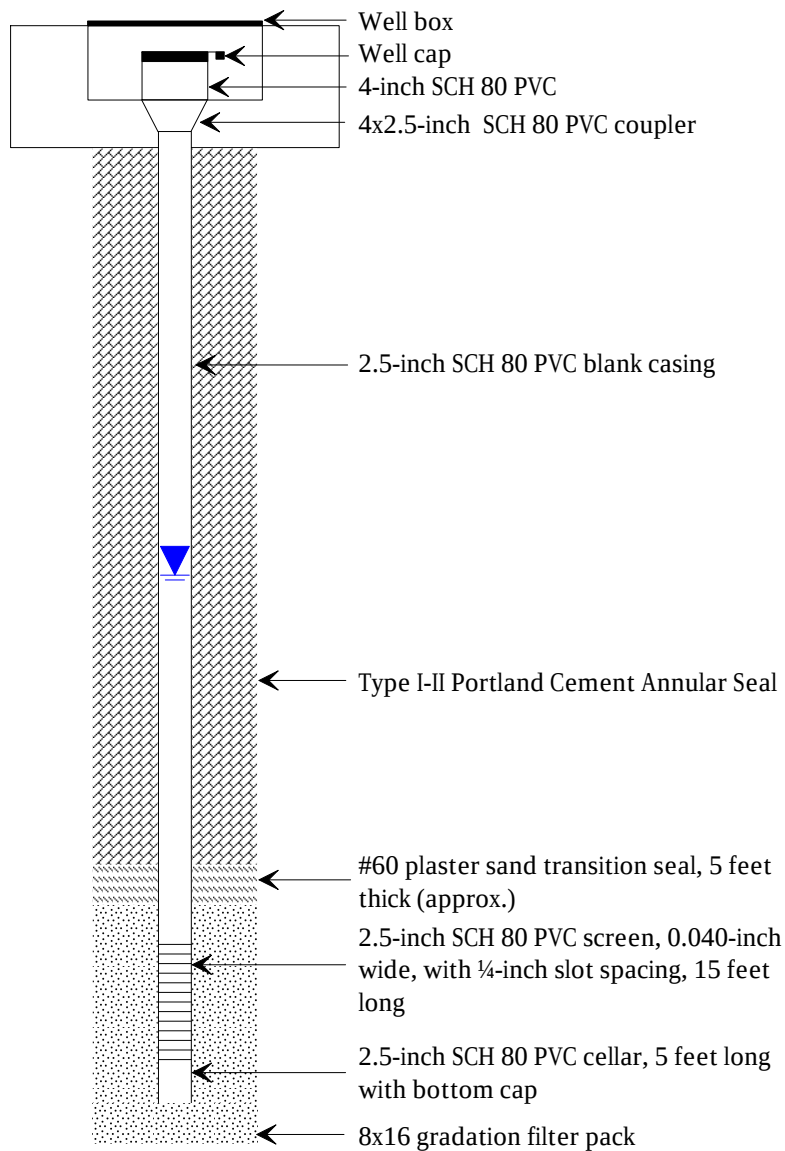
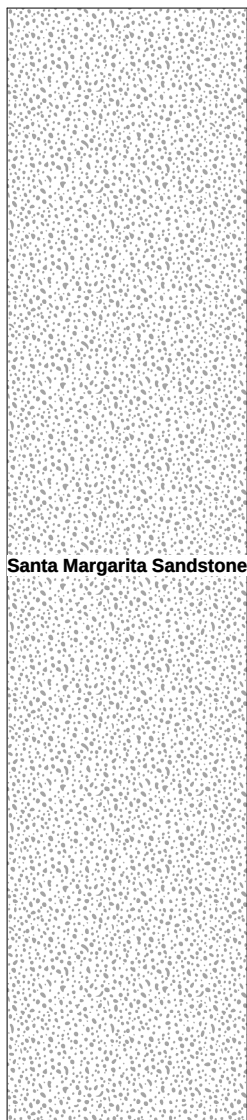
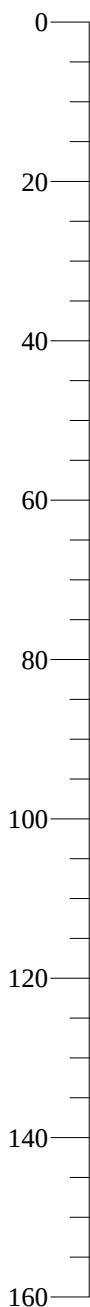
Driller: Geocentric Drilling Inc.
Method: Rotasonic

DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION



SMGWA-7 Love Creek Well Schematic

Location: SMGWA-7 Love Creek
Client: Santa Margarita Groundwater Agency
Project Name: SMGWA Monitoring Well Installation

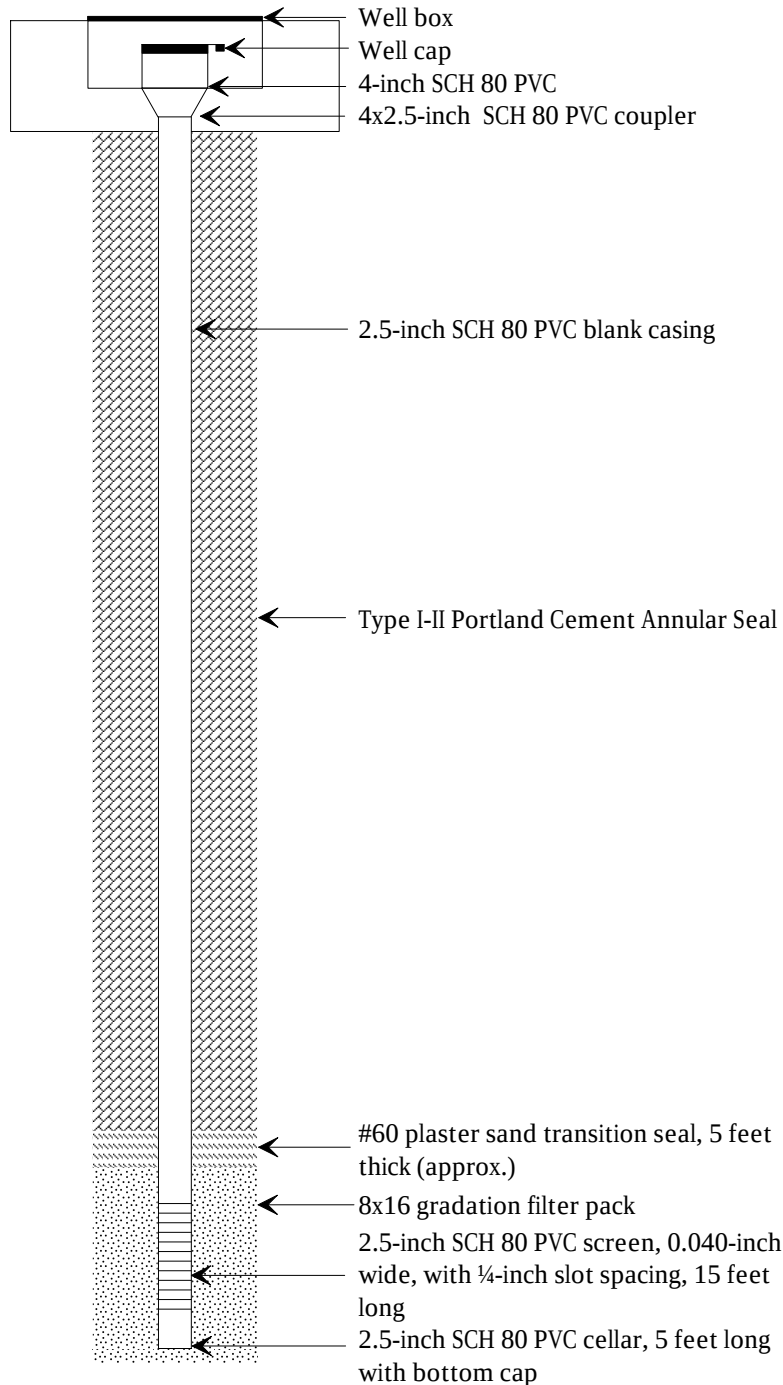
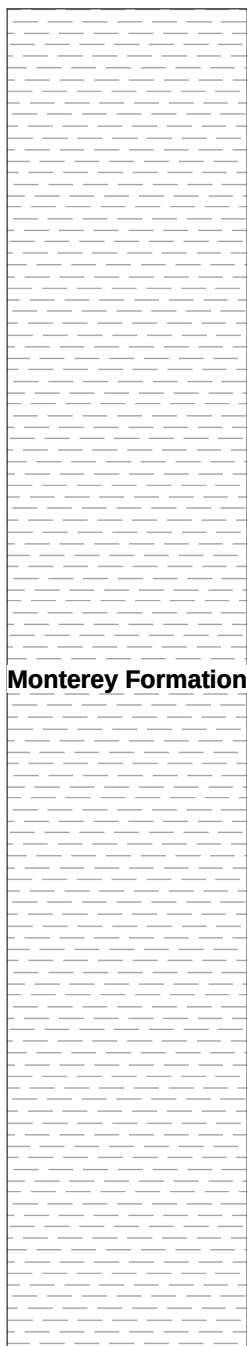
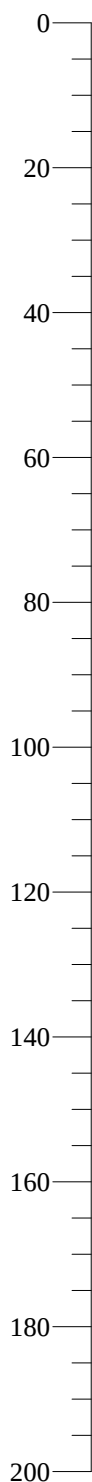
Driller: Geocentric Drilling Inc.
Method: Rotosonic

DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION



SMGWA-8 Randall Morgan Sandhills Preserve Well Schematic



Location: SMGWA-8 Randall Morgan Sandhills Preserve
 Client: Santa Margarita Groundwater Agency
 Project Name: SMGWA Monitoring Well Installation

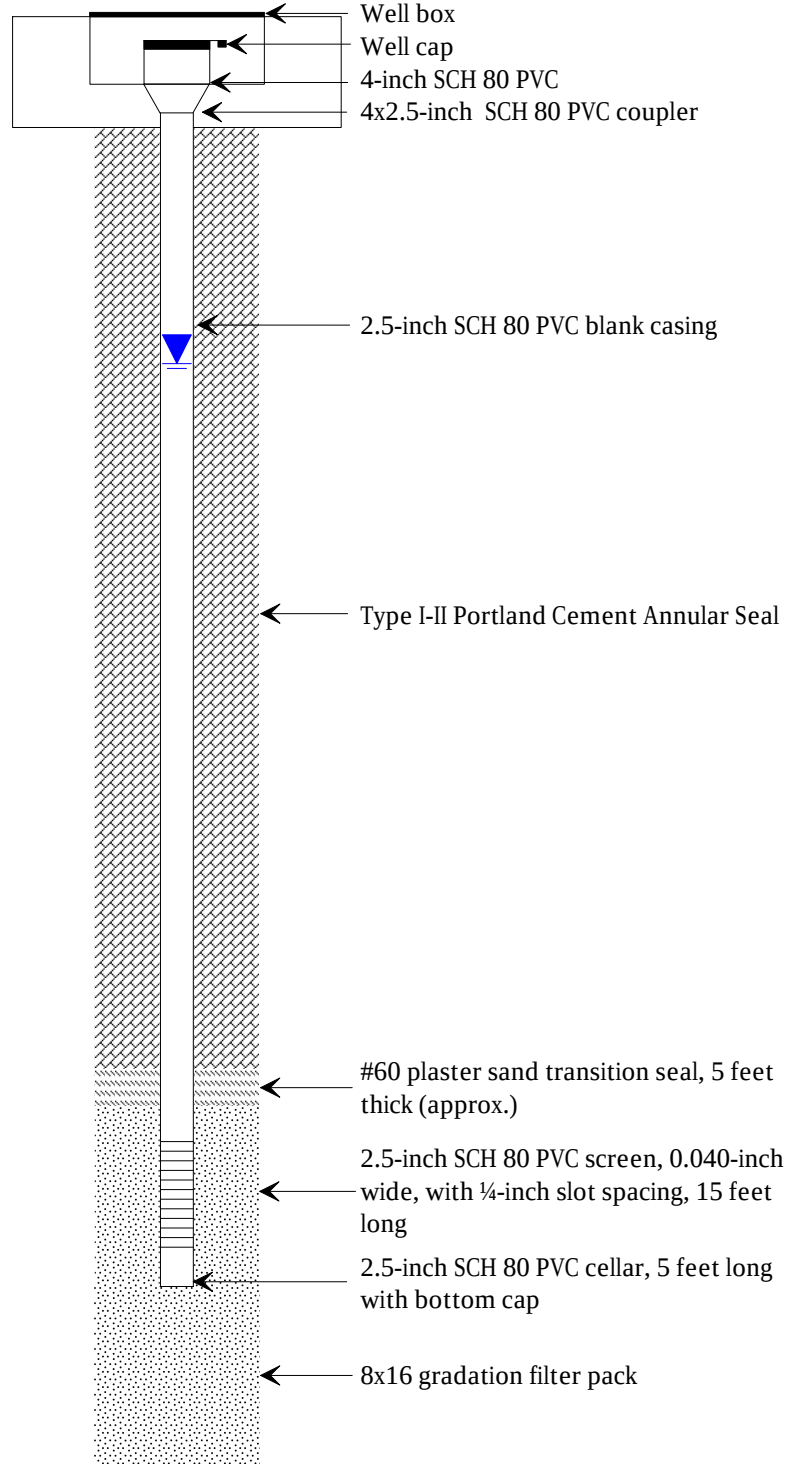
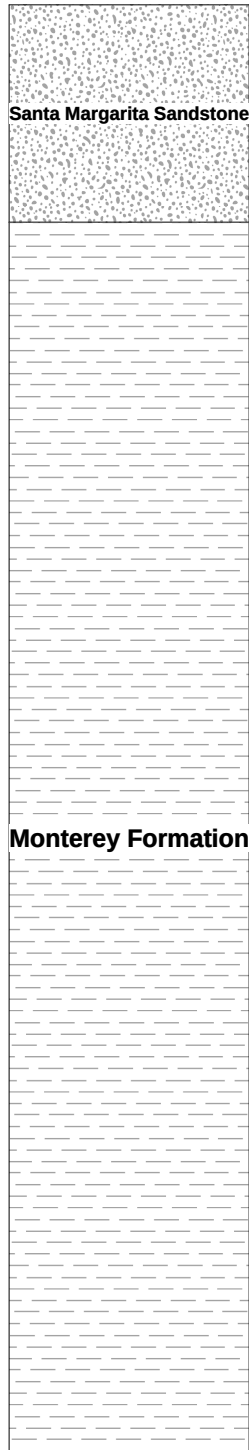
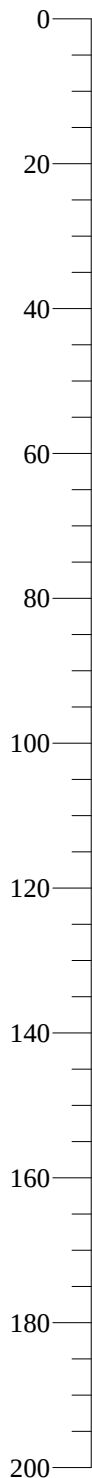
Driller: Geocentric Drilling Inc.
 Method: Rotosonic

DEPTH (FT BGS)

LITHOLOGY

WELL DIAGRAM

DESCRIPTION



State of California
Well Completion Report
Form DWR 188 Submitted 9/1/2023
WCR2023-009602

Owner's Well Number SMGWA-2 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP131 Permit Date 05/23/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>COUNTY OF SANTA CRUZ,</u>	Activity <u>New Well</u>
Mailing Address <u>701 OCEAN ST</u>	Planned Use <u>Monitoring</u>
City <u>SANTA CRUZ</u> State <u>CA</u> Zip <u>95060</u>	

Well Location									
Address <u>1900 BEAN CREEK RD</u>					APN _____				
City <u>SCOTTS VALLEY</u>		Zip <u>95066</u>		County <u>Santa Cruz</u>		Township <u>10 S</u>			
Latitude <u>37</u> <u>4</u> <u>5.5199</u> <u>N</u>		Longitude <u>-122</u> <u>0</u> <u>57.2399</u> <u>W</u>				Range <u>01 W</u>			
Deg. Min. Sec.		Deg. Min. Sec.				Section <u>18</u>			
Dec. Lat. <u>37.0682</u>		Dec. Long. <u>-122.0159</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 _____
	Water Level _____ (Feet) Date Measured _____
Total Depth of Boring <u>75</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
Total Depth of Completed Well <u>73</u> Feet	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	75	SANDS AND WEATHERED ROCK

State of California
Well Completion Report
Form DWR 188 Submitted 9/1/2023
WCR2023-009611

Owner's Well Number SMGWA-3 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP133 Permit Date 05/23/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>COUNTY OF SANTA CRUZ,</u>	Activity <u>New Well</u>
Mailing Address <u>701 OCEAN ST</u>	Planned Use <u>Monitoring</u>
City <u>SANTA CRUZ</u> State <u>CA</u> Zip <u>95060</u>	

Well Location									
Address <u>1524 NELSON RD</u>					APN _____				
City <u>SCOTTS VALLEY</u>		Zip <u>95066</u>		County <u>Santa Cruz</u>		Township <u>10 S</u>			
Latitude <u>37</u> <u>4</u> <u>6.2399</u> <u>N</u>		Longitude <u>-122</u> <u>1</u> <u>29.28</u> <u>W</u>				Range <u>02 W</u>			
Deg. Min. Sec.		Deg. Min. Sec.				Section <u>13</u>			
Dec. Lat. <u>37.0684</u>		Dec. Long. <u>-122.0248</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>Sonic</u> Drilling Fluid <u>Water</u>	Depth to Static _____
Total Depth of Boring <u>175</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>165</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	175	SANDS AND WEATHERED ROCK

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	145	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			
1	145	160	Screen	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875	Milled Slots	0.03	
1	160	165	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	130	Cement	Portland Cement/Neat Cement		
130	135	Other Fill	See description.	0/30	TRANSITIONAL SAND SEAL
135	175	Filter Pack	8 x 16		

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	175	7

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name <u>GEOCENTRIC DRILLING INC</u>				
Person, Firm or Corporation				
<u>140 Astoria Ct</u>		<u>Vacaville</u>	<u>CA</u>	<u>95687</u>
Address		City	State	Zip
Signed	<u>electronic signature received</u>	<u>09/01/2023</u>	<u>1073146</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 9/1/2023
WCR2023-009617

Owner's Well Number SMGWA-4 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP132 Permit Date 05/23/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>COUNTY OF SANTA CRUZ,</u>	Activity <u>New Well</u>
Mailing Address <u>701 OCEAN ST</u>	Planned Use <u>Monitoring</u>
City <u>SANTA CRUZ</u> State <u>CA</u> Zip <u>95060</u>	

Well Location	
Address <u>100 NELSON RD</u>	APN _____
City <u>SCOTTS VALLEY</u> Zip <u>95066</u> County <u>Santa Cruz</u>	Township <u>10 S</u>
Latitude <u>37</u> <u>3</u> <u>27.3257</u> <u>N</u> Longitude <u>-122</u> <u>1</u> <u>58.036</u> <u>W</u>	Range <u>02 W</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>13</u>
Dec. Lat. <u>37.0575905</u> Dec. Long. <u>-122.0327878</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>76.5</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>74</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	76.5	SANDS AND WEATHERED ROCK

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	54	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			
1	54	69	Screen	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875	Milled Slots	0.03	
1	69	74	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	44	Cement	Portland Cement/Neat Cement		
44	49	Other Fill	See description.	0/30	TRANSITIONAL SAND SEAL
49	76.5	Filter Pack	8 x 16		

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	76.5	7

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name

GEOCENTRIC DRILLING INC

Person, Firm or Corporation

140 Astoria Ct

Vacaville

CA

95687

Address

City

State

Zip

Signed

electronic signature received

09/01/2023

1073146

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 9/1/2023
WCR2023-009627

Owner's Well Number SMGWA-5 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP128 Permit Date 05/17/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SAN LORENZO VALLEY WATER DISTRICT,</u>	Activity <u>New Well</u>
Mailing Address <u>13060 CA-9</u>	Planned Use <u>Monitoring</u>
City <u>BOULDER CREEK</u> State <u>CA</u> Zip <u>95005</u>	

Well Location	
Address <u>290 BAHR DR</u>	APN _____
City <u>SCOTTS VALLEY</u> Zip <u>95005</u> County <u>Santa Cruz</u>	Township <u>10 S</u>
Latitude <u>37</u> <u>3</u> <u>54.5219</u> N Longitude <u>-122</u> <u>3</u> <u>52.9178</u> W	Range <u>02 W</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>15</u>
Dec. Lat. <u>37.065145</u> Dec. Long. <u>-122.0646994</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>Sonic</u> Drilling Fluid <u>Water</u>	Depth to Static _____
Total Depth of Boring <u>70</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>60</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	70	SANDS AND WEATHERED ROCK

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	40	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			
1	40	55	Screen	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875	Milled Slots	0.03	
1	55	60	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	30	Cement	Portland Cement/Neat Cement		
30	35	Other Fill	See description.	0/30	TRANSITIONAL SAND SEAL
35	70	Filter Pack	8 x 16		

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	70	7

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name	GEOCENTRIC DRILLING INC			
	Person, Firm or Corporation			
140 Astoria Ct	Vacaville	CA	95687	
Address	City	State	Zip	
Signed	electronic signature received	09/01/2023	1073146	
	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 9/5/2023
WCR2023-009647

Owner's Well Number SMGWA-6 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP134 Permit Date 06/20/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>COUNTY OF SANTA CRUZ,</u>	Activity <u>New Well</u>
Mailing Address <u>701 OCEAN ST</u>	Planned Use <u>Monitoring</u>
City <u>SANTA CRUZ</u> State <u>CA</u> Zip <u>95060</u>	

Well Location									
Address _____					APN <u>077-361-03</u>				
City _____		Zip _____		County <u>Santa Cruz</u>		Township <u>10 S</u>			
Latitude <u>37</u> <u>4</u> <u>57</u> <u>N</u>		Longitude <u>-122</u> <u>4</u> <u>29.6399</u> <u>W</u>		Range <u>02 W</u>		Section <u>10</u>			
Deg. Min. Sec.		Deg. Min. Sec.		Baseline Meridian <u>Mount Diablo</u>					
Dec. Lat. <u>37.0825</u>		Dec. Long. <u>-122.0749</u>		Ground Surface Elevation _____					
Vertical Datum _____		Horizontal Datum _____		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>Sonic</u> Drilling Fluid <u>Water</u>	Depth to Static _____
Total Depth of Boring <u>140</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>135</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	140	SANDS AND WEATHERED ROCK

State of California
Well Completion Report
Form DWR 188 Submitted 9/1/2023
WCR2023-009632

Owner's Well Number SMGWA-7 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP135 Permit Date 05/23/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SAN LORENZO VALLEY WATER DISTRICT,</u>	Activity <u>New Well</u>
Mailing Address <u>13060 CA-9</u>	Planned Use <u>Monitoring</u>
City <u>BOULDER CREEK</u> State <u>CA</u> Zip <u>95006</u>	

Well Location	
Address <u>10555 VINELAND RD</u>	APN _____
City <u>BEN LOMOND</u> Zip <u>95005</u> County <u>Santa Cruz</u>	Township <u>09 S</u>
Latitude <u>37</u> <u>6</u> <u>13.68</u> <u>N</u> Longitude <u>-122</u> <u>5</u> <u>9.2399</u> <u>W</u>	Range <u>02 W</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>33</u>
Dec. Lat. <u>37.1038</u> Dec. Long. <u>-122.0859</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>Sonic</u> Drilling Fluid <u>Water</u>	Depth to Static _____
Total Depth of Boring <u>185</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>183</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
0 185	SANDS AND WEATHERED ROCK

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	163	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			
1	163	178	Screen	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875	Milled Slots	0.03	
1	178	183	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	153	Cement	Portland Cement/Neat Cement		
153	158	Other Fill	See description.	0/30	TRANSITIONAL SAND SEAL
158	185	Filter Pack	8 x 16		

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	185	7

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name

GEOCENTRIC DRILLING INC

Person, Firm or Corporation

140 Astoria Ct

Vacaville

CA

95687

Address

City

State

Zip

Signed

electronic signature received

09/01/2023

1073146

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 9/1/2023
WCR2023-009634

Owner's Well Number SMGWA-8 Date Work Began 05/22/2023 Date Work Ended 08/15/2023
Local Permit Agency Environmental Health Services of Santa Cruz County
Secondary Permit Agency _____ Permit Number WP129 Permit Date 05/23/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>COUNTY OF SANTA CRUZ,</u>	Activity <u>New Well</u>
Mailing Address <u>701 OCEAN ST</u>	Planned Use <u>Monitoring</u>
City <u>SANTA CRUZ</u> State <u>CA</u> Zip <u>95060</u>	

Well Location									
Address _____					APN <u>07026156</u>				
City _____		Zip _____		County <u>Santa Cruz</u>		Township <u>10 S</u>			
Latitude <u>37</u> <u>3</u> <u>21.5999</u> <u>N</u>		Longitude <u>-122</u> <u>2</u> <u>24</u> <u>W</u>		Range <u>02 W</u>		Section <u>14</u>			
Deg. Min. Sec.		Deg. Min. Sec.		Baseline Meridian <u>Mount Diablo</u>					
Dec. Lat. <u>37.056</u>		Dec. Long. <u>-122.04</u>		Ground Surface Elevation _____					
Vertical Datum _____		Horizontal Datum _____		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>Sonic</u> Drilling Fluid <u>Water</u>	Depth to Static _____
Total Depth of Boring <u>200</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>175</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	200	SANDS AND WEATHERED ROCK

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	155	Blank	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			
1	155	170	Screen	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875	Milled Slots	0.03	
1	170	175	No Casing Installed	PVC	OD: 2.875 in. SDR: SCH 80 Thickness: 0.276 in.	0.276	2.875			

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	145	Cement	Portland Cement/Neat Cement		
145	150	Other Fill	See description.	0/30	TRANSITIONAL SAND SEAL
150	200	Filter Pack	8 x 16		

Other Observations:

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	200	7

Certification Statement				
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief				
Name	GEOCENTRIC DRILLING INC			
	Person, Firm or Corporation			
140 Astoria Ct	Vacaville	CA	95687	
Address	City	State	Zip	
Signed	electronic signature received	09/01/2023	1073146	
	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:														

SMGWA- 2 Bean Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Santa Margarita Sandstone: Light brown / tan sand, very fine - coarse grained, angular -rounded grains, very poorly sorted
5	10	Santa Margarita Sandstone: Light brown / tan sand, very fine - coarse grained, angular -rounded grains, very poorly sorted
10	15	Santa Margarita Sandstone: Light brown / tan sand, very fine - medium grained, subangular - rounded grains, poorly sorted
15	20	Santa Margarita Sandstone: Light brown / tan sand, very fine - medium grained, subangular - rounded grains, poorly sorted
20	25	Santa Margarita Sandstone: Light brown / tan sand, very fine - fine grained, subangular - rounded grains, moderately sorted
25	30	Santa Margarita Sandstone: Light brown / tan sand, very fine - fine grained, subangular - rounded grains, moderately sorted
30	35	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
35	40	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
40	45	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
45	50	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
50	55	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
55	60	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
60	65	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
65	70	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
70	75	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted
75	80	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, subrounded - rounded grains, well sorted

SMGWA-3 Ruins Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Hand Cleared to 5' , no sample
5	10	Santa Cruz Mudstone: Brown, loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, wet with inclusions of oxidized Santa Margarita Sandstone, very fine grained, unconsolidated and uncontinuous core
10	15	Santa Cruz Mudstone: Brown, loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, wet with inclusions of oxidized Santa Margarita Sandstone, very fine grained, unconsolidated and uncontinuous core
15	20	Santa Cruz Mudstone: Brown, loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, wet with inclusions of oxidized Santa Margarita Sandstone, very fine grained, unconsolidated and uncontinuous core
20	25	Santa Cruz Mudstone: Greyish Brown, loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, wet with inclusions of oxidized Santa Margarita Sandstone, very fine grained, unconsolidated and uncontinuous core
25	30	Santa Cruz Mudstone: Brown - greyish brown, loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, with inclusions of Santa Margrita Sandstone up to 2" , wet with black organics, very fine grained
30	35	Santa Cruz Mudstone: Brown - greyish brown, loosely consolidated mudstone, moderate - high plasticity, very soft, moderate severe - severe weathering, with inclusions of Santa Margrita Sandstone up to 1.5" , wet, very fine grained
35	40	Santa Cruz Mudstone: Brown - greyish brown, loosely consolidated mudstone, moderate - high plasticity, very soft, moderate severe - severe weathering, with inclusions of Santa Margrita Sandstone up to 1.5" , wet, very fine grained
40	45	Santa Cruz Mudstone: Greyish Brown, very loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, localized oxidation, some black organics with fragments of very fine grained consolidated mudstone
45	50	Santa Cruz Mudstone: Greyish Brown, very loosely consolidated mudstone, moderate - high plasticity, very soft, severe weathering, localized oxidation, some black organics with fragments of very fine grained consolidated mudstone
50	55	Santa Cruz Mudstone: Greyish brown, loosely consolidated, sandy mudstone / silt stone, moderate - high plasticity, very soft, moderate weathering, very small localized oxidation, very fine - fine grained, moist, with inclusions up to 1.5" of consolidated mudstone
55	60	Santa Margarita Sandstone: Tanish brown, unconsolidated, very fine - fine grained, very loose sand, slightly weathered, moist with localized bituminous areas, unconsolidated - slightly consolidated core with consolidated fragments of Santa Margarita Sandstone
60	65	Santa Margarita Sandstone: Tanish brown / white, unconsolidated - very loosely consolidated, very fine - fine grained, very loose sand, very slight - slight weathering, dry - moist, unconsolidated core
65	70	Santa Margarita Sandstone: Tanish brown / white, unconsolidated - very loosely consolidated, very fine - fine grained, very loose sand, very slight - slight weathering, dry - moist, unconsolidated core with localized bituminous areas
70	75	Santa Margarita Sandstone: Tanish brown / white, unconsolidated - very loosely consolidated, very fine - fine grained, very loose sand, very slight - slight weathering, dry - moist, unconsolidated core with localized bituminous areas
75	80	Santa Margarita Sandstone: Tanish brown - white, unconsolidated, very fine grained, very loose sand, very slight - slight weathering, dry, with very localized bituminous areas, unconsolidated core
80	85	Santa Margarita Sandstone: Tan - white, unconsolidated, very fine grained, very loose sand, fresh - very slight weathering, dry, unconsolidated core
85	90	Santa Margarita Sandstone: Tan - white, unconsolidated - very loosely consolidated, very fine grained, very loose - loose sand, fresh - very slight weathering, dry, unconsolidated core

SMGWA-3 Ruins Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
90	95	Santa Margarita Sandstone: Tan - white, unconsolidated - very loosely consolidated, very fine grained, very loose - loose sand, fresh - very slight weathering, dry, unconsolidated core
95	100	Santa Margarita Sandstone: White, unconsolidated - very loosely consolidated, fresh - very slight weathering, dry, unconsolidated core with localized bituminous areas
100	105	Santa Margarita Sandstone: White, unconsolidated - very loosely consolidated, fresh - very slight weathering, dry, unconsolidated core
105	110	Santa Margarita Sandstone: Tanish brown, very loosely - loosely consolidated, very fine grained, very loose - loose, wet, moderate - moderate severe weathering, localized oxidation, very loosely consolidated core
110	115	Santa Margarita Sandstone: Tanish brown, very loosely - loosely consolidated, very fine grained, very loose - loose, wet, moderate - moderate severe weathering, localized oxidation, very loosely consolidated core
115	120	Santa Margarita Sandstone: Tanish brown, very loosely - loosely consolidated, very fine grained, very loose - loose, wet, moderate - moderate severe weathering, localized oxidation, very loosely consolidated core
120	125	Santa Margarita Sandstone: Greyish tan, unconsolidated, very fine grained, very loose sand, extremely wet, saturated, moderate - moderate severe weathering, with localized bituminous areas, very loose unconsolidated core
125	130	Santa Margarita Sandstone: Greyish tan, unconsolidated, very fine grained, very loose, wet, severe - very severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
130	135	Santa Margarita Sandstone: Greyish tan, unconsolidated - very loosely consolidated, very fine grained, very loose, wet, severe - very severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
135	140	Santa Margarita Sandstone: Greyish tan, unconsolidated - very loosely consolidated, very fine grained, very loose, wet, severe - very severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
140	145	Santa Margarita Sandstone: Greyish tan, unconsolidated - very loosely consolidated, very fine grained, very loose, wet, severe - very severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
145	150	Santa Margarita Sandstone: Greyish tan, unconsolidated - very loosely consolidated, very fine grained, very loose, wet, severe - very severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
150	155	Santa Margarita Sandstone: tanish brown, unconsolidated, very fine grained, very loose, wet, moderate - moderate severe weathering with localized oxidation and bituminous areas, unconsolidated core
155	160	Santa Margarita Sandstone: Tanish brown, unconsolidated - very loosely consolidated, very fine grained, very loose - loose sand, wet, moderate - moderate severe weathering, localized oxidation and bituminous areas, very loose unconsolidated core
160	165	Santa Margarita Sandstone: Greyish brown / tan, unconsolidated - very loosely consolidated, very fine grained, very loose sand, wet, moderate weathering, minimal bituminous areas with areas of claylike alteration
165	170	Santa Margarita Sandstone: Greyish brown / tan, unconsolidated - very loosely consolidated, very fine grained, very loose sand, wet, moderate weathering, minimal bituminous areas with areas of claylike alteration
170	175	Santa Margarita Sandstone: Greyish brown / tan, unconsolidated - very loosely consolidated, very fine grained, very loose sand, wet, moderate weathering, minimal bituminous areas with areas of claylike alteration

SMGWA-4 Nelson Road

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Hand Clear to 5' , no sample
5	10	Santa Margarita Sandstone: Tanish brown / greyish, unconsolidated - very loosely consolidated, medium - fine grained, very loose - loose, dry, severe - very severe weathering, localized oxidation, unconsolidated core
10	15	Santa Margarita Sandstone: Grey / greyish tan, unconsolidated - very loosely consolidated, very fine - fine grained, very loose, wet, fresh - very slight weathering, unconsolidated core
15	20	Santa Margarita Sandstone: Cement grey, unconsolidated - very loosely consolidated core, very fine - fine grained, very loose, wet, slightly weathered, unconsolidated core
20	25	Santa Margarita Sandstone: Cement grey, unconsolidated - very loosely consolidated core, very fine - fine grained, very loose, wet, slightly weathered, unconsolidated core
25	30	Santa Margarita Sandstone: Cement grey, unconsolidated - very loosely consolidated core, very fine - fine grained, very loose, wet, slightly weathered, unconsolidated core
30	35	Santa Margarita Sandstone: Cement grey, unconsolidated, very fine grained, very loose, wet, fresh appearance, unconsolidated core
35	40	Santa Margarita Sandstone: Cement grey, unconsolidated, very fine grained, very loose, wet, fresh appearance, unconsolidated core
40	45	Santa Margarita Sandstone: Cement grey, unconsolidated, very fine grained, very loose, wet, fresh appearance, unconsolidated core

SMGWA-5 Bahr Drive

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Hand cleared first 5' , no sample
5	10	Santa Margarita Sandstone: Light brown / Tan, very loosely consolidated, very fine - fine grained, subrounded, very soft, dry, non-continuous core
10	15	Santa Margarita Sandstone: Tanish / white, very loosely consolidated, very fine - fine grained, subrounded, very soft, dry, non-continuous core, with minor localized oxidation
15	20	Santa Margarita Sandstone: Tanish / white, very loosely consolidated, very fine - fine grained, subrounded, very soft, dry, non-continuous core
20	25	Santa Margarita Sandstone: Tanish / white, very loosely consolidated, very fine - fine grained, subrounded, very soft dry, non-continuous core
25	30	Santa Margarita Sandstone: Whiteish grey, very loosely consolidated, very fine - fine grained, very soft, dry, non-continuous core
30	35	Santa Margarita Sandstone: Whiteish grey / tanish, very loosely consolidated, very fine - fine, subrounded, very soft, dry, non-continuous core with fragments up to 1/4"
35	40	Santa Margarita Sandstone: Light brown / Tan, loose - medium consolidation, very fine - fine grained, subrounded, soft, moist, non-continuous core
40	45	Santa Margarita Sandstone: brown - dark brown, very loosely consolidated, fine- medium grained, no pebble fragments, subrounded, very soft, wet, non-continuous core
45	48	Santa Margarita Sandstone: brownish red, loosely consolidated, fine - medium grained with fragments 1/4" - 5/8" , severely weathered, oxidized, wet, non continuous core.
48	55	Monterey Formation: Light - medium grey, medium stiff - stiff, very fine grained sandy siltstone, moist, semi-continuous core
55	60	Monterey Formation: Light - medium grey, medium stiff - stiff, very fine grained sandy siltstone, moist, semi-continuous core
60	65	Monterey Formation: Light - medium grey, medium stiff - stiff, very fine grained sandy siltstone, moist - wet, semi continuous core
65	70	Monterey Formation: Light - medium grey, medium stiff - stiff, very fine grained sandy siltstone, moist, semi-continuous core

SMGWA- 6 Quail Hollow

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Hand clear to 5', no sample
5	10	Santa Margarita Sandstone: Medium - dark brown sand, very fine grained, very soft, very slight - slight weathering, unconsolidated, very well sorted, sub rounded - rounded grains, dry
10	15	Santa Margarita Sandstone: Medium - dark brown / tan sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, sub rounded - rounded grains, dry
15	20	Santa Margarita Sandstone: Tan / light brown sand, very fine grained, very soft, fresh - very slight weathering, minor oxidation throughout, unconsolidated, very well sorted, rounded grains, dry
20	25	Santa Margarita Sandstone: Tan sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
25	30	Santa Margarita Sandstone: Tan Sand, very fine grained, very soft, fresh - very slight weathering, minor localized oxidation, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
30	35	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, very soft, fresh - very slight weathering, minor localized oxidation, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
35	40	Santa Margarita Sandstone: Tan sand, very fine grained, very soft, fresh - very slight weathering, moderate localized oxidation, unconsolidated - very loosely consolidated, very well sorted, rounded, dry
40	45	Santa Margarita Sandstone: White / tan sand, very fine grained, very soft, fresh - very slight weathering, minor oxidation throughout, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
45	50	Santa Margarita Sandstone: Tan sand, very fine grained, very soft, fresh, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
50	55	Santa Margarita Sandstone: Tan - brown sand, very fine grained, very soft, fresh - very slight weathering, minor localized oxidation, unconsolidated, very well sorted, rounded grains, dry
55	60	Santa Margarita Sandstone: Tan / white sand, very fine grained, very soft, fresh, unconsolidated - very loosely consolidated, very well sorted, rounded grains, dry
60	65	Santa Margarita Sandstone: Tan / white sand, very fine grained, very soft, fresh - very slight weathering, minor localized oxidation, unconsolidated - very loosely consolidated, very well sorted, rounded, dry
65	70	Santa Margarita Sandstone: Light - medium brown / tan sand, very fine grained, very soft, very slight - slight weathering, minor clay alteration, unconsolidated - very loosely consolidated, very well sorted, rounded grains, moist
70	75	Santa Margarita Sandstone: Medium brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet - saturated
75	80	Santa Margarita Sandstone: Medium brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet - saturated
80	85	Santa Margarita Sandstone: Medium brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet

SMGWA - 6 Quail Hollow

From (ft bgs)	To (ft bgs)	Lithologic Description
85	90	Santa Margarita Sandstone: Light brown / tan sand, very fine grained, very soft, very slight - slight weathering, minor localized oxidation, minor clay alteration, unconsolidated, very well sorted, rounded grains, wet
90	95	Santa Margarita Sandstone: Brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet - saturated
95	100	Santa Margarita Sandstone: Brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet
100	105	Santa Margarita Sandstone: Brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet
105	110	Santa Margarita Sandstone: Brown sand, very fine grained, very soft, very slightly weathered, minor localized clay alteration, unconsolidated, very well sorted, rounded grains, wet
110	115	Santa Margarita Sandstone: Greyish brown sand, very fine grained, very soft, slight - moderate weathering, moderate clay alteration throughout, minor oxidation throughout, unconsolidated, very well sorted, rounded grains, wet
115	120	Santa Margarita Sandstone: Greyish brown sand, very fine grained, very soft, fresh - very slight weathering, unconsolidated, very well sorted, rounded grains, wet
120	125	Santa Margarita Sandstone: Light grey sand, very fine grained, very soft, slight - moderate weathering, moderate clay alteration throughout, minor localized oxidation, unconsolidated, very well sorted, rounded grains, wet
125	130	Santa Margarita Sandstone: Light grey sand, very fine grained, very soft, very slight - slight weathering, minor clay alteration, minor localized oxidation, unconsolidated, very well sorted, rounded grains, wet
130	135	Santa Margarita Sandstone: Greyish brown sand, very fine grained, very soft, slight - moderate weathering, minor clay alteration throughout, moderate oxidation throughout, unconsolidated, very well sorted, rounded grains, wet
135	140	Santa Margarita Sandstone: Brown sand, very fine grained, very soft, very slight - slight weathering, unconsolidated, very well sorted, rounded grains, wet - saturated. Monterey Formation: Brown - black sandy siltstone, very fine grained, soft - medium hardness, moderate - moderate severe weathering, consolidated, dry - moist

SMGWA - 7 Love Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	No Sample, hand cleared
5	10	Top Soil: Brown mud / dirt, unconsolidated - very loosely consolidated, severe weathering, damp / moist, localized oxidation on fragments of Santa Margarita Sandstone, unconsolidated core
10	15	Top Soil: Brown mud / dirt, unconsolidated - very loosely consolidated, severe weathering, damp / moist, localized oxidation on fragments of Santa Margarita Sandstone, unconsolidated core
15	20	Top soil: Brown mud / dirt, very loose - moderately consolidated, severe weathering, soft - medium hardness, moist unconsolidated core
20	25	Monterey Formation: Cement grey - dark grey, sandy siltstone, very fine grained, moderate - moderate severe weathering, consolidated, medium stiff - stiff hardness, wet
25	30	Monterey Formation: Grey - dark grey, sandy siltstone, very fine grained, moderate - moderate severe weathering, areas of very loose consolidation an areas of unconsolidated materials, moist - wet / saturated around 25', semi continuous core, very loosely consolidated core
30	35	Monterey Formation: Light - medium grey, cement color, sandy siltstone, very fine grained, moderate - moderate severe weathering, very loosely consolidated - loosely consolidated, very loose / sodt, wet, very loosely consolidated core
35	40	Monterey Formation: Medium - dark grey, sandy siltstone, very fine grained, moderate severe - severe weathering, no fresh faces, unconsolidated - very loosely consolidated, soft - medium hardness, dry unconsolidated core
40	45	Monterey Formation: Medium - dark grey, siltstone with localized sandy areas, very fine grained, moderate - moderate severe weathering, few fresh faces, loosely - moderately consolidated, soft - medium hardness, dry, semi consolidated core
45	50	Monterey Formation: Greyish brown / cement, sandy siltstone, very fine grained, moderate severe - severe weathering, very soft - soft hardness, unconsolidated - loosely consolidated, clay present, high plasticity, dry - moist, unconsolidated core
50	55	Monterey Formation: Greenish grey / greyish brown, sandy siltstone, very fine grained, severe weathering, very soft - medium hardness, unconsolidated - semi consolidated, clay present, high plasticity, dry - wet, last 2' of core were saturated, unconsolidated core
55	60	Monterey Formation: Cement grey / brown, sandy siltstone, very fine grained, moderate - moderate severe weathering, unconsolidated - consolidated, very soft - medium hardness, dry-moist, semi consolidated core
60	65	Monterey Formation: Greenish grey / brown, siltstone, very fine grained, moderate - moderate severe weathering, very loosely consolidated - consolidated, very soft - medium hardness, dry - wet, semi consolidated core
65	70	Monterey Formation: Light grey siltstone, very fine grained, slightly weathered, unconsolidated - very loosely consolidated, soft hardness, dry, unconsolidated core
70	75	Monterey Formation: Light grey siltstone, very fine grained, slightly weathered, unconsolidated - very loosely consolidated, soft hardness, dry, unconsolidated core
75	80	Monterey Formation: Dark grey - black, siltstone, very fine grained, very slightly - slightly weathered, unconsolidated - very loosely consolidated, very soft - soft, moist, unconsolidated core
80	85	Monterey Formation: Dark grey - black, siltstone, very fine grained, slight - moderate weathering, loosely consolidated, very soft - soft hardness, dry, semi consolidated core with some high plasticity clay present

SMGWA-7 Love Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
85	90	Monterey Formation: Light - medium grey, siltstone, very fine grained, slight - moderate weathering, unconsolidated - consolidated, soft - medium hardness, dry, semi continuous core
90	95	Monterey Formation: Light - medium grey, cement, sandy siltstone, very fine grained, very slight - slight weathering, unconsolidated, very soft, dry, non continuous core
95	100	Monterey Formation: Light grey / cement, sand, very fine - fine grained, very slight - slight weathering, unconsolidated, very soft, dry, non continuous core
100	105	Monterey Formation: Greenish grey, sandy siltstone, very fine grained, moderate severe - severe weathering, unconsolidated - very loosely consolidated, very soft - soft hardness, wet / saturated, semi continuous core
105	110	Monterey Formation: Light - medium grey, siltstone, very fine grained, moderate weathering, unconsolidated - consolidated, soft - medium hardness, dry - moist, with areas of blueish grey clay
110	115	Monterey Formation: Light grey, greenish grey, siltstone, very fine grained, moderate moderate severe weathering, unconsolidated - very loosely consolidated, very soft - soft, dry - moist, semi continuous core
115	120	Monterey Formation: Light - medium grey, siltstone, very fine grained, moderate weathering, unconsolidated - consolidated, soft - medium hardness, dry - moist
120	125	Monterey Formation: Light - medium grey, siltstone, very fine grained, moderate weathering, unconsolidated - consolidated, soft - medium hardness, dry - moist
125	130	Monterey Formation: Grey / tan, greenish grey, siltstone, very fine grained, moderate - moderate severe weathering, unconsolidated - very loosely consolidated, very soft - hard, dry - wet, dry tan powdered core, wet greenish grey loosely consolidated core
130	135	Monterey Formation: Grey / tan, greenish grey, siltstone, very fine grained, moderate - moderate severe weathering, unconsolidated - very loosely consolidated, very soft - hard, dry - wet, dry tan powdered core, wet greenish grey loosely consolidated core
135	140	Monterey Formation: Light brown, siltstone, very fine grained, severe weathering, unconsolidated - consolidated, very soft - hard, wet / saturated, fragments of solid rock in a soupy clay
140	145	Monterey Formation: Greenish brown / greenish grey, siltstone, very fine grained, severe weathering, medium - moderately hard, wet, hard core with clays stuck to core
145	150	Monterey Formation: Greenish grey siltstone, very fine grained, moderate - moderate severe weathering, very soft - soft, dry- moist, unconsolidated - very loosely consolidated, semi continuous core
150	155	Monterey Formation: Greenish grey - grey siltstone, very fine grained, moderate - moderate severe weathering, very soft - soft, unconsolidated - very loosely consolidated, semi continuous core
155	160	Monterey Formation: Light brown, grey siltstone, very fine grained, slight - moderate weathering, loosely consolidated - consolidated, dry solid core, semi continuous core, moderate hard - hard
160	165	Monterey Formation: Light brown, grey siltstone, very fine grained, moderate - moderate severe weathering, loosely consolidated - consolidated, soft - hard, dry - moist, non continuous core
165	170	Monterey Formation: Greenish grey siltstone, very fine grained, moderate severe - severe weathering, soft - medium hardness, very loose clay - consolidated core, wet / saturated, semi continuous core

SMGWA - 7 Love Creek

From (ft bgs)	To (ft bgs)	Lithologic Description
170	175	Monterey Formation: Greenish grey / brown, siltstone, very fine grained, moderate - moderate severe weathering, loosely consolidated - consolidated, soft - medium hardness, dry - wet, semi continuous fragmented core
175	180	Monterey Formation: Greenish grey siltstone, very fine grained, moderate severe - severe weathering, loosely consolidated clay - consolidated core, soft clay - medium hard core, wet / saturated, semi continuous core
180	185	Monterey Formation: Greenish grey / brown siltstone, very fine grained, moderate - moderate severe weathering, loosely consolidated - consolidated, soft - medium hardness, dry - wet, semi continuous core

SMGWA-8 Randall Morgan Sandhills Preserve

From (ft bgs)	To (ft bgs)	Lithologic Description
0	5	Hand clear to 5', no sample
5	10	Santa Margarita Sandstone: Light brown - tan, unconsolidated - very loosely consolidated, very fine - fine grained, with pebbles and cobbles up to 1.5", very soft sand, dry, non continuous core
10	15	Santa Margarita Sandstone: Light brown - tan, unconsolidated - very loosely consolidated, very fine - fine grained, with pebbles and cobbles up to 1.5", very soft sand, dry, non continuous core
15	20	Santa Margarita Sandstone: Light brown - tan, unconsolidated - very loosely consolidated, very fine - fine grained, with pebbles and cobbles up to 1.5", very soft sand, dry, non continuous core
20	25	Santa Margarita Sandstone: Brown / tan, loose - moderate consolidation, very fine - fine grained, with pebbles up to 1/2", soft - medium sand, semi continuous core with localized oxidation
25	30	Santa Margarita Sandstone: Greyish brown, moderate consolidation, very fine grained - fine grained with pebbles. Monterey Formation: Dark grey - black, unconsolidated - semi consolidated siltstone, very fine grained, soft and friable, noncontinuous core with very slight weathering
30	35	Monterey Formation: Dark grey - black, semi consolidated siltstone, very fine grained, soft and friable, non continuous core, dry, fresh - very slight weathering
35	40	Monterey Formation: Dark grey - black, semi consolidated siltstone, very fine grained, soft and friable, non continuous core, dry, fresh - very slight weathering
40	45	Monterey Formation: Dark grey - black, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, dry, fresh appearance
45	50	Monterey Formation: Dark grey - black, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, dry, very slight weathering
50	55	Monterey Formation: Dark grey - black, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, dry, fresh - very slight weathering
55	60	Monterey Formation: Dark grey - black, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, dry, very slight weathering
60	65	Monterey Formation: Greenish grey, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, moist, slight - moderate weathering
65	70	Monterey Formation: Greenish grey / black, consolidated siltstone, very fine grained, medium stiff - stiff, fragmented core, dry, very slight - slight weathering
70	75	Monterey Formation: Grey - black, consolidated siltstone, very fine grained, stiff, semi continuous fragmented core, dry, very slight weathering
75	80	Monterey Formation: Grey - black, loose, semi consolidated siltstone, very fine grained, loose / friable, non continuous core, moist, slight - moderate weathering
80	85	Monterey Formation: Greenish grey, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, moist, slight - moderate weathering
85	90	Monterey Formation: Grey - black, semi consolidated siltstone, very fine grained, stiff, semi continuous core, dry - moist, slight weathering
90	95	Monterey Formation: Greenish Grey, consolidated siltstone, very fine grained, medium stiff - stiff, semi continuous core, dry - moist, slight weathering

SMGWA-8 Randall Morgan Sandhills Preserve

From (ft bgs)	To (ft bgs)	Lithologic Description
95	100	Monterey Formation: Grey - black, loose - unconsolidated siltstone, very fine grained, soft - medium stiff, unconsolidated non continuous core, moist with some wet muddy areas, moderate - moderate severe weathering
100	105	Monterey Formation: Grey - black, unconsolidated siltstone, very fine grained, medium stiff, slight weathering
105	110	Monterey Formation: Light grey cement color, unconsolidated - very loosely consolidated sandy siltstone, very soft, semi continuous core, wet, very fine - medium grained, slightly weathered
110	115	Monterey Formation: Grey - black, semi consolidated siltstone, very fine grained, medium stiff, semi continuous core, moist, slightly weathered
115	120	Monterey Formation: Grey - black, semi consolidated siltstone, very fine grained, soft - medium stiff, semi continuous core, moist, slight - moderate weathering
120	125	Monterey Formation: Medium - dark grey, semi consolidated sandy siltstone, very fine - fine grained, soft, semi continuous core, moist, slight - moderate weathering
125	130	Monterey Formation: Grey, semi consolidated siltstone, very fine grained, soft, continuous core, moist, slight - moderate weathering
130	135	Monterey Formation: Grey - greenish grey, moderately consolidated sandy siltstone very fine - fine grained, soft - medium stiff, moist, fresh - very slight weathering, semi continuous core
135	140	Monterey Formation: Light grey cement color, loosely consolidated sandy siltstone, dry - moist, slight - moderate weathering, fragmented - unconsolidated core
140	145	Monterey Formation: Grey - black, loose - unconsolidated siltstone, dry, moderate weathering, non continuous core
145	150	Monterey Formation: Greensih grey - black, semi consolidated siltstone, very fine grained, moist - wet, moderate - moderate severe weathering, non continuous core with chip fragments up to 1/2"
150	155	Monterey Formation: Greensih grey - black, semi consolidated siltstone, very fine grained, moist - wet, moderate - moderate severe weathering, non continuous core with chip fragments up to 5/16"
155	160	Monterey Formation: Greenish grey - grey, unconsolidated - very loosely consolidated siltstone, localized fissile layering, very soft - soft, very fine grained, slight - moderate weathering, moist - wet, non continuous ore
160	165	Monterey Formation: Grey, unconsolidated - very loosely consolidated siltstone, soft, wet, very fine grained, moderate - moderate severe weathering, uncontinuous fragmented core
165	170	Monterey Formation: Grey black, loose - unconsolidated siltstone, very fine grained, localized fissile texture, moist - wet, moderate - moderate severe weathering, non continuous core with chips up to 1/2"
170	175	Monterey Formation: Grey, unconsolidated siltstone, very fine grained, soft, dry, moderate weathering, non continuous core
175	180	Monterey Formation: Grey, unconsolidated siltstone, very fine grained, soft, dry, moderate weathering, non continuous core
180	185	Monterey Formation: Grey - black, unconsolidated siltstone, very fine grained, soft, moist, moderate weathering, non continuous core

SMGWA-8 Randall Morgan Sandhills Preserve

From (ft bgs)	To (ft bgs)	Lithologic Description
185	190	Monterey Formation: Grey 0 black, loosely consolidated siltstone, very fine grained, soft, moderate weathering, wet - moist, semi continuous core
190	195	Monterey Formation: Grey - black, emi consolidated siltstone, very fine grained, soft and friable, dry, fresh - very slight weathering, non continuous core
195	200	Monterey Formation: Grey - black, semi consolidated siltstone, very fine grained, medium stiff, dry, fresh - very slight weathering, semi continuous core



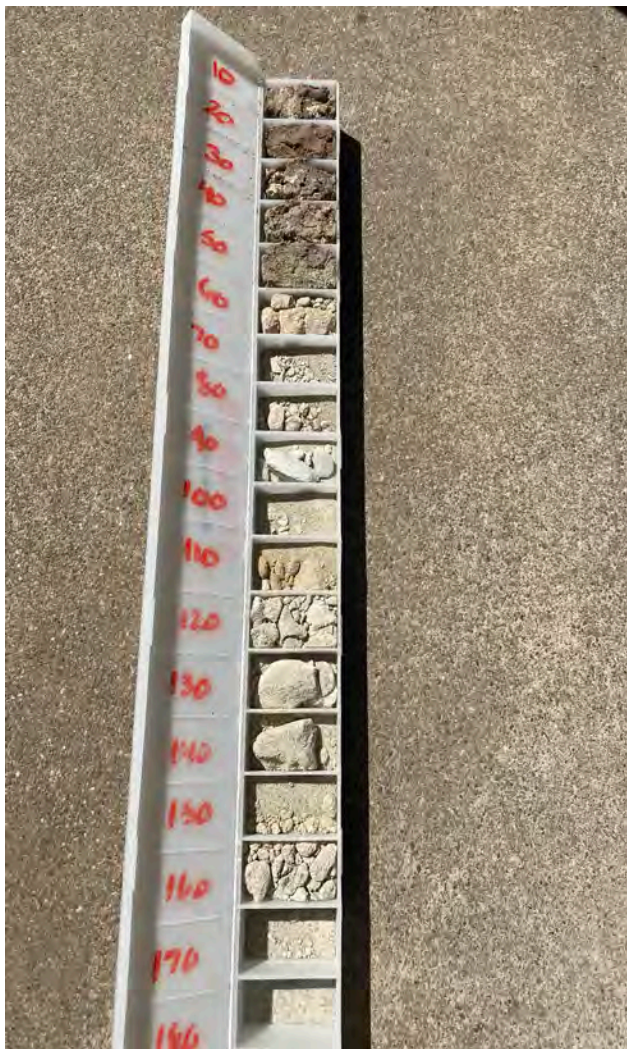
Appendix D

Photographic Log

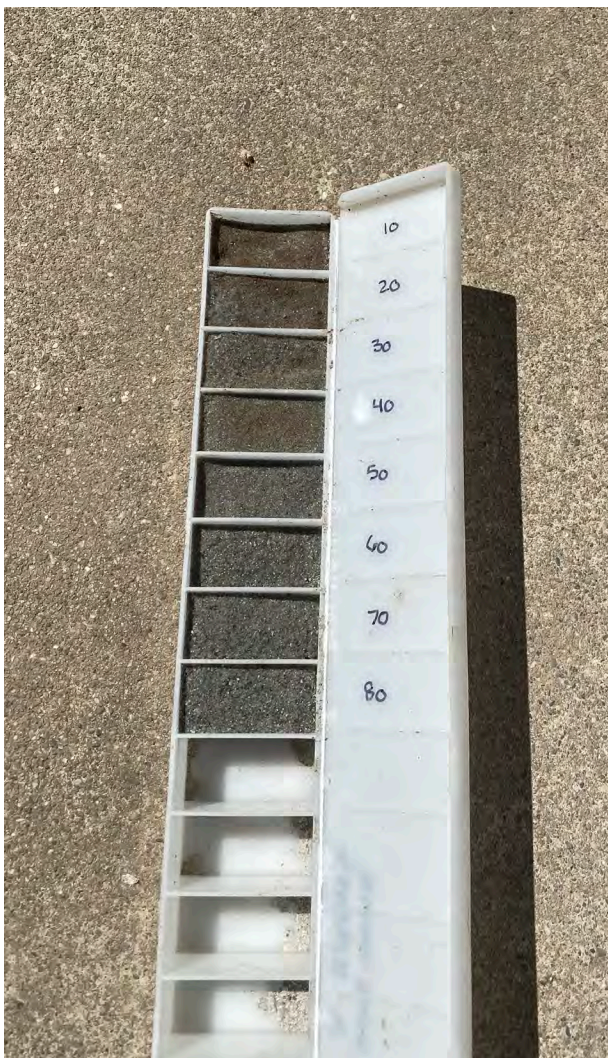
SMGMA-2 Bean Creek



SMGMA-3 Ruins Creek



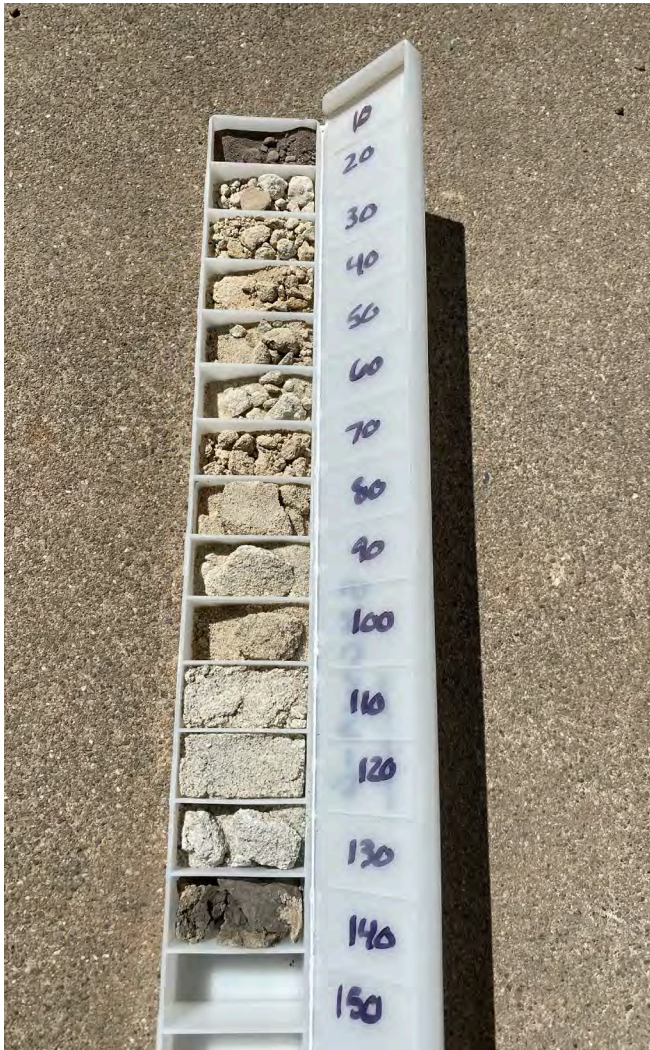
SMGMA-4 Nelson Road



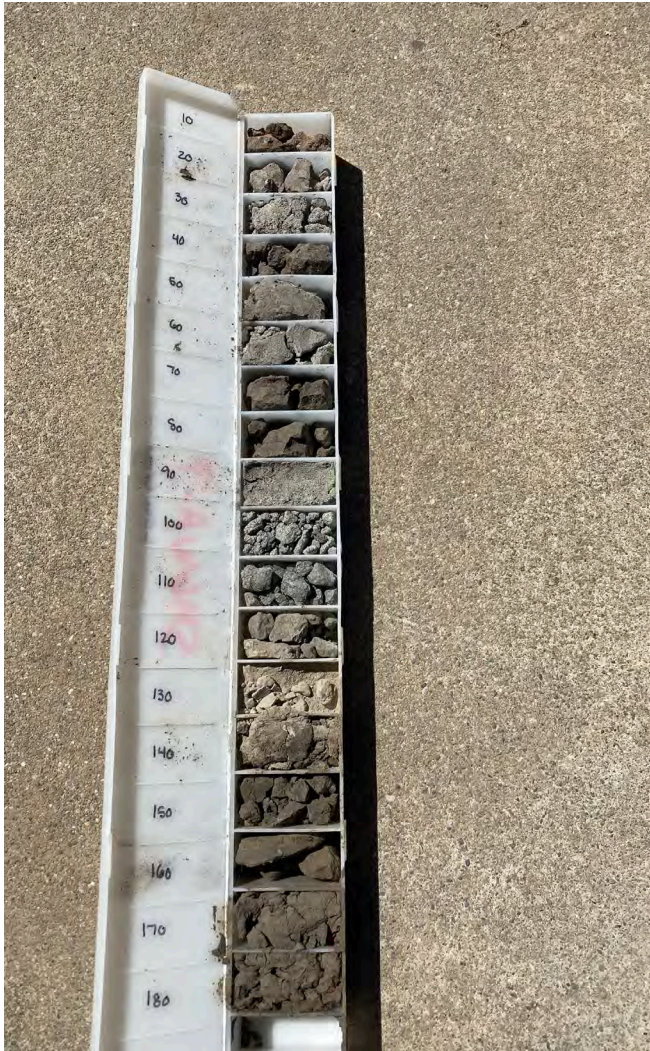
SMGMA-5 Bahr Drive



SGMA-6 Quail Hollow



SMGMA-7 Love Creek



SMGMA-8 Randall Morgan Sandhills





Appendix E

Development and Sampling Field Logs

Development Data Sheet *Bean Creek*

Client: *Montgomery*

Date: *8-18-23*



Well ID:

Well Diameter

1" 2" 3" 4" 5" 6" *2.5*

Depth to water:

52.4

Total Depth:

73' 3"

Length of Surging Time:

Bailing/ Pumping time:

Time	Temp	PH	Cond	Turbidity	D.O	ORP	Volume Removed	Notes
<i>09:30</i>								<i>Beaker</i>
<i>09:41</i>								<i>Surge</i>
<i>10:15</i>								<i>Beaker</i>
<i>11:17</i>								<i>Pump Start</i>
<i>11:24</i>	<i>17.24</i>	<i>8.46</i>	<i>0.741</i>	<i>1000</i>	<i>12.74</i>	<i>172</i>		
<i>11:32</i>	<i>17.07</i>	<i>8.41</i>	<i>0.745</i>	<i>1000</i>	<i>7.58</i>	<i>182</i>		
<i>11:40</i>	<i>16.92</i>	<i>8.40</i>	<i>0.736</i>	<i>1000</i>	<i>7.58</i>	<i>178</i>		
<i>11:48</i>	<i>16.76</i>	<i>8.37</i>	<i>0.723</i>	<i>1000</i>	<i>6.55</i>	<i>176</i>		
<i>11:56</i>	<i>16.79</i>	<i>8.31</i>	<i>0.717</i>	<i>1000</i>	<i>6.27</i>	<i>172</i>		
<i>12:04</i>	<i>16.90</i>	<i>8.29</i>	<i>0.711</i>	<i>764</i>	<i>6.13</i>	<i>173</i>		
<i>12:12</i>	<i>16.94</i>	<i>8.25</i>	<i>0.700</i>	<i>512</i>	<i>5.95</i>	<i>179</i>		
<i>12:20</i>	<i>17.02</i>	<i>8.20</i>	<i>0.694</i>	<i>378</i>	<i>5.62</i>	<i>181</i>		
<i>12:28</i>	<i>16.98</i>	<i>8.16</i>	<i>0.687</i>	<i>264</i>	<i>5.27</i>	<i>181</i>		
<i>12:36</i>	<i>17.11</i>	<i>8.13</i>	<i>0.681</i>	<i>221</i>	<i>4.97</i>	<i>183</i>		
<i>12:44</i>	<i>17.21</i>	<i>8.10</i>	<i>0.676</i>	<i>182</i>	<i>4.97</i>	<i>182</i>		
<i>12:52</i>	<i>17.16</i>	<i>8.08</i>	<i>0.665</i>	<i>161</i>	<i>4.99</i>	<i>183</i>		
<i>13:00</i>	<i>17.12</i>	<i>8.04</i>	<i>0.665</i>	<i>135</i>	<i>4.78</i>	<i>189</i>		
<i>13:08</i>	<i>17.22</i>	<i>8.02</i>	<i>0.654</i>	<i>118</i>	<i>5.17</i>	<i>190</i>		
<i>13:16</i>	<i>17.37</i>	<i>8.01</i>	<i>0.650</i>	<i>107</i>	<i>4.80</i>	<i>189</i>		
<i>13:24</i>	<i>17.30</i>	<i>8.02</i>	<i>0.646</i>	<i>100</i>	<i>4.82</i>	<i>191</i>		
<i>13:38</i>	<i>17.98</i>	<i>8.04</i>	<i>0.636</i>	<i>98.2</i>	<i>4.83</i>	<i>196</i>		
<i>13:46</i>								<i>Collect Sampler</i>
								<i>Pump Stop</i>

Did the well Develop?

Yes / No

Total Volume removed:

Formula Used

1" Wells
2" Wells
3" Wells
4" Wells
5" Wells
6" Wells

TD - DTW X .04
TD - DTW X .16
TD - DTW X .37
TD - DTW X .65
TD - DTW X 1.02
TD - DTW X 1.47



WELL IDENTIFIER: SMGWA-2 Bean Creek

Project No.:	Sampler: T. Dooley	Client:
Well ID: SMGWA-2 Bean Creek	Date: 09/21/23	Project Site:
Weather Conditions: Low 60's partly cloudy		Sampler Signature:
Well Diameter: 2.5 in.		Measuring Point Description: Top of casing
Well Depth (TD): ft	Prepumping DTW: 52.84	Measuring Point Height: 4" below surface
Pump Type: Monsoon Sub. pump	Pump Intake Depth:	Measuring Point Elevation:
Purge Method: ☐ 3 Casing Volumes ☐ Low Flow ☐ Bailed ☐ Evacuation & 80% Recovery ☐ Other: _____		
Multiplier (gal/ft): 3"=0.367 4"=0.653 5"=1.02 6"=1.469 8"=2.611		
1 Purge Volume = (TD-DTW) x Multiplier	80% Recovery DTW = [0.20 x (TD - Prepumping DTW)] + Prepumping DTW	
3 Purge Volumes= 3(TD-DTW) x Multiplier		

[illegible]

SAMPLING SUMMARY

Total Pumped: 127.5 gal	Sample Method: Grab	
Sample ID: SMGWA-2	Sample Date: 9/21/23	Sample Time: 11:30
Duplicate ID:	Lab:	No. of Bottles: 3
Analyses: ☐ Common ☐ Trace ☐ Radiochem ☐ VOCs ☐ SVOCs ☐ Pesticides ☐ Herbicides ☐ PCBs ☐ Other _____		

**GEOCENTRIC
DRILLING**

Date: 6-14-23

1" 2" 3" 4" 5" 6" 7. 5

Total Depth: 165'

Bailing/ Pumping time:

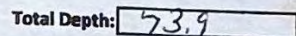
☒ Yes ☐ No

Total Volume removed:

1" Wells
2" Wells
3" Wells
4" Wells
5" Wells
6" Wells

TD - DTW X .04
TD - DTW X .16
TD - DTW X .37
TD - DTW X .65
TD - DTW X 1.02
TD - DTW X 1.47

Bailing/ Pumping time:



1	hr 12 min
---	-----------

TD - DTW X .04
TD - DTW X .16
TD - DTW X .37
TD - DTW X .65
TD - DTW X 1.02
TD - DTW X 1.47

TD - DTW X .04
TD - DTW X .16
TD - DTW X .37
TD - DTW X .65
TD - DTW X 1.02
TD - DTW X 1.47

Date: 8/21/23

Well Diameter

Lenght of Surging Time:

Bailing/ Pumping time:

1" 2" 3" 4" 5" 6" 2.5

1) **Depth to water:**

Total Depth: 135

Initial Tag 128

Pumping: $1 \frac{1}{4}$ gpm

[illegible]

Did the well Develop?

Yes / No

Total Volume removed: 220

Formula Used

1" Wells

TD - DTW X .04

2" Wells

TD - DTW X.16

3" Wells

TP - DTW X.37

4" Wells

TD-DTW X.65

5" Wells

TD-DTW X 1.02

6" Wells

TP - DTW X 1.47

Development Data Sheet Love Creek

Client: *Montgomery*

Date: *8-16-23 / 8-17-23*



Well ID:

Well Diameter

Length of Surging Time:

Bailing/ Pumping time:

1" 2" 3" 4" 5" 6" *2.5"* Depth to water: *Surf*

Total Depth: *182.9"*
167.9"

Time	Temp	PH	Cond	Turbidity	D.O	ORP	Volume Removed	Notes
<i>12:53</i>								<i>Reel</i>
<i>14:20</i>								<i>Surge</i>
<i>14:53</i>								<i>Reel</i>
<i>15:42</i>								<i>Teased Gull Bottom</i>
<i>15:45</i>								<i>Reel</i>
<i>09:08:45</i>								<i>Reel</i>
<i>09:54</i>								<i>Pump Start</i>
<i>10:11</i>	<i>16.80</i>	<i>7.59</i>	<i>2.34</i>	<i>1000</i>	<i>5.35</i>	<i>-28</i>	<i>10 Gal/min</i>	
<i>10:18</i>	<i>16.43</i>	<i>8.26</i>	<i>2.30</i>	<i>1000</i>	<i>63.6</i>	<i>-64</i>	<i>8 Gal/min</i>	
<i>10:26</i>	<i>16.35</i>	<i>8.26</i>	<i>2.25</i>	<i>1000</i>	<i>6.53</i>	<i>-47</i>	<i>8 Gal/min</i>	
<i>10:34</i>	<i>16.47</i>	<i>8.23</i>	<i>2.30</i>	<i>1000</i>	<i>6.51</i>	<i>-59</i>	<i>8 Gal/min</i>	
<i>10:42</i>							<i>8 Gal/min</i>	<i>Pump Adjust</i>
<i>10:45</i>	<i>16.69</i>	<i>8.22</i>	<i>2.28</i>	<i>1000</i>	<i>7.44</i>	<i>-63</i>	<i>4 Gal</i>	
<i>10:53</i>	<i>16.58</i>	<i>8.18</i>	<i>2.28</i>	<i>1000</i>	<i>5.93</i>	<i>-63</i>	<i>4 Gal</i>	
<i>11:01</i>	<i>16.65</i>	<i>8.17</i>	<i>2.29</i>	<i>1000</i>	<i>5.80</i>	<i>-74</i>	<i>4 Gal</i>	
<i>11:09</i>	<i>16.76</i>	<i>8.18</i>	<i>2.27</i>	<i>1000</i>	<i>7.96</i>	<i>-55</i>	<i>4 Gal</i>	
<i>11:17</i>	<i>16.80</i>	<i>8.18</i>	<i>2.30</i>	<i>1000</i>	<i>5.39</i>	<i>-80</i>	<i>4 Gal</i>	
<i>11:25</i>	<i>16.85</i>	<i>8.19</i>	<i>2.28</i>	<i>1000</i>	<i>5.27</i>	<i>-77</i>	<i>4 Gal</i>	
<i>11:33</i>	<i>17.10</i>	<i>8.21</i>	<i>2.27</i>	<i>1000</i>	<i>5.27</i>	<i>-52</i>	<i>4 Gal</i>	
<i>11:41</i>	<i>17.21</i>	<i>8.20</i>	<i>2.27</i>	<i>1000</i>	<i>7.24</i>	<i>-68</i>	<i>4 Gal</i>	
<i>11:49</i>	<i>17.29</i>	<i>8.17</i>	<i>2.28</i>	<i>1000</i>	<i>5.17</i>	<i>-84</i>	<i>4 Gal</i>	
<i>11:57</i>	<i>17.73</i>	<i>8.19</i>	<i>2.29</i>	<i>1000</i>	<i>5.12</i>	<i>-77</i>	<i>4 Gal</i>	
<i>12:05</i>	<i>18.05</i>	<i>8.20</i>	<i>2.28</i>	<i>1000</i>	<i>5.54</i>	<i>-74</i>	<i>4 Gal</i>	
<i>12:13</i>	<i>18.13</i>	<i>8.20</i>	<i>2.28</i>	<i>735</i>	<i>5.09</i>	<i>-88</i>	<i>4 Gal</i>	
<i>12:21</i>	<i>18.77</i>	<i>8.22</i>	<i>2.27</i>	<i>742</i>	<i>4.81</i>	<i>-66</i>	<i>4 Gal</i>	
<i>12:29</i>	<i>18.80</i>	<i>8.20</i>	<i>2.28</i>	<i>736</i>	<i>4.49</i>	<i>-66</i>	<i>4 Gal</i>	
<i>12:37</i>	<i>18.99</i>	<i>8.23</i>	<i>2.28</i>	<i>647</i>	<i>4.83</i>	<i>-66</i>	<i>3 Gal</i>	
<i>12:45</i>	<i>19.12</i>	<i>8.23</i>	<i>2.29</i>	<i>640</i>	<i>5.09</i>	<i>-72</i>	<i>3 Gal</i>	<i>Pump Adjustment</i>

Did the well Develop?

Yes / No

Total Volume removed:

Formula Used

1" Wells

TD - DTW X .04

2" Wells

TD - DTW X .16

3" Wells

TD - DTW X .37

4" Wells

TD - DTW X .65

5" Wells

TD - DTW X 1.02

6" Wells

TD - DTW X 1.47

Date: 8/23/23



Well ID: SMGWA-7 Love Creek

Well Diameter

Lenght of Surging Time:

Bailing/ Pumping time:

Depth to water: SURFACE

Total Depth: [illegible]

Did the well Develop?

Yes / ~~No~~

Total Volume removed: 170

Formula Used

1st Wells

TD-DTW X.04

2" Wells

TD - DTW X.16

3" Wells

TD - DTW X.37

4" Wells

TD - DTW X .65

5" Wells

TD - DTW X 1.02

6" Wells

TD - DTW X 1.47

Date: 9/8/23

Death to water:

Total Depth:

1" 2" 3" 4" 5" 6" 7.61"

10:37

[illegible]

Pump OFF @ 12:16

Yes / No

Total Volume removed:

25aa1

1^o Welts

TD-DTW X .04

2" Wells

TD-DTW X.36

3" Wells

TD-DTW X.37

4" Wells

TD-DTW X .65

5th Wells

TD-DTW X 1.02

6" Wells

TD-DTW X 147

Development Data Sheet

Client:

Date: 6-13-23

Well ID:

Well Diameter

Length of Surging Time:

Bailing/ Pumping time:

1" 2" 3" 4" 5" 6" 2.5"

Depth to water:

46.3

Total Depth:

174.3"



Time	Temp	PH	Cond	Turbidity	D.O	ORP	Volume Removed	Notes
10:17	—	—	—	—	—	—	—	Start Pump
11:12	—	—	—	—	—	—	—	Start Surging
11:38	—	—	—	—	—	—	—	Start Surging
12:30	—	—	—	—	—	—	—	Start Surging
13:36	—	—	—	—	—	—	—	Start Pump
13:40	21.92	—	—	—	—	—	—	Start Pump
13:56	21.42	10.51	1.14	1000	4.70	-41	7.2	
14:04	21.80	10.11	1.03	1000	2.35	-1	7.2	
14:12	21.48	9.63	1.16	1000	2.13	-14	7.2	
14:20	21.92	9.28	1.26	1000	2.93	-4	5.3	
14:28	22.30	9.04	1.33	1000	3.15	-5	5.3	
14:36	21.94	8.82	1.39	1000	2.81	-6	5.3	
14:46	21.71	8.76	1.42	1000	2.76	-13	5.3	
14:54	21.83	8.70	1.49	1000	2.27	-14	5.3	
15:02	22.31	8.71	1.49	1000	2.26	-13	5.3	
15:10	22.15	10.89	1.53	799	2.03	-182	5.3	
15:18	22.37	10.82	1.55	747	1.93	-158	5.2	
15:26	22.55	10.55	1.59	597	1.90	-100	5.2	
15:34	22.95	9.78	1.60	496	1.90	-196	5.2	
15:42	22.58	8.00	1.63	401	1.90	-28	5.2	
15:50	22.65	7.92	1.63	322	1.91	-33	5.2	
15:58	22.35	7.87	1.63	272	1.94	-34	5.2	
16:06	22.31	7.85	1.64	229	1.98	-21	5.2	
16:14	22.48	7.80	1.65	187	8.70	-45	5.1	
16:22	22.34	7.81	1.64	180	6.05	-50	5.1	
16:30	22.35	7.79	1.66	177	3.44	-40	5.1	
		7.74	1.64	164	2.08	-50	5.1	

Did the well Develop?

Yes / No

Total Volume removed:

Formula Used

1" Wells

2" Wells

3" Wells

4" Wells

5" Wells

6" Wells

TD - DTW X .04

TD - DTW X .16

TD - DTW X .37

TD - DTW X .65

TD - DTW X 1.02

TD - DTW X 1.47



Appendix F

Water Quality Laboratory Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Ross Albert
Scotts Valley Water District
2 Civic Center Drive
Scotts Valley, California 95066

Generated 10/3/2023 8:40:37 PM

JOB DESCRIPTION

Non-Compliance: Backwash, MWs

JOB NUMBER

380-64004-1

Eurofins Eaton Analytical Pomona

Job Notes

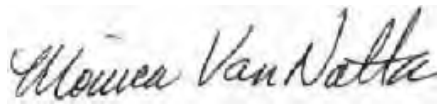
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



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10/3/2023 8:40:37 PM

Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Job ID: 380-64004-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-64004-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/22/2023 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-64004-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		1.0	mg/L	2		300.0	Total/NA
Nitrate as N	0.15		0.10	mg/L	2		300.0	Total/NA
Iron	0.25		0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2300		10	ug/L	5		200.8	Total Recoverable
Total Dissolved Solids	390		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-64004-1

Date Collected: 09/21/23 11:30

Matrix: Water

Date Received: 09/22/23 09:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	mg/L			09/23/23 02:04	2
Nitrate as N	0.15		0.10	mg/L			09/23/23 02:04	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.010	mg/L		09/29/23 08:18	09/29/23 19:16	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	ug/L		09/28/23 09:16	10/01/23 11:42	5
Manganese	2300		10	ug/L		09/28/23 09:16	10/01/23 11:42	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	390		20	mg/L			09/26/23 17:26	1

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-56716/4

Matrix: Water

Analysis Batch: 56716

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			09/22/23 11:26	1

Lab Sample ID: LCS 380-56716/7

Matrix: Water

Analysis Batch: 56716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.55		mg/L		102	90 - 110

Lab Sample ID: LCSD 380-56716/8

Matrix: Water

Analysis Batch: 56716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.55		mg/L		102	90 - 110	0	20

Lab Sample ID: MRL 380-56716/5

Matrix: Water

Analysis Batch: 56716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0129	J	mg/L		103	50 - 150

Lab Sample ID: MRL 380-56716/6

Matrix: Water

Analysis Batch: 56716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0483	J	mg/L		97	50 - 150

Lab Sample ID: MB 380-56717/4

Matrix: Water

Analysis Batch: 56717

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			09/22/23 11:26	1

Lab Sample ID: LCS 380-56717/7

Matrix: Water

Analysis Batch: 56717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.2		mg/L		105	90 - 110

Lab Sample ID: LCSD 380-56717/8

Matrix: Water

Analysis Batch: 56717

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	26.3		mg/L		105	90 - 110	0	20

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QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-56717/5

Matrix: Water

Analysis Batch: 56717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.123	J	mg/L		98	50 - 150

Lab Sample ID: MRL 380-56717/6

Matrix: Water

Analysis Batch: 56717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.426	J	mg/L		85	50 - 150

Lab Sample ID: MB 380-56723/4

Matrix: Water

Analysis Batch: 56723

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			09/22/23 22:24	1

Lab Sample ID: LCS 380-56723/7

Matrix: Water

Analysis Batch: 56723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.49		mg/L		99	90 - 110

Lab Sample ID: LCSD 380-56723/8

Matrix: Water

Analysis Batch: 56723

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.48		mg/L		99	90 - 110	0	20

Lab Sample ID: MRL 380-56723/5

Matrix: Water

Analysis Batch: 56723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0125	J	mg/L		100	50 - 150

Lab Sample ID: MRL 380-56723/6

Matrix: Water

Analysis Batch: 56723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0472	J	mg/L		94	50 - 150

Lab Sample ID: MB 380-56724/4

Matrix: Water

Analysis Batch: 56724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			09/22/23 22:24	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 380-56724/7

Matrix: Water

Analysis Batch: 56724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.6		mg/L		102	90 - 110

Lab Sample ID: LCSD 380-56724/8

Matrix: Water

Analysis Batch: 56724

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.6		mg/L		102	90 - 110	0	20

Lab Sample ID: MRL 380-56724/5

Matrix: Water

Analysis Batch: 56724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.137	J	mg/L		109	50 - 150

Lab Sample ID: MRL 380-56724/6

Matrix: Water

Analysis Batch: 56724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.460	J	mg/L		92	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-57415/1-A

Matrix: Water

Analysis Batch: 57661

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57415

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		09/29/23 08:18	09/29/23 18:59	1

Lab Sample ID: LCS 380-57415/3-A

Matrix: Water

Analysis Batch: 57661

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.86		mg/L		97	85 - 115

Lab Sample ID: LCSD 380-57415/4-A

Matrix: Water

Analysis Batch: 57661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 57415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.87		mg/L		97	85 - 115	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LLCS 380-57415/2-A
Matrix: Water
Analysis Batch: 57661

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 57415

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0100	0.00954	J	mg/L		95	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-57614/25
Matrix: Water
Analysis Batch: 57614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	ug/L			10/01/23 11:20	1
Manganese	ND		2.0	ug/L			10/01/23 11:20	1

Lab Sample ID: LLCS 380-57614/28
Matrix: Water
Analysis Batch: 57614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.977	J	ug/L		98	50 - 150
Manganese	2.00	2.04		ug/L		102	50 - 150

Lab Sample ID: MB 380-57234/1-A
Matrix: Water
Analysis Batch: 57505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 57234

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	ug/L		09/28/23 09:16	09/29/23 14:17	1
Manganese	ND		2.0	ug/L		09/28/23 09:16	09/29/23 14:17	1

Lab Sample ID: LCS 380-57234/3-A
Matrix: Water
Analysis Batch: 57505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 57234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.0	50.8		ug/L		102	85 - 115
Manganese	100	97.3		ug/L		97	85 - 115

Lab Sample ID: LCSD 380-57234/4-A
Matrix: Water
Analysis Batch: 57505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 57234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	50.0	51.9		ug/L		104	85 - 115	2	20
Manganese	100	101		ug/L		101	85 - 115	4	20

Lab Sample ID: LLCS 380-57234/2-A
Matrix: Water
Analysis Batch: 57505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 57234

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.780	J	ug/L		78	50 - 150

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QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 380-57234/2-A

Matrix: Water

Analysis Batch: 57505

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57234

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	2.01		ug/L		101	50 - 150

Lab Sample ID: 380-64004-1 MS

Matrix: Water

Analysis Batch: 57505

Client Sample ID: SMGWA-2 Bean Creek

Prep Type: Total Recoverable

Prep Batch: 57234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.3		50.0	54.0		ug/L		101	70 - 130
Manganese	2300		100	2440	4	ug/L		104	70 - 130

Lab Sample ID: 380-64004-1 MSD

Matrix: Water

Analysis Batch: 57505

Client Sample ID: SMGWA-2 Bean Creek

Prep Type: Total Recoverable

Prep Batch: 57234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.3		50.0	55.6		ug/L		104	70 - 130	3	20
Manganese	2300		100	2460	4	ug/L		116	70 - 130	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-57025/1

Matrix: Water

Analysis Batch: 57025

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			09/26/23 17:26	1

Lab Sample ID: HLCS 380-57025/5

Matrix: Water

Analysis Batch: 57025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	670		mg/L		96	80 - 114

Lab Sample ID: LCS 380-57025/4

Matrix: Water

Analysis Batch: 57025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	166		mg/L		95	80 - 114

Lab Sample ID: MRL 380-57025/2

Matrix: Water

Analysis Batch: 57025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-57025/3

Matrix: Water

Analysis Batch: 57025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

Lab Sample ID: 380-64004-1 DU

Matrix: Water

Analysis Batch: 57025

Client Sample ID: SMGWA-2 Bean Creek

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	390		390		mg/L		1	10

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

HPLC/IC

Analysis Batch: 56716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-56716/4	Method Blank	Total/NA	Water	300.0	
LCS 380-56716/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-56716/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-56716/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-56716/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 56717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-56717/4	Method Blank	Total/NA	Water	300.0	
LCS 380-56717/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-56717/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-56717/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-56717/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 56723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total/NA	Water	300.0	
MB 380-56723/4	Method Blank	Total/NA	Water	300.0	
LCS 380-56723/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-56723/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-56723/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-56723/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 56724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total/NA	Water	300.0	
MB 380-56724/4	Method Blank	Total/NA	Water	300.0	
LCS 380-56724/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-56724/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-56724/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-56724/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 57234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	
MB 380-57234/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-57234/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-57234/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-57234/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
380-64004-1 MS	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	
380-64004-1 MSD	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	

Prep Batch: 57415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total Recoverable	Water	200.7	
MB 380-57415/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 380-57415/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-57415/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 380-57415/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Metals

Analysis Batch: 57505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-57234/1-A	Method Blank	Total Recoverable	Water	200.8	57234
LCS 380-57234/3-A	Lab Control Sample	Total Recoverable	Water	200.8	57234
LCSD 380-57234/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	57234
LLCS 380-57234/2-A	Lab Control Sample	Total Recoverable	Water	200.8	57234
380-64004-1 MS	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	57234
380-64004-1 MSD	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	57234

Analysis Batch: 57614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total Recoverable	Water	200.8	57234
MB 380-57614/25	Method Blank	Total/NA	Water	200.8	
LLCS 380-57614/28	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 57661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total Recoverable	Water	200.7 Rev 4.4	57415
MB 380-57415/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	57415
LCS 380-57415/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57415
LCSD 380-57415/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	57415
LLCS 380-57415/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	57415

General Chemistry

Analysis Batch: 57025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-64004-1	SMGWA-2 Bean Creek	Total/NA	Water	SM 2540C	
MB 380-57025/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-57025/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-57025/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-57025/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-57025/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-64004-1 DU	SMGWA-2 Bean Creek	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Scotts Valley Water District

Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-64004-1

Date Collected: 09/21/23 11:30

Matrix: Water

Date Received: 09/22/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		2	56723	VB9B	EA POM	09/23/23 02:04
Total/NA	Analysis	300.0		2	56724	VB9B	EA POM	09/23/23 02:04
Total Recoverable	Prep	200.7			57415	Z45W	EA POM	09/29/23 08:18
Total Recoverable	Analysis	200.7 Rev 4.4		1	57661	T8RV	EA POM	09/29/23 19:16
Total Recoverable	Prep	200.8			57234	Z45W	EA POM	09/28/23 09:16
Total Recoverable	Analysis	200.8		5	57614	AAE8	EA POM	10/01/23 11:42
Total/NA	Analysis	SM 2540C		1	57025	UJRF	EA POM	09/26/23 17:26

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	06-18-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-64004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-64004-1	SMGWA-2 Bean Creek	Water	09/21/23 11:30	09/22/23 09:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Login Sample Receipt Checklist

Client: Scotts Valley Water District

Job Number: 380-64004-1

Login Number: 64004

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Ross Albert
Scotts Valley Water District
2 Civic Center Drive
Scotts Valley, California 95066

Generated 6/24/2023 12:22:46 AM

JOB DESCRIPTION

Non-Compliance: Backwash, MWs

JOB NUMBER

380-51229-1

Eurofins Eaton Analytical Pomona

Job Notes

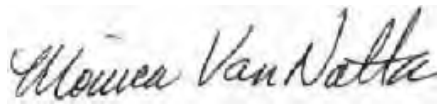
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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Generated
6/24/2023 12:22:46 AM

Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Analyte was found in the associated method blank.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Job ID: 380-51229-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-51229-1

Receipt

The sample was received on 6/15/2023 10:26 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Client Sample ID: SMGWA-3-06142023

Lab Sample ID: 380-51229-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		0.50	mg/L	1		300.0	Total/NA
Nitrate as N	0.31		0.050	mg/L	1		300.0	Total/NA
Iron	0.89	B	0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	370		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	250		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Client Sample ID: SMGWA-3-06142023

Lab Sample ID: 380-51229-1

Date Collected: 06/14/23 14:45

Matrix: Water

Date Received: 06/15/23 10:26

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		0.50	mg/L			06/15/23 20:23	1
Nitrate as N	0.31		0.050	mg/L			06/15/23 20:23	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.89	B	0.010	mg/L		06/20/23 08:07	06/21/23 18:41	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	370		2.0	ug/L		06/19/23 08:04	06/21/23 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	250		20	mg/L			06/19/23 21:49	1

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-44421/18

Matrix: Water

Analysis Batch: 44421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			06/15/23 14:19	1

Lab Sample ID: LCS 380-44421/21

Matrix: Water

Analysis Batch: 44421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.49		mg/L		99	90 - 110

Lab Sample ID: LCSD 380-44421/22

Matrix: Water

Analysis Batch: 44421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.49		mg/L		100	90 - 110	0	20

Lab Sample ID: MRL 380-44421/19

Matrix: Water

Analysis Batch: 44421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0136	J	mg/L		109	50 - 150

Lab Sample ID: MRL 380-44421/20

Matrix: Water

Analysis Batch: 44421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0489	J	mg/L		98	50 - 150

Lab Sample ID: MB 380-44422/18

Matrix: Water

Analysis Batch: 44422

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/15/23 14:19	1

Lab Sample ID: LCS 380-44422/21

Matrix: Water

Analysis Batch: 44422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 380-44422/22

Matrix: Water

Analysis Batch: 44422

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.9		mg/L		104	90 - 110	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-44422/19
Matrix: Water
Analysis Batch: 44422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.107	J	mg/L		86	50 - 150

Lab Sample ID: MRL 380-44422/20
Matrix: Water
Analysis Batch: 44422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.410	J	mg/L		82	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCS 380-44743/3-A
Matrix: Water
Analysis Batch: 44956

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.86		mg/L		97	85 - 115

Lab Sample ID: LCSD 380-44743/4-A
Matrix: Water
Analysis Batch: 44956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 44743

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.98		mg/L		100	85 - 115	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-44571/1-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		06/19/23 08:04	06/19/23 17:27	1

Lab Sample ID: MB 380-44571/1-A
Matrix: Water
Analysis Batch: 44922

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		06/19/23 08:04	06/21/23 13:45	1

Lab Sample ID: LCS 380-44571/3-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	102	90.9		ug/L		89	85 - 115

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 380-44571/3-A
Matrix: Water
Analysis Batch: 44922

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	100	100		ug/L		100	85 - 115

Lab Sample ID: LCSD 380-44571/4-A
Matrix: Water
Analysis Batch: 44922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	95.6		ug/L		96	85 - 115	5	20

Lab Sample ID: LLCS 380-44571/2-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	1.76	J	ug/L		88	50 - 150

Lab Sample ID: LLCS 380-44571/2-A
Matrix: Water
Analysis Batch: 44922

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44571

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	2.05		ug/L		102	50 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-44728/1
Matrix: Water
Analysis Batch: 44728

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			06/19/23 21:49	1

Lab Sample ID: HLCS 380-44728/5
Matrix: Water
Analysis Batch: 44728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	712		mg/L		102	80 - 114

Lab Sample ID: LCS 380-44728/4
Matrix: Water
Analysis Batch: 44728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	178		mg/L		102	80 - 114

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-44728/2

Matrix: Water

Analysis Batch: 44728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150

Lab Sample ID: MRL 380-44728/3

Matrix: Water

Analysis Batch: 44728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

HPLC/IC

Analysis Batch: 44421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total/NA	Water	300.0	
MB 380-44421/18	Method Blank	Total/NA	Water	300.0	
LCS 380-44421/21	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-44421/22	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-44421/19	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-44421/20	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 44422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total/NA	Water	300.0	
MB 380-44422/18	Method Blank	Total/NA	Water	300.0	
LCS 380-44422/21	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-44422/22	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-44422/19	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-44422/20	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 44571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total Recoverable	Water	200.8	
MB 380-44571/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-44571/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-44571/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-44571/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 44685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-44571/1-A	Method Blank	Total Recoverable	Water	200.8	44571
LCS 380-44571/3-A	Lab Control Sample	Total Recoverable	Water	200.8	44571
LLCS 380-44571/2-A	Lab Control Sample	Total Recoverable	Water	200.8	44571

Prep Batch: 44743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total Recoverable	Water	200.7	
LCS 380-44743/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-44743/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 44922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total Recoverable	Water	200.8	44571
MB 380-44571/1-A	Method Blank	Total Recoverable	Water	200.8	44571
LCS 380-44571/3-A	Lab Control Sample	Total Recoverable	Water	200.8	44571
LCSD 380-44571/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	44571
LLCS 380-44571/2-A	Lab Control Sample	Total Recoverable	Water	200.8	44571

Analysis Batch: 44956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total Recoverable	Water	200.7 Rev 4.4	44743
LCS 380-44743/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44743
LCSD 380-44743/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	44743

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

General Chemistry

Analysis Batch: 44728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51229-1	SMGWA-3-06142023	Total/NA	Water	SM 2540C	
MB 380-44728/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-44728/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-44728/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-44728/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-44728/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Client Sample ID: SMGWA-3-06142023

Lab Sample ID: 380-51229-1

Date Collected: 06/14/23 14:45

Matrix: Water

Date Received: 06/15/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	44421	VB9B	EA POM	06/15/23 20:23
Total/NA	Analysis	300.0		1	44422	VB9B	EA POM	06/15/23 20:23
Total Recoverable	Prep	200.7			44743	Z45W	EA POM	06/20/23 08:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	44956	T8RV	EA POM	06/21/23 18:41
Total Recoverable	Prep	200.8			44571	Z45W	EA POM	06/19/23 08:04
Total Recoverable	Analysis	200.8		1	44922	J9ZD	EA POM	06/21/23 14:51
Total/NA	Analysis	SM 2540C		1	44728	XLG4	EA POM	06/19/23 21:49

Laboratory References:
EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	02-01-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-51229-1	SMGWA-3-06142023	Water	06/14/23 14:45	06/15/23 10:26

1

2

3

4

5

6

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10

11

12

13

14

eurofins

[illegible]

Login Sample Receipt Checklist

Client: Scotts Valley Water District

Job Number: 380-51229-1

Login Number: 51229

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Ross Albert
Scotts Valley Water District
2 Civic Center Drive
Scotts Valley, California 95066

Generated 9/4/2023 10:13:56 PM

JOB DESCRIPTION

Non-Compliance: Backwash, MWs

JOB NUMBER

380-60098-1

Eurofins Eaton Analytical Pomona

Job Notes

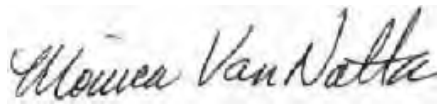
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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



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Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Job ID: 380-60098-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-60098-1

Receipt

The samples were received on 8/23/2023 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-60098-1

No Detections.

Client Sample ID: SMGWA-4 Nelson Road

Lab Sample ID: 380-60098-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		1.0	mg/L	2		300.0	Total/NA
Iron	0.38		0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	180		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	420		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-60098-1

Date Collected: 08/18/23 13:40

Matrix: Water

Date Received: 08/23/23 11:17

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (SM 4500 NO3E)	ND		0.10	mg/L			08/30/23 18:42	1

Client Sample ID: SMGWA-4 Nelson Road

Lab Sample ID: 380-60098-2

Date Collected: 08/22/23 10:40

Matrix: Water

Date Received: 08/23/23 11:17

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	mg/L			08/23/23 22:03	2
Nitrate as N	ND		0.10	mg/L			08/23/23 22:03	2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.38		0.010	mg/L		08/25/23 10:32	08/25/23 22:05	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	180		2.0	ug/L		08/25/23 11:43	08/29/23 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	420		20	mg/L			08/23/23 20:31	1

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-53086/4

Matrix: Water

Analysis Batch: 53086

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			08/23/23 13:28	1

Lab Sample ID: LCS 380-53086/7

Matrix: Water

Analysis Batch: 53086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: LCSD 380-53086/8

Matrix: Water

Analysis Batch: 53086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.46		mg/L		98	90 - 110	1	20

Lab Sample ID: MRL 380-53086/5

Matrix: Water

Analysis Batch: 53086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0123	J	mg/L		98	50 - 150

Lab Sample ID: MRL 380-53086/6

Matrix: Water

Analysis Batch: 53086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0489	J	mg/L		98	50 - 150

Lab Sample ID: MB 380-53087/4

Matrix: Water

Analysis Batch: 53087

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			08/23/23 13:28	1

Lab Sample ID: LCS 380-53087/7

Matrix: Water

Analysis Batch: 53087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.8		mg/L		103	90 - 110

Lab Sample ID: LCSD 380-53087/8

Matrix: Water

Analysis Batch: 53087

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.6		mg/L		102	90 - 110	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-53087/6

Matrix: Water

Analysis Batch: 53087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.425	J	mg/L		85	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-53217/1-A

Matrix: Water

Analysis Batch: 53346

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53217

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		08/25/23 10:32	08/25/23 21:42	1

Lab Sample ID: LCS 380-53217/3-A

Matrix: Water

Analysis Batch: 53346

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.80		mg/L		96	85 - 115

Lab Sample ID: LCSD 380-53217/4-A

Matrix: Water

Analysis Batch: 53346

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 53217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.85		mg/L		97	85 - 115	1	20

Lab Sample ID: LLCS 380-53217/2-A

Matrix: Water

Analysis Batch: 53346

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53217

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0100	0.00983	J	mg/L		98	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-53233/1-A

Matrix: Water

Analysis Batch: 53641

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		08/25/23 11:43	08/29/23 11:04	1

Lab Sample ID: LCS 380-53233/3-A

Matrix: Water

Analysis Batch: 53641

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	100	97.7		ug/L		98	85 - 115

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 380-53233/4-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	101		ug/L		101	85 - 115	3	20

Lab Sample ID: LLCS 380-53233/2-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	2.00	2.07		ug/L		103	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-52988/1
Matrix: Water
Analysis Batch: 52988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			08/23/23 20:31	1

Lab Sample ID: HLCS 380-52988/5
Matrix: Water
Analysis Batch: 52988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	700	700		mg/L		100	80 - 114		

Lab Sample ID: LCS 380-52988/4
Matrix: Water
Analysis Batch: 52988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	175	164		mg/L		94	80 - 114		

Lab Sample ID: MRL 380-52988/2
Matrix: Water
Analysis Batch: 52988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150		

Lab Sample ID: MRL 380-52988/3
Matrix: Water
Analysis Batch: 52988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150		

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Method: SM 4500 NO3E - Nitrogen, Nitrate

Lab Sample ID: MB 570-359838/5

Matrix: Water

Analysis Batch: 359838

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	mg/L			08/30/23 18:36	1

Lab Sample ID: LCS 570-359838/6

Matrix: Water

Analysis Batch: 359838

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.500	0.518		mg/L		104	80 - 116

Lab Sample ID: LCSD 570-359838/7

Matrix: Water

Analysis Batch: 359838

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.500	0.516		mg/L		103	80 - 116	0	13

Lab Sample ID: 380-60098-1 MS

Matrix: Water

Analysis Batch: 359838

Client Sample ID: SMGWA-2 Bean Creek

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND		0.500	0.577		mg/L		98	63 - 128

Lab Sample ID: 380-60098-1 MSD

Matrix: Water

Analysis Batch: 359838

Client Sample ID: SMGWA-2 Bean Creek

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		0.500	0.579		mg/L		98	63 - 128	0	11

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

HPLC/IC

Analysis Batch: 53086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total/NA	Water	300.0	
MB 380-53086/4	Method Blank	Total/NA	Water	300.0	
LCS 380-53086/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-53086/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-53086/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-53086/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 53087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total/NA	Water	300.0	
MB 380-53087/4	Method Blank	Total/NA	Water	300.0	
LCS 380-53087/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-53087/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-53087/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 53217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total Recoverable	Water	200.7	
MB 380-53217/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 380-53217/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-53217/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 380-53217/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 53233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total Recoverable	Water	200.8	
MB 380-53233/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-53233/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-53233/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-53233/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 53346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total Recoverable	Water	200.7 Rev 4.4	53217
MB 380-53217/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	53217
LCS 380-53217/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53217
LCSD 380-53217/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	53217
LLCS 380-53217/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	53217

Analysis Batch: 53641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total Recoverable	Water	200.8	53233
MB 380-53233/1-A	Method Blank	Total Recoverable	Water	200.8	53233
LCS 380-53233/3-A	Lab Control Sample	Total Recoverable	Water	200.8	53233
LCSD 380-53233/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	53233
LLCS 380-53233/2-A	Lab Control Sample	Total Recoverable	Water	200.8	53233

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

General Chemistry

Analysis Batch: 52988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-2	SMGWA-4 Nelson Road	Total/NA	Water	SM 2540C	
MB 380-52988/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-52988/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-52988/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-52988/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-52988/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 359838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-60098-1	SMGWA-2 Bean Creek	Total/NA	Water	SM 4500 NO3E	
MB 570-359838/5	Method Blank	Total/NA	Water	SM 4500 NO3E	
LCS 570-359838/6	Lab Control Sample	Total/NA	Water	SM 4500 NO3E	
LCSD 570-359838/7	Lab Control Sample Dup	Total/NA	Water	SM 4500 NO3E	
380-60098-1 MS	SMGWA-2 Bean Creek	Total/NA	Water	SM 4500 NO3E	
380-60098-1 MSD	SMGWA-2 Bean Creek	Total/NA	Water	SM 4500 NO3E	

Lab Chronicle

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Client Sample ID: SMGWA-2 Bean Creek

Lab Sample ID: 380-60098-1

Date Collected: 08/18/23 13:40

Matrix: Water

Date Received: 08/23/23 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 NO3E		1	359838	TXA8	EET CAL 4	08/30/23 18:42

Client Sample ID: SMGWA-4 Nelson Road

Lab Sample ID: 380-60098-2

Date Collected: 08/22/23 10:40

Matrix: Water

Date Received: 08/23/23 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		2	53086	VB9B	EA POM	08/23/23 22:03
Total/NA	Analysis	300.0		2	53087	VB9B	EA POM	08/23/23 22:03
Total Recoverable	Prep	200.7			53217	Z45W	EA POM	08/25/23 10:32
Total Recoverable	Analysis	200.7 Rev 4.4		1	53346	T8RV	EA POM	08/25/23 22:05
Total Recoverable	Prep	200.8			53233	Z45W	EA POM	08/25/23 11:43
Total Recoverable	Analysis	200.8		1	53641	J9ZD	EA POM	08/29/23 11:50
Total/NA	Analysis	SM 2540C		1	52988	UJRF	EA POM	08/23/23 20:31

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	06-18-25

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-23

Method Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
SM 4500 NO3E	Nitrogen, Nitrate	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-60098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-60098-1	SMGWA-2 Bean Creek	Water	08/18/23 13:40	08/23/23 11:17
380-60098-2	SMGWA-4 Nelson Road	Water	08/22/23 10:40	08/23/23 11:17

1

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Ver. 06/08/2021

Bottle Order Information

Bottle Order: Non-Compliance: MWs (Nitrate preserved)
Bottle Order #: 11145
Request From Client: 8/16/2023 11:07:15AM
Date Order Posted: 8/16/2023 11:07:15AM
Order Status: Ready To Process
Prepared By: Monica Van Natta
Deliver By Date: 8/16/2023 11:59:00PM
Lab Project Number: 38003867
PWSID:

Order Completion Information

Creator: Monica Van Natta
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
5	1	5	Plastic 250ml - with Sulfuric Acid	Sulfuric Acid	SM4500_NO3_E_28 - Nitrogen, Nitrate	Water	Normal		

Total Bottle Summary			Preservative		Bottle Count	
Bottle Type Description			Sulfuric Acid		5	
Plastic 250ml - with Sulfuric Acid					5	
			Total Bottles:		5	

Notes to Field Staff:



Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative

Sulfuric Acid

Comment

CAUTION! CONTAINS 1:1 SULFURIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #

9/4/2023

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Page 20 of 22

Login Sample Receipt Checklist

Client: Scotts Valley Water District

Job Number: 380-60098-1

Login Number: 60098

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez, Joseph G

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Scotts Valley Water District

Job Number: 380-60098-1

Login Number: 60098

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/24/23 03:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Kraig Mitchell
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, California 95006-9119

Generated 6/12/2023 10:18:53 PM

JOB DESCRIPTION

San Lorenzo-WELLS

JOB NUMBER

380-49210-1

Eurofins Eaton Analytical Pomona

Job Notes

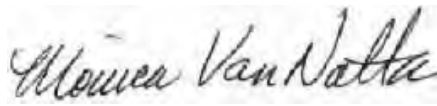
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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Generated
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Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Job ID: 380-49210-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-49210-1

Receipt

The sample was received on 5/31/2023 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Client Sample ID: 290 Bahr Dr.

Lab Sample ID: 380-49210-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39		0.50	mg/L	1		300.0	Total/NA
Nitrate as N	1.2		0.050	mg/L	1		300.0	Total/NA
Iron	1.9		0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	340		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	170		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Client Sample ID: 290 Bahr Dr.

Lab Sample ID: 380-49210-1

Date Collected: 05/30/23 14:50

Matrix: Water

Date Received: 05/31/23 09:20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		0.50	mg/L			05/31/23 22:33	1
Nitrate as N	1.2		0.050	mg/L			05/31/23 22:33	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9		0.010	mg/L		06/01/23 11:54	06/01/23 20:33	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	340		2.0	ug/L		06/01/23 10:15	06/02/23 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	170		20	mg/L			05/31/23 19:46	1

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-42328/4

Matrix: Water

Analysis Batch: 42328

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			05/31/23 11:15	1

Lab Sample ID: LCS 380-42328/7

Matrix: Water

Analysis Batch: 42328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.44		mg/L		98	90 - 110

Lab Sample ID: LCSD 380-42328/8

Matrix: Water

Analysis Batch: 42328

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.45		mg/L		98	90 - 110	0	20

Lab Sample ID: MRL 380-42328/5

Matrix: Water

Analysis Batch: 42328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0115	J	mg/L		92	50 - 150

Lab Sample ID: MRL 380-42328/6

Matrix: Water

Analysis Batch: 42328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0437	J	mg/L		87	50 - 150

Lab Sample ID: MB 380-42329/4

Matrix: Water

Analysis Batch: 42329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			05/31/23 11:15	1

Lab Sample ID: LCS 380-42329/7

Matrix: Water

Analysis Batch: 42329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.8		mg/L		99	90 - 110

Lab Sample ID: LCSD 380-42329/8

Matrix: Water

Analysis Batch: 42329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	24.8		mg/L		99	90 - 110	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-42329/5

Matrix: Water

Analysis Batch: 42329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.105	J	mg/L		84	50 - 150

Lab Sample ID: MRL 380-42329/6

Matrix: Water

Analysis Batch: 42329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.484	J	mg/L		97	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-42382/1-A

Matrix: Water

Analysis Batch: 42459

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 42382

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		06/01/23 11:54	06/01/23 20:22	1

Lab Sample ID: LCS 380-42382/3-A

Matrix: Water

Analysis Batch: 42459

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 42382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.98		mg/L		100	85 - 115

Lab Sample ID: LCSD 380-42382/4-A

Matrix: Water

Analysis Batch: 42459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 42382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	5.03		mg/L		101	85 - 115	1	20

Lab Sample ID: LLCS 380-42382/2-A

Matrix: Water

Analysis Batch: 42459

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 42382

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0100	0.00982	J	mg/L		98	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-42361/1-A

Matrix: Water

Analysis Batch: 42547

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 42361

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		06/01/23 10:15	06/02/23 10:44	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 380-42361/3-A

Matrix: Water

Analysis Batch: 42547

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 42361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	100	103		ug/L		103	85 - 115

Lab Sample ID: LCSD 380-42361/4-A

Matrix: Water

Analysis Batch: 42547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 42361

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	101		ug/L		101	85 - 115	2	20

Lab Sample ID: LLCS 380-42361/2-A

Matrix: Water

Analysis Batch: 42547

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 42361

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	1.95	J	ug/L		97	50 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-42300/1

Matrix: Water

Analysis Batch: 42300

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			05/31/23 19:46	1

Lab Sample ID: HLCS 380-42300/5

Matrix: Water

Analysis Batch: 42300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	702		mg/L		100	80 - 114

Lab Sample ID: LCS 380-42300/4

Matrix: Water

Analysis Batch: 42300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	198		mg/L		113	80 - 114

Lab Sample ID: MRL 380-42300/2

Matrix: Water

Analysis Batch: 42300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-42300/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 42300							
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

HPLC/IC

Analysis Batch: 42328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total/NA	Water	300.0	
MB 380-42328/4	Method Blank	Total/NA	Water	300.0	
LCS 380-42328/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-42328/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-42328/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-42328/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 42329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total/NA	Water	300.0	
MB 380-42329/4	Method Blank	Total/NA	Water	300.0	
LCS 380-42329/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-42329/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-42329/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-42329/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 42361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total Recoverable	Water	200.8	
MB 380-42361/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-42361/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-42361/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-42361/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 42382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total Recoverable	Water	200.7	
MB 380-42382/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 380-42382/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-42382/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 380-42382/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 42459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total Recoverable	Water	200.7 Rev 4.4	42382
MB 380-42382/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	42382
LCS 380-42382/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	42382
LCSD 380-42382/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	42382
LLCS 380-42382/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	42382

Analysis Batch: 42547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total Recoverable	Water	200.8	42361
MB 380-42361/1-A	Method Blank	Total Recoverable	Water	200.8	42361
LCS 380-42361/3-A	Lab Control Sample	Total Recoverable	Water	200.8	42361
LCSD 380-42361/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	42361
LLCS 380-42361/2-A	Lab Control Sample	Total Recoverable	Water	200.8	42361

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

General Chemistry

Analysis Batch: 42300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-49210-1	290 Bahr Dr.	Total/NA	Water	SM 2540C	
MB 380-42300/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-42300/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-42300/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-42300/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-42300/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Client Sample ID: 290 Bahr Dr.
Date Collected: 05/30/23 14:50
Date Received: 05/31/23 09:20

Lab Sample ID: 380-49210-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	42328	VB9B	EA POM	05/31/23 22:33
Total/NA	Analysis	300.0		1	42329	VB9B	EA POM	05/31/23 22:33
Total Recoverable	Prep	200.7			42382	Z45W	EA POM	06/01/23 11:54
Total Recoverable	Analysis	200.7 Rev 4.4		1	42459	T8RV	EA POM	06/01/23 20:33
Total Recoverable	Prep	200.8			42361	Z45W	EA POM	06/01/23 10:15
Total Recoverable	Analysis	200.8		1	42547	AAE8	EA POM	06/02/23 11:31
Total/NA	Analysis	SM 2540C		1	42300	XLG4	EA POM	05/31/23 19:46

Laboratory References:
EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	02-01-24

1
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14

Method Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-49210-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-49210-1	290 Bahr Dr.	Water	05/30/23 14:50	05/31/23 09:20

1

2

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Short Hold

Client Information Client Contact: Jesse Guiver Company: San Lorenzo Valley Water District Address: 195 Kirby Street City: Felton State, Zip: CA, 95018 Phone: 831-430-4629(Tel) Email: jguiver@slvwd.com Project Name: San Lorenzo-WELLS Site: California		Sample: Luis Mende2 Phone: (925) 984-4092 Lab PM: Van Natta, Monica E-Mail: Monica.VanNatta@et.eurofinsus.com State of Origin:		No: 34692-9236.1 Page: Page 1 of 1 Job #:							
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☐ No PO #: Purchase Order not required WO #: Project #: 38002151 SSOW#:		Analysis Requested									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	200.7, 200.8 2540C, Calcd - Total Dissolved Solids 300_OF_28D_PREC, 300_OF_48H_PREC	Total Number of containers	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	Special Instructions/Note:	
SMGWA Monitoring Well #1		5/30/23	1750	G	Water	X	X	X	X	Short Hold	
SMGWA Monitoring Well #2					Water						
SMGWA Monitoring Well #3					Water						
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months									
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



380-49210 COC

Shipping Order Form



Environment Testing



Eurofins Eaton Analytical Pomona

941 Corporate Center Drive

Pomona, CA 91768-2642

Phone (626) 386-1100

Shipping Order ID: 34692

Ship Via: FedEx

Due On: 5/30/2023 11:59:00PM

Ship To Information

Project Manager: Monica Van Natta

Tel: (559) 326-4396 Em: Monica.VanNatta@et.eurofinsus.com

Company Name: San Lorenzo Valley Water District

Attention: Jesse Guiver

Address 1: 195 Kirby Street

Address 2:

Address 3:

City: Felton

State: CA

Zip: 95018

Phone #: 831-430-4629

Project Ref: San Lorenzo-WELLS

Notes to Bottle/Shipping Department

Shipping Method: **Pack by sample set (affixed TALS labels)**

☒ Ready to Fill

☒ Preprinted COC

☐ 1 Number of COC Copies

☐ Seals on Bottle

☐ Seals on Coolers

☐ Priority

☒ Return Shipment Labels

☒ Prepaid Return

Eurofins Eaton Analytical Pomona

☐ Short Hold Times

☒ Temperature Control

☒ Rush

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Bottle: San Lorenzo-MWs SMGWA
Bottle Date: 9236
Request From: Orient. 5/26/2023
Date Order Posted: 5/26/2023 11:13:27AM
Order Status: Ready To Process
Prepared By: Monica Van Natta
Deliver By Date: 5/30/2023 11:59:00PM
Lab Project Number: 38002151
PWSID:

Order Completion

Creator: Monica
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
3	1	3	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - (MOD) Custom 200.8 - (MOD) Custom	Water Water	Normal Normal		
3	1	3	Plastic 500ml - unpreserved	None	2540C_Calcd - Total Dissolved Solids	Water	Normal		
3	1	3	Plastic 125mL - unpreserved	None	300_OF_28D_PREC - (MOD) Chloride and Sulfate 300_OF_4&H_PREC - Nitrate as N	Water Water	Normal Normal		

Total Bottle Summary

Bottle Type Description	Preservative	Bottle Count
Plastic 125mL - unpreserved	None	3
Plastic 500ml - unpreserved	None	3
Plastic 500ml - with Nitric Acid	Nitric Acid	3
Total Bottles:		9

Notes to Field Staff:



Scan QR code for field
sampler instructions

Health and Safety Notes:

Preservative	Comment
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #
						Seal #
						Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #
						Seal #
						Seal #

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: San Lorenzo Valley Water District

Job Number: 380-49210-1

Login Number: 49210

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Elyas, Matthew

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Kraig Mitchell
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, California 95006-9119

Generated 8/30/2023 8:47:25 AM

JOB DESCRIPTION

San Lorenzo-WELLS

JOB NUMBER

380-59896-1

Eurofins Eaton Analytical Pomona

Job Notes

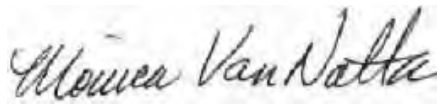
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Generated
8/30/2023 8:47:25 AM

Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Job ID: 380-59896-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-59896-1

Receipt

The sample was received on 8/22/2023 10:59 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Client Sample ID: SMGWA-6 Quail Hollow

Lab Sample ID: 380-59896-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.2		0.50	mg/L	1		300.0	Total/NA
Nitrate as N	0.45		0.050	mg/L	1		300.0	Total/NA
Iron	8.3		0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	380		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	120		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Client Sample ID: SMGWA-6 Quail Hollow

Lab Sample ID: 380-59896-1

Date Collected: 08/21/23 14:00

Matrix: Water

Date Received: 08/22/23 10:59

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.2		0.50	mg/L			08/22/23 18:48	1
Nitrate as N	0.45		0.050	mg/L			08/22/23 18:48	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.3		0.010	mg/L		08/23/23 12:04	08/23/23 20:01	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	380		2.0	ug/L		08/25/23 11:43	08/29/23 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	120		20	mg/L			08/23/23 20:03	1

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-52814/4

Matrix: Water

Analysis Batch: 52814

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			08/22/23 13:20	1

Lab Sample ID: LCS 380-52814/7

Matrix: Water

Analysis Batch: 52814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.46		mg/L		98	90 - 110

Lab Sample ID: LCSD 380-52814/8

Matrix: Water

Analysis Batch: 52814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.45		mg/L		98	90 - 110	0	20

Lab Sample ID: MRL 380-52814/5

Matrix: Water

Analysis Batch: 52814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0130	J	mg/L		104	50 - 150

Lab Sample ID: MRL 380-52814/6

Matrix: Water

Analysis Batch: 52814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0438	J	mg/L		88	50 - 150

Lab Sample ID: 380-59896-1 MS

Matrix: Water

Analysis Batch: 52814

Client Sample ID: SMGWA-6 Quail Hollow

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.45		1.25	1.69		mg/L		99	80 - 120

Lab Sample ID: 380-59896-1 MSD

Matrix: Water

Analysis Batch: 52814

Client Sample ID: SMGWA-6 Quail Hollow

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.45		1.25	1.69		mg/L		99	80 - 120	0	20

Lab Sample ID: MB 380-52815/4

Matrix: Water

Analysis Batch: 52815

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			08/22/23 13:20	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 380-52815/7

Matrix: Water

Analysis Batch: 52815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.6		mg/L		102	90 - 110

Lab Sample ID: LCSD 380-52815/8

Matrix: Water

Analysis Batch: 52815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.6		mg/L		102	90 - 110	0	20

Lab Sample ID: MRL 380-52815/5

Matrix: Water

Analysis Batch: 52815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.130	J	mg/L		104	50 - 150

Lab Sample ID: MRL 380-52815/6

Matrix: Water

Analysis Batch: 52815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.403	J	mg/L		81	50 - 150

Lab Sample ID: 380-59896-1 MS

Matrix: Water

Analysis Batch: 52815

Client Sample ID: SMGWA-6 Quail Hollow

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.2		12.5	19.6		mg/L		107	80 - 120

Lab Sample ID: 380-59896-1 MSD

Matrix: Water

Analysis Batch: 52815

Client Sample ID: SMGWA-6 Quail Hollow

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.2		12.5	19.7		mg/L		107	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-52912/1-A

Matrix: Water

Analysis Batch: 52987

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		08/23/23 12:04	08/23/23 19:33	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 380-52912/3-A
Matrix: Water
Analysis Batch: 52987

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 52912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.84		mg/L		97	85 - 115

Lab Sample ID: LCSD 380-52912/4-A
Matrix: Water
Analysis Batch: 52987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 52912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.82		mg/L		96	85 - 115	0	20

Lab Sample ID: LLCS 380-52912/2-A
Matrix: Water
Analysis Batch: 52987

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 52912

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0100	0.0105		mg/L		105	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-53233/1-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		08/25/23 11:43	08/29/23 11:04	1

Lab Sample ID: LCS 380-53233/3-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	100	97.7		ug/L		98	85 - 115

Lab Sample ID: LCSD 380-53233/4-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	101		ug/L		101	85 - 115	3	20

Lab Sample ID: LLCS 380-53233/2-A
Matrix: Water
Analysis Batch: 53641

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 53233

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	2.07		ug/L		103	50 - 150

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-52983/1

Matrix: Water

Analysis Batch: 52983

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			08/23/23 20:03	1

Lab Sample ID: HLCS 380-52983/5

Matrix: Water

Analysis Batch: 52983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	720		mg/L		103	80 - 114

Lab Sample ID: LCS 380-52983/4

Matrix: Water

Analysis Batch: 52983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	164		mg/L		94	80 - 114

Lab Sample ID: MRL 380-52983/2

Matrix: Water

Analysis Batch: 52983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	11.0		mg/L		110	50 - 150

Lab Sample ID: MRL 380-52983/3

Matrix: Water

Analysis Batch: 52983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

HPLC/IC

Analysis Batch: 52814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	
MB 380-52814/4	Method Blank	Total/NA	Water	300.0	
LCS 380-52814/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-52814/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-52814/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-52814/6	Lab Control Sample	Total/NA	Water	300.0	
380-59896-1 MS	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	
380-59896-1 MSD	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	

Analysis Batch: 52815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	
MB 380-52815/4	Method Blank	Total/NA	Water	300.0	
LCS 380-52815/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-52815/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-52815/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-52815/6	Lab Control Sample	Total/NA	Water	300.0	
380-59896-1 MS	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	
380-59896-1 MSD	SMGWA-6 Quail Hollow	Total/NA	Water	300.0	

Metals

Prep Batch: 52912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total Recoverable	Water	200.7	
MB 380-52912/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 380-52912/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-52912/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 380-52912/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 52987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total Recoverable	Water	200.7 Rev 4.4	52912
MB 380-52912/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	52912
LCS 380-52912/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52912
LCSD 380-52912/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	52912
LLCS 380-52912/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	52912

Prep Batch: 53233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total Recoverable	Water	200.8	
MB 380-53233/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-53233/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-53233/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-53233/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 53641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total Recoverable	Water	200.8	53233
MB 380-53233/1-A	Method Blank	Total Recoverable	Water	200.8	53233
LCS 380-53233/3-A	Lab Control Sample	Total Recoverable	Water	200.8	53233

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Metals (Continued)

Analysis Batch: 53641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 380-53233/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	53233
LLCS 380-53233/2-A	Lab Control Sample	Total Recoverable	Water	200.8	53233

General Chemistry

Analysis Batch: 52983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-59896-1	SMGWA-6 Quail Hollow	Total/NA	Water	SM 2540C	
MB 380-52983/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-52983/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-52983/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-52983/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-52983/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Client Sample ID: SMGWA-6 Quail Hollow
Date Collected: 08/21/23 14:00
Date Received: 08/22/23 10:59

Lab Sample ID: 380-59896-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	52814	VB9B	EA POM	08/22/23 18:48
Total/NA	Analysis	300.0		1	52815	VB9B	EA POM	08/22/23 18:48
Total Recoverable	Prep	200.7			52912	Z45W	EA POM	08/23/23 12:04
Total Recoverable	Analysis	200.7 Rev 4.4		1	52987	T8RV	EA POM	08/23/23 20:01
Total Recoverable	Prep	200.8			53233	Z45W	EA POM	08/25/23 11:43
Total Recoverable	Analysis	200.8		1	53641	J9ZD	EA POM	08/29/23 11:48
Total/NA	Analysis	SM 2540C		1	52983	UJRF	EA POM	08/23/23 20:03

Laboratory References:
EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	06-18-25

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Method Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-59896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-59896-1	SMGWA-6 Quail Hollow	Water	08/21/23 14:00	08/22/23 10:59

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Client Information Client Contact: Jesse Guiver Company: San Lorenzo Valley Water District Address: 195 Kirby Street City: Felton State, Zip: CA, 95018 Phone: 831-430-4629 (Tel) Email: jguiver@slvwd.com Project Name: San Lorenzo-WELLS Site: California		Sampler: Tim Dooley Phone: 408-888-0461 Lab PM: Van Natta, Monica E-Mail: Monica.VanNatta@eurofins.com State of Origin:		COC No: 380-34692-9236 1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Standard Compliance Project: ☐ Yes ☐ No PO #: Purchase Order not required Project #: 38002151 SSOW#:		Analysis Requested			
Sample Identification Sample Date: 8/21/23 14:00 Sample Time: 14:00 Sample Type (C=Comp, G=grab): G Matrix (W=Water, S=solid, O=organic, A=Allyl, B=Butane, A=Allyl) Preservation Code:		Field Filtered Sample (Yes or No) ☒ Perform MS/MSD (Yes or No) ☒ 200.7, 200.8 2540C_Calcd - Total Dissolved Solids 300_OF_28D_PREC, 300_OF_48H_PREC			
SMCWA Monitoring Well #1 SMCWA Monitoring Well #2 SMCWA Monitoring Well #3		Total Number of containers: ☒ Special Instructions/Note: Short Lead			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date: _____ Time: _____ Method of Shipment: _____			
Relinquished by: <i>Tim Dooley</i> Date/Time: 8/21/23 14:25 Company: SMCWA		Received by: <i>Monica Van Natta</i> Date/Time: 8/21/23 14:25 Company: SMCWA			
Relinquished by: <i>Monica Van Natta</i> Date/Time: 8/21/23 15:15 Company: SMCWA		Received by: <i>Monica Van Natta</i> Date/Time: 8/21/23 15:15 Company: SMCWA			
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: 618A 5.8-0.2-5.5A 3.0V			

Order Completed

EC
Bottle # 9236
Requester: ent. 5/26/2023
Date Order Posted: 5/26/2023 11:13:27AM
Order Status: Ready To Process
Prepared By: Monica Van Natta
Deliver By Date: 5/30/2023 11:59:00PM
Lab Project Number: 38002151
PWSID:

Creator: Monica
Filled by:
Sent Date:
Sent Via:
Tracking #:

Seis	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
3	1	3	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - (MOD) Custom 200.8 - (MOD) Custom	Water Water	Normal Normal		
3	1	3	Plastic 500ml - unpreserved	None	2540C_Calcd - Total Dissolved Solids	Water	Normal		
3	1	3	Plastic 125ml - unpreserved	None	300_OF_28D_PREC - (MOD) Chloride and Sulfate 300_OF_48H_PREC - Nitrate as N	Water Water	Normal Normal		

Total Bottle Summary	
Bottle Type Description	Bottle Count
Plastic 125ml - unpreserved	3
Plastic 500ml - unpreserved	3
Plastic 500ml - with Nitric Acid	3
Total Bottles: 9	

Notes to Field Staff:

Health and Safety Notes:

Preservative

Comment

Nitric Acid

CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Scan QR code for field sampler instructions

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: San Lorenzo Valley Water District

Job Number: 380-59896-1

Login Number: 59896

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez, Joseph G

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Kraig Mitchell
San Lorenzo Valley Water District
13060 Highway 9
Boulder Creek, California 95006-9119

Generated 9/28/2023 11:47:36 PM

JOB DESCRIPTION

San Lorenzo-WELLS

JOB NUMBER

380-62181-1

Eurofins Eaton Analytical Pomona

Job Notes

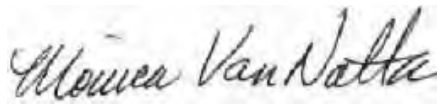
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Generated
9/28/2023 11:47:36 PM

Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Job ID: 380-62181-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-62181-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/9/2023 9:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Client Sample ID: SMGWA Monitoring Well #3 Love Creek

Lab Sample ID: 380-62181-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45		2.5	mg/L	5		300.0	Total/NA
Iron	1.1		0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	28		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	1300		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Client Sample ID: SMGWA Monitoring Well #3 Love Creek

Lab Sample ID: 380-62181-1

Date Collected: 09/08/23 12:15

Matrix: Water

Date Received: 09/09/23 09:45

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		2.5	mg/L			09/09/23 16:24	5
Nitrate as N	ND		0.25	mg/L			09/09/23 16:24	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		0.010	mg/L		09/27/23 13:30	09/28/23 14:06	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	28		2.0	ug/L		09/27/23 14:30	09/28/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		20	mg/L			09/12/23 18:02	1

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-55098/4

Matrix: Water

Analysis Batch: 55098

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			09/09/23 13:48	1

Lab Sample ID: LCS 380-55098/7

Matrix: Water

Analysis Batch: 55098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-55098/8

Matrix: Water

Analysis Batch: 55098

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.53		mg/L		101	90 - 110	0	20

Lab Sample ID: MRL 380-55098/5

Matrix: Water

Analysis Batch: 55098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0143	J	mg/L		115	50 - 150

Lab Sample ID: MRL 380-55098/6

Matrix: Water

Analysis Batch: 55098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0569		mg/L		114	50 - 150

Lab Sample ID: MB 380-55099/4

Matrix: Water

Analysis Batch: 55099

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			09/09/23 13:48	1

Lab Sample ID: LCS 380-55099/7

Matrix: Water

Analysis Batch: 55099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.3		mg/L		105	90 - 110

Lab Sample ID: LCSD 380-55099/8

Matrix: Water

Analysis Batch: 55099

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	26.2		mg/L		105	90 - 110	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-55099/5

Matrix: Water

Analysis Batch: 55099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.184	J	mg/L		147	50 - 150

Lab Sample ID: MRL 380-55099/6

Matrix: Water

Analysis Batch: 55099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.456	J	mg/L		91	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 810-75005/1-A

Matrix: Water

Analysis Batch: 75178

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 75005

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		09/27/23 13:30	09/28/23 13:36	1

Lab Sample ID: LCS 810-75005/4-A

Matrix: Water

Analysis Batch: 75178

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 75005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.05		mg/L		101	85 - 115

Lab Sample ID: LLCS 810-75005/2-A

Matrix: Water

Analysis Batch: 75178

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 75005

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0100	0.0111		mg/L		111	50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 810-75008/1-A

Matrix: Water

Analysis Batch: 75171

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 75008

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		09/27/23 14:30	09/28/23 13:20	1

Lab Sample ID: LCS 810-75008/6-A

Matrix: Water

Analysis Batch: 75171

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 75008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	50.0	49.8		ug/L		100	85 - 115

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 810-75008/2-A
Matrix: Water
Analysis Batch: 75171

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 75008

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.300	ND		ug/L		98	50 - 150

Lab Sample ID: LLCS 810-75008/3-A
Matrix: Water
Analysis Batch: 75171

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 75008

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	1.00	0.990	J	ug/L		99	50 - 150

Lab Sample ID: LLCS 810-75008/4-A
Matrix: Water
Analysis Batch: 75171

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 75008

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.00	1.94	J	ug/L		97	50 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-55405/1
Matrix: Water
Analysis Batch: 55405

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			09/12/23 18:02	1

Lab Sample ID: HLCS 380-55405/5
Matrix: Water
Analysis Batch: 55405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	704		mg/L		101	80 - 114

Lab Sample ID: LCS 380-55405/4
Matrix: Water
Analysis Batch: 55405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	174		mg/L		99	80 - 114

Lab Sample ID: MRL 380-55405/2
Matrix: Water
Analysis Batch: 55405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	11.0		mg/L		110	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-55405/3
Matrix: Water
Analysis Batch: 55405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	11.0		mg/L		110	50 - 150

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

HPLC/IC

Analysis Batch: 55098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total/NA	Water	300.0	
MB 380-55098/4	Method Blank	Total/NA	Water	300.0	
LCS 380-55098/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-55098/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-55098/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-55098/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 55099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total/NA	Water	300.0	
MB 380-55099/4	Method Blank	Total/NA	Water	300.0	
LCS 380-55099/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-55099/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-55099/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-55099/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 75005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total Recoverable	Water	200.7	
MB 810-75005/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 810-75005/4-A	Lab Control Sample	Total Recoverable	Water	200.7	
LLCS 810-75005/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 75008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total Recoverable	Water	200.8	
MB 810-75008/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 810-75008/6-A	Lab Control Sample	Total Recoverable	Water	200.8	
LLCS 810-75008/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LLCS 810-75008/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LLCS 810-75008/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 75171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total Recoverable	Water	200.8	75008
MB 810-75008/1-A	Method Blank	Total Recoverable	Water	200.8	75008
LCS 810-75008/6-A	Lab Control Sample	Total Recoverable	Water	200.8	75008
LLCS 810-75008/2-A	Lab Control Sample	Total Recoverable	Water	200.8	75008
LLCS 810-75008/3-A	Lab Control Sample	Total Recoverable	Water	200.8	75008
LLCS 810-75008/4-A	Lab Control Sample	Total Recoverable	Water	200.8	75008

Analysis Batch: 75178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total Recoverable	Water	200.7 Rev 4.4	75005
MB 810-75005/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	75005
LCS 810-75005/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	75005
LLCS 810-75005/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	75005

QC Association Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

General Chemistry

Analysis Batch: 55405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Total/NA	Water	SM 2540C	
MB 380-55405/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-55405/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-55405/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-55405/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-55405/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Client Sample ID: SMGWA Monitoring Well #3 Love Creek

Lab Sample ID: 380-62181-1

Date Collected: 09/08/23 12:15

Matrix: Water

Date Received: 09/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	55098	VB9B	EA POM	09/09/23 16:24
Total/NA	Analysis	300.0		5	55099	VB9B	EA POM	09/09/23 16:24
Total Recoverable	Prep	200.7			75005	NB	EA SB	09/27/23 13:30
Total Recoverable	Analysis	200.7 Rev 4.4		1	75178	AC	EA SB	09/28/23 14:06
Total Recoverable	Prep	200.8			75008	NB	EA SB	09/27/23 14:30
Total Recoverable	Analysis	200.8		1	75171	NB	EA SB	09/28/23 13:56
Total/NA	Analysis	SM 2540C		1	55405	UJRF	EA POM	09/12/23 18:02

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	06-18-25

Laboratory: Eurofins Eaton Analytical South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-23 *
Alaska	State	IN00035	06-30-24
Arizona	State	AZ0432	07-26-24
Arkansas (DW)	State	EPA IN00035	06-30-23 *
California	State	2920	06-30-24
Colorado	State	IN00035	02-29-24
Connecticut	State	PH-0132	03-31-24
Delaware (DW)	State	IN00035	06-30-23 *
Florida	NELAP	E87775	06-30-24
Georgia (DW)	State	929	06-30-24
Guam	State	23-011R	07-15-24
Hawaii	State	IN035	06-30-23 *
Idaho (DW)	State	IN00035	12-31-23
IL Dept. of Public Health (Micro)	State	17767	07-01-24
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-23
Louisiana (DW)	State	LA014	12-31-23
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-24
Massachusetts	State	M-IN035	06-30-24
MI - RadChem Recognition	State	9926	06-30-24
Michigan	State	9926	06-30-24
Minnesota	NELAP	1989807	12-31-23
Mississippi	State	IN00035	06-30-24
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-24
Nevada	State	IN000352024-01	07-31-24
New Hampshire	NELAP	2124	11-05-23
New Jersey	NELAP	IN598	06-30-24
New Mexico	State	IN00035	06-30-24
New York	NELAP	11398	04-01-24
North Carolina (DW)	State	18700	07-31-24
North Dakota	State	R-035	06-30-23 *
Northern Mariana Islands (DW)	State	IN00035	06-30-24
Ohio	State	87775	06-30-24
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	95005001	06-30-23 *
South Dakota (DW)	State	IN00035	06-30-24
Tennessee	State	TN02973	06-30-24
Texas	NELAP	T104704187-22-16	12-31-23
Texas	TCEQ Water Supply	TX207	06-30-24
USEPA Reg X SDWA	US Federal Programs	IN00035	08-24-24
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-24
Vermont	State	VT-8775	11-15-23
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-24
West Virginia (DW)	State	9927 C	12-31-23
Wisconsin (Micro)	State	10121	12-31-23
Wyoming	State	8TMS-L	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical Pomona

Method Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA SB
200.8	Metals (ICP/MS)	EPA	EA SB
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA SB
200.8	Preparation, Total Recoverable Metals	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: San Lorenzo Valley Water District
Project/Site: San Lorenzo-WELLS

Job ID: 380-62181-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-62181-1	SMGWA Monitoring Well #3 Love Creek	Water	09/08/23 12:15	09/09/23 09:45

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Custody Record

Client Information Client Contact: Jesse Guiver Phone: 909-388-0461 Email: jguiver@slwvd.com		Lab PM: Van Natta, Monica E-Mail: Monica.VanNatta@eurofins.com		COC No: 380-34692-9236.1 Page: Page 1 of 1 Job #:	
Company: San Lorenzo Valley Water District Address: 195 Kirby Street City: Felton State, Zip: CA, 95018 Phone: 831-430-4629(Tel) Email: jguiver@slwvd.com Project Name: San Lorenzo-WELLS Site: California		Analysis Requested Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☒ No Purchase Order not required PO #: WO #: Project #: 38002151 SSOW#:			
Sample Identification SMGWA Monitoring Well #1 SMGWA Monitoring Well #2 SMGWA Monitoring Well #3 LOVE CREEK		Sample Date 9/18/23	Sample Time 12:15	Sample Type (C=comp, G=grab) G	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) Water
Preservation Code:		Field Filtered Sample (Yes or No) ☒ Perform MS/MSD (Yes or No) ☒ 200.7, 200.8 ☒ 254.0C, Calcd - Total Dissolved Solids ☒ 300.0F, 28D, PREC, 300.0F, 48H, PREC ☒			
Special Instructions/Note: 380-62181 COC		Total Number of Containers:			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: 380-62181 COC			

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Monica Van Natta</i> Date/Time: 9/18/23		Received by: <i>Monica Van Natta</i> Date/Time: 9/18/23	
Relinquished by: <i>Monica Van Natta</i> Date/Time: 9/18/23		Received by: <i>Monica Van Natta</i> Date/Time: 9/18/23	
Relinquished by: <i>Monica Van Natta</i> Date/Time: 9/18/23		Received by: <i>Monica Van Natta</i> Date/Time: 9/18/23	
Custody Seal Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 1.1 - 0.1 = 1.3 (40/1A) Blue	



Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Order Completed
Creator: Monica
Filled by:
Sent Date:
Sent Via:
Tracking #:

En Lorenzo-MW's SMGWA
Bottle 9236
Request sent 5/26/2023
Date Order Posted: 5/26/2023 11:13:27AM
Order Status: Ready To Process
Prepared By: Monica Van Natta
Deliver By Date: 5/30/2023 11:59:00PM
Lab Project Number: 38002151
PWSID:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
3	1	3	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - (MOD) Custom 200.8 - (MOD) Custom	Water Water	Normal Normal		
3	1	3	Plastic 500ml - unpreserved	None	2540C_Calcd - Total Dissolved Solids	Water	Normal		
3	1	3	Plastic 125mL - unpreserved	None	300_OF_28D_PREC - (MOD) Chloride and Sulfate 300_OF_48H_PREC - Nitrate as N	Water Water	Normal Normal		

Total Bottle Summary		
Bottle Type Description	Preservative	Bottle Count
Plastic 125mL - unpreserved	None	3
Plastic 500ml - unpreserved	None	3
Plastic 500ml - with Nitric Acid	Nitric Acid	3
Total Bottles:		9

Notes to Field Staff:



Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative

Nitric Acid

Comment

CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: San Lorenzo Valley Water District

Job Number: 380-62181-1

Login Number: 62181

List Number: 1

Creator: Edrosa, Rey

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: San Lorenzo Valley Water District

Job Number: 380-62181-1

Login Number: 62181

List Number: 2

Creator: Pehling-Wright, Penny

List Source: Eurofins Eaton Analytical South Bend

List Creation: 09/19/23 03:45 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers



ANALYTICAL REPORT

PREPARED FOR

Attn: Ross Albert
Scotts Valley Water District
2 Civic Center Drive
Scotts Valley, California 95066

Generated 6/24/2023 12:37:35 AM

JOB DESCRIPTION

Non-Compliance: Backwash, MWs

JOB NUMBER

380-51041-1

Eurofins Eaton Analytical Pomona

Job Notes

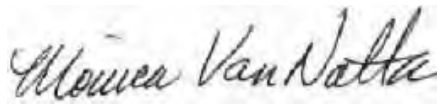
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Generated
6/24/2023 12:37:35 AM

Authorized for release by
Monica Van Natta, Project Manager
Monica.VanNatta@et.eurofinsus.com
(559)326-4396

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Definitions/Glossary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Job ID: 380-51041-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-51041-1

Receipt

The sample was received on 6/14/2023 10:03 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.7: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 380-44393 and analytical batch 380-44642 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Client Sample ID: SMGWA-8-06132023

Lab Sample ID: 380-51041-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	200		2.5	mg/L	5		300.0	Total/NA
Iron	15		0.050	mg/L	5		200.7 Rev 4.4	Total Recoverable
Manganese	240		2.0	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	1000		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Client Sample ID: SMGWA-8-06132023

Lab Sample ID: 380-51041-1

Date Collected: 06/13/23 15:00

Matrix: Water

Date Received: 06/14/23 10:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		2.5	mg/L			06/14/23 20:55	5
Nitrate as N	ND		0.25	mg/L			06/14/23 20:55	5

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15		0.050	mg/L		06/16/23 08:59	06/21/23 18:17	5

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	240		2.0	ug/L		06/15/23 11:01	06/17/23 00:47	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		20	mg/L			06/14/23 19:42	1

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-44215/4

Matrix: Water

Analysis Batch: 44215

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			06/14/23 12:19	1

Lab Sample ID: LCS 380-44215/7

Matrix: Water

Analysis Batch: 44215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.51		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-44215/8

Matrix: Water

Analysis Batch: 44215

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.50	2.50		mg/L		100	90 - 110	1	20

Lab Sample ID: MRL 380-44215/5

Matrix: Water

Analysis Batch: 44215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0125	0.0101	J	mg/L		81	50 - 150

Lab Sample ID: MRL 380-44215/6

Matrix: Water

Analysis Batch: 44215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0442	J	mg/L		88	50 - 150

Lab Sample ID: MB 380-44216/4

Matrix: Water

Analysis Batch: 44216

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/14/23 12:19	1

Lab Sample ID: LCS 380-44216/7

Matrix: Water

Analysis Batch: 44216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.2		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-44216/8

Matrix: Water

Analysis Batch: 44216

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	25.1		mg/L		100	90 - 110	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 380-44216/5

Matrix: Water

Analysis Batch: 44216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.125	0.116	J	mg/L		93	50 - 150

Lab Sample ID: MRL 380-44216/6

Matrix: Water

Analysis Batch: 44216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.476	J	mg/L		95	50 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 380-44393/1-A

Matrix: Water

Analysis Batch: 44642

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 44393

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		06/16/23 08:59	06/16/23 17:05	1

Lab Sample ID: MB 380-44393/1-A

Matrix: Water

Analysis Batch: 44956

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 44393

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.010	mg/L		06/16/23 08:59	06/21/23 18:07	1

Lab Sample ID: LCS 380-44393/3-A

Matrix: Water

Analysis Batch: 44642

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 44393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.94		mg/L		99	85 - 115

Lab Sample ID: LCS 380-44393/3-A

Matrix: Water

Analysis Batch: 44956

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 44393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.80		mg/L		96	85 - 115

Lab Sample ID: LCSD 380-44393/4-A

Matrix: Water

Analysis Batch: 44642

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 44393

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.91		mg/L		98	85 - 115	1	20

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 380-44393/4-A
Matrix: Water
Analysis Batch: 44956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 44393

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.88		mg/L		98	85 - 115	2	20

Lab Sample ID: LLCS 380-44393/2-A
Matrix: Water
Analysis Batch: 44642

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44393

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron	0.0100	0.0102		mg/L		102	50 - 150		

Lab Sample ID: LLCS 380-44393/2-A
Matrix: Water
Analysis Batch: 44956

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44393

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron	0.0100	0.00938	J	mg/L		94	50 - 150		

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 380-44253/1-A
Matrix: Water
Analysis Batch: 44583

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		06/15/23 10:37	06/16/23 23:40	1

Lab Sample ID: MB 380-44253/1-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.0	ug/L		06/15/23 10:37	06/19/23 13:32	1

Lab Sample ID: LCS 380-44253/3-A
Matrix: Water
Analysis Batch: 44583

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	100	95.6		ug/L		96	85 - 115		

Lab Sample ID: LCS 380-44253/3-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	100	100		ug/L		100	85 - 115		

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 380-44253/4-A
Matrix: Water
Analysis Batch: 44583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	98.2		ug/L		98	85 - 115	3	20

Lab Sample ID: LCSD 380-44253/4-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	100	101		ug/L		101	85 - 115	1	20

Lab Sample ID: LLCS 380-44253/2-A
Matrix: Water
Analysis Batch: 44583

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	2.00	2.02		ug/L		101	50 - 150		

Lab Sample ID: LLCS 380-44253/2-A
Matrix: Water
Analysis Batch: 44685

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 44253

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese	2.00	2.03		ug/L		101	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 380-44179/1
Matrix: Water
Analysis Batch: 44179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			06/14/23 19:42	1

Lab Sample ID: HLCS 380-44179/5
Matrix: Water
Analysis Batch: 44179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	700	696		mg/L		99	80 - 114		

Lab Sample ID: LCS 380-44179/4
Matrix: Water
Analysis Batch: 44179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	175	178		mg/L		102	80 - 114		

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MRL 380-44179/2

Matrix: Water

Analysis Batch: 44179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150

Lab Sample ID: MRL 380-44179/3

Matrix: Water

Analysis Batch: 44179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	9.00	J	mg/L		90	50 - 150

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

HPLC/IC

Analysis Batch: 44215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total/NA	Water	300.0	
MB 380-44215/4	Method Blank	Total/NA	Water	300.0	
LCS 380-44215/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-44215/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-44215/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-44215/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 44216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total/NA	Water	300.0	
MB 380-44216/4	Method Blank	Total/NA	Water	300.0	
LCS 380-44216/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-44216/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-44216/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 380-44216/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 44253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total Recoverable	Water	200.8	
MB 380-44253/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 380-44253/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 380-44253/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 380-44253/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 44393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total Recoverable	Water	200.7	
MB 380-44393/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 380-44393/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 380-44393/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
LLCS 380-44393/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 44583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total Recoverable	Water	200.8	44253
MB 380-44253/1-A	Method Blank	Total Recoverable	Water	200.8	44253
LCS 380-44253/3-A	Lab Control Sample	Total Recoverable	Water	200.8	44253
LCSD 380-44253/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	44253
LLCS 380-44253/2-A	Lab Control Sample	Total Recoverable	Water	200.8	44253

Analysis Batch: 44642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-44393/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	44393
LCS 380-44393/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44393
LCSD 380-44393/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	44393
LLCS 380-44393/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44393

QC Association Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Metals

Analysis Batch: 44685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-44253/1-A	Method Blank	Total Recoverable	Water	200.8	44253
LCS 380-44253/3-A	Lab Control Sample	Total Recoverable	Water	200.8	44253
LCSD 380-44253/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	44253
LLCS 380-44253/2-A	Lab Control Sample	Total Recoverable	Water	200.8	44253

Analysis Batch: 44956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total Recoverable	Water	200.7 Rev 4.4	44393
MB 380-44393/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	44393
LCS 380-44393/3-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44393
LCSD 380-44393/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	44393
LLCS 380-44393/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	44393

General Chemistry

Analysis Batch: 44179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-51041-1	SMGWA-8-06132023	Total/NA	Water	SM 2540C	
MB 380-44179/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-44179/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-44179/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-44179/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-44179/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Client Sample ID: SMGWA-8-06132023

Lab Sample ID: 380-51041-1

Date Collected: 06/13/23 15:00

Matrix: Water

Date Received: 06/14/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	44215	VB9B	EA POM	06/14/23 20:55
Total/NA	Analysis	300.0		5	44216	VB9B	EA POM	06/14/23 20:55
Total Recoverable	Prep	200.7			44393	Z45W	EA POM	06/16/23 08:59
Total Recoverable	Analysis	200.7 Rev 4.4		5	44956	T8RV	EA POM	06/21/23 18:17
Total Recoverable	Prep	200.8			44253	Z45W	EA POM	06/15/23 11:01
Total Recoverable	Analysis	200.8		1	44583	J9ZD	EA POM	06/17/23 00:47
Total/NA	Analysis	SM 2540C		1	44179	XLG4	EA POM	06/14/23 19:42

Laboratory References:
EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2813	02-01-24

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Method Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
200.7	Preparation, Total Recoverable Metals	EPA	EA POM
200.8	Preparation, Total Recoverable Metals	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: Scotts Valley Water District
Project/Site: Non-Compliance: Backwash, MWs

Job ID: 380-51041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-51041-1	SMGWA-8-06132023	Water	06/13/23 15:00	06/14/23 10:03

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Login Sample Receipt Checklist

Client: Scotts Valley Water District

Job Number: 380-51041-1

Login Number: 51041

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez Velasquez, Gustavo

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	