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2025 SECOND SEMIANNUAL GROUNDWATER DETECTION MONITORING REPORT Genesis Solar Energy Project

Riverside County, California

COC S&W-6

January 7, 2026

Prepared By:

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SIGNATURE PAGE

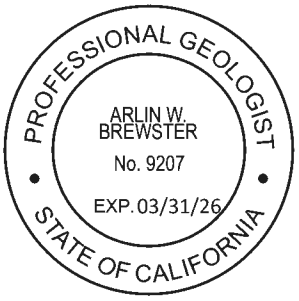
2025 SECOND SEMIANNUAL GROUNDWATER DETECTION MONITORING REPORT

RIVERSIDE COUNTY, CALIFORNIA

PROFESSIONAL STATEMENT

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

I further certify that this report has been reviewed by the appropriate authority at NextEra Energy Resources and is being submitted with their written consent.



Arlin W. Brewster

Professional Geologist 9207

January 7, 2025

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1.0 INTRODUCTION

Northstar Environmental Remediation (Northstar) has prepared this 2025 Second Semiannual Groundwater Detection Monitoring Report on behalf of Genesis Solar, LLC (Genesis). This report details groundwater detection monitoring performed in the second half of 2025 at the Genesis Solar Energy Project (GSEP).

The GSEP lies roughly 25 miles west of the city of Blythe, California in eastern Riverside County on lands managed by the Bureau of Land Management (BLM) (**Figure 1**). The GSEP consists of two independent concentrated solar electric generating facilities with a nominal net electrical output of 125 megawatts (MW) each (a total net electrical output of 250 MW).

Northstar conducts groundwater detection monitoring in accordance with Condition of Certification Soil & Water 6 (COC S&W-6) as presented in the California Energy Commission (CEC) Final Decision document dated October 12, 2010 (CEC, 2010). The COC S&W-6 requires compliance with Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (MRP) Board Order No. R7-2013-0005, issued by the California Regional Water Quality Control Board, Colorado River Basin Region (CRWQCB).

1.1 Background

Genesis submitted an updated Plan of Development (POD) for the GSEP in September 2010 (Genesis Solar, LLC 2010). In addition, Genesis filed an Application for Certification (AFC) for the GSEP to the CEC in August 2009 (Genesis Solar, LLC 2009). The CEC issued its Final Decision on the GSEP on October 12, 2010 (CEC, 2010). The BLM issued the Final Environmental Impact Statement (FEIS) for the GSEP for public comment on August 27, 2010.

The GSEP uses dry cooling technology and relies on groundwater as a water source during operation. Three groundwater production wells installed at the GSEP between July and October 2011 are permitted to pump groundwater at an average rate of 202 acre-feet per year (afy) (up to 1,348 afy during construction).

The Final Decision and FEIS discuss the potential impacts associated with the proposed groundwater use by the GSEP. Groundwater drawdown impacts are anticipated to be less than significant, but because the prediction of groundwater level effects by computer modeling entails inherent uncertainty, both the Final Decision and the FEIS adopted COC S&W-2 for the GSEP to monitor groundwater level at the vicinity of the GSEP.

Two evaporation ponds (licensed as Class II Surface Impoundments) located between Solar Fields 1 and 2 accept wastewater generated during GSEP operation (**Figure 3**). Three detection monitoring wells (DM-1,

DM-2, and DM-3) were installed, per the Final Decision, along the west, east, and south perimeter of the evaporation ponds in February 2012 (**Figure 4**). Groundwater samples were collected for four quarterly events prior to GSEP operation to establish baseline conditions. Semiannual sampling is conducted to comply with the requirements of COC S&W-6 and the WDR and MRP documents.

1.2 Geographic Setting

The GSEP lies between the communities of Blythe and Desert Center, California. Land use is predominantly open space and conservation and wilderness areas occupied by a community of low creosote and bursage vegetation. Chuckwalla and Ironwood State Prisons are located approximately 6 miles southeast of the GSEP.

The GSEP lies on broad, relatively flat topography sloping north to south at elevations between 400 and 370 feet above mean sea level (amsl). The surface is underlain by alluvial deposits derived from the Palen Mountains to the north-northwest, and the McCoy Mountains to the northeast (**Figure 1**).

The deposits immediately adjacent to the mountains have formed alluvial fans from multiple identifiable sources, and multiple fan surfaces have coalesced into a single bajada surface that wraps around each of these mountain fronts. Between the bajada surfaces from each mountain chain lies a broad valley-axial drainage that extends southward between the mountains and drains to the Ford Dry Lake playa, located about 1 mile south of the GSEP facility.

Climatic data collected from Weather Station Blythe Riverside Airport (33.61°N, -114.71°W, at an elevation of about 387 feet amsl) indicate the average maximum temperature in the airport vicinity is approximately 87.8°F (31.0°C). Average rainfall is reported to be approximately 3.83 inches (97.3 mm). Northstar obtained this data from the National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information 1981-2010 Normals.

1.3 Hydrogeologic Setting

The GSEP lies within the Chuckwalla Valley Groundwater Basin (Chuckwalla Basin) which has a surface area of 940 mi^2 (2,435 km^2) underlying Chuckwalla Valley. It is bounded upgradient by three groundwater basins including the eastern part of the Orocopia Valley and Pinto Valley Groundwater Basins and the southern part of the Cadiz Valley Groundwater Basin, and downgradient by the Palo Verde Mesa Groundwater Basin (Palo Verde Basin) (**Figure 2**). Groundwater occurs at depths of about 80 to 140 feet below ground surface (bgs) and groundwater flow is generally southeast to eastward, from the Chuckwalla Basin to the Palo Verde Basin (**Figure 2**).

Sources of groundwater recharge to the Chuckwalla Basin includes precipitation, inflow from the Orocopia Valley and Pinto Valley Groundwater Basins, and return flows from agricultural sources and treated wastewater effluent. Groundwater is the only available water resource in Chuckwalla Valley, with

extraction to meet local demand the primary source of groundwater outflow. Other minor sources of outflow include underflow to the Palo Verde Basin and evapotranspiration in portions of Palen Dry Lake (where shallow groundwater is present).

Calculations of the Chuckwalla Basin groundwater budget prior to GSEP operations indicate a stable surplus of 2,600 afy (CEC, 2010). Current operational demand, based on calendar year 2024 extraction data, is approximately 103.9 afy.

The region of the Chuckwalla Basin occupied by the GSEP and associated groundwater monitoring wells is underlain by four geological units. The shallowest unit is the unconsolidated Holocene-aged Alluvium, consisting of geologically recent lake, river, and wind deposits (DWR, 1963). Beneath the Alluvium is the unconsolidated Pleistocene-aged Pinto Formation, consisting of coarse alluvial fan deposits (known as fanglomerate), interspersed with clays and basalt (DWR, 1963). Beneath the Pinto Formation is the unconsolidated to partially consolidated Pliocene-aged Bouse Formation, consisting of coarse alluvium and fanglomerate deposits (Wilson and Owen-Joyce, 1994). Below the Bouse Formation is bedrock consisting of metamorphic rocks and intrusive igneous basalts (DWR, 1963).

Groundwater in the GSEP monitoring region occurs in two aquifers: the shallower Alluvium aquifer (extending to a maximum approximate depth of 250 feet below ground surface); and, the deeper Bouse Formation aquifer (extending between approximately 250 to 6,500 feet below ground surface) (Wilson and Owen-Joyce, 1994). The Pinto Formation exists only on the eastern fringe of the Chuckwalla Basin and is generally not encountered by the GSEP monitoring wells. Monitoring data indicate a downward vertical hydraulic gradient of groundwater flow from the Alluvium to the Bouse Formation aquifer.

Based on recent monitoring data, the depth to groundwater in the Bouse Formation ranges from approximately 87.79 feet bgs (299.61 feet amsl) in TW-1, located upgradient of the site, to 134.63 feet bgs (257.47 feet amsl) in Well 23a, located downgradient of the site. Perched water reportedly exists at the Chuckwalla State Prison but has not been identified closer to the facility.

1.4 Monitoring Program Objectives

Northstar performs groundwater detection monitoring in accordance with COC S&W-6 as described in the CEC's Final Decision. The primary objectives for the evaporation pond detection as outlined in the MRP are to:

- Establish baseline conditions by conducting four quarters of monitoring prior to discharge of wastewater to the ponds;
- Collect water level elevation data to characterize groundwater flow conditions in the uppermost water-bearing zone beneath the evaporation pond area;
- Collect and evaluate water quality data using approved statistical and other methods to identify potential changes in the existing water quality of the aquifer immediately underlying the evaporation ponds; and,

- Demonstrate compliance with the discharge requirements contained in COC S&W-6 and the WDR for the GSEP.

2.0 EVAPORATION PONDS

2.1 Evaporation Pond Overview

The North and South Evaporation Ponds (sometimes referred to as the West and East ponds, respectively) were designed by Fluor Corp. and are identified on **Figure 3**. Each pond is constructed with multiple layers of containment that drain to a centralized collection sump. The pond drainage sump slopes away from the centerline of the ponds to the north and south and is equipped with a set of three moisture detection probes in each side. Each pond is also equipped with a pump to return all accumulated water back to the pond surface.

2.2 Monitoring Methods

On a semiannual basis, a sample is collected from each of the evaporation ponds and identified as the North Pond and South Pond. Representative water is collected in a clean, dedicated 5-gallon bucket and processed into sample containers inside the containment area. Laboratory samples are submitted to SunStar Laboratories, Inc. (SunStar) of Lake Forest, California. SunStar subcontracts the heat transfer fluid analysis to Eurofins Calscience Laboratories, Inc. (Eurofins) of Tustin, California. All laboratories are state and federally certified and analyze the samples by the following methods, as detailed in the Final Decision, WDR, and MRP documents:

- Chloride, Sulfate, and Nitrate by EPA Method 300.0;
- Mercury by Standard Method 7470A;
- Total Dissolved Solids by Standard Method 2540C;
- pH by Standard Method 4500H;
- Specific Conductance by Standard Method 2510B;
- Heat Transfer Fluid (HTF) by EPA Method 8015B;
- Heavy Metals by EPA Method 200.7 and 200.8;
- Oil & Grease by EPA Method 1664A; and,

2.3 Evaporation Pond Sample Results

Analytical data for the evaporation ponds is included in **Table 4** and certified laboratory reports are included in **Appendix B**. In summary:

- The laboratory did not detect nitrate, copper, iron, antimony, cadmium, chromium (total), cobalt, lead, nickel, mercury, oil & grease, or heat transfer fluid in either pond;
- The laboratory did not detect magnesium in the North Pond only; and,
- Compound concentrations were higher in the North Pond.

3.0 POND DRAINAGE SUMP SYSTEM

3.1 Pond Drainage Sump System Overview

A cross-sectional schematic of the pond drainage sump system is included in **Figure 5**. As shown in the figure, each pond is equipped with a total of six probes (Watermark Model 200SS electrical resistance probes) installed at a distance of 15, 70, and 110 feet from the pond centerline.

The water return pumps are installed on the north side of the North Pond and the south side of the South Pond. Readings from the totalizers on each pump are recorded on a quarterly basis.

3.2 Monitoring Methods

Terminals attached to the probe wire leads are stored in a weatherproof vault at the north and south end of each pond, where resistivity readings can be collected using a Watermark 30-KTCD-NL meter. Values can range from 0-10 centibars (saturated) to 199 centibars (dry). Readings are collected from the probes and the nearby water return pumps on a quarterly basis and summarized in **Table 5**. If the pump totalizers show any signs of increase, or if the probes display values within the saturated range (usually started with probe #1 in the lowest part of the sump), Northstar notifies NextEra operations who then conduct further investigation.

3.3 Monitoring Results

Approximately 404 gallons of water was pumped from the North Pond in the third quarter of 2025, and none in the fourth quarter. No water was pumped from the South Pond during the reporting period. The totalizers currently read 1,012.04 and 7.48 gallons for the North and South Ponds, respectively.

All of the probes provided a ‘dry’ reading in the third and fourth quarters of 2025, but several probes in the North Pond indicated elevated humidity in the fourth quarter. There was a minor amount of condensate inside all caps in the fourth quarter.

4.0 DETECTION MONITORING WELLS

4.1 Detection Monitoring Well Overview

A total of three detection monitoring wells were installed around the perimeter of the evaporation ponds (**Figure 4**). Detection monitoring wells DM-1, DM-2, and DM-3 were installed to a total depth of 120 feet bgs into the shallow Alluvium aquifer with screened intervals between 100 to 120 feet bgs. **Table 1** provides construction details for the wells. Well DM-1 is located upgradient, west of the ponds. Well DM-2 and DM-3 are located downgradient, east and south of the ponds, respectively.

4.2 Monitoring Methods

Northstar measured the depth to groundwater in each well using a Geotech interface probe. Field staff documented depth to water to the nearest hundredth (0.01) foot below a surveyed measuring mark located on the north side of the top of casing (toc) on a groundwater level measurement form (**Appendix A**). **Table 2** includes the groundwater level measurements and calculated water level elevations. **Figure 4** illustrates the groundwater elevation contours and flow direction.

Each detection monitoring well has a dedicated 1.66-inch diameter Geotech® stainless steel submersible bladder pump and dedicated sample tubing with water intake set at the middle of wetted screen at approximately 115 feet btoc. Field staff collect samples from these wells using the low flow purging method in accordance with the most recent EPA guidance document (USEPA, 2017).

Field staff decontaminate reusable/non-dedicated equipment (water level probe and flow-through cell) prior to use at each well. Decontamination of reusable equipment consisted of washing with a laboratory-grade non-phosphate detergent (Liquinox or equivalent) and potable water solution followed by a double rinse with demineralized water.

Field staff measure groundwater parameters with a water quality field instrument (YSI, Horiba, or equivalent) connected to a flow-through cell. Staff calibrate the instrument at the beginning of each day and decontaminate it prior to use in each well. Measurements of field parameters (pH, electrical conductivity (EC), temperature, turbidity, and oxidation-reduction potential (ORP)) were taken at 5-minute intervals and at the time of sampling as part of the low flow purge method of sampling.

Wells were purged until water quality parameters stabilized over three successive readings (+/- 0.2 for pH, +/- 10% for EC, ORP and turbidity) and the discharge volume exceeded the drawdown, tubing, and flow-through cell volume. Northstar staff recorded the sampling methods, volume of water purged, pumping rate, field parameter measurements, and observations of water turbidity and odor on the groundwater sampling field form (**Appendix A**).

After purging and parameter stabilization, the flow-through cell was disconnected so samples could be collected from the pump discharge. Field staff wore new nitrile gloves to collect groundwater samples in clean bottles (preserved as appropriate) provided by the laboratory. Where required, samples were field filtered with a new 0.45-micron filter attached to the end of the discharge tubing. Staff labeled sample containers with the sample identification, date, time, sampler, analytical method, and placed them in a chilled ice chest. Northstar delivered the samples under proper chain-of-custody protocol to the laboratory.

Groundwater purged from DM-1, DM-2, and DM-3 was temporarily contained in a sealed 5-gallon bucket and then disposed in the evaporation ponds as directed in the MRP (Part II A.1.b.). **Table 3** includes the measured field parameters documented at the end of purging activities.

Laboratory samples are submitted to SunStar Laboratories, Inc. (SunStar) of Lake Forest, California. SunStar subcontracts the heat transfer fluid analysis to Eurofins Calscience Laboratories, Inc. (Eurofins) of Tustin, California. They also subcontract the oxygen-18 and deuterium analysis to Isotech Laboratories, Inc. of Champaign, Illinois. All laboratories are state and federally certified and analyze the samples by the following methods, as detailed in the Final Decision, WDR, and MRP documents:

- Chloride, Sulfate, and Nitrate by EPA Method 300.0;
- Mercury by Standard Method 7470A;
- Total Dissolved Solids by Standard Method 2540C;
- pH by Standard Method 4500H;
- Specific Conductance by Standard Method 2510B;
- Heat Transfer Fluid (HTF) by EPA Method 8015B;
- Heavy Metals by EPA Method 200.7 and 200.8;
- Oil & Grease by EPA Method 1664A; and,
- Oxygen-18 and Deuterium by Isotope Geochemistry.

The laboratory conducted standard Quality Assurance/Quality Control (QA/QC) to assure analytical accuracy and precision. This included preparation and analysis of method blanks, surrogate spikes, matrix spike/matrix spike duplicate (MS/MSD) pairs and laboratory control samples (LCS), as required, with each analytical batch.

Northstar collects a duplicate sample once per sampling event that is submitted to the laboratory without identifiers that associate the sample with a well, date, or time. During this event, a duplicate sample from well PW-2 was collected for analysis. **Table 4** of the *Groundwater Quality Monitoring Report* (Northstar, 2025) provides a summary of analytical results for the duplicate sample.

4.3 Results of Water Level Measurements

Table 2 provides the wellhead reference elevation (toc elevation), depth to groundwater, and water level elevations for each detection monitoring well. Depth to groundwater ranged from 104.88 (well DM-3) to 107.90 (well DM-2) feet bgs, and the calculated groundwater elevations range from 283.42 (well DM-2) to 283.74 (well DM-1) feet amsl.

Northstar used groundwater elevation data to generate a potentiometric surface contour map of the uppermost water-bearing zone beneath the evaporation pond (**Figure 4**). The groundwater flow direction and gradient beneath the site were determined based on linear interpolation between contours of equal elevation. Groundwater flow beneath the evaporation ponds was determined to be predominantly in an east to southeast direction at a gradient of approximately 0.0004 feet/foot. The groundwater flow direction and gradient are consistent with historical monitoring events. Groundwater flow direction has historically ranged between east-northeast and southeast and the gradient has ranged between 0.0004 and 0.0007 feet/foot.

4.4 Groundwater Flow Velocity

The average horizontal groundwater flow velocity beneath the evaporation ponds was estimated using the following equation:

V = (KhI)/ne

Where:

V = average linear groundwater velocity (in feet per day)
Kh = aquifer horizontal hydraulic conductivity (in feet per day)
I = average hydraulic gradient (vertical change in groundwater elevation/corresponding horizontal distance in feet per lateral feet), and
ne = effective aquifer porosity.

Each monitoring well is screened from 100-120 feet bgs in fine-grained sand, as detailed in the Detection Monitoring Well Installation Report (WorleyParsons, 2012). The reported hydraulic conductivity for fine-grained sand is approximately 0.03 to 60 feet/day, as stated in scientific references (Domenico and Schwartz, 1990). Based on the characteristics of the shallow Alluvium aquifer in which the detection monitoring wells are screened, this calculation assumes an average hydraulic conductivity value of 15 to 30 feet/day, an effective porosity of 25 percent, and an average gradient of 0.0004 feet/foot, as estimated from **Figure 4**.

Based on these calculations, the average groundwater velocity estimated in the uppermost water-bearing zone beneath the evaporation ponds is approximately 0.024 to 0.048 feet laterally per day, or 8.76 to 17.52 lateral feet per year. Historically, estimates of groundwater flow velocity have ranged from 8.76 to 30.66 lateral feet per year.

4.5 General Chemical Analysis

Table 4 provides a summary of the detection monitoring well groundwater sample analytical results. **Appendix B** contains copies of the laboratory analytical reports for the groundwater samples. Groundwater samples from detection monitoring wells DM-1, DM-2, and DM-3 were analyzed for the parameters listed in Section 4.2. The concentration of detected analytes is generally similar between the detection monitoring wells. Similarity in the concentrations of analytes is expected as the three wells are located within 1,000 feet of each other and are screened at the same depth interval (100-120 feet bgs).

The following is a summary of the groundwater monitoring results for the detection monitoring wells since the beginning of the monitoring program:

- **Chloride** detections have historically been consistent between wells, but dropped to their lowest values in DM-2 and DM-3 during this period. Concentrations ranged from 3,610 to 9,760 milligrams per liter (mg/L), averaging 5,353 mg/L.
- **Sulfate as SO_4** detections have historically been consistent between wells, but dropped to their lowest values in DM-2 and DM-3 during this period. Concentrations ranged from 1,330 to 4,350 mg/L, averaging 2,093 mg/L.
- **Nitrate as NO_3** detections are consistent between wells and range from non-detect to 21.2 mg/L, averaging 7.50 mg/L.
- **Total Dissolved Solid** concentrations are consistent between wells and range from 6,800 to 14,000 mg/L, averaging 10,625 mg/L.
- **pH** levels are consistent between wells and range from 7.2 to 8.2 standard units, averaging 7.8 standard units.
- **Specific Conductivity** levels are consistent between wells and range from 13,000 to 22,000 microSiemens per centimeter (µs/cm), averaging 17,754 µs/cm.
- **Antimony** has not been detected above the reporting limit for all wells.
- **Arsenic** detections are consistent between wells and range from non-detect to 26 µg/L, averaging 11.3 µg/L.
- **Barium** detections are inconsistent between wells, averaging 33.0 µg/L in upgradient well DM-1, 57.6 µg/L in downgradient well DM-2, and 18.3 µg/L in downgradient well DM-3.
- **Cadmium** has not been detected above the reporting limit for all wells.
- **Calcium** detections are consistent for all wells and range from 190 to 470 mg/L, averaging 251 mg/L.
- **Chromium (Total)** detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations range from 3.1 to 3.7 µg/L, averaging 3.4 µg/L.
- **Cobalt** has not been detected above the reporting limit for all wells.
- **Copper** detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations range from 0.006 to 0.027 mg/L, averaging 0.011 mg/L.
- **Lead** has not been detected above the reporting limit for all wells.

- **Mercury** has only been detected once above the reporting limit in upgradient well DM-1 at a concentration of 0.26 µg/L. Mercury has not been detected at or above the reporting limit in wells DM-2 and DM-3.
- **Nickel** has only been detected once above the reporting limit in downgradient well DM-3 at a concentration of 10 µg/L. Nickel has not been detected at or above the reporting limit in wells DM-1 or DM-2.
- **Selenium** detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations range from 0.68 to 55 µg/L, averaging 14.0 µg/L.
- **Zinc** detections have been inconsistent because the concentrations are frequently between the MDL and RL. Reportable concentrations range from 0.55 to 76 µg/L, averaging 21.1 µg/L.

4.6 Non-Statistical Analysis

In accordance with the MRP Part II.A.5 and Part III.A.2, a non-statistical analysis has been applied to the groundwater analytical results for this sampling event.

The non-statistical analysis requires all detections of the constituents of concern (ie, those defined in Part II.A.4 of the same document) reported above the method detection limit (MDL) in the downgradient wells (DM-2 and DM-3) that do not appear in the upgradient well (DM-1) be identified, and where there are either a) two or more constituents identified in this list from a single downgradient monitoring point, or b) one of the identified constituents in this list exceeds the Practical Quantification Limit (PQL), a release is tentatively indicated.

For the purposes of this report, the PQL is equal to the reporting limit (RL) as identified for each constituent in the laboratory report, which is generally 5 times the MDL. The results of the non-statistical method for this sampling event is as follows:

- Well DM-2: There are no constituents of concern that meet the release detection criteria.
- Well DM-3: Selenium was detected at a concentration of 20 µg/L. Selenium appears to be naturally occurring in DM-3, historically being detected at an average concentration of 16.2 µg/L; therefore, this is unlikely to be an indication of a release.

4.7 Quality Assurance/Quality Control

As documented in the attached laboratory reports (see **Appendix B**), groundwater samples collected from the evaporation pond detection monitoring wells during this sampling event were received by the laboratory in good condition, within the temperature limits required, and analyzed within the required holding times using the specified methods (with the exception of pH, which has a 15-minute hold time, and nitrate as NO3, which has a 48-hour hold time).

No analytes were detected in the method blank sample.

Matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample (LCS) recoveries for each method and analytical batch were within the laboratory's established control limits for the final report, with the following exceptions:

- The spike recovery was outside of quality control acceptance limits for the MS and/or MSD due to analytical concentration at 4 times or greater the spike concentration. The quality control batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits. This may have affected the results for **calcium, magnesium, potassium, and sodium**.

- The spike recovery and/or relative percent difference (RPD) was outside acceptable limits for the MS and/or MSD, but the batch was accepted based on acceptable LCS recovery data. This may have affected the results for **iron, chloride, and sulfate as SO4**.

Duplicate sample control: For this event, a duplicate sample (named DUP) was collected from sample point PW-2 (as reported in the *Groundwater Quality Monitoring Report* (Northstar, 2025). The sample was submitted to the laboratory without date or time qualifiers. For this event, all sample results for PW-2 and DUP agreed within 10% except sodium, which agreed within 11%.

5.0 LAND TREATMENT UNIT SUMMARY

The Land Treatment Unit (LTU) is an onsite bioremediation landfarm utilized for the treatment of soil contaminated with the heat transfer fluid (HTF) Therminol. Soil from all HTF spills is excavated within 48 hours and placed in one of four treatment bays, numbered LTU #1 to 4. The soil is then tested to determine whether it can be effectively treated onsite (under 10,000 mg/kg of HTF) or if it is hazardous and would be more effectively treated offsite (above 10,000 mg/kg of HTF).

Soil in the LTUs is overturned on a weekly basis by onsite staff to aid in the bioremediation of the soil. A representative composite soil sample is collected from each bay on a quarterly basis (or as needed) and analyzed by EPA Method 8015M for Therminol (characterized by the chemical markers 1,1'-oxybis-benzene and 1,1'-biphenyl) to monitor the progress of remediation. Once the concentration is less than 100 mg/kg of HTF, the soil may be removed from the LTU and staged onsite for later use. Treatment is enhanced by the addition of moisture and fertilizers.

There were no spills of HTF during the second half of 2025, and all soil from the land treatment unit was either remediated and reused onsite or was hauled offsite for disposal.

6.0 ANNUAL SUMMARY

In accordance with WDR R7-2013-0005, this section presents a summary of the monitoring activities conducted during the 2025 monitoring period. Monitoring activities during this period included the following:

- Semiannual groundwater sampling and analysis of the detection monitoring network; and,
- Semiannual groundwater level measurements of the detection monitoring network.

The groundwater level and analytical data are included in **Tables 2** and **4**, respectively.

The data collected during the semiannual detection well monitoring events during the 2025 calendar year represents the twelfth year of post-construction facility operation. The laboratory analytical data from the 2025 calendar year is consistent with the historical background data collected prior to evaporation pond construction and operation.

The non-statistical analysis of the constituents of concern identified one potential release during each half of the 2025 calendar year, based upon a compound detection that was not detected in the upgradient well DM-1. Details of this detection is as follows:

1. In the first half of 2025, arsenic was detected in DM-3 above the PQL of 10 µg/L at a concentration of 16 µg/L. This concentration is within the normal range for this well and therefore does not constitute a release.
2. In the second half of 2025, selenium was detected in DM-3 at the PQL of 20 µg/L. This concentration is within the normal range for this well and therefore does not constitute a release.

During the 2025 calendar year, the groundwater gradient ranged from 0.0004 to 0.0006 feet per linear foot to the east-southeast; groundwater elevations ranged from 283.42 feet amsl in well DM-2 to 284.01 feet amsl in well DM-1; and groundwater flow velocity ranged between 0.024 to 0.072 feet laterally per day, or 8.76 to 26.28 lateral feet per year.

Each of the settlement ponds is equipped with a moisture detection system consisting of six moisture probes installed in a drainage sump below the pond liners. Northstar monitors the probes quarterly at a minimum. If leaks are detected, the pond is drained (if necessary) and the lining inspected and repaired. No leaks were detected in the 2025 calendar year, and the probes currently indicate they are dry under the South Pond, and slightly humid under the North Pond. Should a leak occur, each pond is equipped with two recirculation pumps to drain the lining and redeposit the water in the pond until an inspection can be performed. Approximately 404 gallons were pumped from the North Pond sump in the third quarter of 2025. No water was pumped out of the South Pond sump in 2025.

7.0 CONCLUSIONS

Based on the available data obtained during this sample event:

- While selenium was only detected in downgradient detection monitoring well DM-3, it is naturally occurring in this well and the concentration was within the normal range.
- None of the compounds detected in downgradient detection monitoring well DM-2 met the criteria for a potential release.
- Available groundwater quality data is generally stable with minor trend fluctuations.
- Groundwater flow direction, gradient, and velocity is consistent with historical events.
- There were no spills of HTF in the second half of 2025, and no soil is currently being treated onsite.

All data currently indicates compliance with the discharge requirements contained in COC S&W-6 and the WDR for the GSEP, with exceptions as noted above.

8.0 REFERENCES

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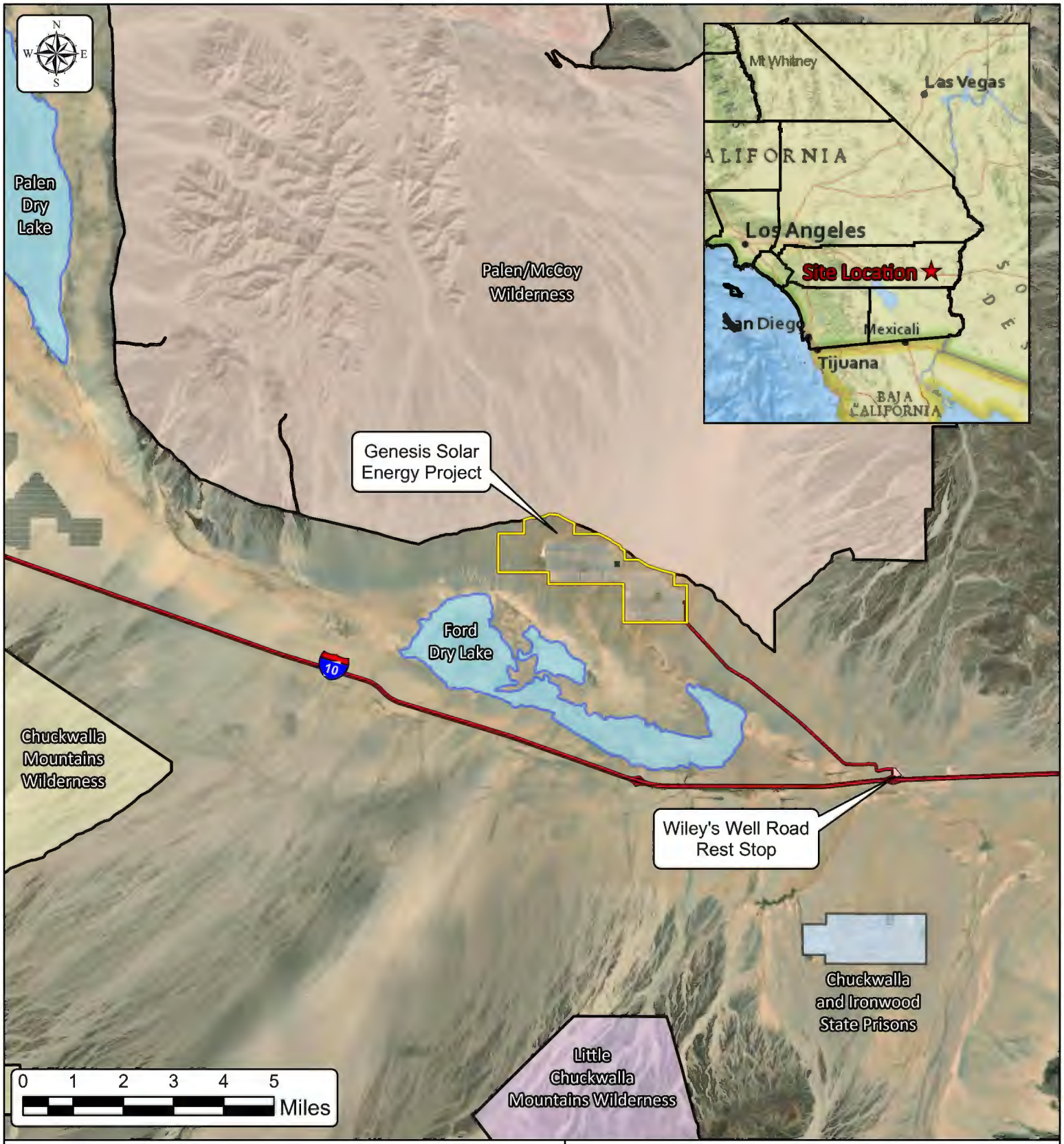
FIGURES



Legend

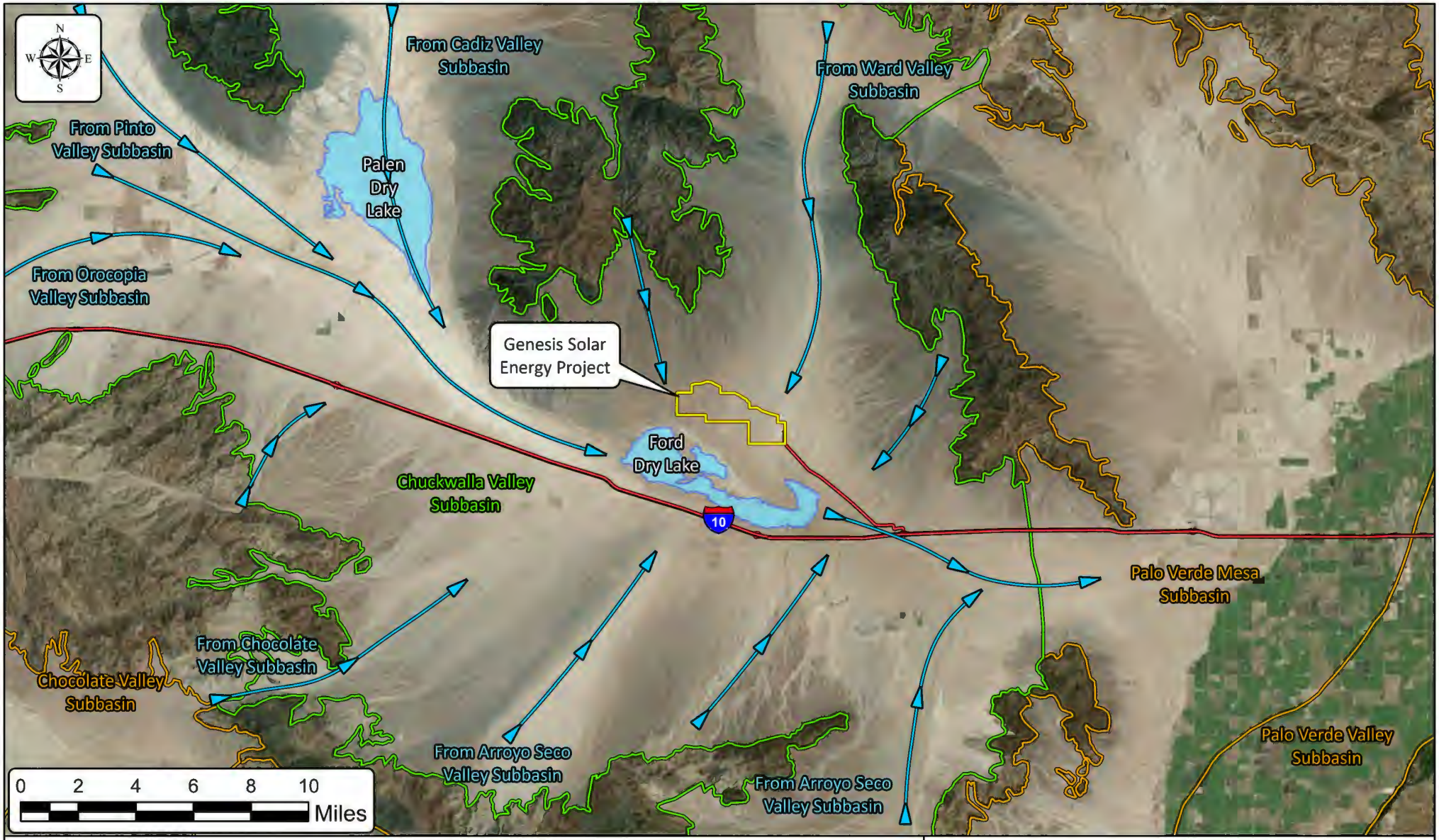
- GSEP Property Boundary
- Chuckwalla and Ironwood State Prisons
- Chuckwalla Mountains Wilderness Area
- Little Chuckwalla Mountains Wilderness Area
- Palen/McCoy Wilderness Area
- Dry Lakes
- Roads

Genesis Solar Energy Project
11995 Wiley's Well Road, Blythe, CA 92225

FIGURE 1
Site Vicinity Map

NORTHSTAR environmental remediation	Project No. 196-004	Draw Date: 9 Jul 2024
	Drawn By: AWB	Checked By: AWB

File Name: Figure 1 - Vicinity Map



Legend

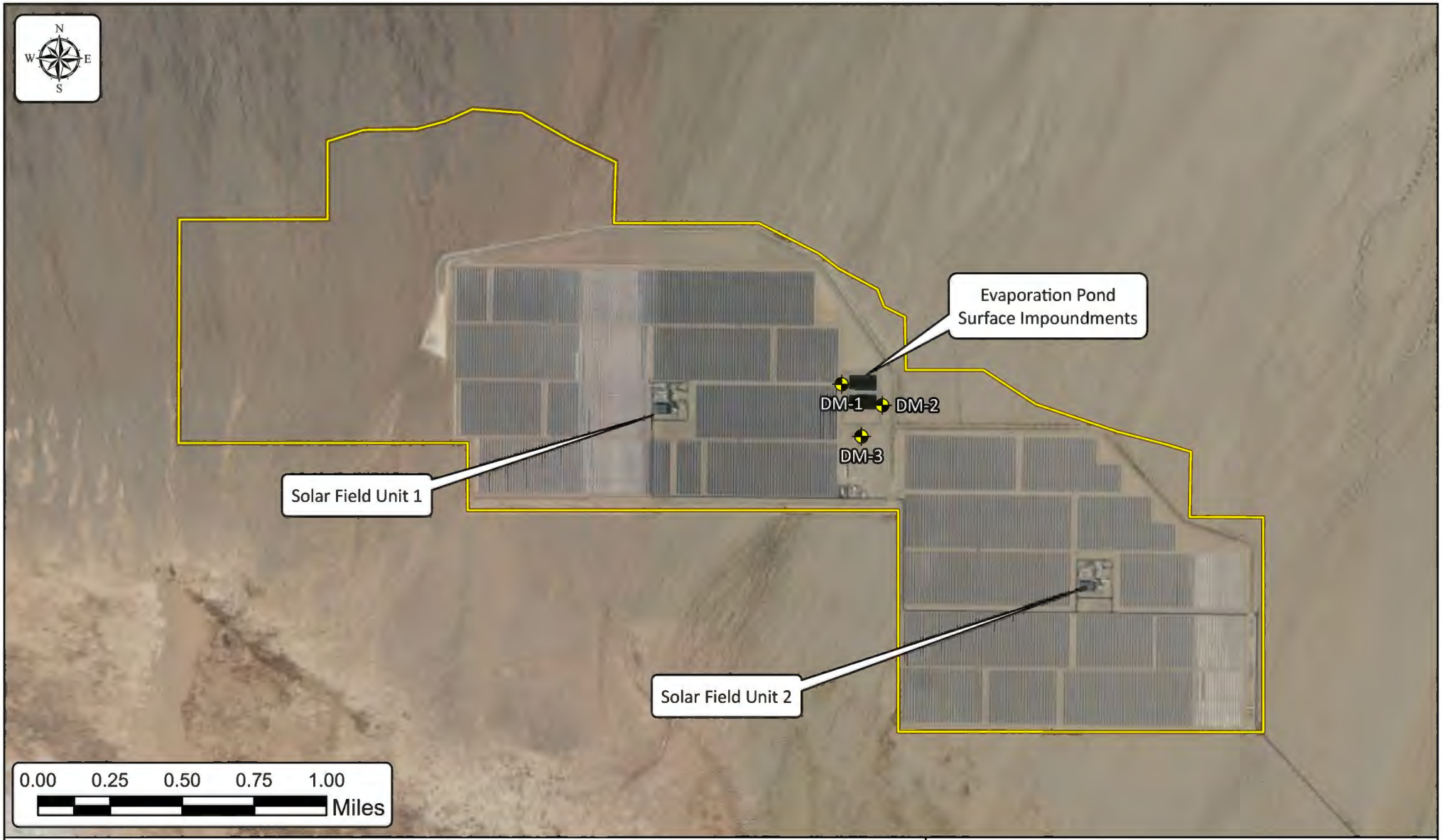
- GSEP Property Boundary
- Chuckwalla Valley Groundwater Subbasin
- Adjacent Groundwater Subbasins
- Dry Lakes
- Water Flow Direction

Genesis Solar Energy Project
11995 Wiley's Well Road, Blythe, CA 92225

FIGURE 2
Hydrogeologic Setting

NORTHSTAR	Project No. 196-004	Draw Date: 9 Jul 2024
	Drawn By: AWB	Checked By: AWB

File Name: Figure 2 - Hydrogeology



Legend

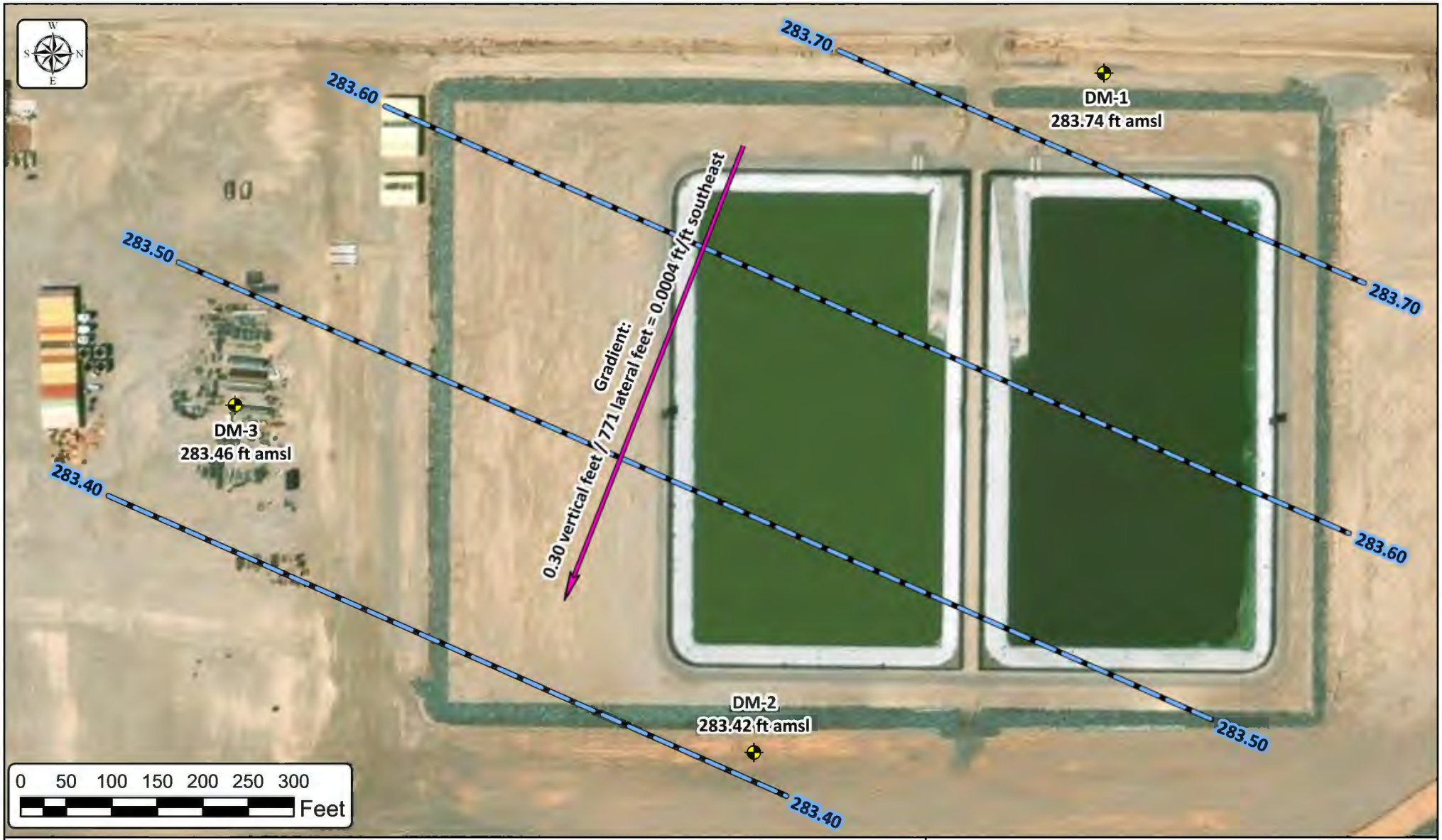
- GSEP Property Boundary
- Detection Monitoring Wells

Genesis Solar Energy Project
11995 Wiley's Well Road, Blythe, CA 92225

FIGURE 3
Monitoring Area Showing
Detection Monitoring Wells

NORTHSTAR	Project No. 196-004	Draw Date: 11 Jun 2024
	Drawn By: AWB	Checked By: AWB

File Name: Figure 3 - Monitoring Area



Legend

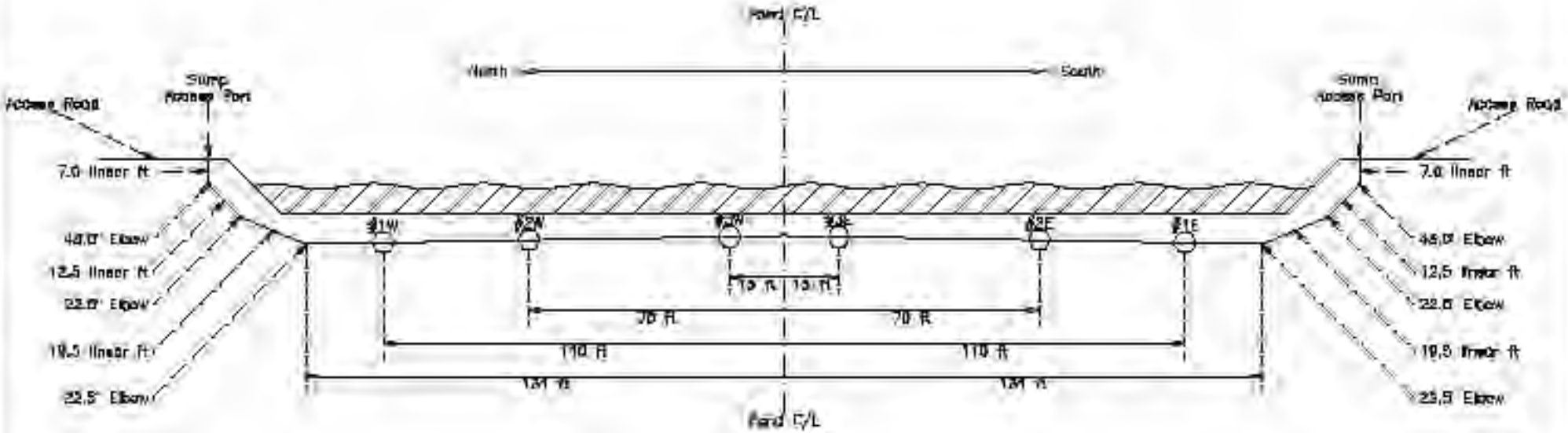
- Detection Monitoring Wells
- Groundwater Elevation Contour Lines
- Groundwater Gradient Direction

Genesis Solar Energy Project
11995 Wiley's Well Road, Blythe, CA 92225

FIGURE 4
Groundwater Elevation Contour Map
December 2025

NORTHSTAR	Project No. 196-004	Draw Date: 7 Jan 2026
	Drawn By: AWB	Checked By: AWB

File Name: Figure 4 - GW Contours



Note: All dimensions are approximate and are based upon field observations.

Notes:

1. Probes installed at #1W through #1E are Irrometer/Watermark Model 200SS Moisture Probes.
2. Sump access port is 4-inch diameter HDPE pipe.
3. Moisture probes are tied to 1/4-inch diameter braided steel pull-through cable (total length of approximately 340 feet).
4. Probes installed in 4-inch diameter perforated pipe with approximate 1 degree slope away from C/L.
5. Moisture probes furnished with two leads for direct read by Watermark Model 30 KTCD-NL meter.

0 15 30
Scale: 1 inch = 30 Feet

Project Name: Genesis Solar Energy Project	Project Number: 196-004-05
Project Address: 11995 Wiley's Well Rd, Blythe, CA	Drawn/Checked By: AWB
Consulting Firm: Northstar Environmental Remediation	Date Drawn: 01/13/2023
Figure Description: Pond Drainage Sump System Detail	Figure Number: Figure 5

TABLES

TABLE 1

DETECTION MONITORING WELL DETAILS

Genesis Solar Energy Project, Riverside County, California

Well ID	Other Name	Owner	Installation Date	Use/Status	Well Casing Diameter (inches)	Approximate Ground Surface Elevation (feet amsl)	Top Of Casing Elevation (feet amsl)	Well Depth (feet bgs)	Screened Interval (feet bgs)	Geologic Unit
WELLS INCLUDED IN THE GROUNDWATER MONITORING PROGRAM										
DM-1	Detection Monitoring Well 1	Genesis Solar, LLC	2/22/2012	Monitoring / Active	4	--	391.49	120	100 to 120	Alluvium
DM-2	Detection Monitoring Well 2	Genesis Solar, LLC	2/21/2012	Monitoring / Active	4	--	391.32	120	100 to 120	Alluvium
DM-3	Detection Monitoring Well 3	Genesis Solar, LLC	2/20/2012	Monitoring / Active	4	--	388.34	120	100 to 120	Alluvium

Notes:

-- = information is not available or unknown

amsl = above mean sea level

bgs = below ground surface

TABLE 2

GROUNDWATER LEVEL MEASUREMENTS

Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl)	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
WELLS INCLUDED IN THE GROUNDWATER DETECTION MONITORING PROGRAM							
DM-1	2/27/2012	WorleyParsons	391.49	106.63	284.86	N/A	Monitoring
DM-1	5/24/2012	WorleyParsons	391.49	107.11	284.38	0.00	Baseline
DM-1	7/26/2012	WorleyParsons	391.49	107.10	284.39	0.01	Monitoring
DM-1	11/14/2012	WorleyParsons	391.49	108.15	283.34	-1.04	Monitoring
DM-1	3/29/2013	WorleyParsons	391.49	107.34	284.15	-0.23	Monitoring
DM-1	6/19/2013	WorleyParsons	391.49	107.19	284.30	-0.08	Monitoring
DM-1	8/13/2013	WorleyParsons	391.49	107.07	284.42	0.04	Monitoring
DM-1	11/12/2013	WorleyParsons	391.49	107.22	284.27	-0.11	Monitoring
DM-1	2/26/2014	WorleyParsons	391.49	107.13	284.36	-0.02	Monitoring
DM-1	5/22/2014	Northstar	391.49	107.05	284.44	0.06	Monitoring
DM-1	8/8/2014	Northstar	391.49	107.11	284.38	0.00	Monitoring
DM-1	12/4/2014	Northstar	391.49	107.03	284.46	0.08	Monitoring
DM-1	3/26/2015	Northstar	391.49	107.22	284.27	-0.11	Monitoring
DM-1	6/11/2015	Northstar	391.49	107.01	284.48	0.10	Monitoring
DM-1	12/10/2015	Northstar	391.49	106.98	284.51	0.13	Monitoring
DM-1	6/2/2016	Northstar	391.49	107.18	284.31	-0.07	Monitoring
DM-1	11/30/2016	Northstar	391.49	107.27	284.22	-0.16	Monitoring
DM-1	6/1/2017	Northstar	391.49	107.12	284.37	-0.01	Monitoring
DM-1	12/5/2017	Northstar	391.49	107.38	284.11	-0.27	Monitoring
DM-1	5/30/2018	Northstar	391.49	107.10	284.39	0.01	Monitoring
DM-1	12/4/2018	Northstar	391.49	107.45	284.04	-0.34	Monitoring
DM-1	6/14/2019	Northstar	391.49	107.18	284.31	-0.07	Monitoring
DM-1	12/5/2019	Northstar	391.49	107.42	284.07	-0.31	Monitoring
DM-1	6/4/2020	Northstar	391.49	107.10	284.39	0.01	Monitoring
DM-1	12/3/2020	Northstar	391.49	107.70	283.79	-0.59	Monitoring
DM-1	6/3/2021	Northstar	391.49	107.06	284.43	0.05	Monitoring
DM-1	12/2/2021	Northstar	391.49	107.35	284.14	-0.24	Monitoring
DM-1	6/2/2022	Northstar	391.49	107.25	284.24	-0.14	Monitoring
DM-1	12/1/2022	Northstar	391.49	107.40	284.09	-0.29	Monitoring
DM-1	6/8/2023	Northstar	391.49	107.49	284.00	-0.38	Monitoring
DM-1	12/7/2023	Northstar	391.49	107.41	284.08	-0.30	Monitoring
DM-1	6/6/2024	Northstar	391.49	107.44	284.05	-0.33	Monitoring
DM-1	12/5/2024	Northstar	391.49	107.60	283.89	-0.49	Monitoring
DM-1	6/3/2025	Northstar	391.49	107.48	284.01	-0.37	Monitoring
DM-1	12/4/2025	Northstar	391.49	107.75	283.74	-0.64	Monitoring
DM-2	2/27/2012	WorleyParsons	391.32	106.92	284.40	N/A	Monitoring
DM-2	5/24/2012	WorleyParsons	391.32	107.37	283.95	0.00	Baseline
DM-2	7/26/2012	WorleyParsons	391.32	107.33	283.99	0.04	Monitoring
DM-2	11/14/2012	WorleyParsons	391.32	108.33	282.99	-0.96	Monitoring
DM-2	3/29/2013	WorleyParsons	391.32	107.59	283.73	-0.22	Monitoring
DM-2	6/19/2013	WorleyParsons	391.32	107.41	283.91	-0.04	Monitoring
DM-2	8/13/2013	WorleyParsons	391.32	107.31	284.01	0.06	Monitoring
DM-2	11/12/2013	WorleyParsons	391.32	107.63	283.69	-0.26	Monitoring
DM-2	2/26/2014	WorleyParsons	391.32	107.40	283.92	-0.03	Monitoring
DM-2	5/22/2014	Northstar	391.32	107.28	284.04	0.09	Monitoring
DM-2	8/8/2014	Northstar	391.32	107.28	284.04	0.09	Monitoring
DM-2	12/4/2014	Northstar	391.32	107.43	283.89	-0.06	Monitoring
DM-2	3/26/2015	Northstar	391.32	107.61	283.71	-0.24	Monitoring
DM-2	6/11/2015	Northstar	391.32	107.40	283.92	-0.03	Monitoring
DM-2	12/10/2015	Northstar	391.32	107.30	284.02	0.07	Monitoring
DM-2	6/2/2016	Northstar	391.32	107.38	283.94	-0.01	Monitoring
DM-2	11/30/2016	Northstar	391.32	107.52	283.80	-0.15	Monitoring
DM-2	6/1/2017	Northstar	391.32	107.47	283.85	-0.10	Monitoring
DM-2	12/5/2017	Northstar	391.32	107.78	283.54	-0.41	Monitoring
DM-2	5/30/2018	Northstar	391.32	107.45	283.87	-0.08	Monitoring
DM-2	12/4/2018	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-2	6/14/2019	Northstar	391.32	107.55	283.77	-0.18	Monitoring
DM-2	12/5/2019	Northstar	391.32	107.72	283.60	-0.35	Monitoring
DM-2	6/4/2020	Northstar	391.32	107.45	283.87	-0.08	Monitoring
DM-2	12/3/2020	Northstar	391.32	108.03	283.29	-0.66	Monitoring
DM-2	6/3/2021	Northstar	391.32	107.64	283.68	-0.27	Monitoring
DM-2	12/2/2021	Northstar	391.32	107.71	283.61	-0.34	Monitoring
DM-2	6/2/2022	Northstar	391.32	107.65	283.67	-0.28	Monitoring
DM-2	12/1/2022	Northstar	391.32	107.72	283.60	-0.35	Monitoring
DM-2	6/8/2023	Northstar	391.32	107.82	283.50	-0.45	Monitoring
DM-2	12/7/2023	Northstar	391.32	107.74	283.58	-0.37	Monitoring
DM-2	6/6/2024	Northstar	391.32	107.79	283.53	-0.42	Monitoring
DM-2	12/5/2024	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-2	6/3/2025	Northstar	391.32	107.80	283.52	-0.43	Monitoring
DM-2	12/4/2025	Northstar	391.32	107.90	283.42	-0.53	Monitoring

TABLE 2

GROUNDWATER LEVEL MEASUREMENTS

Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Source	Top of Casing Elevation (feet amsl)	Depth to Water (feet below TOC)	Groundwater Elevation (feet amsl)	Difference from Baseline (feet)	Comments / Use
DM-3	2/27/2012	WorleyParsons	388.34	103.85	284.49	N/A	Monitoring
DM-3	5/24/2012	WorleyParsons	388.34	104.35	283.99	0.00	Baseline
DM-3	7/26/2012	WorleyParsons	388.34	104.28	284.06	0.07	Monitoring
DM-3	11/14/2012	WorleyParsons	388.34	105.25	283.09	-0.90	Monitoring
DM-3	3/29/2013	WorleyParsons	388.34	104.35	283.99	0.00	Monitoring
DM-3	6/19/2013	WorleyParsons	388.34	104.20	284.14	0.15	Monitoring
DM-3	8/13/2013	WorleyParsons	388.34	104.31	284.03	0.04	Monitoring
DM-3	11/12/2013	WorleyParsons	388.34	104.43	283.91	-0.08	Monitoring
DM-3	2/26/2014	WorleyParsons	388.34	104.31	284.03	0.04	Monitoring
DM-3	5/22/2014	Northstar	388.34	104.20	284.14	0.15	Monitoring
DM-3	8/8/2014	Northstar	388.34	104.21	284.13	0.14	Monitoring
DM-3	12/4/2014	Northstar	388.34	104.39	283.95	-0.04	Monitoring
DM-3	3/26/2015	Northstar	388.34	104.59	283.75	-0.24	Monitoring
DM-3	6/12/2015	Northstar	388.34	104.18	284.16	0.17	Monitoring
DM-3	12/11/2015	Northstar	388.34	103.96	284.38	0.39	Monitoring
DM-3	6/3/2016	Northstar	388.34	104.38	283.96	-0.03	Monitoring
DM-3	12/2/2016	Northstar	388.34	104.28	284.06	0.07	Monitoring
DM-3	6/1/2017	Northstar	388.34	104.25	284.09	0.10	Monitoring
DM-3	12/5/2017	Northstar	388.34	104.62	283.72	-0.27	Monitoring
DM-3	5/30/2018	Northstar	388.34	104.27	284.07	0.08	Monitoring
DM-3	12/4/2018	Northstar	388.34	104.68	283.66	-0.33	Monitoring
DM-3	6/14/2019	Northstar	388.34	104.38	283.96	-0.03	Monitoring
DM-3	12/6/2019	Northstar	388.34	104.66	283.68	-0.31	Monitoring
DM-3	6/5/2020	Northstar	388.34	104.32	284.02	0.03	Monitoring
DM-3	12/3/2020	Northstar	388.34	104.80	283.54	-0.45	Monitoring
DM-3	6/3/2021	Northstar	388.34	104.29	284.05	0.06	Monitoring
DM-3	12/2/2021	Northstar	388.34	104.50	283.84	-0.15	Monitoring
DM-3	6/2/2022	Northstar	388.34	104.50	283.84	-0.15	Monitoring
DM-3	12/1/2022	Northstar	388.34	104.50	283.84	-0.15	Monitoring
DM-3	6/8/2023	Northstar	388.34	104.68	283.66	-0.33	Monitoring
DM-3	12/7/2023	Northstar	388.34	104.52	283.82	-0.17	Monitoring
DM-3	6/6/2024	Northstar	388.34	104.56	283.78	-0.21	Monitoring
DM-3	12/5/2024	Northstar	388.34	104.70	283.64	-0.35	Monitoring
DM-3	6/3/2025	Northstar	388.34	104.65	283.69	-0.30	Monitoring
DM-3	12/4/2025	Northstar	388.34	104.88	283.46	-0.53	Monitoring

Notes:

amsl = above mean sea level

TOC = top of casing

TABLE 3

FIELD DATA COLLECTED DURING THE MOST RECENT GROUNDWATER MONITORING EVENT

Genesis Solar Energy Project, Riverside County, California

Well ID	Date	Groundwater Purging			Field Parameters					
		Rate of Groundwater Discharge (mL/min)	Purging Method	Total Volume Purged (mL)	Temperature (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	D.O. (mg/L)
DM-1	12/4/2025	180	Bladder Pump	5,400	24.8	7.83	18.6	131.0	+138	8.15
DM-2	12/4/2025	138	Bladder Pump	3,450	23.0	7.74	18.7	84.4	+139	8.40
DM-3	12/4/2025	143	Bladder Pump	3,575	25.3	7.79	18.3	27.0	+123	7.03

NOTES:

mL = milliliters

mL/min = milliliters per minute

mS/cm = millisiemens per centermeter

NTU = Nephelometric Turbidity Units

DO = Dissolved Oxygen

mg/L = milligrams per liter

^{0}C = degree Celsius

mV = millivolts

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project, Riverside County, California

Well ID	Date Sampled	Sampling Method	Chloride (mg/L)	Sulfate (SO4) (mg/L)	Nitrate (NO3)-N (mg/L)	Calcium (mg/L)	Copper (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Iron (mg/L)	Magnesium (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (All Species) (ug/L)	Cobalt (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Zinc (ug/L)	Mercury (ug/L)	Total Dissolved Solids (mg/L)	Specific Conductance (us/cm)	pH (standard Units)	Oil & Grease / HEM (mg/L)	HTF† (mg/L)	Deuterium (‰ relative to VSMOW)	Oxygen-18 (‰ relative to VSMOW)
			EPA Method 300.0			EPA Method 200.7						EPA Method 200.8											SM7470A	SM2540C	SM2510B	SM4500H	SM1664A	8015B	Isotope Geochemistry	
DM-1	5/24/2012	Low Flow	4,600	2,000	3.9	250	<0.10	3,800	23.0	<0.40	56	-	-	-	-	-	-	-	-	-	-	-	-	12,000	16,000	7.84	-	-	-65.1	-8.8
DM-1	10/24/2012	Low Flow	5,400	2,300	<1.1	210	<0.010	3,200	20.0	<0.040	58	-	-	-	-	-	-	-	11	-	-	-	-	11,000	18,000	7.83	-	-	-72.1	-8.6
DM-1	5/22/2014	Low Flow	5,300	2,000	-	240	<0.010	3,700	22	<0.040	54	<10	6.2	52	<5.0	<10	<5.0	<5.0	2.5[J]	4.6[J]	3.0[J]	<100	<0.20	11,000	19,000	7.81	<5.0	-	-68.50	-8.51
DM-1	5/22/2014 [1]	Low Flow	5,200	2,000	-	230	<0.010	3,600	22	<0.040	53	<10	5.6	50	<5.0	<10	<5.0	<5.0	<5.0	3.9[J]	3.1[J]	<100	<0.20	11,000	19,000	7.74	<5.3	-	-69.47	-8.74
DM-1	12/4/2014	Low Flow	4,800	1,700	2.9	230	<0.050	3,600	21	<0.20	57	<10	7.7	50	<5.0	<10	<5.0	<5.0	<5.0	9.2[J]	<10	25[J]	0.15[J]	11,000	19,000	7.92	<4.7	<0.094	N/A[2]	N/A[2]
DM-1	6/11/2015	Low Flow	4,600	2,000	3.7[J]	230	<0.10	3,600	21	<0.40	52	<10	3.8[J]	36	<5.0	2.9[J]	<5.0	<5.0	3.6[J]	6.3[J]	3.6[J]	<100	0.26	10,000	19,000	7.81	<4.7	<0.10	-69.2	-8.47
DM-1	12/10/2015	Low Flow	5,300	2,100	4.9[J]	260	<0.010	3,700	22	<0.040	57	<10	5.6	38	<5.0	<10	<5.0	<5.0	<5.0	<10	5.2[J]	<100	<0.20	12,000	19,000	7.79	<5.0	<0.094	-70.3	-8.57
DM-1	6/2/2016	Low Flow	4,700	1,800	7.8	230	<0.10	3,800	18	<0.40	57	<2.0	5.1	31	<1.0	1.9[J]	<1.0	<1.0	0.99[J]	1.1[J]	3.3	2.5[J]	<0.20	11,000	20,000	7.87	<4.7	<0.094	-69.87	-8.83
DM-1	11/30/2016	Low Flow	5,200	2,000	<5.5	230	<0.010	3,700	23	<0.040	59	<20	6.7[J]	31	<10	<20	<10	<10	<10	<10	13[J]	<200	<0.20	11,000	17,000	7.8	<4.7	<0.093	-70.70	-8.68
DM-1	6/1/2017	Low Flow	4,600	1,900	4.2[J]	250	<0.10	4,100	21	<1.0	62	<10	4.8[J]	28	<5.0	5.9[J]	<5.0	<5.0	<5.0	7.6[J]	6.9[J]	<100	<0.20	11,000	16,000	7.9	<5.1	<0.094	-70.30	-8.57
DM-1	12/5/2017	Low Flow	7,130	2,770	12.8	230	0.025	1,100	30	<1.0	59	<1.0	6.2	28	<2.5	3.1	<2.5	<2.5	-	<2.5	5.1	6.6	<0.50	10,000	17,200	7.8	<5.0	<0.10	-69.14	-8.90
DM-1	5/30/2018	Low Flow	5,190	2,030	14.7	270	0.096[J]	5,200	63	0.78[J]	64	<0.50	5.0	30	<0.50	<5.0	<0.50	<5.0	-	<5.0	5.9	9.5	<0.50	11,000	17,300	7.9	<5.0	<0.10	-71.10	-8.57
DM-1	12/4/2018	Low Flow	8,180	3,280	9.00	260	<0.5	4,800	33	<20	68	<10	10	31	<10	<10	<10	<10	-	<10	<10	<10	<0.50	11,000	17,400	7.7	<5.0	<0.10	-70.10	-8.55
DM-1	6/14/2019	Low Flow	5,040	1,930	8.76	280	0.006	4,800	65	0.35	63	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<0.50	9,600	17,700	7.2	<5.0	<0.10	-70.40	-8.58
DM-1	12/5/2019	Low Flow	7,460	2,150[J]	16.3	250	0.004[J]	4,200	32	<0.20	67	<5.0	0.80[J]	32	<5.0	2.1[J]	<5.0	<5.0	-	<5.0	0.80[J]	47	<0.50	11,000	17,600	7.7	<5.0	<0.10	-70.10	-8.55
DM-1	6/4/2020	Low Flow	5,500	2,090	8.04	220	0.007	4,300	24	<0.20	53	<5.0	<5.0	33	<5.0	<5.0	<5.0	<5.0	-	<5.0	13	16	<0.50	12,000	17,800	7.3	<5.0	<0.096	-70.30	-8.57
DM-1	12/3/2020	Low Flow	5,530	2,150	8.50	230	<0.005	9,500	35	<0.20	49	<5.0	<5.0	35	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.87	<0.50	<0.50	12,000	18,000	7.9	<5.0	<0.11	-70.20	-8.57
DM-1	6/3/2021	Low Flow	5,520	2,050	8.28	220	<0.50	3,800	<50	<20	57	<10	<10	31	<10	<10	<10	<10	-	<10	17	<10	<0.50	8,100	17,800	7.7	<5.0	<0.095	-70.80	-8.62
DM-1	12/2/2021	Low Flow	5,360	1,930	8.59	230	<0.50	4,200	<50	<20	58	<10	<10	29	<10	<10	<10	<10	-	<10	16	<10	<1.0	14,000	17,800	7.8	<5.0	<0.099	-70.10	-8.58
DM-1	6/2/2022	Low Flow	5,530	2,070	8.70	240	<2.5	4,500	<250	<100	69	<50	<50	<50	<50	<50	<50	<50	-	<50	52	<50	<1.0	9,300	17,800	7.8	<5.0	<0.095	-70.20	-8.62
DM-1	12/1/2022	Low Flow	5,130	1,960	7.36	230	<0.005	4,500	58	<0.20	61	<25	<25	26	<25	<25	<25	<25	-	<25	<25	<25	<1.0	11,000	17,900	7.8	<5.0	<0.096	-70.20	-8.62
DM-1	6/8/2023	Low Flow	5,300	2,000	7.58	240	<0.50	4,100	<50	<20	65	<10	<10	29	<10	<10	<10	<10	-	<10	<10	<10	<1.0	10,000	18,000	7.8	<5.0	<0.097	-69.30	-8.53
DM-1	12/7/2023	Low Flow	5,290	1,830	7.18	230	<0.50	4,500	<50	<20	65	<25	<25	29	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,400	8.2	<5.0	<0.100	-69.80	-8.59
DM-1	6/6/2024	Low Flow	5,510	1,920	7.81	230	<0.50	4,200	<50	<20	62	<5.0	5.6	25	<5.0	<5.0	<5.0	<5.0	-	<5.0	7.2	8.8	<1.0	10,000	18,600	8.0	<5.0	<0.100	-70.10	-8.63
DM-1	12/5/2024	Low Flow	5,530	1,920	7.50	220	<0.50	4,100	<50	<20	60	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	11,000	18,200	8.0	<5.0	<0.110	-69.90	-8.57
DM-1	6/3/2025	Low Flow	5,440	2,050	7.58	280	<0.50	4,500	<50	<20	68	<10	<10	28	<10	<10	<10	<10	-	<10	11	10	<1.0	11,000	18,300	7.8	<5.0	<0.097	-70.40	-8.64
DM-1	12/5/2025	Low Flow	5,270	2,210	8.00	240	<0.50	3,800	<50	<20	58	<20	<20	25	<20	<20	<20	<20	-	<20	<20	<20	<1.0	11,000	17,800	8.0	<5.0	<0.098	-68.00	-8.48
DM-2	5/24/2012	Low Flow	4,500	2,000	2.9	290	<0.10	3,500	25.0	<0.40	59	-	-	-	-	-	-	-	-	-	-	-	-	13,000	16,000	7.80	-	-	-71.7	-8.8
DM-2	10/23/2012	Low Flow	4,800	2,000	<1.1	470	<0.010	2,600	27.0	<0.040	54	-	-	-	-	-	-	-	110	-	-	-	-	9,900	16,000	7.72	-	-	-70.9	-8.9
DM-2	5/22/2014	Low Flow	5,100	2,000	-	320	<0.020	3,500	23	0.022[J]	54	<10	4.7[J]	97	<5.0	<10	<5.0	<5.0	59	4.1[J]	3.3[J]	<100	<0.20	11,000	18,000	7.79	<5.1	-	-69.95	-8.72
DM-2	12/4/2014	Low Flow	4,400	1,600	3.0	300	<0.050	3,100	20	0.082[J]	55	<10	5.7	140	<5.0	<10	<5.0	<5.0	90	8.4[J]	<10	<100	<0.20	9,900	17,000	7.90	<4.7	<0.095	N/A[2]	N/A[2]
DM-2	6/11/2015	Low Flow	4,500	2,000	3.8[J]	290	<0.10	3,500	22	<0.40	55	<10	4.1[J]	110	<5.0	2.9[J]	<5.0	<5.0	40	4.9[J]	<10	<100	<0.20	9,600	18,000	7.92	<4.7	<0.10	-68.2	-8.52
DM-2	12/10/2015	Low Flow	5,400	2,200	<5.5	290	<0.010	3,600	21	0.062	61	<10	5.9	85	<5.0	<10	<5.0	<5.0	88	<10	5.5[J]	<100	<0.20	12,000	18,000	7.85	<5.0	<0.096	-69.4	-8.43
DM-2	6/2/2016	Low Flow	4,800	1,900	8.0	280	<0.10	3,800	20	0.27[J]	60	0.51[J]	4.7	62	<1.0	1.5[J]	<1.0	<1.0	62	1.1[J]	3.5	<20	<0.20	12,000	22,000	7.95	<4.9	<0.097	-69.53	-8.63
DM-2	11/30/2016	Low Flow	5,300	2,200	2.8[J]	290	<0.010	4,200	28	<0.040	61	<20	5.9[J]	56	<10	<20	<10	<10	40	<20	18[J]	<200	<0.20	11,000	17,000	7.8	<4.7	<0.097	-70.20	-8.37
DM-2	6/1/2017	Low Flow	4,800	1,900	3.1[J]	280	<0.10	4,100	21	<1.0	62	<10	4.4[J]	52	<5.0	<10	<5.0	<5.0	17	5.2[J]	5.6[J]	<100	<0.20	12,000	16,000	7.9	<5.2	<0.097	-70.10	-8.51
DM-2	12/5/2017	Low Flow	4,930	1,960	13.4	250	<0.025	1,400	34	<1.0	62	<1.0	5.5	69	<2.5	3.7	<2.5	<2.5	-	<2.5	5.7	4.5	<0.50	11,000	17,200	7.8	<5.0	<0.10	-67.66	-8.63
DM-2	5/30/2018	Low Flow	6,000	2,280	17.5	300	0.11[J]	4,800	68	<10	67	<5.0	5.1	51	<0.50	<5.0	<0.50	<0.50	-	<0.50	6.3	<5.0	<0.50	9,900	17,000	7.9	<5.0	<0.11	-69.20	-8.39
DM-2	12/4/2018	Low Flow	5,290	1,770	11.4	240	<0.5	4,900	35	<20	60	<10	<10	57	<10	<10	<10	<10	-	<10	<10	28	<0.50	7,100	13,000	7.8	<5.0	<0.10	-72.30	-8.98
DM-2	6/14/2019	Low Flow	5,240	2,080	11.2	300	<0.005	5,100	68	<0.20	67	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<0.50	9,300	18,000	7.3	<5.0	<0.10	-70.10	-8.50
DM-2	12/5/2019	Low Flow	7,680	2,330[J]	21.2	310	0.007	4,400	30	<0.20	65	<5.0	<5.0	50	<5.0	2.9[J]	<5.0	<5.0	-	<5.0	3.2[J]	76	<0.50	10,000	17,000	7.6	<5.0	<0.10	-70.00	-8.48
DM-2	6/4/2020	Low Flow	5,580	2,240	10.4	280	0.007	4,100	41	<0.20	55	<5.0	<5.0	46	<5.0	<5.0	<5.0	<5.0	-	<5.0	9.8	24	<0.50	11,000	18,100	7.4	<5.0	<0.096	-69.90	-8.47
DM-2	12/3/2020	Low Flow	5,730	2,340	9.46	250	<0.005	11,000	34	<0.20	51	<5.0	<5.0	49	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.94	<0.50	<0.50	10,000	18,000	7.8	<5.0	<0.11	-70.10	-8.50
DM-2	6/3/2021	Low Flow	5,610	2,210	7.85	230	<0.50	3,800	<50	<20	58	<10	<10	45	<10	<10	<10	<10	-	<10	16	<10	<0.50	9,000	18,200	7.6	<5.0	<0.092	-69.90	-8.50
DM-2	12/2/2021	Low Flow	5,470	2,100	10.0	270	<0.50	4,500	<50	<20	63	<10	<10	44	<10	<10	<10	<10	-	<10	16	<10	<1.0	13,000	18,200	7.8	<5.0	<0.095	-69.50	-8.47
DM-2	6/2/2022	Low Flow	5,860	2,160	10.9	240	<2.5	4,200	<250	<100	67	<50	<50	<50	<50	<50	<50	<50	-	<50	53	<50	<1.0	9,300	18,200	7.7	<5.0	<0.093	-69.60	-8.51
DM-2	12/1/2022	Low Flow	5,450	2,180	9.45	250	<0.005	4,700	57	<0.20	65	<25	<25	37	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,300	7.8	<5.0	<0.098	-69.50	-8.49
DM-2	6/8/2023	Low Flow	5,470	2,190	9.73	300	<0.50	4,800	<50	<20	85	<10	<10	37	<10	<10	<10	<10	-	<10	<10	<10	<1.0	6,800	18,300	7.6	<5.0	<0.100	-70.00	-8.51
DM-2	12/7/2023	Low Flow	5,390	1,930	6.21	240	<0.50	4,300	<50	<20	66	<25	<25	40	<25	<25	<25	<25	-	<25	<25	<25	<1.0	11,000	18,900	7.9	<5.0	<0.100	-69.60	-8.49
DM-2	6/6/2024	Low Flow	4,910	2,110	8.84	240	<0.50	4,100	<50	<20	64	<5.0	6.1	35	<5.0	<5.0	<5.0	<5.0	-	<5.0	8.6	13	<1.0	10,000	19,000	7.9	<5.0	<0.090	-69.60	-8.49
DM-2	12/5/2024	Low Flow	5,670	2,060	9.72	250	<0.50	4,300	<50	<20	67	<25	<25	36	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,200	7.9	<5.0	<0.100	-69.10	-8.49
DM-2	6/3/2025	Low Flow	5,490	2,210	10.20	290	<0.50	4,400	<50	<20	67	<10	<10	37	<10	<10	<10	<10	-	<10	12	<10	<1.0	12,000	18,700	7.7	<5.0	<0.099	-70.30	-8.67
DM-2	12/5/2025	Low Flow	3,610	1,330	11.3	250	<0.50	3,900	<50	<20	59	<20	<20	33	<20	<20	<20	<20	-	<20	<20	<20	<1.0	11,000	17,800	7.8	<5.0	<0.098	-67.90	-8.38
DM-3	5/24/2012	Low Flow	4,600	2,000	<2.2	220	<0.10	3,500	20.0	<0.40	51	-	-	-	-	-	-	-	-	-	-	-	-	12,000	16,000	7.83	-	-	-71.4	-8.9
DM-3	10/23/2012	Low Flow	5,100	2,100	<2.2	210	<0.010	3,000	20.0	<0.040	52	-	-	-	-	-	-	-	<1.0	-	-	-	-	11,000	18,000	7.83	-	-	-72.6	-8.7
DM-3	5/22/2014	Low Flow	5,400	2,100	-	230	<0.010	3,600	21	<0.040	51	<10	13	18	<5.0	<10	<5.0	<5.0	<5.0	10	<10	<100	<0.20	11,000	19,000	7.66	<4.9	-	-68.86	-8.52
DM-3	12/5/2014	Low Flow	4,900	1,800	1.8[J]	230	<0.050	3,600	20	<0.20	56	<10	16	18	<5.0	<10	<5.0	<5.0	<5.0	9.6[J]	<10	<100	<0.20	11,000	18,000	7.82	<4.7	<0.099	N/A[2]	N/A[2]
DM-3	6/12/2015	Low Flow	4,400	1,900	<5.5	220	<0.10	3,600	18	<0.40	50	<10	14	17	<5.0	<10	<5.0	<5.0	<5.0	4.5[J]	<10	<100	<0.20	9,800	18,000	7.75	<4.9	<0.10	-69.6	-8.90
DM-3	12/11/2015	Low Flow	5,100	2,200	<5.5	250	0.0057[J]	3,500	19	<0.040	51	<10	17	21	<5.0	<10	<5.0	<5.0	<5.0	<10	3.1[J]	<100	<0.20	11,000	18,000	7.79	<5.0	<0.094	-70.6	-8.73
DM-3	6/3/2016	Low Flow	4,700	1,900	7.1	220	<0.10	3,700	17	<0.40	53	<2.0	14	16	<1.0	0.66[J]	<1.0	<1.0	0.64[J]	0.88[J]	1.0[J]	5.1[J]	<0.20	11,000	20,000	7.86	<4.7	<0.093	-69.29	-8.75
DM-3	12/2/2016	Low Flow	4,900	2,100	<5.5	240	0.0052[J]	4,100	23	<0.040	56	<10	16	18	<5.0	<10	<5.0	<5.0	<5.0	<10	5.6[J]	<100	<0.20	11,000	17,000	7.8	<4.8	<0.097	-72.20	-8.75
DM-3	6/1/2017	Low Flow	4,800	2,000	<5.5	240	<0.10	3,900	19	<1.0	55	<10	15	18	<5.0	<10	<5.0	<5.0	<5.0	3.9[J]	2.7[J]	<100	<0.20	11,000	16,000	7.9	<5.1	<0.095	-70.80	-8.71
DM-3	12/5/2017	Low Flow	4,880	2,020	2.77	230	0.027	1,200	31	0.073[J]	59	<2.5	15	15	<2.5	<2.5	<2.5	<2.5	-	<2.5	<2.5	5.6	<0.50	13,000	17,000	7.8	<5.0	<0.10	-69.57	-8.87
DM-3	5/30/2018	Low Flow	6,350	2,600	10.7	260	0.11[J]	4,100	61	<10	61	<0.50	14	15	<0.50	<5.0	<0.50	<0.50	-	<0.50	<5.0	<5.0	<0.50	12,000	17,100	7.9	<5.0	<0.11	-70.60	-8.67

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Genesis Solar Energy Project, Riverside County, California

Well ID	Date Sampled	Sampling Method	Chloride (mg/L)	Sulfate (SO4) (mg/L)	Nitrate (NO3)-N (mg/L)	Calcium (mg/L)	Copper (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Iron (mg/L)	Magnesium (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Cadmium (ug/L)	Chromium (All Species) (ug/L)	Cobalt (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Zinc (ug/L)	Mercury (ug/L)	Total Dissolved Solids (mg/L)	Specific Conductance (us/cm)	pH (standard Units)	Oil & Grease / HEM (mg/L)	HTF† (mg/L)	Deuterium (‰ relative to VSMOW)	Oxygen-18 (‰ relative to VSMOW)
			EPA Method 300.0			EPA Method 200.7						EPA Method 200.8												SM7470A	SM2540C	SM2510B	SM4500H	SM1664A	8015B	Isotope Geochemistry	
DM-3	12/4/2018	Low Flow	6,770	2,840	2.50	280	<0.5	5,200	33	<20	69	<10	20	34	<10	<10	<10	<10	-	<10	<10	<10	<0.50	9,700	17,100	7.8	<5.0	<0.10	-70.60	-8.67
DM-3	6/14/2019	Low Flow	4,880	1,960	2.87	270	0.009	4,900	60	<0.20	59	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<0.50	9,300	16,800	7.5	<5.0	<0.10	-70.80	-8.69
DM-3	12/6/2019	Low Flow	9,760	4,350	3.52	240	0.006	4,100	31	<0.20	58	<5.0	11	18	<5.0	0.90 J	<5.0	<5.0	-	<5.0	0.40 J	51	<0.50	11,000	17,800	7.7	<5.0	<0.10	-70.50	-8.64
DM-3	6/5/2020	Low Flow	5,250	2,080	2.44	230	0.007	4,000	35	<0.20	48	<5.0	16	17	<5.0	<5.0	<5.0	<5.0	-	<5.0	6.4	13	<0.50	11,000	17,400	7.5	<5.0	<0.097	-70.70	-8.65
DM-3	12/3/2020	Low Flow	5,420	2,300	2.47	220	<0.005	9,100	29	<0.20	45	<5.0	<5.0	20	<5.0	<5.0	<5.0	<5.0	-	<5.0	0.68	0.55	<0.50	10,000	17,000	7.9	<5.0	<0.11	-70.90	-8.71
DM-3	6/3/2021	Low Flow	5,380	2,130	2.44	190	<0.50	3,500	<50	<20	48	<10	17	18	<10	<10	<10	<10	-	<10	20	10	<0.50	7,700	17,400	7.7	<5.0	<0.093	-70.40	-8.69
DM-3	12/2/2021	Low Flow	5,230	2,020	3.06	220	<0.50	4,000	<50	<20	53	<10	26	17	<10	<10	<10	<10	-	<10	11	<10	<1.0	12,000	17,400	7.8	<5.0	<0.094	-70.60	-8.69
DM-3	6/2/2022	Low Flow	5,570	2,110	2.82	240	<2.5	4,500	<250	<100	59	<50	<50	<50	<50	<50	<50	<50	-	<50	55	50	<1.0	8,500	17,400	7.8	<5.0	<0.090	-70.50	-8.71
DM-3	12/1/2022	Low Flow	5,300	2,110	3.11	210	<0.005	4,400	55	<0.20	56	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	9,900	17,600	7.8	<5.0	<0.099	-70.50	-8.71
DM-3	6/8/2023	Low Flow	5,230	2,100	2.61	240	<0.50	4,200	<50	<20	66	<10	16	17	<10	<10	<10	<10	-	<10	<10	<10	<1.0	9,800	17,600	7.7	<5.0	<0.099	-71.10	-8.76
DM-3	12/7/2023	Low Flow	5,300	1,940	2.65	220	<0.50	4,100	<50	<20	60	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	18,100	8.0	<5.0	<0.099	-71.50	-8.76
DM-3	6/6/2024	Low Flow	4,650	2,060	3.01	220	<0.50	4,100	<50	<20	59	<5.0	17	15	<5.0	<5.0	<5.0	<5.0	-	<5.0	5.6	6.2	<1.0	9,900	18,200	8.0	<5.0	<0.100	-70.40	-8.67
DM-3	12/5/2024	Low Flow	5,320	1,980	2.62	220	<0.50	4,100	<50	<20	59	<25	<25	<25	<25	<25	<25	<25	-	<25	<25	<25	<1.0	10,000	17,700	8.0	<5.0	<0.095	-71.20	-8.83
DM-3	6/3/2025	Low Flow	5,210	2,070	2.21	260	<0.50	4,200	<50	<20	50	<10	16	17	<10	<10	<10	<10	-	<10	11	<10	<1.0	12,000	17,900	7.7	<5.0	<0.096	-71.40	-8.76
DM-3	12/5/2025	Low Flow	3,860	1,440	2.26	230	<0.50	3,800	<50	<20	54	<20	<20	<20	<20	<20	<20	<20	-	<20	20	<20	<1.0	11,000	17,400	7.8	<5.0	<0.093	-70.40	-8.80
North Pond	6/1/2018	Composite	61,700	21,000	0.870	230	<0.015	12,000	430	<0.35	4.6 J	<10	470	230	<10	<0.50	<10	<0.50	-	25	<25	62	<0.50	120,000	148,000	9.4	<1.40	<0.095	N/A	N/A
North Pond	12/3/2018	Composite	241,000	18,600	24.3	630	2.9	46,000	8,300	<20	27	<25	1,000	68	<25	<25	<25	<25	-	59	<25	<25	<0.50	400,000	241,000	7.6	<5.00	<0.099	N/A	N/A
North Pond	6/13/2019	Composite	39,800	12,000	<0.500	280	0.038	41,000	<0.10	<0.20	5.7	<10	25	12	<10	<10	<10	<10	-	<10	<10	-	<0.50	72,000	108,000	9.1	<5.00	<0.094	N/A	N/A
North Pond	12/5/2019	Composite	83,000	27,000	<500	380	0.090	43,000	340	<0.20	3.0	<5.0	800	200	<5.0	<50	<50	<5.0	-	<50	<50	4,300	<0.50	120,000	120,000	8.8	<5.00	<0.095	N/A	N/A
North Pond	6/4/2020	Composite	40,900	11,300	27.4	510	3.4	20,000	240	<20	570	<25	560	76	<25	<25	<25	<25	-	<25	38	39	<0.50	70,000	107,000	9.4	<5.00	<0.090	N/A	N/A
North Pond	12/3/2020	Composite	38,000	11,800	7.73	390	<0.5	30,000	250	<20	19	<25	8.7	330	<25	<25	<25	<25	-	<25	0.81	0.81	<0.50	57,000	95,000	8.9	<5.00	<0.10	N/A	N/A
North Pond	6/4/2021	Composite	48,200	15,200	53.1	400	<0.50	31,000	230	<20	12	<25	510	130	<25	<25	<25	<25	-	30	53	<25	<0.50	16,000	119,000	9.4	<5.00	<0.087	N/A	N/A
North Pond	12/2/2021	Composite	57,500	18,600	<50.0	470	<0.50	44,000	300	<20	17	<20	640	170	<20	<20	<20	<20	-	<20	31	<20	<1.0	91,000	142,000	8.9	<5.00	<0.092	N/A	N/A
North Pond	6/2/2022	Composite	86,200	30,400	47.8	<100	<5.0	79,000	<500	<200	<100	<50	940	300	<50	<50	<50	<50	-	<50	89	<50	<1.0	180,000	175,000	8.6	<5.00	<0.098	N/A	N/A
North Pond	12/1/2022	Composite	24,200	8,040	47.8	250	<1.2	21,000	<250	<50	<25	<25	340	170	<25	<25	<25	<25	-	<25	41	56	<1.0	41,000	70,300	8.4	<5.00	<0.100	N/A	N/A
North Pond	6/8/2023	Composite	28,700	7,800	1,910	380	<2.0	23,000	<200	<80	<40	<10	340	280	<10	<10	<10	<10	-	<10	<10	<10	<1.0	46,000	75,500	8.8	<5.00	<0.099	N/A	N/A
North Pond	12/7/2023	Composite	37,200	9,530	<250	390	<2.0	28,000	<200	<80	<40	<25	420	100	<25	<25	<25	<25	-	<25	<25	<25	<1.0	65,000	100,000	9.1	<5.00	<0.100	N/A	N/A
North Pond	6/6/2024	Composite	57,700	17,000	44.6	410	<0.50	4,500	310	<20	16	<50	460	140	<50	<50	<50	<50	-	<50	66	<50	<1.0	110,000	147,000	8.7	<5.00	<0.088	N/A	N/A
North Pond	12/5/2024	Composite	146,000	15,900	82.3	680	<0.50	90,000	930	<20	49	<25	1,100	270	<25	<25	<25	<100	-	<25	62	<25	<1.0	17,000	237,000	7.9	<5.00	<0.084	N/A	N/A
North Pond	6/3/2025	Composite	143,000	47,300	<500	63	<0.50	76,000	1,200	<20	49	<20	1,400	<20	<20	<20	<20	<20	-	20	110	<20	<1.0	340,000	233,000	7.8	<5.00	<0.082	N/A	N/A
North Pond	12/5/2025	Composite	108,000	10,400	<250	130	<0.50	64,000	720	<20	<10	<20	1,500	72	<20	<20	<20	<20	-	<20	93	34	<1.0	210,000	208,000	8.3	<5.00	<0.096	N/A	N/A
South Pond	6/1/2018	Composite	152,000	59,500	22.2	27	<0.015	17,000	1,100	<0.35	17	<10	1,100	85	<25	<10	<10	<0.50	-	46	43	79	<0.50	310,000	218,000	8.3	<1.40	<0.090	N/A	N/A
South Pond	12/3/2018	Composite	33,200	8,710	65.1	410	2.8	34,000	420	<20	27	<25	390	310	<25	<25	<25	<25	-	<25	<25	160	<0.50	39,000	61,200	8.9	36.4	<0.097	N/A	N/A
South Pond	6/13/2019	Composite	38,700	10,800	57.2	430	0.064	40,000	<0.10	<0.20	16	<10	28	25	<10	<10	<10	<10	-	<10	<10	-	<0.50	68,000	104,000	9.3	<5.00	<0.097	N/A	N/A
South Pond	12/5/2019	Composite	30,000	6,770	2.17	200	0.041	14,000	160	<0.20	13	<5.0	200	170	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	190	<0.50	35,000	49,700	9.0	<5.00	<0.099	N/A	N/A
South Pond	6/4/2020	Composite	74,600	23,900	14.8	390	4.2	62,000	470	<20	1,100	<25	1,100	360	<25	<25	<25	<25	-	36	68	48	<0.50	130,000	166,000	8.8	<5.00	<0.091	N/A	N/A
South Pond	12/3/2020	Composite	73,700	16,600	10.6	370	<0.5	42,000	480	<20	23	<25	14	290	<25	<25	<25	<25	-	<25	0.73	3.0	<0.50	92,000	150,000	8.6	<5.00	<0.099	N/A	N/A
South Pond	6/4/2021	Composite	91,000	22,300	<50.0	420	<0.50	55,000	620	<20	29	<25	1,100	420	<25	<25	<25	<25	-	56	69	100	<0.50	25,000	183,000	9.0	<5.00	<0.091	N/A	N/A
South Pond	12/2/2021	Composite	24,000	6,560	<50.0	240	<0.50	19,000	150	<20	16	<10	290	200	<10	<10	<10	<20	-	21	18	64	<1.0	38,000	67,500	8.9	<5.00	<0.090	N/A	N/A
South Pond	6/2/2022	Composite	80,200	21,900	45.2	300	<5.0	65,000	<500	<200	100	<50	920	310	<50	<50	<50	<50	-	<50	82	<50	<1.0	140,000	168,000	8.4	<5.00	<0.095	N/A	N/A
South Pond	12/1/2022	Composite	24,000	5,500	<25.0	300	<1.2	20,000	<250	<50	<25	<25	260	210	<25	<25	<25	<25	-	<25	59	60	<1.0	35,000	67,400	8.5	<5.00	<0.100	N/A	N/A
South Pond	6/8/2023	Composite	25,800	5,600	959	270	<2.0	19,000	<200	<80	<40	<10	280	210	<10	<10	<10	<10	-	<10	12	39	<1.0	22,000	66,300	8.2	<5.00	<0.099	N/A	N/A
South Pond	12/7/2023	Composite	17,900	4,040	449	240	<2.0	17,000	<200	<80	<40	<25	250	190	<25	<25	<25	<25	-	<25	<25	170	<1.0	35,000	59,500	9.3	<5.00	<0.100	N/A	N/A
South Pond	6/6/2024	Composite	53,600	11,800	44.7	460	<0.50	4,000	340	<20	30	<50	540	390	<50	<50	<50	<50	-	<50	52	<50	<1.0	110,000	142,000	9.1	<4.47	<0.092	N/A	N/A
South Pond	12/5/2024	Composite	39,600	10,400	104	510	<0.50	48,000	400	<20	36	<25	500	290	<25	<25	<25	<50	-	<25	58	<25	<1.0	2,800	113,000	9.2	<5.00	<0.093	N/A	N/A
South Pond	6/3/2025	Composite	43,300	13,200	<500	380	<0.50	22,000	270	<20	24	<10	500	290	<10	<10	<10	<10	-	<10	45	<10	<1.0	97,000	127,000	9.4	<5.00	<0.096	N/A	N/A
South Pond	12/5/2025	Composite	30,700	6,580	<250	200	<0.50	20,000	160	<20	15	<20	320	150	<20	<20	<20	<20	-	<20	63	250	<1.0	59,000	78,200	9.1	<5.00	<0.085	N/A	N/A

NOTES:

mg/L = milligrams per liter

ug/L = micrograms per liter

uS/cm = microsiemens per centimeter

‰ = parts per thousand

VSMOW = Vienna Standard Mean Ocean Water

< = not detected at or above the indicated reporting limit

- = information is unknown / not applicable / not analyzed

J - Result is less than the reporting limit but greater than or equal to the method detection limit, thus the concentration is an approximate value.

† - Heat Transfer Fluid (HTF) is characterized by the analytes 1,1'-oxybis-benzene and 1,1'-biphenyl.

1 - Duplicate sample

2 - Analytical results not available at time of reporting due to laboratory equipment failure.

Analytical data shaded grey is a monitored Contaminant of Concern as defined in the Waste Discharge Requirements, Condition 79, Page 16

TABLE 5

SUMMARY OF POND DRAINAGE SUMP DATA

Genesis Solar Energy Project, Riverside County, California

	Sensor Readings[1]														
	North Pond							South Pond							
Date of Reading	#1W	#2W	#3W	#1E	#2E	#3E	Totalizer	#1W	#2W	#3W	#1E	#2E	#3E	Totalizer	Comments
1st Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	All probes are dry
2nd Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
3rd Qtr 2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
12/05/2014	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
03/26/2015	199	199	199	199	199	199	-	199	199	199	199	199	199	-	
06/12/2015	133	199	199	199	199	199	-	199	199	199	199	199	199	-	
09/03/2015	78	199	199	199	199	199	-	199	199	199	199	199	199	-	
09/15/2015	67	199	199	199	199	199	-	199	199	199	199	199	199	-	
12/10/2015	0	75	199	199	199	199	-	199	199	199	199	199	199	-	Sump pumps turned on - no water
03/01/2016	6	101	199	199	199	199	-	199	199	199	199	199	199	-	
06/02/2016	4	80	199	199	199	199	-	199	199	199	199	199	199	-	
09/01/2016	0	42	146	199	175	105	-	199	199	199	199	199	199	-	
12/01/2016	0	59	199	199	199	188	1,144.79	199	199	199	183	199	199	24.21	Readings on arrival
12/01/2016	199	199	199	199	199	199	1,144.79	199	199	199	183	199	199	24.21	Readings on departure, new probes in North Pond
03/02/2017	199	199	199	199	199	199	1,144.79	199	199	199	199	199	199	24.21	
06/01/2017	199	199	199	199	199	199	1,144.79	199	199	199	199	199	199	24.21	
09/04/2017	199	199	199	199	199	199	1,695.44	199	199	199	192	178	199	24.21	
12/05/2017	114	165	199	199	179	180	1,695.66	199	199	199	166	199	199	24.21	To date, all totalizer increases are from pump testing
03/06/2018	186	199	199	199	199	199	1,695.66	199	199	199	199	199	199	24.21	
06/01/2018	159	199	199	199	199	199	1,695.66	199	199	199	177	186	199	24.21	
09/12/2018	78	192	199	199	199	192	1,694.83	199	199	199	197	187	199	24.21	
12/03/2018	119	181	199	199	199	199	1,688.26	199	199	199	199	168	199	24.21	
03/08/2019	150	199	199	199	199	199	1,690.80	199	199	199	115	168	199	24.21	
06/13/2019	199	199	199	199	199	199	1,687.19	199	199	199	188	199	199	24.21	
09/08/2019	199	199	199	199	199	199	1,686.68	199	199	199	188	199	199	24.21	
12/05/2019	145	199	199	199	199	199	1,683.78	199	199	199	199	199	199	24.21	
03/17/2020	168	199	199	199	199	199	1,681.87	199	199	199	199	199	199	24.21	
06/04/2020	109	199	199	199	199	199	1,657.23	199	199	199	199	199	199	22.64	
09/16/2020	199	199	199	199	199	199	1,619.72	199	199	199	199	199	199	20.34	
12/03/2020	98	199	199	199	199	199	1,624.77	199	199	199	199	199	199	20.34	
03/23/2021	104	199	199	199	199	199	1,628.91	199	199	199	199	199	199	20.34	
06/04/2021	119	199	199	199	199	199	2,017.91	199	199	199	199	199	199	205.98	Sump pumps tested prior to readings
09/21/2021	89	199	199	199	199	199	2,188.61	199	199	199	199	199	199	197.30	
12/02/2021	97	199	199	199	199	199	2,186.30	199	199	199	199	199	199	N/A[2]	
03/30/2022	134	199	199	199	199	199	2,183.93	199	199	199	199	199	199	N/A[2]	
06/02/2022	151	199	199	199	199	199	7.48	199	199	199	189	199	199	7.48	New pumps and totalizers installed in 2nd quarter
08/04/2022	109	191	199	199	199	105	605.44	199	199	199	188	199	199	7.48	Verification readings following leak reported by NextEra
09/30/2022	105	189	199	199	199	122	605.44	199	199	199	199	199	199	7.48	
12/01/2022	103	179	199	199	197	176	605.55	171	199	199	189	174	199	7.48	
03/29/2023	181	199	199	199	199	199	605.55	199	199	199	199	199	199	7.48	
06/08/2023	56	198	199	199	199	196	605.55	199	199	199	198	199	199	7.48	
09/28/2023	75	153	199	199	199	149	605.55	199	199	199	199	199	199	7.48	Moisture under both western caps
12/07/2023	70	110	199	199	199	98	605.55	199	199	199	167	199	199	7.48	Moisture under north pond, western cap
03/27/2024	199	199	199	199	199	199	607.01	199	199	199	198	199	199	7.48	Moisture under north pond, western cap
06/06/2024	130	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps
09/24/2024	119	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	Moisture under north pond, western cap
12/05/2024	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	Moisture under north pond, western cap
03/26/2025	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps
06/03/2025	199	199	199	199	199	199	607.01	199	199	199	199	199	199	7.48	No moisture observed under caps
09/23/2025	199	199	199	199	199	199	1,011.75	199	199	199	199	199	199	7.48	No moisture observed under caps
12/05/2025	199	146	199	199	140	139	1,012.04	199	199	199	199	199	199	7.48	Moisture observed under all caps

1 - Readings in centibars, collected with a Watermark 30 KTCD-NL Soil Moisture Meter

2 - Pump totalizer not functioning

APPENDIX A

FIELD DATA SHEETS

GROUNDWATER SAMPLING FIELD FORM

Date: 12/05/2025	Site: Genesis Solar Energy Project	Project No: 196-004-07
Project: Groundwater Detection Monitoring Program		Project Manager: AWB
Technicians: AWB, STA		Weather: Cool, clear
Sampling Method: Low-flow sampling with submersible pump (EPA 2017 protocols) and flow-through cell		

Well No.	DM-1	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	8:15	107.80	18.2	7.88	19.2	168.0	+147	7.43
Total Depth (ft btoc)	120	8:20	107.80	21.9	7.83	18.6	131.0	+143	6.80
Screen Interval (ft btoc)	100 - 120	8:25	107.79	24.8	8.06	18.5	115.0	+143	7.70
Depth to Water (ft btoc)	107.75	8:30	107.82	24.8	7.83	18.6	136.0	+143	8.14
Depth of Inlet (ft btoc)	115.00	8:35	107.80	25.0	7.83	18.6	120.0	+140	8.14
Discharge Time (sec)	30	8:40	107.80	24.8	7.83	18.6	131.0	+138	8.15
Fill Time (sec)	20								
Cycles per Minute	1.2								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	180								
Volume Purged (mL)	5,400								
Sample Date	12/05/25								
Sample Time	8:45								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = **1,327 mL**

Well No.	DM-2	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	9:30	108.30	19.9	7.64	17.6	97.8	+153	8.88
Total Depth (ft btoc)	120	9:35	108.40	21.6	7.72	18.4	67.4	+150	8.74
Screen Interval (ft btoc)	100 - 120	9:40	108.51	22.9	7.73	18.5	81.3	+144	8.44
Depth to Water (ft btoc)	107.90	9:45	108.57	22.8	7.73	18.6	83.2	+141	8.36
Depth of Inlet (ft btoc)	115.00	9:50	108.65	23.0	7.74	18.7	84.4	+139	8.40
Discharge Time (sec)	28								
Fill Time (sec)	37								
Cycles per Minute	0.9								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	138								
Volume Purged (mL)	3,450								
Sample Date	12/05/25								
Sample Time	9:50								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = **1,845 mL**

Well No.	DM-3	Time (5 Min Int)	Water Level (ft btoc)	Temp °C (3%)	pH (+/- 0.1)	Cond (mS/cm) (3%)	Turbidity (NTUs) (10%)	ORP (mV) (+/- 10)	DO (mg/L) (10%)
Casing Diameter (in.)	4.0	10:50	104.88	21.7	7.74	18.8	67.1	+139	8.25
Total Depth (ft btoc)	120	10:55	104.85	25.2	7.77	18.1	35.4	+130	7.51
Screen Interval (ft btoc)	100 - 120	11:00	104.86	25.1	7.78	18.3	33.5	+125	7.04
Depth to Water (ft btoc)	104.88	11:05	104.87	25.2	7.79	18.2	31.9	+125	6.95
Depth of Inlet (ft btoc)	115.00	11:10	104.87	25.3	7.79	18.3	27.0	+123	7.03
Discharge Time (sec)	28								
Fill Time (sec)	35								
Cycles per Minute	1.0								
Volume per Cycle (mL)	150								
Pump Rate (mL/min)	143								
Volume Purged (mL)	3,575								
Sample Date	12/05/25								
Sample Time	11:10								

Purge Volume Calculation: Total must exceed tubing volume (1,204 mL) plus drawdown volume (2,460 mL/foot) = **1,204 mL**

APPENDIX B

LABORATORY ANALYTICAL RESULTS

MONITORING WELLS AND EVAPORATION PONDS

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25712 Commercentre Drive
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05 January 2026

Arlin Brewster
Northstar Environmental Remediation
26225 Enterprise Court
Lake Forest, CA 92630

RE: Genesis Solar Groundwater

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
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949.297.5027 Fax

Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DM-1	T254963-01	Water	12/05/25 08:45	12/05/25 15:20
DM-2	T254963-02	Water	12/05/25 09:50	12/05/25 15:20
DM-3	T254963-03	Water	12/05/25 11:10	12/05/25 15:20
North Pond	T254963-04	Water	12/05/25 06:55	12/05/25 15:20
South Pond	T254963-05	Water	12/05/25 07:05	12/05/25 15:20

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Jeff Lee, Project Manager

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DETECTIONS SUMMARY

Sample ID: DM-1 **Laboratory ID:** T254963-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**25**	20	ug/l	200.8	FILT, R-01
Calcium	**240**	50	mg/l	EPA 200.7	FILT
Magnesium	**58**	10	mg/l	EPA 200.7	FILT
Sodium	**3800**	50	mg/l	EPA 200.7	FILT
pH	**8.0**	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	**11000**	10	mg/l	TDS by SM2540C	
Specific Conductance (EC)	**17800**	10.0	mho/cm @25°(	SM2510b mod.	
pH Temperature °C	**21**		pH Units	SM 4500-H+B	
Chloride	**5270**	500	mg/l	EPA 300.0	
Sulfate as SO4	**2210**	500	mg/l	EPA 300.0	
Nitrate as NO3	**8.00**	0.500	mg/l	EPA 300.0	O-07
Nitrate as N	**1.81**	0.200	mg/l	EPA 300.0	O-07

Sample ID: DM-2 **Laboratory ID:** T254963-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**33**	20	ug/l	200.8	FILT, R-01
Calcium	**250**	50	mg/l	EPA 200.7	FILT
Magnesium	**59**	10	mg/l	EPA 200.7	FILT, R-07
Sodium	**3900**	50	mg/l	EPA 200.7	FILT
pH	**7.8**	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	**11000**	10	mg/l	TDS by SM2540C	
pH Temperature °C	**20**		pH Units	SM 4500-H+B	
Specific Conductance (EC)	**17800**	10.0	mho/cm @25°(	SM2510b mod.	
Chloride	**3610**	500	mg/l	EPA 300.0	
Sulfate as SO4	**1330**	500	mg/l	EPA 300.0	
Nitrate as NO3	**11.3**	0.500	mg/l	EPA 300.0	O-07
Nitrate as N	**2.56**	0.200	mg/l	EPA 300.0	O-07

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Sample ID: DM-3 **Laboratory ID:** T254963-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Calcium	**230**	50	mg/l	EPA 200.7	FILT
Magnesium	**54**	10	mg/l	EPA 200.7	FILT
Selenium	**20**	20	ug/l	200.8	FILT, R-01
Sodium	**3800**	50	mg/l	EPA 200.7	FILT
pH	**7.8**	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	**11000**	10	mg/l	TDS by SM2540C	
Specific Conductance (EC)	**17400**	10.0	mho/cm @25°(	SM2510b mod.	
pH Temperature °C	**20**		pH Units	SM 4500-H+B	
Chloride	**3860**	500	mg/l	EPA 300.0	
Sulfate as SO4	**1440**	500	mg/l	EPA 300.0	
Nitrate as NO3	**2.26**	0.500	mg/l	EPA 300.0	O-07
Nitrate as N	**0.511**	0.200	mg/l	EPA 300.0	O-07

Sample ID: North Pond **Laboratory ID:** T254963-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic	**1500**	20	ug/l	200.8	FILT, R-01
Barium	**72**	20	ug/l	200.8	FILT, R-01
Calcium	**130**	50	mg/l	EPA 200.7	FILT
Selenium	**93**	20	ug/l	200.8	FILT, R-01
Potassium	**720**	50	mg/l	EPA 200.7	FILT
Zinc	**34**	20	ug/l	200.8	FILT, R-01
Sodium	**64000**	500	mg/l	EPA 200.7	FILT
Total Dissolved Solids	**210000**	10	mg/l	TDS by SM2540C	
pH	**8.3**	0.10	pH Units	SM 4500-H+B	
Specific Conductance (EC)	**208000**	10.0	mho/cm @25°(	SM2510b mod.	
pH Temperature °C	**21**		pH Units	SM 4500-H+B	
Chloride	**108000**	5000	mg/l	EPA 300.0	
Sulfate as SO4	**10400**	5000	mg/l	EPA 300.0	

Sample ID: South Pond **Laboratory ID:** T254963-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Arsenic	**320**	20	ug/l	200.8	FILT, R-01
Barium	**150**	20	ug/l	200.8	FILT, R-01

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Jeff Lee, Project Manager

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26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Sample ID: South Pond **Laboratory ID:** T254963-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Calcium	**200**	50	mg/l	EPA 200.7	FILT
Magnesium	**15**	10	mg/l	EPA 200.7	FILT
Selenium	**63**	20	ug/l	200.8	FILT, R-01
Potassium	**160**	50	mg/l	EPA 200.7	FILT
Zinc	**250**	20	ug/l	200.8	FILT, R-01
Sodium	**20000**	500	mg/l	EPA 200.7	FILT
pH	**9.1**	0.10	pH Units	SM 4500-H+B	
Total Dissolved Solids	**59000**	10	mg/l	TDS by SM2540C	
Specific Conductance (EC)	**78200**	10.0	mho/cm @25°C	SM2510b mod.	
pH Temperature °C	**21**		pH Units	SM 4500-H+B	
Chloride	**30700**	5000	mg/l	EPA 300.0	
Sulfate as SO4	**6580**	5000	mg/l	EPA 300.0	

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26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-1

T254963-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 200 Series Methods									
Calcium	**240**	50	mg/l	100	25L0146	12/06/25	12/10/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	"	"	"	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	**58**	10	"	"	"	"	"	"	FILT
Potassium	ND	50	"	"	"	"	"	"	FILT
Sodium	**3800**	50	"	"	"	"	"	"	FILT
Antimony	ND	20	ug/l	40	25L0147	12/06/25	12/09/25	200.8	FILT, R-01
Arsenic	ND	20	"	"	"	"	"	"	FILT, R-01
Barium	**25**	20	"	"	"	"	"	"	FILT, R-01
Cadmium	ND	20	"	"	"	"	"	"	FILT, R-01
Chromium	ND	20	"	"	"	"	"	"	FILT, R-01
Cobalt	ND	20	"	"	"	"	"	"	FILT, R-01
Lead	ND	20	"	"	"	"	"	"	FILT, R-01
Nickel	ND	20	"	"	"	"	"	"	FILT, R-01
Selenium	ND	20	"	"	"	"	"	"	FILT, R-01
Zinc	ND	20	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25L0148	12/06/25	12/09/25	EPA 7470A Water	FILT
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Oil & Grease	ND	5.00	mg/l	1	25L0142	12/08/25	12/08/25	EPA 1664B	
Specific Conductance (EC)	**17800**	10.0	umho/cm @25°C	"	25L0166	12/08/25	12/08/25	SM2510b mod.	
pH	**8.0**	0.10	pH Units	"	25L0154	12/08/25	12/08/25	SM 4500-H+B	
pH Temperature °C	**21**		"	"	"	"	"	"	
Total Dissolved Solids	**11000**	10	mg/l	"	25L0164	12/08/25	12/10/25	TDS by SM2540C	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-1

T254963-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Anions by EPA Method 300.0									
Chloride	**5270**	500	mg/l	100	25L0149	12/08/25	12/08/25	EPA 300.0	
Sulfate as SO4	**2210**	500	"	"	"	"	"	"	
Nitrate as NO3	**8.00**	0.500	"	1	"	"	12/08/25	"	O-07
Nitrate as N	**1.81**	0.200	"	"	"	"	"	"	O-07

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-2

T254963-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 200 Series Methods									
Calcium	**250**	50	mg/l	100	25L0146	12/06/25	12/10/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	"	"	"	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	**59**	10	"	"	"	"	"	"	FILT, R-07
Potassium	ND	50	"	"	"	"	"	"	FILT, R-07
Sodium	**3900**	50	"	"	"	"	"	"	FILT
Antimony	ND	20	ug/l	40	25L0147	12/06/25	12/09/25	200.8	FILT, R-01
Arsenic	ND	20	"	"	"	"	"	"	FILT, R-01
Barium	**33**	20	"	"	"	"	"	"	FILT, R-01
Cadmium	ND	20	"	"	"	"	"	"	FILT, R-01
Chromium	ND	20	"	"	"	"	"	"	FILT, R-01
Cobalt	ND	20	"	"	"	"	"	"	FILT, R-01
Lead	ND	20	"	"	"	"	"	"	FILT, R-01
Nickel	ND	20	"	"	"	"	"	"	FILT, R-01
Selenium	ND	20	"	"	"	"	"	"	FILT, R-01
Zinc	ND	20	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25L0148	12/06/25	12/09/25	EPA 7470A Water	FILT
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Oil & Grease	ND	5.57	mg/l	1	25L0142	12/08/25	12/08/25	EPA 1664B	
Specific Conductance (EC)	**17800**	10.0	umho/cm @25°C	"	25L0166	12/08/25	12/08/25	SM2510b mod.	
pH	**7.8**	0.10	pH Units	"	25L0154	12/08/25	12/08/25	SM 4500-H+B	
pH Temperature °C	**20**		"	"	"	"	"	"	
Total Dissolved Solids	**11000**	10	mg/l	"	25L0164	12/08/25	12/10/25	TDS by SM2540C	

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Jeff Lee, Project Manager

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-2

T254963-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Anions by EPA Method 300.0									
Chloride	**3610**	500	mg/l	100	25L0149	12/08/25	12/08/25	EPA 300.0	
Sulfate as SO4	**1330**	500	"	"	"	"	"	"	
Nitrate as NO3	**11.3**	0.500	"	1	"	"	12/08/25	"	O-07
Nitrate as N	**2.56**	0.200	"	"	"	"	"	"	O-07

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-3

T254963-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Metals by EPA 200 Series Methods									
Calcium	**230**	50	mg/l	100	25L0146	12/06/25	12/10/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	"	"	12/10/25	"	FILT, R-07
Iron	ND	20	"	"	"	"	12/10/25	"	FILT, R-07
Magnesium	**54**	10	"	"	"	"	"	"	FILT
Potassium	ND	50	"	"	"	"	"	"	FILT
Sodium	**3800**	50	"	"	"	"	"	"	FILT
Antimony	ND	20	ug/l	40	25L0147	12/06/25	12/09/25	200.8	FILT, R-01
Arsenic	ND	20	"	"	"	"	"	"	FILT, R-01
Barium	ND	20	"	"	"	"	"	"	FILT, R-01
Cadmium	ND	20	"	"	"	"	"	"	FILT, R-01
Chromium	ND	20	"	"	"	"	"	"	FILT, R-01
Cobalt	ND	20	"	"	"	"	"	"	FILT, R-01
Lead	ND	20	"	"	"	"	"	"	FILT, R-01
Nickel	ND	20	"	"	"	"	"	"	FILT, R-01
Selenium	**20**	20	"	"	"	"	"	"	FILT, R-01
Zinc	ND	20	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25L0148	12/06/25	12/09/25	EPA 7470A Water	FILT
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Oil & Grease	ND	5.00	mg/l	1	25L0142	12/08/25	12/08/25	EPA 1664B	
Specific Conductance (EC)	**17400**	10.0	umho/cm @25°C	"	25L0166	12/08/25	12/08/25	SM2510b mod.	
pH	**7.8**	0.10	pH Units	"	25L0154	12/08/25	12/08/25	SM 4500-H+B	
pH Temperature °C	**20**		"	"	"	"	"	"	
Total Dissolved Solids	**11000**	10	mg/l	"	25L0164	12/08/25	12/10/25	TDS by SM2540C	

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

DM-3

T254963-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by EPA Method 300.0									
Chloride	**3860**	500	mg/l	100	25L0149	12/08/25	12/08/25	EPA 300.0	
Sulfate as SO4	**1440**	500	"	"	"	"	"	"	
Nitrate as NO3	**2.26**	0.500	"	1	"	"	12/08/25	"	O-07
Nitrate as N	**0.511**	0.200	"	"	"	"	"	"	O-07

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

North Pond

T254963-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 200 Series Methods									
Calcium	**130**	50	mg/l	100	25L0146	12/06/25	12/10/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	"	"	"	"	FILT, R-07
Iron	ND	20	"	"	"	"	"	"	FILT, R-07
Magnesium	ND	10	"	"	"	"	"	"	FILT, R-07
Potassium	**720**	50	"	"	"	"	"	"	FILT
Sodium	**64000**	500	"	1000	"	"	"	"	FILT
Antimony	ND	20	ug/l	40	25L0147	12/06/25	12/09/25	200.8	FILT, R-01
Arsenic	**1500**	20	"	"	"	"	"	"	FILT, R-01
Barium	**72**	20	"	"	"	"	"	"	FILT, R-01
Cadmium	ND	20	"	"	"	"	"	"	FILT, R-01
Chromium	ND	20	"	"	"	"	"	"	FILT, R-01
Cobalt	ND	20	"	"	"	"	"	"	FILT, R-01
Lead	ND	20	"	"	"	"	"	"	FILT, R-01
Nickel	ND	20	"	"	"	"	"	"	FILT, R-01
Selenium	**93**	20	"	"	"	"	"	"	FILT, R-01
Zinc	**34**	20	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25L0148	12/06/25	12/09/25	EPA 7470A Water	FILT
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Oil & Grease	ND	5.00	mg/l	1	25L0142	12/08/25	12/08/25	EPA 1664B	
Specific Conductance (EC)	**208000**	10.0	umho/cm @25°C	"	25L0166	12/08/25	12/08/25	SM2510b mod.	
pH	**8.3**	0.10	pH Units	"	25L0154	12/08/25	12/08/25	SM 4500-H+B	
pH Temperature °C	**21**		"	"	"	"	"	"	
Total Dissolved Solids	**210000**	10	mg/l	"	25L0164	12/08/25	12/10/25	TDS by SM2540C	

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Jeff Lee, Project Manager

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

North Pond

T254963-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Anions by EPA Method 300.0									
Chloride	**108000**	5000	mg/l	1000	25L0149	12/08/25	12/08/25	EPA 300.0	
Sulfate as SO4	**10400**	5000	"	"	"	"	"	"	
Nitrate as NO3	ND	250	"	500	"	"	12/08/25	"	O-07, R-01
Nitrate as N	ND	100	"	"	"	"	"	"	O-07, R-01

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Jeff Lee, Project Manager

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

South Pond

T254963-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 200 Series Methods									
Calcium	**200**	50	mg/l	100	25L0146	12/06/25	12/10/25	EPA 200.7	FILT
Copper	ND	0.50	"	"	"	"	12/10/25	"	FILT, R-07
Iron	ND	20	"	"	"	"	12/10/25	"	FILT, R-07
Magnesium	**15**	10	"	"	"	"	"	"	FILT
Potassium	**160**	50	"	"	"	"	"	"	FILT
Sodium	**20000**	500	"	1000	"	"	"	"	FILT
Antimony	ND	20	ug/l	40	25L0147	12/06/25	12/09/25	200.8	FILT, R-01
Arsenic	**320**	20	"	"	"	"	"	"	FILT, R-01
Barium	**150**	20	"	"	"	"	"	"	FILT, R-01
Cadmium	ND	20	"	"	"	"	"	"	FILT, R-01
Chromium	ND	20	"	"	"	"	"	"	FILT, R-01
Cobalt	ND	20	"	"	"	"	"	"	FILT, R-01
Lead	ND	20	"	"	"	"	"	"	FILT, R-01
Nickel	ND	20	"	"	"	"	"	"	FILT, R-01
Selenium	**63**	20	"	"	"	"	"	"	FILT, R-01
Zinc	**250**	20	"	"	"	"	"	"	FILT, R-01
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	1.0	ug/l	1	25L0148	12/06/25	12/09/25	EPA 7470A Water	FILT
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Oil & Grease	ND	5.00	mg/l	1	25L0142	12/08/25	12/08/25	EPA 1664B	
Specific Conductance (EC)	**78200**	10.0	umho/cm @25°C	"	25L0166	12/08/25	12/08/25	SM2510b mod.	
pH	**9.1**	0.10	pH Units	"	25L0154	12/08/25	12/08/25	SM 4500-H+B	
pH Temperature °C	**21**		"	"	"	"	"	"	
Total Dissolved Solids	**59000**	10	mg/l	"	25L0164	12/08/25	12/10/25	TDS by SM2540C	

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

South Pond

T254963-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Anions by EPA Method 300.0									
Chloride	**30700**	5000	mg/l	1000	25L0149	12/08/25	12/08/25	EPA 300.0	
Sulfate as SO4	**6580**	5000	"	"	"	"	"	"	
Nitrate as NO3	ND	250	"	500	"	"	12/08/25	"	O-07, R-01
Nitrate as N	ND	100	"	"	"	"	"	"	O-07, R-01

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0146 - EPA 3010A										
Blank (25L0146-BLK1)				Prepared: 12/06/25 Analyzed: 12/10/25						
Calcium	ND	0.50	mg/l							
Copper	ND	0.005	"							
Iron	ND	0.20	"							
Magnesium	ND	0.10	"							
Potassium	ND	0.50	"							
Sodium	ND	0.50	"							
LCS (25L0146-BS1)				Prepared: 12/06/25 Analyzed: 12/10/25						
Calcium	1.97	0.50	mg/l	2.00		98.6	80-120			
Copper	2.00	0.005	"	2.00		100	85-115			
Iron	1.99	0.20	"	2.00		99.6	80-120			
Magnesium	1.97	0.10	"	2.00		98.7	80-120			
Potassium	1.93	0.50	"	2.00		96.3	80-120			
Sodium	1.93	0.50	"	2.00		96.3	80-120			
Matrix Spike (25L0146-MS1)	**Source: T254963-01**			Prepared: 12/06/25 Analyzed: 12/10/25						
Calcium	253	50	mg/l	2.00	237	813	70-130			QM-4X
Copper	1.80	0.50	"	2.00	ND	89.8	70-130			
Iron	1.40	20	"	2.00	ND	69.8	70-130			QM-07, R-07
Magnesium	62.7	10	"	2.00	58.1	228	70-130			QM-4X
Potassium	20.4	50	"	2.00	ND	NR	70-130			QM-4X
Sodium	4060	50	"	2.00	3820	NR	70-130			QM-4X
Matrix Spike Dup (25L0146-MSD1)	**Source: T254963-01**			Prepared: 12/06/25 Analyzed: 12/10/25						
Calcium	243	50	mg/l	2.00	237	302	70-130	4.12	30	QM-4X
Copper	1.71	0.50	"	2.00	ND	85.6	70-130	4.77	30	
Iron	1.65	20	"	2.00	ND	82.3	70-130	16.4	30	R-07
Magnesium	60.3	10	"	2.00	58.1	112	70-130	3.78	30	
Potassium	19.7	50	"	2.00	ND	987	70-130	3.04	30	QM-4X
Sodium	3850	50	"	2.00	3820	NR	70-130	5.24	30	QM-4X

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Metals by EPA 200 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0147 - EPA 3010A										
Blank (25L0147-BLK1)				Prepared: 12/06/25 Analyzed: 12/09/25						
Antimony	ND	0.50	ug/l							R-01
Arsenic	ND	0.50	"							R-01
Barium	ND	0.50	"							R-01
Cadmium	ND	0.50	"							R-01
Chromium	ND	0.50	"							R-01
Cobalt	ND	0.50	"							R-01
Lead	ND	0.50	"							R-01
Nickel	ND	0.50	"							R-01
Selenium	ND	0.50	"							R-01
Zinc	ND	0.50	"							R-01
LCS (25L0147-BS1)				Prepared: 12/06/25 Analyzed: 12/09/25						
Arsenic	23.4	0.50	ug/l	25.0		93.8	85-115			R-01
Barium	24.2	0.50	"	25.0		96.6	85-115			R-01
Cadmium	23.8	0.50	"	25.0		95.3	85-115			R-01
Chromium	23.1	0.50	"	25.0		92.6	85-115			R-01
Lead	23.6	0.50	"	25.0		94.5	85-115			R-01
Matrix Spike (25L0147-MS1)	**Source: T254963-02**			Prepared: 12/06/25 Analyzed: 12/09/25						
Arsenic	28.0	20	ug/l	25.0	7.60	81.6	70-130			R-01
Barium	55.6	20	"	25.0	33.2	89.6	70-130			R-01
Cadmium	24.0	20	"	25.0	1.20	91.2	70-130			R-01
Chromium	26.8	20	"	25.0	4.40	89.6	70-130			R-01
Lead	24.0	20	"	25.0	ND	96.0	70-130			R-01
Matrix Spike Dup (25L0147-MSD1)	**Source: T254963-02**			Prepared: 12/06/25 Analyzed: 12/09/25						
Arsenic	35.6	20	ug/l	25.0	7.60	112	70-130	23.9	20	QM-07, R-01
Barium	57.2	20	"	25.0	33.2	96.0	70-130	2.84	20	R-01
Cadmium	23.6	20	"	25.0	1.20	89.6	70-130	1.68	20	R-01
Chromium	27.2	20	"	25.0	4.40	91.2	70-130	1.48	20	R-01
Lead	24.0	20	"	25.0	ND	96.0	70-130	0.00	20	R-01

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0148 - EPA 7470A Water										
Blank (25L0148-BLK1)				Prepared: 12/06/25 Analyzed: 12/09/25						
Mercury	ND	1.0	ug/l							
LCS (25L0148-BS1)				Prepared: 12/06/25 Analyzed: 12/09/25						
Mercury	7.48	1.0	ug/l	7.50		99.8	80-120			
Matrix Spike (25L0148-MS1)	**Source: T254963-03**			Prepared: 12/06/25 Analyzed: 12/09/25						
Mercury	6.45	1.0	ug/l	7.50	ND	86.0	80-120			
Matrix Spike Dup (25L0148-MSD1)	**Source: T254963-03**			Prepared: 12/06/25 Analyzed: 12/09/25						
Mercury	6.31	1.0	ug/l	7.50	ND	84.1	80-120	2.24	20	

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0142 - 418.1 / 5520C&F Mod.										
Blank (25L0142-BLK1)				Prepared & Analyzed: 12/08/25						
Oil & Grease	ND	5.00	mg/l							
LCS (25L0142-BS1)				Prepared & Analyzed: 12/08/25						
Oil & Grease	33.8	5.00	mg/l	39.6		85.4	78-114			
LCS Dup (25L0142-BSD1)				Prepared & Analyzed: 12/08/25						
Oil & Grease	36.3	5.00	mg/l	39.6		91.7	78-114	7.13	20	
Batch 25L0154 - General Preparation										
Duplicate (25L0154-DUP1)	**Source: T254963-01**			Prepared & Analyzed: 12/08/25						
pH	7.97	0.10	pH Units		7.96			0.126	10	
pH Temperature °C	21.8		"		21.2			2.79	200	
Batch 25L0164 - General Preparation										
Blank (25L0164-BLK1)				Prepared: 12/08/25 Analyzed: 12/10/25						
Total Dissolved Solids	ND	10	mg/l							
LCS (25L0164-BS1)				Prepared: 12/08/25 Analyzed: 12/10/25						
Total Dissolved Solids	531	10	mg/l	500		106	80-120			
Duplicate (25L0164-DUP1)	**Source: T254923-01**			Prepared: 12/08/25 Analyzed: 12/10/25						
Total Dissolved Solids	1690	10	mg/l		1690			0.0592	20	

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26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0166 - General Preparation										
Duplicate (25L0166-DUP1)		**Source: T254963-01**		Prepared & Analyzed: 12/08/25						
Specific Conductance (EC)	17700	10.0	umho/cm @25°C		17800			0.450	15	

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Anions by EPA Method 300.0 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 25L0149 - General Preparation										
Blank (25L0149-BLK1)				Prepared & Analyzed: 12/08/25						
Chloride	ND	5.00	mg/l							
Sulfate as SO4	ND	5.00	"							
Nitrate as NO3	ND	0.500	"							
Nitrate as N	ND	0.200	"							
LCS (25L0149-BS1)				Prepared & Analyzed: 12/08/25						
Chloride	25.7	5.00	mg/l	25.0		103	75-125			
Sulfate as SO4	26.3	5.00	"	25.0		105	75-125			
Nitrate as NO3	26.3	0.500	"	25.0		105	75-125			
Matrix Spike (25L0149-MS1)	**Source: T254963-01**			Prepared & Analyzed: 12/08/25						
Chloride	8720	500	mg/l	25.0	5270	NR	75-125			QM-07
Sulfate as SO4	2470	500	"	25.0	2210	NR	75-125			QM-07
Nitrate as NO3	33.3	0.500	"	25.0	8.00	101	75-125			
Matrix Spike Dup (25L0149-MSD1)	**Source: T254963-01**			Prepared & Analyzed: 12/08/25						
Chloride	5420	500	mg/l	25.0	5270	612	75-125	46.6	20	QM-07
Sulfate as SO4	2270	500	"	25.0	2210	269	75-125	8.30	20	QM-07
Nitrate as NO3	33.8	0.500	"	25.0	8.00	103	75-125	1.30	20	

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Northstar Environmental Remediation	Project: Genesis Solar Groundwater	
26225 Enterprise Court	Project Number: 196-004-07	**Reported:**
Lake Forest CA, 92630	Project Manager: Arlin Brewster	01/05/26 12:42

Notes and Definitions

R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix effect.
R-01	The Reporting Limit has been raised to account for dilution necessary due to matrix interference.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The batch was accepted based on acceptable LCS recovery.
O-07	The sample was analyzed outside the EPA recommended holding time of 48 hours.
O-04	This sample was received and analyzed outside the EPA recommended holding time.
FILT	The sample was filtered prior to analysis.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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949-297-5020

Chain of Custody Record

Client: Northstar Environmental Remediation
Address: 26225 Enterprise Court, Lake Forest, CA 92630
Phone: 949-274-1719
Project Manager: Arlin Brewster

Date:
Page: 1 of 1
Project Name: Genesis Solar Groundwater
Collector: Arlin Brewster
Client Project #: 196-004-07
Batch #: T254963
EDF #: T10000006093

Sample ID	Date Sampled	Time	Sample Type	Container Type	200.7 - Dissolved Metals: Ca, Cu, Na, K, Fe, Mg (FIELD FILTERED)	200.8 - Dissolved Metals: Sb, As, Ba, Cd, Cr, Co, Pb, Ni, Se, Zn (F.F.)	300.0 - Chloride, Nitrate, Sulfate	1664 - Oil and Grease	7470A - Mercury	9040 - pH	SM2510B - Conductivity, Specific	SM2540C - Total Dis. Solids	8015M - Therminol (Subcontract)	Deuterium, Oxygen-18 (Subcont.)	300.0 - Fluoride	Laboratory ID #	Comments/Preservative	Total # of containers
DM-1	12/05/25	0845	W	Various	X	X	X	X	X	X	X	X	X	X				5
DM-2		0950	W	Various	X	X	X	X	X	X	X	X	X	X				5
DM-3		1110	W	Various	X	X	X	X	X	X	X	X	X	X				5
North Pond		0655	W	Various	X	X	X	X	X	X	X	X	X					4
South Pond	↓	0705	W	Various	X	X	X	X	X	X	X	X	X					4

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	12/5/25 @ 1520	[signature]	12-5-25 1520
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 23
Chain of Custody seals Y/N/(NA)
Seals intact? Y/N/(NA)
Received good condition/cold: 4.9°C

Turn around time: Standard **

Notes
** Deuterium & Oxygen-18 subcontract has 10 day TAT

Reporting limits must match previous reports

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

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Receiving Form 001A

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T254963

Client Name: Northstar Environmental Remediation Project: Genesis Solar Groundwater

Delivered by: ☑ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Dave Date/Time Lab Received: 12.5.25 15:20

Total number of coolers received: 1 Thermometer ID: SC-1 Calibration due: 11/19/2025

Temperature: Cooler #1	4.8 °C +/- the CF (+ 0.1°C)	=	4.9	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 0.1°C)	=		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 0.1°C)	=		°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☑ **Yes** ☐ **No** ☐ **N/A**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☑ N/A
Sample containers intact	☑ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☑ Yes	☐ No*	
Total number of containers received match COC	☑ Yes	☐ No*	
Proper containers received for analyses requested on COC	☑ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☑ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☑ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 12.5.25

Comments:

Rev. 03 Date 11/24

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Lee
SunStar Laboratories Inc
25712 Commercentre Drive
Lake Forest, California 92630

Generated 12/19/2025 12:13:03 PM

JOB DESCRIPTION

T254963

JOB NUMBER

570-258800-1

Eurofins Calscience
2841 Dow Avenue
Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Eurofins Calscience

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 Calscience Project Manager.

Authorization

Authorized for release by
Sandy Tat, Project Manager I
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(714)895-5494

Generated
12/19/2025 12:13:03 PM

Table of Contents

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

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

Job Narrative
570-258800-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 12/8/2025 11:30 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 3.0°C.

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

Detection Summary

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Client Sample ID: T254963-01 — Lab Sample ID: 570-258800-1

No Detections.

Client Sample ID: T254963-02 — Lab Sample ID: 570-258800-2

No Detections.

Client Sample ID: T254963-03 — Lab Sample ID: 570-258800-3

No Detections.

Client Sample ID: T254963-04 — Lab Sample ID: 570-258800-4

No Detections.

Client Sample ID: T254963-05 — Lab Sample ID: 570-258800-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: T254963-01
Lab Sample ID: 570-258800-1
Date Collected: 12/05/25 08:45
Matrix: Water
Date Received: 12/08/25 11:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		98	ug/L		12/11/25 10:07	12/18/25 17:11	1
1,1'-Biphenyl	ND		98	ug/L		12/11/25 10:07	12/18/25 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*91*		*53 - 151*	*12/11/25 10:07*	*12/18/25 17:11*	*1*

Client Sample ID: T254963-02
Lab Sample ID: 570-258800-2
Date Collected: 12/05/25 09:50
Matrix: Water
Date Received: 12/08/25 11:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		98	ug/L		12/11/25 10:07	12/18/25 17:36	1
1,1'-Biphenyl	ND		98	ug/L		12/11/25 10:07	12/18/25 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*84*		*53 - 151*	*12/11/25 10:07*	*12/18/25 17:36*	*1*

Client Sample ID: T254963-03
Lab Sample ID: 570-258800-3
Date Collected: 12/05/25 11:10
Matrix: Water
Date Received: 12/08/25 11:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		93	ug/L		12/11/25 10:07	12/18/25 18:01	1
1,1'-Biphenyl	ND		93	ug/L		12/11/25 10:07	12/18/25 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*71*		*53 - 151*	*12/11/25 10:07*	*12/18/25 18:01*	*1*

Client Sample ID: T254963-05
Lab Sample ID: 570-258800-5
Date Collected: 12/05/25 07:05
Matrix: Water
Date Received: 12/08/25 11:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		96	ug/L		12/11/25 10:07	12/18/25 18:51	1
1,1'-Biphenyl	ND		96	ug/L		12/11/25 10:07	12/18/25 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*80*		*53 - 151*	*12/11/25 10:07*	*12/18/25 18:51*	*1*

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) - RA

Client Sample ID: T254963-04
Lab Sample ID: 570-258800-4
Date Collected: 12/05/25 06:55
Matrix: Water
Date Received: 12/08/25 11:30

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		85		ug/L		12/11/25 10:07	12/18/25 22:36	1
1,1'-Biphenyl	ND		85		ug/L		12/11/25 10:07	12/18/25 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*90*		*53 - 151*	*12/11/25 10:07*	*12/18/25 22:36*	*1*

Surrogate Summary

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(53-151)
570-258800-1	T254963-01	91
570-258800-1 MS	T254963-01	90
570-258800-1 MSD	T254963-01	95
570-258800-2	T254963-02	84
570-258800-3	T254963-03	71
570-258800-4 - RA	T254963-04	90
570-258800-5	T254963-05	80
LCS 570-668450/2-A	Lab Control Sample	93
LCSD 570-668450/3-A	Lab Control Sample Dup	97
MB 570-668450/1-A	Method Blank	88

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-668450/1-A
Matrix: Water
Analysis Batch: 671907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668450

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene, 1,1'-oxybis-	ND		100	ug/L		12/11/25 10:06	12/18/25 14:42	1
1,1'-Biphenyl	ND		100	ug/L		12/11/25 10:06	12/18/25 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*88*		*53 - 151*	*12/11/25 10:06*	*12/18/25 14:42*	*1*

Lab Sample ID: LCS 570-668450/2-A
Matrix: Water
Analysis Batch: 671907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene, 1,1'-oxybis-	1000	862.7		ug/L		86	57 - 120
1,1'-Biphenyl	1000	844.4		ug/L		84	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*93*		*53 - 151*

Lab Sample ID: LCSD 570-668450/3-A
Matrix: Water
Analysis Batch: 671907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 668450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene, 1,1'-oxybis-	1000	884.3		ug/L		88	57 - 120	2	20
1,1'-Biphenyl	1000	866.2		ug/L		87	45 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*97*		*53 - 151*

Lab Sample ID: 570-258800-1 MS
Matrix: Water
Analysis Batch: 671907

Client Sample ID: T254963-01
Prep Type: Total/NA
Prep Batch: 668450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene, 1,1'-oxybis-	ND		951	779.8		ug/L		82	57 - 120
1,1'-Biphenyl	ND		951	764.5		ug/L		80	45 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*90*		*53 - 151*

Lab Sample ID: 570-258800-1 MSD
Matrix: Water
Analysis Batch: 671907

Client Sample ID: T254963-01
Prep Type: Total/NA
Prep Batch: 668450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene, 1,1'-oxybis-	ND		965	841.1		ug/L		87	57 - 120	8	20
1,1'-Biphenyl	ND		965	824.1		ug/L		85	45 - 120	8	20

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-258800-1 MSD
Client Sample ID: T254963-01
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 671907
Prep Batch: 668450

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	*95*		*53 - 151*

QC Association Summary

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

GC Semi VOA

Prep Batch: 668450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-258800-1	T254963-01	Total/NA	Water	3510C	
570-258800-2	T254963-02	Total/NA	Water	3510C	
570-258800-3	T254963-03	Total/NA	Water	3510C	
570-258800-4 - RA	T254963-04	Total/NA	Water	3510C	
570-258800-5	T254963-05	Total/NA	Water	3510C	
MB 570-668450/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-668450/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-668450/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-258800-1 MS	T254963-01	Total/NA	Water	3510C	
570-258800-1 MSD	T254963-01	Total/NA	Water	3510C	

Analysis Batch: 671907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-258800-1	T254963-01	Total/NA	Water	8015B	668450
570-258800-2	T254963-02	Total/NA	Water	8015B	668450
570-258800-3	T254963-03	Total/NA	Water	8015B	668450
570-258800-4 - RA	T254963-04	Total/NA	Water	8015B	668450
570-258800-5	T254963-05	Total/NA	Water	8015B	668450
MB 570-668450/1-A	Method Blank	Total/NA	Water	8015B	668450
LCS 570-668450/2-A	Lab Control Sample	Total/NA	Water	8015B	668450
LCSD 570-668450/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	668450
570-258800-1 MS	T254963-01	Total/NA	Water	8015B	668450
570-258800-1 MSD	T254963-01	Total/NA	Water	8015B	668450

Lab Chronicle

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Client Sample ID: T254963-01
Lab Sample ID: 570-258800-1
Date Collected: 12/05/25 08:45
Matrix: Water
Date Received: 12/08/25 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			254.3 mL	2.5 mL	668450	12/11/25 10:07	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	671907	12/18/25 17:11	NR	EET CAL 4
	Instrument ID: GC70B									

Client Sample ID: T254963-02
Lab Sample ID: 570-258800-2
Date Collected: 12/05/25 09:50
Matrix: Water
Date Received: 12/08/25 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			255.9 mL	2.5 mL	668450	12/11/25 10:07	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	671907	12/18/25 17:36	NR	EET CAL 4
	Instrument ID: GC70B									

Client Sample ID: T254963-03
Lab Sample ID: 570-258800-3
Date Collected: 12/05/25 11:10
Matrix: Water
Date Received: 12/08/25 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			267.8 mL	2.5 mL	668450	12/11/25 10:07	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	671907	12/18/25 18:01	NR	EET CAL 4
	Instrument ID: GC70B									

Client Sample ID: T254963-04
Lab Sample ID: 570-258800-4
Date Collected: 12/05/25 06:55
Matrix: Water
Date Received: 12/08/25 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RA		294.5 mL	2.5 mL	668450	12/11/25 10:07	TVD6	EET CAL 4
Total/NA	Analysis	8015B	RA	1	1 mL	1 mL	671907	12/18/25 22:36	NR	EET CAL 4
	Instrument ID: GC70B									

Client Sample ID: T254963-05
Lab Sample ID: 570-258800-5
Date Collected: 12/05/25 07:05
Matrix: Water
Date Received: 12/08/25 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			261.2 mL	2.5 mL	668450	12/11/25 10:07	TVD6	EET CAL 4
Total/NA	Analysis	8015B		1	1 mL	1 mL	671907	12/18/25 18:51	NR	EET CAL 4
	Instrument ID: GC70B									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-26

Method Summary

Client: SunStar Laboratories Inc
Job ID: 570-258800-1
Project/Site: T254963

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: SunStar Laboratories Inc
Project/Site: T254963

Job ID: 570-258800-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
570-258800-1	T254963-01	Water	12/05/25 08:45	12/08/25 11:30	California
570-258800-2	T254963-02	Water	12/05/25 09:50	12/08/25 11:30	California
570-258800-3	T254963-03	Water	12/05/25 11:10	12/08/25 11:30	California
570-258800-4	T254963-04	Water	12/05/25 06:55	12/08/25 11:30	California
570-258800-5	T254963-05	Water	12/05/25 07:05	12/08/25 11:30	California

SUBCONTRACT ORDER

SunStar Laboratories, Inc.

T254963

Loc: 570
258800

SENDING LABORATORY:

SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, CA 92630
Phone: (949) 297-5020
Fax: (949) 297-5027
Project Manager: Jeff Lee

RECEIVING LABORATORY:

Eurofins Calscience (Tustin)
2841 Dow Ave, Suite 100
Tustin, CA 92780
Phone :(949) 261-1022
Fax: N/A

570-258800 Chain of Custody

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: T254963-01	**Water**	**Sampled:12/05/25 08:45**		
Misc Water Testing #1	12/12/25 15:00	06/03/26 08:45		8015M- Therminol (Normal TAT)
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: T254963-02	**Water**	**Sampled:12/05/25 09:50**		
Misc Water Testing #1	12/12/25 15:00	06/03/26 09:50		8015M- Therminol (Normal TAT)
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: T254963-03	**Water**	**Sampled:12/05/25 11:10**	3	
Misc Water Testing #1	12/12/25 15:00	06/03/26 11:10		8015M- Therminol (Normal TAT)
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: T254963-04	**Water**	**Sampled:12/05/25 06:55**	4	
Misc Water Testing #1	12/12/25 15:00	06/03/26 06:55		8015M- Therminol (Normal TAT)
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: T254963-05	**Water**	**Sampled:12/05/25 07:05**		
Misc Water Testing #1	12/12/25 15:00	06/03/26 07:05		8015M- Therminol (Normal TAT)
Containers Supplied:				
1L Amber- Unpres. (A)				

Released By	Date	Received By	Date
	12.8.25 11:30am		12/8/25 11:30
Released By	Date	Received By	Date
		2.9/3.0	

VTSO

Login Sample Receipt Checklist

Client: SunStar Laboratories Inc

Job Number: 570-258800-1

Login Number: 258800

List Number: 1

Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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?	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ISOTECH
a Stratum Reservoir brand
1308 Parkland Court
Champaign, IL 61871
P 217-398-3490
isotechlabs.com

Lab #: 993898 **Job #:** 64920 **Co. Job#:** T254963

Sample Name: T254963-01

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

Date Sampled: 12/05/2025 08:45 **Date Received:** 12/10/2025 **Date Reported:** 01/05/2026

δD of water	-68.0‰ relative to VSMOW
$\delta^{18}O$ of water	-8.48‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

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Lab #: 993899 **Job #:** 64920 **Co. Job#:** T254963

Sample Name: T254963-02

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

Date Sampled: 12/05/2025 09:50 **Date Received:** 12/10/2025 **Date Reported:** 01/05/2026

δD of water	-67.9‰ relative to VSMOW
$\delta^{18}O$ of water	-8.38‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

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Lab #: 993900 **Job #:** 64920 **Co. Job#:** T254963

Sample Name: T254963-03

Company: SunStar Laboratories, Inc

Container: 250ml Plastic Bottle

Date Sampled: 12/05/2025 11:10 **Date Received:** 12/10/2025 **Date Reported:** 01/05/2026

δD of water	-70.4‰ relative to VSMOW
$\delta^{18}O$ of water	-8.80‰ relative to VSMOW
Tritium content of water	na
$\delta^{13}C$ of DIC	na
^{14}C content of DIC	na
$\delta^{15}N$ of nitrate	na
$\delta^{18}O$ of nitrate	na
δ^{34} of sulfate	na
$\delta^{18}O$ of sulfate	na
DIC Concentration	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.
*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T254963

Client:	**Northstar Environmental Remediation**	**Project Manager:**	**Jeff Lee**
Project:	**Genesis Solar Groundwater**	**Project Number:**	**196-004-07**

Report To:

Northstar Environmental Remediation
Arlin Brewster
26225 Enterprise Court
Lake Forest, CA 92630

Date Due:	12/12/25 17:00 (5 day TAT)		
Received By:	Dave Berner	Date Received:	12/05/25 15:20
Logged In By:	Alan Su	Date Logged In:	12/05/25 16:29

Samples Received at:	**4.9°C**		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	Yes		

Analysis	Due	TAT	Expires	Comments
T254963-01 DM-1 [Water] Sampled 12/05/25 08:45 (GMT-08:00) Pacific Time (US &				
1664	12/12/25 15:00	5	01/02/26 08:45	Oil & Grease
200.7	12/12/25 15:00	5	06/03/26 08:45	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	12/12/25 15:00	5	06/03/26 08:45	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	12/12/25 15:00	5	01/02/26 08:45	Chloride,Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	12/12/25 15:00	5	12/07/25 08:45	Nitrate Dil @ 1x if possible
7470/71 Hg	12/12/25 15:00	5	03/05/26 08:45	
Conductivity	12/12/25 15:00	5	01/02/26 08:45	
pH water SM 4500-H+B	12/12/25 15:00	5	12/06/25 08:45	
TDS	12/12/25 15:00	5	12/12/25 08:45	
T254963-02 DM-2 [Water] Sampled 12/05/25 09:50 (GMT-08:00) Pacific Time (US &				
1664	12/12/25 15:00	5	01/02/26 09:50	Oil & Grease
200.7	12/12/25 15:00	5	06/03/26 09:50	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	12/12/25 15:00	5	06/03/26 09:50	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	12/12/25 15:00	5	01/02/26 09:50	Chloride,Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	12/12/25 15:00	5	12/07/25 09:50	Nitrate Dil @ 1x if possible
7470/71 Hg	12/12/25 15:00	5	03/05/26 09:50	
Conductivity	12/12/25 15:00	5	01/02/26 09:50	
pH water SM 4500-H+B	12/12/25 15:00	5	12/06/25 09:50	
TDS	12/12/25 15:00	5	12/12/25 09:50	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T254963

Client:	**Northstar Environmental Remediation**	**Project Manager:**	**Jeff Lee**
Project:	**Genesis Solar Groundwater**	**Project Number:**	**196-004-07**

Analysis	Due	TAT	Expires	Comments
T254963-03 DM-3 [Water] Sampled 12/05/25 11:10 (GMT-08:00) Pacific Time (US &				
1664	12/12/25 15:00	5	01/02/26 11:10	Oil & Grease
200.7	12/12/25 15:00	5	06/03/26 11:10	Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	12/12/25 15:00	5	06/03/26 11:10	Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	12/12/25 15:00	5	01/02/26 11:10	Chloride,Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	12/12/25 15:00	5	12/07/25 11:10	Nitrate Dil @ 1x if possible
7470/71 Hg	12/12/25 15:00	5	03/05/26 11:10	
Conductivity	12/12/25 15:00	5	01/02/26 11:10	
pH water SM 4500-H+B	12/12/25 15:00	5	12/06/25 11:10	
TDS	12/12/25 15:00	5	12/12/25 11:10	
T254963-04 North Pond [Water] Sampled 12/05/25 06:55 (GMT-08:00) Pacific Time (US &				
1664	12/12/25 15:00	5	01/02/26 06:55	High Salt / Oil & Grease
200.7	12/12/25 15:00	5	06/03/26 06:55	High Salt / Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	12/12/25 15:00	5	06/03/26 06:55	High Salt / Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	12/12/25 15:00	5	01/02/26 06:55	High Salt / Chloride,Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	12/12/25 15:00	5	12/07/25 06:55	High Salt / Nitrate Dil @ 1x if possible
7470/71 Hg	12/12/25 15:00	5	03/05/26 06:55	High Salt
Conductivity	12/12/25 15:00	5	01/02/26 06:55	High Salt
pH water SM 4500-H+B	12/12/25 15:00	5	12/06/25 06:55	High Salt
TDS	12/12/25 15:00	5	12/12/25 06:55	High Salt
T254963-05 South Pond [Water] Sampled 12/05/25 07:05 (GMT-08:00) Pacific Time (US &				
1664	12/12/25 15:00	5	01/02/26 07:05	High Salt / Oil & Grease
200.7	12/12/25 15:00	5	06/03/26 07:05	High Salt / Ca,Cu,Na,K,Fe,Mg - Dil @ 100x
200.8	12/12/25 15:00	5	06/03/26 07:05	High Salt / Sb,As,Ba,Cd,Cr,Co,Pb,Ni,Se,Zn - Dil @ 20x
300.0 - F, Cl, Br, SO4	12/12/25 15:00	5	01/02/26 07:05	High Salt / Chloride,Sulfate only Dil @ 20x
300.0 - NO2, NO3, PO4	12/12/25 15:00	5	12/07/25 07:05	High Salt / Nitrate Dil @ 1x if possible
7470/71 Hg	12/12/25 15:00	5	03/05/26 07:05	High Salt
Conductivity	12/12/25 15:00	5	01/02/26 07:05	High Salt
pH water SM 4500-H+B	12/12/25 15:00	5	12/06/25 07:05	High Salt
TDS	12/12/25 15:00	5	12/12/25 07:05	High Salt

Eurofins Calscience (Tustin)

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T254963

Client:	**Northstar Environmental Remediation**	**Project Manager:**	**Jeff Lee**
Project:	**Genesis Solar Groundwater**	**Project Number:**	**196-004-07**

Analysis	Due	TAT	Expires	Comments
Eurofins Calscience (Tustin)				
T254963-01 DM-1 [Water] Sampled 12/05/25 08:45 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/12/25 15:00	5	06/03/26 08:45	8015M- Therminol (Normal TAT)
T254963-02 DM-2 [Water] Sampled 12/05/25 09:50 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/12/25 15:00	5	06/03/26 09:50	8015M- Therminol (Normal TAT)
T254963-03 DM-3 [Water] Sampled 12/05/25 11:10 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/12/25 15:00	5	06/03/26 11:10	8015M- Therminol (Normal TAT)
T254963-04 North Pond [Water] Sampled 12/05/25 06:55 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/12/25 15:00	5	06/03/26 06:55	8015M- Therminol (Normal TAT)
T254963-05 South Pond [Water] Sampled 12/05/25 07:05 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #1	12/12/25 15:00	5	06/03/26 07:05	8015M- Therminol (Normal TAT)
Isotech Laboratories, Inc.				
T254963-01 DM-1 [Water] Sampled 12/05/25 08:45 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/12/25 15:00	5	06/03/26 08:45	Deuterium,Oxygen-18 (Normal TAT)
T254963-02 DM-2 [Water] Sampled 12/05/25 09:50 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/12/25 15:00	5	06/03/26 09:50	Deuterium,Oxygen-18 (Normal TAT)
T254963-03 DM-3 [Water] Sampled 12/05/25 11:10 (GMT-08:00) Pacific Time (US &				
Misc Water Testing #2	12/12/25 15:00	5	06/03/26 11:10	Deuterium,Oxygen-18 (Normal TAT)

Reviewed By

Date