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# FINAL WELL INSTALLATION REPORT

## Explorer Well Below-Grade Improvements Construction Management, Inspection, and Hydrogeological Services

*Prepared for:*

City of Pasadena  
Water & Power Department  
150 S. Los Robles Avenue, Suite 200  
Pasadena, CA 91101

*Prepared by:*

Geosyntec Consultants, Inc.  
440 E. Huntington Drive, Suite 425  
Arcadia, California 91006

Project Number: HPA110004/ HPA110005

July 31, 2025

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Tara Rolfe, P.G., CHG (CA)  
Principal Hydrogeologist



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Elizette Viramontes  
Professional

July 31, 2025

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## ACRONYMS AND ABBREVIATIONS

%	Percent
μs/cm	Micro Siemens per Centimeter
1,2,3-TCP	1,2,3-trichloropropane
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
CA	California
CalEPA	California Environmental Protection Agency
C°	Degrees Celsius
CEQA	California Environmental Quality Act
CME	Central Mining Equipment
COC	Chain of Custody
dBA	A-Weighted Decibels
DO	Dissolved Oxygen
DWR	California Department of Water Resources
EC	Electrical Conductivity
ENC	Environmental Noise Control, Inc
CalEPA	California Environmental Protection Agency
ft	Foot/Feet
ft bgs	Feet Below Ground Surface
ft <sup>3</sup>	Cubic Feet
gal	Gallon(s)
gpd/ft	Gallons per Day per Foot
gpm	Gallons per Minute
gpm/ft-dd	Gallons per Minute per Foot of Drawdown
in.	Inch/Inches
JPL	Jet Propulsion Laboratory
Layne	Layne, A Granite Company
lb/ft <sup>3</sup>	Pounds per Cubic Foot
lb/gal	Pounds per Gallon

LLR3	Laterolog 3
LSAW	Longitudinal Submerged Arc Welded
MCL	Maximum Contaminant Level
mg/L	Milligrams per Liter
MND	Mitigated Negative Declaration
MPS	Multiprobe System
MS/MSD	Matrix Spike / Matrix Spike Duplicate
MSL	Mean Sea Level
MW	Monitoring Well
NAM	Native American Monitor
ND	Non-Detect
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Unit
OD	Outer Diameter
ORP	Oxidation-Reduction Potential
PDF	Portable Document Format
PFOA	Perfluorooctanoic Acid
ppb	Parts per Billion
ppm	Parts per Million
psi	Pounds per Square Inch
PWP	City of Pasadena, Water & Power Department
QA/QC	Quality Assurance / Quality Control
RFI	Request for Information
Report	Well Installation Report
RLN	Resistivity Long Normal
RSN	Resistivity Short Normal
SCE	Southern California Edison
SVOC	Semi-Volatile Organic Compounds
SWRCB	State Water Resources Control Board
TDS	Total Dissolved Solids
TOC	Top of Casing

USA	Underground Service Alert
USCS	Unified Soil Classification System
VOC	Volatile Organic Compounds
WCR	Well Completion Report

## 1. INTRODUCTION

### 1.1 Introduction

This *Well Installation Report* (Report) has been prepared by Geosyntec Consultants Inc. (Geosyntec) for the City of Pasadena, Water & Power Department (PWP) to document the activities related to the below-ground improvements for the Explorer Well (Project). These activities included realignment of a portion of Explorer Road adjacent to the well site and drilling, testing, and construction of the Explorer Well. The Project site (Site) is located east of the Arroyo Seco River and on a portion of the former Jet Propulsion Laboratory (JPL) parking lot in northwestern Pasadena, California (CA). **Figure 1** shows the location of the Site.

The purpose of the work described herein was to install a groundwater production well, (Explorer Well), to extract groundwater that will be treated at the existing Monk Hill Water Treatment Plant and supply potable water to supplement PWP's existing water supply. The well installation was conducted by a drilling contractor, Layne, a Granite Company (Layne), and its subcontractors between August 16, 2024, and May 19, 2025. The Project was performed pursuant to the Design Engineer's technical specifications "Attachment K - Special Provisions, Part 2 - Well Drilling Technical Specifications," dated April 2024 (Civiltec, 2024; herein referred to as technical specifications).

Geosyntec was the onsite Hydrogeologist, construction management, and inspection team for the PWP during construction activities. **Table 1** summarizes the schedule of events for the Project. **Appendix F** includes a photographic log of the activities conducted at the Explorer Well.

### 1.2 Site Geology and Hydrogeology

The Raymond Groundwater Basin is in the northwest part of the San Gabriel Valley, in central Los Angeles County (CA Department of Water Resources [DWR], Basin 4-23; 2004). The Raymond Groundwater Basin is bound by the San Gabriel Mountains to the north, the San Rafael Hills to the southwest, Pickens Canyon Wash to the west, and the Raymond fault to the southeast (CA DWR, 2004).

The Raymond Basin's water-bearing materials are dominated by unconsolidated Quaternary alluvial gravel, sand, and silt deposits from the San Gabriel Mountains. The younger alluvium deposits have a maximum thickness of about 150 feet (ft) (CA DWR, 2004). The Explorer Well is located within the Monk Hill Subarea of the Raymond Basin. **Figure 2** shows the Explorer Well location within the Raymond Groundwater Basin and Subareas. There is a fault structure to the north of the Site, which may limit groundwater flow from north to south between the San Gabriel Mountain front and the Site at some depth.

The aquifer in the Monk Hill Subarea is generally considered to be an unconfined aquifer, However, due to the presence of relatively thin, silt-rich layers throughout the alluvial aquifer, vertical flow of groundwater is partially inhibited. The aquifer can be divided into four aquifer zones above the crystalline basement complex, including the upper and lower sections of the Older Fanglomerate Series, the Pacoima Formation, and the Saugus Formation (NASA 2004).

Nearby wells in the Monk Hill subbasin include Arroyo Well, Well-52, the Behner monitoring wells, and the Ventura Well. **Figure 3** shows the Explorer Well location in relation to these wells.

### **1.3 Well Permit**

A well permit was issued by PWP on September 4, 2024, and is included in **Appendix A**.

### **1.4 Environmental Monitoring**

Psomas, the environmental consultant for PWP, prepared the Final Initial Study/Mitigated Negative Declaration (IS/MND), dated April 2024, pursuant to the California Environmental Quality Act (CEQA). Psomas also performed the environmental mitigation and monitoring during construction. The following subsections describe the environmental monitoring activities conducted as part of this Project.

#### **1.4.1 Biological Resources**

Prior to the start of construction, an exclusionary fence was installed along the toe of the vegetated slope, on the eastern edge of the Site. The exclusionary fence was used to prevent coastal whiptail from entering the work area and was installed on September 25, 2024, under the supervision of a Psomas qualified Biologist.

#### **1.4.2 Tribal Cultural Resources**

Prior to ground disturbing activities, Layne retained a Native American Monitor (NAM) approved by the Gabrielino Band of Mission Indians – “Kizh Nation” to observe all ground disturbing activities. Monitoring by the NAM occurred on site when ground disturbing activities were anticipated within 50 feet below the ground surface (ft bgs).

#### **1.4.3 Noise Control & Monitoring**

Work operations occurred pursuant to Section 9.36.080 of the City of Pasadena Municipal Code, which states that it is unlawful for a person to operate powered construction equipment if the operation of such equipment emits noise at a level in excess of 85 A-weighted decibels (dBA) when measured within a radius of 100 ft from such equipment (Psomas, 2024). To comply with this code during nighttime construction activity (7:00 PM - 7:00 AM) Layne installed a sound barrier enclosure of 16 ft and 20 ft height to enclose the stationary equipment sources of noise on four sides (Psomas, 2024).

Behrens & Associates - Environmental Noise Control, Inc (ENC), a subcontractor to Layne, installed sound walls based on the sound wall calculations and drawings included in the Project technical specifications to provide reduction of noise impacts to nearby residential areas. ENC installed the sound walls from October 23, 2024, through October 31, 2024.

Psomas installed four environmental noise monitoring sensors near the residential locations east of the Site. The devices were installed on December 3, 2024, and removed on December 4, 2024 to monitor noise from the pilot hole drilling operations. The noise monitoring continuously recorded sound during the hours between 10:00 PM and 7:00 AM. The four sensor locations are shown in **Appendix B**. The results indicated that nighttime noise levels near Site 3, which had a clear line of site to the work area, exceeded the threshold of 50 dBA by 7 to 10 dBA. Noise levels at Sites 1, 2, and 4 were below or borderline to the threshold, suggesting compliance with the city's nighttime noise limit. Recommendations by Psomas included increasing the height of the eastern wall and transferring half of the west wall to the top of the eastern wall to mitigate noise at Site 3. As a result, additional portable sound reduction panels were installed on the east side of the drilling rig engine and the air compressor to further reduce the noise coming from the Site.

#### **1.4.4 Effluent Discharge**

During the well construction process, a temporary pipeline was constructed to discharge groundwater that was produced from the well development activities into an existing spreading basin to the west of the Site, Pond 1. The discharge activities complied with the Statewide National Pollutant Discharge Elimination System (NPDES) Permit from the State Water Resources Control Board (SWRCB) Order WQ 2014-0194-DWQ, General Order No. CAG14001 (SWRCB, 2014). The discharge was limited to an average turbidity of less than 100 nephelometric turbidity units (NTU) during each discharge event. Discharges from the project to Pond 1 were monitored for volume and turbidity. The volumes and dates associated with discharge to Pond 1 are summarized in **Table 12**.

## 2. EXPLORER ROAD REALIGNMENT

As a part of the Project, an approximate 400-ft segment of Explorer Road was realigned to allow for the construction of the Explorer Well and related above-ground improvements, as shown in **Figure 4**. Explorer Road was shifted to the west of the old roadway segment. **Figure 4** shows the new alignment of Explorer Road in relation to the old Explorer Road.

The field activities, related to the realignment of Explorer Road, were performed by Layne's Subcontractor (Raegan Paving) between September 9, 2024, and September 27, 2024. Field activities related to the road realignment were performed pursuant to the Project technical specifications (Civiltec, 2024).

Geosyntec was on site during the Explorer Road realignment activities to document the existing road stripping, new road surveying, and subgrade preparation, and to conduct testing of the compaction of the soils upon final grading and the road base upon compaction. A Compaction Memorandum, dated October 10, 2024, was prepared by Geosyntec and is included in **Appendix C**.

### 3. EXPLORER WELL INSTALLATION

Field activities related to the drilling, testing, and construction of the Explorer Well were performed pursuant to with the Project technical specifications. Geosyntec's performed inspection of field activities and interpretation of data from the drilling and testing activities and provided recommendations and confirmation that work was being performed pursuant to the technical specifications, submittals, requests for information (RFI) responses, and industry standards. Layne had an active C-57 Well Drilling Contractor License in the State of California during the Project activities.

#### 3.1 Utility Clearance

Prior to the commencement of drilling, on August 08, 2024, Layne notified the Underground Service Alert of Southern California (Dig Alert) of the planned subsurface work. The ticket number was A242400548-00A, and field delineations were inspected before work began.

##### 3.1.1 Aboveground Utility Clearance

The northern portion of the Site is bounded by overhead powerlines operated by Southern California Edison (SCE). Because of the height of the powerlines and the equipment needed to install the sound walls around the Site, SCE clearance was requested. PWP coordinated with SCE for a temporary construction easement. A site walk was conducted on October 17, 2024, with representatives from SCE, PWP, Layne, and Geosyntec to evaluate the Site setup options. The SCE representative reviewed the equipment layout in relation to the overhead power lines, adjacent to the northernmost portion of the site, and provided approval on October 17, 2024. SCE was notified via email that the Project was proceeding with the sound wall and equipment installation on October 23, 2024, in accordance with the layout and agreements reviewed during the site walk. The northern sound wall (16 ft high) maintained a 5-ft horizontal clearance south from the southernmost SCE overhead powerline.

##### 3.1.2 Subsurface Utility Clearance

Prior to the commencement of drilling, on October 15, 2024, an existing 12-inch (in.) pipe/waterline lateral was removed and capped off with a blind flange. As the excavation site was adjacent to the borehole location, this removal served as borehole clearance, confirming the absence of additional potential shallow subsurface utilities to a depth of approximately 5 ft bgs. **Figure 4** shows the location of the 12 in. pipe/waterline in relation to the Explorer Well location.

#### 3.2 Conductor Casing and Sanitary Seal

##### 3.2.1 Conductor Casing Drilling, Materials, and Installation

Following the surface and subsurface utility clearance, Layne provided a truck-mounted Central Mining Equipment (CME) 95 drill rig for drilling the borehole for the conductor casing. The borehole was drilled to a total depth of 96 ft bgs and a final diameter of 48 in.

The borehole was drilled using both bucket auger and flight auger drilling methods of various diameters depending on the subsurface conditions, including 24 in., 32 in., and 48 in. diameter bits. The bits were used based on changing borehole conditions including clay, silt, sand, cobbles, and boulders over 2 ft diameter. Drilling continued past the proposed conductor casing depth of 90 ft bgs to a total depth of 96 ft bgs to surpass cobbles and boulders encountered near 90 ft bgs. This was done to help stabilize the borehole and allow for faster drilling with the flooded-reverse circulation drill rig. The conductor casing borehole drilling occurred from October 31, 2024, to November 07, 2024.

The conductor casing was made up of Longitudinal Submerged Arc Welded (LSAW) Mild Steel and manufactured in accordance with the American Society for Testing and Materials (ASTM) Specification A53 Grade B steel (ASTM, 2022). The conductor casing was installed to 96 ft bgs, had an outside diameter of 36 in, and had a wall thickness of 0.5 in. The conductor casing was installed on November 07, 2024. The conductor casing joints were welded in the field by a CA Certified Welder in accordance with the American Water Works Association (AWWA) Standard C206-23 field welding of steel water pipe for the welded joints.

Two sets of centralizers were installed on the conductor casing, each measuring 2 in. wide and 36 in. long, bent to provide at least one-linear ft of surface parallel to the borehole with approximately 4.5 in. of clearance from the casing to the borehole wall. The first set of centralizers was positioned three ft above the bottom of the conductor casing, at approximately 93 ft bgs, and the second set was placed above a joint between two casing lengths at 53 ft bgs. Each centralizer set consisted of four individual centralizers spaced 90 degrees equidistance around the conductor casing. At the surface, a gas bubble level was used to check that the casing vertical and metal poles were welded onto the conductor casing to centralize it within the borehole for annular seal placement. The conductor casing was cut close to the ground surface to facilitate the well installation operations.

### 3.2.2 Soil Sampling

During the drilling, grab samples of the drill cuttings were collected at 10 ft intervals. The samples were placed in gallon-sized resealable bags and labeled with the corresponding sample interval. The samples were logged by Geosyntec staff under the direction of a licensed CA Professional Geologist (PG) using the Unified Soil Classification System (ASTM, 2000). The borehole lithology logs are included in **Appendix D**. The lithology from ground surface to 96 ft bgs consisted of poorly graded sand with gravel and well-graded sand with cobbles and boulders up to 127 in. diameter. The lithology was consistent with clastic sediments originating from the San Gabriel Mountains to the north and unconsolidated sediments to the east, as illustrated in **Figure 2**, Geologic Settings Map.

### 3.2.3 Sanitary Seal

The annular seal around the conductor casing was poured from 96 ft bgs to 21 ft bgs on November 8, 2024. A second pour was conducted from 21 ft bgs to the ground surface on November 9, 2024. The conductor casing was sealed in place with sand-cement grout under pressure via a tremie pipe pursuant to the CA DWR Well Standards Bulletin 74-90/74-81 (DWR, 1981/1991). A total of eight batches of sand-cement grout were used. The sand-to-cement ratio by weight across the delivered batches ranged from 2.06:1 to 2.09:1. This is within the acceptable range of  $\pm 10\%$  of a 2:1 ratio specified in the CA DWR well Standards Bulletin 74-90 for Type I or II Portland cement. The calculated water-to-cement ratio by weight across delivered batches ranged from 0.04:1 to 0.36:1. This is equivalent to a 10.3 sack mix. (Civiltec, 2024). The cement did not contain fly ash. The cement mix design and delivery tickets from Robertson's Ready Mix are included in **Appendix I**.

## 3.3 Pilot Borehole Drilling

Following installation of the conductor casing, Layne mobilized a Taylor RT 4000 mounted on 4-axle heavy duty carrier with a Tilting Hydraulic Rotary Driven Table and ancillary equipment for the drilling of the pilot borehole. The flooded-reverse circulation drilling method was used to drill the pilot borehole. The pilot borehole was advanced to a total depth of 690 ft bgs using a 17.75 in. diameter mill-tooth tricone bit. A shaker table with four centrifugal cones was used to remove the cuttings from the drilling fluids prior to recirculating the fluids down the borehole.

The pilot borehole drilling began on November 20, 2024, reaching a depth of 100 ft bgs prior to temporarily pausing the Project for the Thanksgiving Day weekend. The drilling continued December 3, 2024, and reached total depth of 690 ft bgs on December 10, 2024. Due to bit wear and slow drilling, the mill-tooth tricone bit was replaced with a new mill-tooth tricone bit on December 9, 2024.

### 3.3.1 Drilling Fluids

Drilling fluid additives were mixed with local municipal water supply to prepare drilling mud with such properties to prevent water loss, support the borehole wall, prevent caving, and to permit the recovery of representative samples of drill cuttings. Drilling fluid additives included:

- Baroid® QUIK-TROL® LV is used to provide filtration control in most water-based drilling fluids without substantially increasing viscosity.
- Baroid® Soda Ash is an alkalinity agent in a granular powder form of sodium carbonate primarily used to condition and soften make-up water and to raise pH.
- Baroid® AQUA-CLEAR® PFD is a concentrated liquid polymer dispersant used for mud and sediment removal from the producing formation and gravel pack.

- Baroid® QUIK-GEL® is a sodium bentonite used to increase viscosity of the drilling fluid.

The contractor recorded drilling fluid properties every four hours during drilling activities. The drilling fluid properties were maintained in accordance with standard flooded-reverse circulation drilling method practices.

### 3.3.2 Soil Sampling

During pilot hole drilling, grab samples of the drill cuttings were collected at 10-ft intervals from the shaker table used to separate solids from the drilling fluids. The samples were placed in gallon-sized freezer bags and labeled with the corresponding sample interval. The samples were also preserved in sample trays. The samples were logged by Geosyntec staff under the direction of a licensed CA PG using the USCS (ASTM; 2000). The borehole lithology logs from 0 ft bgs to 690 ft bgs are included in **Appendix D**. The lithology was consistent with clastic sediments originating from the San Gabriel Mountains to the north and unconsolidated sediments to the east, as illustrated in **Figure 2**.

### 3.3.3 Inclinometer Survey

Layne conducted an inclinometer survey during the drilling of the pilot borehole using an inclinometer (Sure Shot, Petroleum Instruments Co., Inc.) at 100-ft intervals to evaluate the plumbness and alignment of the borehole. The inclinometer tests indicated that the borehole was  $<0.5^\circ$  from plumb at the measured depths, as shown in **Appendix E**, meeting industry standards.

### 3.3.4 Geophysical Surveys

Upon completion of the pilot borehole, Layne conditioned the borehole fluids by circulating the mud for approximately six hours prior to conducting the surveys. The downhole geophysical logging was performed by Layne's subcontractor (Pacific Surveys, LLC) on December 10, 2024. The suite of geophysical borehole logs was conducted from the bottom of the conductor casing at approximately 96 ft bgs to the bottom of the pilot borehole at 690 ft bgs. The suite included the following logs:

- Laterolog 3 (LLR3)
- Gamma-Ray Log
- Short Normal Resistivity Log (RSN) and Long Normal Resistivity Log (RLN) (16 in. and 64 in. spacing)
- Single Point Resistivity Log
- Spontaneous Potential Log

The geophysical logs are included in **Appendix E**, and select logs are shown with the lithology log, isolated aquifer zone and well construction included in **Appendix D**.

The resistivity logs, LLR3, Resistivity RSN, and RLN, can indicate relative changes in lithology adjacent to the borehole walls. Generally, with consistent water quality, these logs increase to the right when the lithology is coarser grained and decrease when the lithology is fine grained. However, the conductivity of the groundwater can also affect these logs. These resistivity logs show similar lithology patterns to those observed in the lithology log, as shown in **Appendix D**. A coarser, shallow zone is indicated above 300 ft bgs terminating with a fining of lithology from about 295 to 318 ft bgs. The lithology varies slightly down to about 400 ft bgs where the lithology fines until about 440 ft bgs. A significant coarser layer is indicated between about 550 and 555 ft bgs.

An electric log, including resistivity and spontaneous potential traces, was performed alongside the deviation survey to support subsurface characterization, **Appendix E**. The log was used to identify coarse-grained, permeable units and to inform the final screen placement. Zones of elevated resistivity and distinct spontaneous potential deflections were interpreted as potential aquifer units between 300 and 400 ft bgs and between 450 and 650 ft bgs, corresponding with observed sand and gravel layer in the lithologic log. These data were used to validate that the screen intervals were properly aligned with the most transmissive zones in the aquifer.

#### **3.3.4.1 Gyroscopic Deviation Survey**

A gyroscopic deviation survey was conducted on December 10, 2024, to measure the vertical alignment of the pilot borehole after total depth was reached. These logs are shown in **Appendix E**. The results presented in the chart called In the Plane of Closure indicate that the well maintained a near-vertical alignment throughout its total depth of approximately 693 ft bgs. The total lateral displacement towards the bottom of the well was approximately 0.94 ft, with a maximum of 0.8 ft to the north and approximately 0.5 ft to the west.

The dog leg analysis indicates sharp changes in direction or angle. The path is generally smooth, with most dogleg values below 3 degrees per 100 ft. Localized increases in dogleg severity were observed at depths near 300 ft, 450 ft, and 640 ft bgs up to approximately 6.5 degrees per 100 ft.

#### **3.3.4.2 Plumbness and Alignment Survey**

A deviation survey was conducted to measure the borehole alignment and indicated that the borehole deviation was 0.92 ft from center at the bottom of the borehole, at 690 ft bgs. This deviation meets the standard of <12.06 in. per 100 ft for an 18 in. casing.

The up run of the survey shows small deviations in angle between 170 and 180 ft bgs, 320 and 360 ft bgs, and 540 and 550 ft bgs. These deviations are less than the recommended deviation of less than 1.0 degrees per 100 ft of borehole depth (AWWA, 2020). The total offset from 0 to 660 ft bgs was 1.82 ft from vertical. The down run of the

survey shows similar, more gradual deviations, with a total offset of 1.93 ft from vertical at 660 ft bgs. Given the inner diameter of the casing of 18 in., these deviations should not affect the functionality of the well regarding installation, removal, and operation of a vertical turbine pump.

### 3.4 Isolated Aquifer Zone Testing

Isolated aquifer zone testing consisted of isolating a specific aquifer zone within the pilot borehole for airlifting and testing for water quality. Yield of each zone is also recorded, though it is not typically representative of the final capacity of the zone due to zone construction limitations, including using casing with limited open screen area, the use of a standard gravel pack not specifically designed for the zone, and the relatively small diameter of the zone tool that can limit pump size.

Five isolated aquifer zone tests were designed based on interpretation of the results of the lithology and geophysical logs. Data from isolated aquifer zone testing were used to prepare the final well design for the Explorer Well.

Initially, three zones (Zone 1, Zone 2, and Zone 3) were constructed and tested on December 12, 16, and 18, 2025, respectively. The production and water quality results showed elevated nitrate (as N) levels in the shallow zone, Zone 3. Because the treatment plant does not currently treat for nitrate, two additional zone tests were conducted to sample for nitrate above and below Zone 3 within the borehole. Zone 1A and Zone 2A were constructed on February 1 and 4, 2025, respectively. These tests procedures and results are described below.

#### 3.4.1 Zone Construction

Each isolated aquifer zone was constructed in accordance with a design prepared by the Hydrogeologist and approved by PWP. The construction intervals for each zone are shown in **Table 2** and **Appendix D**. Where applicable, the open borehole below each aquifer zone was backfilled with bulk gravel up to the base of the lower bentonite seal.

Each zone included at least 10 ft of bentonite seal both above and below the gravel pack surrounding the perforated section of the zone tool. Bentonite seal consisted of HOLEPLUG® 3/8 in. graded sodium bentonite. The gravel pack, comprised of 3/4 in. surrounded gravel, was placed around the perforated interval and extended approximately 10 ft above and below the screened section. Following zone construction, the bentonite seals were allowed to hydrate before beginning zone development.

Annular materials for each zone were placed through a tremie pipe, with the pipe end positioned within 10 ft of the bottom of the aquifer zone interval to prevent bridging and segregation during installation.

### 3.4.2 Zone Well Development and Pumping

Airlifting began slowly to verify that the bentonite seals are not compromised. This was followed by airlifting in each aquifer zone. During airlifting, development, and pumping for the zone testing, water quality field parameters were collected every 30 minutes. Field Parameters included:

- pH
- Electrical conductivity (EC)
- Temperature (C°)
- Dissolved oxygen (DO) using a handheld YSI 556 Multiprobe System (MPS)
- Turbidity was measured using a Hach 2100Q Turbidimeter
- Water levels were measured using a Solinst water level meter
- Discharge rates were monitored regularly

During development of Zone 1A and 2A, water quality field parameters included as the addition of oxidation-reduction potential (ORP). Field parameters were measured using a handheld Horiba U-52 w/ Flow Cell.

Once each zone was airlifting groundwater with turbidity of less than 10 NTU and the other field water quality parameters had stabilized, the zone was airlifted for six hours before a water quality sample was collected for laboratory analyses.

Zone tests were conducted on the following dates:

- Zone 1 - December 13 to 15, 2025
- Zone 2 - December 16 to 18, 2025
- Zone 3 - December 18 to 19, 2025
- Zone 2A - February 1 to 4, 2025
- Zone 1A - February 4 to 5, 2025

Water quality field parameters for each zone are shown in **Table 3-1** through **Table 3-5**.

### 3.4.3 Isolated Aquifer Zone Testing Water Quality Results

Each groundwater sample was labeled and transported to Eurofins Environment Testing – Calscience in Tustin, CA in accordance with standard Chain of Custody (COC) procedures. Zones were sampled on the following dates:

- Zone 1 - December 15, 2025
- Zone 2 - December 18, 2025
- Zone 3 - December 19, 2025
- Zone 2A - February 4, 2025
- Zone 1A - February 5, 2025
- Zone 1B (duplicate) - February 5, 2025

A copy of each COC is provided in the lab data reports, in **Appendix G**.

The groundwater quality results for the five zones (Zone 1, Zone 2, Zone 2A, Zone 3, Zone 1A, and Zone 1B [duplicate]) showed varying levels of the following detections: Nitrate as N, Sulfate, Perchlorate, Arsenic, Iron, Lead, Manganese, 1,2,3-Trichloropropane, Carbon tetrachloride, Chloroform, and Perfluorooctanoic acid (PFOA).

A summary of the water quality analyses and a comparison to applicable drinking water standards is provided in **Table 4**. A copy of each laboratory report is provided in **Appendix G**.

### 3.5 Final Well Design

The well design was updated to capture as much production and constituents of concern for treatment as feasible while optimizing pump design and limiting nitrate concentrations measured during isolated aquifer zone testing in Zone 3.

#### 3.5.1 Gravel Envelope Design

A sieve analysis was performed on soil samples collected from depths corresponding to the coarsest and finest samples within the anticipated screen intervals. Six soil samples from the following depths were submitted to Roscoe Moss for grain size sieve analysis on December 20, 2024:

- 370-380 ft bgs
- 460-470 ft bgs
- 510-520 ft bgs
- 570-580 ft bgs
- 590-600 ft bgs
- 650-660 ft bgs

**Figure 5** shows the results of the sieve analyses based on standard U.S. sieve sizes. The samples were similarly well graded, spanning from fine sand to coarse sand with up to about 15% fines, except for the 510 to 520 ft interval, which was more coarse and poorly graded, containing about 40% coarse sand and 60% medium sand. A screen slot size of 0.060 in. with an 8x16 gravel pack gradation was selected for the final well design. The gradation of the final gravel pack is shown in **Figure 5** and indicates approximately 20% passing of the gravel pack through the screen openings. The passing material allows for movement within the gravel pack during initial well development and for a gradation to develop within the gravel envelope which helps prevent silt and sand from the formation from entering the well.

The final well design consists of two screen intervals at 350-390 and 440-650 ft bgs. The design allows for the pump intake to be placed in the blank section of the well between 390-440 ft bgs, so that groundwater drawdown during pumping can reach just above the screen interval and, if needed, to drop into the top screen interval during various scenarios, including high demand, pumping plan optimization during maintenance activities at other wells, and during drought periods.

### 3.6 Reaming of the Borehole

Following the completion of zone testing and the final well design, Layne used the flooded-reverse drilling method to ream the borehole to its final diameters using 32 in. and 28 in.-diameter mill tooth tricone bits. The borehole reaming began on March 3, 2025, reaching completion at a depth of 443 ft bgs with a 32 in. diameter bit on March 6, 2025. A “wiper pass” was conducted with a 32 in. diameter bit prior to resuming drilling with a 28 in. diameter bit on March 17, 2025, which reached total depth of 680 ft bgs on March 19, 2025.

#### 3.6.1 Caliper Log

Upon completion of the reamed borehole, Layne conditioned the borehole fluids by circulating the mud before the drill stem was removed to allow for a caliper log. The logging was performed by Pacific Surveys, LLC on March 19, 2025. The log was run from the bottom of the conductor casing at approximately 96 ft bgs to the bottom of the pilot borehole at 690 ft bgs.

The log provides measurements of the internal diameter of the borehole, allowing for the identification of washouts, enlargements, or irregularities that may impact completion operations. The caliper log shows that above approximately 593 ft bgs, the borehole did not deviate from the drill bit size by more than 1 in. in diameter. Below 593 ft bgs, in the portion of the borehole reamed with a 28 in. diameter bit, there were three short intervals in which the borehole diameter exceeded 29 in. This is a minor deviation likely caused by a small amount of scouring of the borehole wall during reaming within coarser materials. The caliper log indicated that borehole condition was acceptable for well installation.

### 3.7 Production Well Construction, Development, and Testing

Prior to on-site delivery of well materials, Geosyntec inspected the well casing lengths at the manufacturer's facility (Roscoe Moss Company) in Los Angeles, California, to verify materials, slot size, thickness. The material for the gravel feed tubes and sounding tube had a wall thickness of schedule 40 instead of schedule 80. These were rejected by PWP, and new materials were ordered.

The Explorer Well was constructed between March 20 and March 25, 2025. The Explorer Well as-built diagram is included in **Figure 6**. The as-built diagram shows the major features of the well as it was constructed. A summary of the Explorer Well construction information is in **Table 5**, and the well features are included in the lithology log in **Appendix D**. **Appendix H** includes the submittal documents for a California Well Completion Report, submitted to the CA DWR pursuant to California Water Code Section 13751.

**Figure 7** shows an as-built diagram of the wellhead in cross-section and plan view. These diagrams indicate the configurations of the gravel feed tubes and sounding tube as they daylight above ground.

#### 3.7.1 Explorer Well Casing Materials

The 18.625 in. outer diameter (OD) well casing is composed of 5/16 in. wall thickness, Type 304L Stainless Steel. The well screen is composed of Type 304L Stainless Steel 18.625 OD casing with 5/16 in. wall thickness. The screen was made of Full-Flo Louvers manufactured by Roscoe Moss with 0.060 in. slot openings. The well casing and screen were manufactured in 20-ft lengths with a single spiral weld along the longitudinal axis. An 18.625 in. diameter bottom plate (welded bottom cap from Roscoe Moss) was welded to the bottom of the well casing at approximately 670 ft bgs.

ARC welding was done on site by certified welders pursuant to the provisions of Section IX of the American Society of Mechanical Engineers (ASME) Boiler and AWWA Standard C206. Centralizers were welded to the casing at 40 ft intervals, with centralizers above and below both screen intervals to keep the casing centered within the borehole during annular material emplacement. The centralizers consisted of three shaped steel straps (centralizers), measuring 2 ½ in. x 5/16 in. The centralizers were placed 120° degrees apart around the casing at 40-ft vertical intervals. The centralizers were made of the same materials as the casing and were welded in place during installation of the casing at the Site.

Well construction included two, 4.5 in. OD open-ended, gravel feed tubes. The gravel feed tubes were composed of type 304L Stainless Steel with schedule 80 wall thickness. The joints were butt-welded end-to end.

A 3.5 in. OD sounding tube was installed to the outside of the well casing and joined the well casing through a 24 in. long port from 343 to 345 ft bgs. The sounding tube was

composed of Type 304L Stainless Steel with schedule 80 wall thickness. The joints were butt-welded end-to-end.

### 3.7.2 Annular Material

Annular Materials included:

- Bentonite Seal: HOLEPLUG ® 3/8 in. Graded Sodium Bentonite
- Gravel Pack: 8X16 Gradation
- Transition Sand: QUIKRETE ® Washed Plaster Sand (No. 1152)
- Cement Grout: 10.3 Sack Cement

The as-built diagram shown in **Figure 6** shows the placement of the annular materials. Each screened interval of the casing was enclosed in a gravel envelope that extended 10 ft above and below the screened interval and was sealed above and below by bentonite seals. The design and installation of the annular materials are described below.

#### 3.7.2.1 Annular Seal

The Explorer Well annular seal was poured from 333 ft bgs to 128 ft bgs on March 24, 2025. The second pour was emplaced from the settled level of 128 ft bgs to the ground surface on March 25, 2025.

The annular space between the borehole wall and well casing and ancillary tubing was placed with sand-cement grout under pressure via a tremie pipe pursuant to the CA DWR Well Standards Bulletin 74-90/74-81 (DWR, 1981/1991).

A total of six batches of sand-cement grout were used to seal the conductor casing. The sand-to-cement ratio by weight across the delivered batches ranged from 2.06:1 to 2.09:1. This is within the acceptable range of  $\pm 10\%$  of a specified 2:1 ration stated in the CA DWR Well Standards, Bulletin 74-90. The calculated water-to-cement ratio by weight across the delivered batches ranged from 0.04:1 to 0.36:1. The mix design for the grout and delivery tickets from Robertson's Ready Mix are included in **Appendix I**.

### 3.7.3 Production Well Development

The following development procedures were implemented to improve well yield by removing fines (silt and clay), sands, and drilling fluids from the borehole wall and adjacent aquifer to connect the well to the formation's hydraulic properties. Well development included two phases: mechanical development by airlifting; and swabbing and secondary development conducted by pumping and surging. The well development process performed at the Explorer Well is described below.

### **3.7.3.1 Mechanical Swabbing and Airlifting Development**

Mechanical development of the well was conducted from March 26 through April 1, 2025, and involved a combination of swabbing and airlifting. The swab tool was equipped with double rubber packers 7 ft, 7 in. apart and the diameter of the packers were shaved down to fit in the casing with  $\frac{1}{4}$  to  $\frac{1}{2}$  in of space between the casing and the packers. This tool allowed simultaneous airlifting and swabbing within the well casing.

The development process began with a downward swabbing pass from the top to the bottom of the screen intervals. Swabbing was conducted in 10 ft sections for approximately 15 minutes to an hour and a half, as needed. Following swabbing, the tool was positioned adjacent to a 10-ft interval, and so on.

On March 29, 2025, a non-phosphoric dispersant, Aqua-Clear PFD, was introduced to enhance the removal of fine particles. The dispersant was added through the swab tool, and each section of the screen was subsequently swabbed to help the dispersant infiltrate the gravel pack and near-well formation.

After reaching the bottom of the well while injecting the dispersant, swabbing and airlifting continued from the bottom of the well screen and proceeded upward to the top of the well screen, and air-lifted for approximately 15 minutes per 10 ft of screen before the section was swabbed again. It was estimated that airlifting removed fluids at approximately 130 gallons per minute (gpm). Turbidity decreased during the second pass to near or below 100 NTU in each 10 ft section.

During the development process, water quality field parameters and water levels were recorded at the end of each airlifting cycle. Field parameters included:

- pH
- EC
- Temperature
- DO using a handheld YSI 650 MPS.
- Turbidity was measured using a Hach 2100Q Turbidimeter
- Water levels were measured using a Solinst electronic water level meter
- Discharge rates were estimated during airlifting

The field data showing the swabbing and airlifting cycles and field water quality parameters are included in **Table 6**.

### **3.7.3.2 Development by Pumping**

Secondary development included a combination of pumping and surging. Layne used a temporary pump for development. The secondary development occurred from April 14 to 18, 2025, as shown in **Table 7**.

Development by pumping included cycles of pumping at a constant rate until turbidity levels were declining and then surging the well several times. During pumping and

surging, water quality field parameters were collected every 15 minutes of continuous pumping following each surge cycle. Field Parameters included:

- pH
- EC
- Temperature
- DO, using a handheld YSI 650 MPS
- Turbidity was measured using a Hach 2100Q Turbidimeter
- Water levels were measured using a Solinst electronic water level meter
- Discharge rates

Water quality field parameters are shown in **Table 7**.

The well development effort ended when the turbidity was consistently below 10 NTU, the other field parameters had stabilized, and the specific capacity of the well was no longer increasing. Sand content was only observed to be trace throughout the development by pumping process.

#### **3.7.4 Production Well Aquifer Testing**

The following aquifer test procedures were implemented to test for aquifer parameters and estimate future performance of the Explorer Well. The aquifer testing included a step-drawdown pumping test, a 24-hour constant-rate pumping test, and a recovery test. Data collected during the pumping tests included:

- Groundwater levels in the Explorer Well and nearby wells measured manually using an electric sounder and with pressure transducers
- Field water quality parameters
- Discharge rates

Nearby wells were included in the pumping test to measure aquifer parameters and measure potential interference between pumping at the Explorer Well and the wells. These wells include:

- Well 52
- Arroyo Well
- The Behner Monitoring Well cluster (MW-381, MW-517, and MW-567).

**Figure 8** shows the locations of the nearby wells and the screened depths at each well. The Behner wells are monitoring wells (MW) and are not used for pumping. The Arroyo Well and Well 52 are active wells used by PWP for water supply, as needed. **Table 11**

shows well locations, the distance of each well from the Explorer Well, the reference point elevations, and additional well data.

#### **3.7.4.1 Pressure Transducers**

Groundwater levels within the five nearby wells listed in the previous section were measured using vented pressure transducers. The transducers were set to record water levels at one-second intervals. The pressure transducers recorded groundwater levels within the wells listed below during the following time periods:

- Well 52 - April 14, 2025, to May 1, 2025
- Arroyo Well - April 15, 2025, to May 1, 2025
- Behner Well MW-381 - April 16, 2025, to May 1, 2025
- Behner Well MW-567 - April 16, 2025, to May 1, 2025
- Behner Well MW-517 - April 18, 2025, to May 1, 2025
- Explorer Well - April 18, 2025, to April 30, 2025

Because the transducers were vented, barometric pressure monitoring and compensation was not included in the monitoring program. The digital transducer data were provided to PWP in a separate deliverable. **Table 11** includes select manual water levels measured and recorded before, during, and after the pumping tests to calibrate the transducer data. **Figure 9-1** shows selected manual water levels at each well with groundwater levels recorded by transducer in elevation to show relative groundwater levels within the well field. The drawdown and recovery curves seen in the groundwater elevations from the Explorer Well, Well 52, and Behner Well MW-567 prior to April 22, 2025 were caused by well development activities at the Explorer Well. The step-drawdown pumping test was conducted on April 22, 2025, and the 24-hour constant-rate pumping test was conducted on April 28, 2025. Drawdown at the Explorer Well and Well 52 and the Behner Wells MW-517 and MW-567 can be seen in **Figure 9-1** during these pumping tests.

#### **3.7.4.2 Step-Drawdown Test**

The step-drawdown test was performed to assess the performance of the Explorer Well at various pumping rates. The test was also used to estimate key aquifer hydraulic properties, including transmissivity and storativity.

The 10-hour step-drawdown pumping test was conducted on April 22, 2025, between 07:00 AM and 05:00 PM. Layne installed a test pump with the intake centered around 410.82 ft bgs. The average pumping rate and periods for each step were as follows:

- 803 gpm from 07:00 AM to 09:00 AM
- 981 gpm from 09:00 AM to 11:00 AM
- 1,067 gpm from 11:00 AM to 01:00 PM

- 1,171 gpm from 01:00 PM to 05:00 PM

During each step, water quality field parameters were collected at the following intervals:

- 30 second intervals for the first 5 minutes,
- 1 minute intervals for the next 5 minutes,
- 5 minute intervals for the following 20 minutes, and
- 15 minute intervals for the remainder of the step.

Field parameters included:

- pH,
- EC
- Temperature
- DO
- Turbidity
- Water levels
- Discharge rates.

Water quality field parameters are shown in **Table 8**. The groundwater quality parameters were stable throughout the pumping test, indicating that a water source with differing measured water quality parameters from the local groundwater was not pulled to the well in significant amounts during the pumping test.

**Figure 9-2** shows groundwater levels recorded during the step-drawdown pumping test that indicated the Arroyo Well pump was already pumping during the start of the test but was turned off at 12:09 PM, during Step 3 of the test. This pumping at the Arroyo Well interfered with water level measurements at Well 52. Water level data from Well 52 and the Arroyo Well were excluded from further step-drawdown pumping test analyses because of this interference. Water level data from the Explorer Well, MW-517, and MW-567 were not as strongly affected by Arroyo Well pumping, so they were included in further analyses. Water levels (hydraulic head) at MW-381 increased (recovered) about 10 in. between 07:00 AM and 12:00 PM. This increase in hydraulic head during the step test may be an instance of the Noordbergum effect, which is the phenomenon where hydraulic heads in adjacent aquifers and aquitards can initially rise and then fall due to a pressure drop in the aquifer and aquitard prior to propagation of water level decline. The recording of this effect may indicate that MW-381 is screened in a shallow aquifer, and the other wells are screened in a deeper aquifer separated by a confining or leaky aquitard. For that reason, water level data from MW-381 were excluded from further step-drawdown pumping test analyses.

A specialized aquifer test analysis software called AQTESOLV version 4.02 (Duffield, 2006) was used to estimate aquifer parameters based on the groundwater level data collected during the step-drawdown test. The analytical method used for the analyses

was Theis (1935) / Bear (1979), which is appropriate for step-drawdown tests in wells that partially penetrate a confined aquifer, as is the case for the Explorer Well. Results from automatic matching of the data were as follows:

- Transmissivity = 3,631.7 ft<sup>2</sup>/day
- Storativity = 1.427e-5
- Wellborne Skin Factor = -3.262
- Nonlinear Well Loss Coefficient = 0.06979 min<sup>2</sup>/ft<sup>5</sup>
- Nonlinear Well Loss Exponent = 1.5

As discussed above, data from the Explorer Well, MW-517, and MW-567 were only weakly affected by pumping at the Arroyo Well, so they were used as inputs for AQTESOLV. Nevertheless, this weak interference limits the accuracy of the estimated parameters.

The step-drawdown pumping test data were also used to evaluate the sustainable pumping rates for the Explorer Well given the pump setting within the blank section of casing between the two screened sections of the well. Well 52 was not pumping during the step-drawdown pumping test, and the Arroyo Well was turned off during Step 3 of the test. Data indicate that pumping from these wells may affect groundwater levels at the Explorer well, and visa versa.

The step-drawdown pumping test data indicate that with the well pump set between 400 and 430 ft bgs under the current aquifer and climatic conditions, a pumping rate of approximately 900 gpm could sustain a pumping water level above the top of the upper screened interval for several hours, as shown on **Figure 9-3**.

Step 4, shown in **Figure 9-4**, indicated that pumping at 1,120 gpm reached an equilibrium within the four hours of pumping under the test conditions. However, the pumping water level during Step 4 was approximately 395 ft bgs, below the upper screened interval of the Explorer Well starting at 350 ft bgs. Operating a well with the pumping water levels below the top of screens can cause aeration of the screen and adjacent gravel pack leading to increase biofouling and cascading water that can increase air entrainment into the water column and through the pump, which can add to premature wear of the pump.

Following the step-drawdown pumping test, the pump was moved and reinstalled above the upper screened interval to allow the spinner survey, conducted during the constant-rate pumping test, to be performed across the entire screened interval. This setup allowed for an evaluation of the well's pumping capabilities with the pump set above both screen zones.

### 3.7.4.3 Constant Rate Pumping Test

The constant-rate pumping test was conducted to monitor the water-level response (drawdown) of the Explorer Well and nearby wells while the Explorer Well is being pumped. The data are used to estimate hydraulic properties of the aquifer system, including transmissivity and storativity. The groundwater level data is shown in Figures 9-6 and 9-7.

A 24-hour constant rate test was conducted between 08:00 AM on April 28, 2025, and 08:00 AM on April 29, 2025. The intake of the test pump was set at 342 ft bgs. The pumping rate averaged 424 gpm. The pumping rate was chosen based on the results of the step-drawdown pumping test to optimize the drawdown of the pumping water levels for a period of at least 24-hours. **Table 9** shows the data collected during the constant-rate pumping test.

During the constant-rate pumping test, water quality field parameters were collected every 15 minutes. Field Parameters included:

- pH
- EC
- Temperature
- DO
- Turbidity
- Water levels
- Discharge rates

Water quality field parameters are shown in **Table 10**.

Similar to the step-drawdown pumping test, water levels at MW-381 rose slightly, about 4 in. during the early hours of the pumping test. As discussed above, this may indicate that MW-381 is screened in a separate, shallower aquifer, so groundwater level data from MW-381 were excluded from further constant rate analyses.

AQTESOLV version 4.02 was used to estimate aquifer parameters based on the data collected during the constant-rate pumping test. The Theis (1935) and Hantush (1961) analytical method was applied, which is appropriate for constant rate pumping tests in wells that partially penetrate a confined aquifer, as is the case for the Explorer Well. **Figures 10-1** and **10-2** show the results of the analyses. Results from automatic matching of the data were as follows:

- Transmissivity = 1,897.1 ft<sup>2</sup>/day
- Storativity = 0.0001332

The static water level at the start of the test was 174.4 ft bgs and the pumping water level was 270.3 ft bgs, with 95.9 ft of drawdown. The specific capacity after 15 minutes of

pumping was 6.8 gallons per minute per foot of drawdown (gpm/ft-dd) and averaged 4.7 gpm/ft-dd for the last hour of the test. A specific capacity indicates that at varying pumping rates, the drawdown of water levels within the well can be estimated using this value. However, the relationship between pumping rate and drawdown is not exactly linear and can vary based on other factors such as lithology variability, pump capacity at each rate and pumping water level, and nearby aquifer activity such as pumping from other wells. Water quality parameters measured with hand-held meters did not vary during the constant-rate pumping test, with the exception of a few short-term spikes in turbidity.

#### **3.7.4.4 Spinner Survey**

A spinner survey was conducted on April 29, 2025, after approximately 20 hours of continuous pumping during the constant-rate pumping test. The spinner survey, included in **Appendix E**, measured the velocity of fluid passing through the screen intervals along the entire length of the screen. A continuous survey was conducted from 310 (above the top of the screen and below the pump intake) to 650 ft bgs (the bottom of the well screen) within the well casing. Stop count surveys were also conducted at nine depths within the screened intervals.

The delta spin data show that significant portions of the groundwater are entering the well through the screens between approximately 350 and 365 ft bgs and 570 ft bgs to 600 ft bgs. Groundwater was entering the well throughout the rest of the screen relatively evenly, except for very little flow between 370 and 377 ft bgs and below about 600 ft bgs.

#### **3.7.5 Aquifer Recovery Test**

Immediately following the shutdown of the test pump, recovery measurements were conducted for 30 minutes via sounder and 24 hours using installed transducers with data loggers. The results of the recovery test are presented in **Table 9**. The last groundwater level measurement during constant-rate pumping test 270.3 ft bgs, a drawdown of 95.9 ft. By 30 minutes after the start of the recovery test, the groundwater levels had recovered to 21.9 ft of residual drawdown, a recovery of 78% of the drawdown. This data shows that the well recovers relatively quickly.

#### **3.7.6 Groundwater Quality Testing**

After approximately 20 hours and 30 minutes of pumping during the constant-rate pumping test, a groundwater sample was collected from the discharge of the temporary well pump. The sample was labeled and transported to Eurofins Eaton Analytical, LLC in Pomona, California pursuant to standard COC procedures. The groundwater quality sample from the Explorer Well was collected on April 29, 2025. A copy of the COC is provided in the lab data report, in **Appendix G**.

A summary of the detected analytes is provided in **Table 10** and the laboratory reports are included in **Appendix G**. The groundwater quality results for the Explorer Well showed detections of the following constituents of concern:

- Nitrate as N
- Sulfate
- Perchlorate
- Arsenic
- Iron
- Lead
- Manganese
- 1,2,3-trichloropropane (1,2,3-TCP)
- Carbon tetrachloride
- Chloroform
- PFOA

The following constituents were above the California maximum contaminant level (MCL) for drinking water:

- 1,2,3-TCP: 0.013 µg/L, above the MCL of 0.01 µg/L
- Carbon tetrachloride: 3.6 µg/L, above the MCL of 0.05 µg/L
- Chloroform: 0.64 µg/L, above the Secondary MCL of 0.40 µg/L

PWP intends to treat these constituents at the Monk Hill Water Treatment Plant. All other constituents analyzed met Title 22 standards for drinking water.

### **3.8 Final Well Inspections and Site Activities**

A series of downhole surveys were performed within the Explorer Well to document well alignment, condition, and final construction. These surveys were conducted by Pacific Survey, LLC, a subcontractor to Layne. The surveys were conducted inside the well casing and included geophysical survey, gyroscopic deviation survey, caliper log, spinner flow survey, and video survey. Layne also provided disinfection for the interior of the well, finalized and secured the wellhead, and removed investigation-derived waste. These activities are described below.

#### **3.8.1 Video Survey**

A downhole video survey was conducted on May 12, 2025. The video survey confirmed that the casing appeared structurally sound, with no visible signs of corrosion, deformation, or mechanical damage. The screen sections were visually confirmed to be at the design depth intervals and appeared free from blockage or structural defects. No foreign materials or obstructions were observed within the well-casing. Overall, the video survey confirmed that the well was constructed pursuant to specifications, and the casing and screen installations met both depth and integrity requirements.

#### **3.8.2 Plumbness and Alignment Survey**

Plumbness and alignment surveys were conducted on May 13, 2025. The survey was conducted from the ground surface to 660 ft bgs where fill blocked the survey. The results

are included in **Appendix E**. The up run of the survey shows small deviations in angle between 170 and 180 ft bgs, 320 and 360 ft bgs, and 540 and 550 ft bgs. These deviations are less than the recommended deviation of <1.0 degree per 100 ft of borehole depth (AWWA, 2020). The total offset from 0 to 660 ft bgs was 1.82 ft from vertical. The down run of the survey shows similar, more gradual deviations, with a total offset of 1.93 ft from vertical at 660 ft bgs. Given in the inner diameter of the casing, these deviations should not affect the functionality of the well with regard to installation, removal, and operation of a vertical turbine pump.

### 3.8.3 Well Disinfection

As a final step in the Explorer Well completion process, the well was disinfected with a 12.5% sodium hypochlorite solution. The solution was injected into the well through a perforated swab tool below the static water level. The solution was mechanically swabbed into the screens, focusing on the screened interval to induce thorough contact with the casing, gravel pack, and formation interface. The solution remained in the well overnight, for a total of 15.75 hours. After this period, the concentration of chlorine residual was tested and below 50 ppm so no solution removal was conducted. The well disinfection process was conducted on May 14 and 15, 2025.

### 3.8.4 Wellhead Completion

Following disinfection, the well head was temporarily secured by welding a stainless-steel plate onto the well casing stick-up. This welded plate was installed to protect the well from surface contamination or damage until the aboveground improvements at the site are complete. The current configuration includes the finalized casing and tubing with a stick-up of 4 ft 11 in. above the ground surface. The wellhead completion will be modified during the aboveground improvements phase of the Project. The wellhead configuration is shown on **Figure 7**.

### 3.8.5 Investigation-Derived Waste Management

Soil cuttings and drilling fluids produced during drilling were staged on the west side of Explorer Road and then tested for contamination and hauled to a licensed disposal facility by Layne and characterized based on laboratory analytical results, provided in **Appendix J**. Layne transported the materials under manifest to the appropriate disposal facility.

## 4. CONCLUSIONS AND RECOMMENDATIONS

The Explorer Well installation project was completed on May 19, 2025. The well was completed to 670 ft bgs, with a 18.625 O.D. Stainless Steel casing and 0.060-in. slot Full Flo louvers from 350-390 ft bgs and 440-650 ft bgs. The well includes a shallow and deep Stainless Steel gravel feed tube and a Stainless Steel sounding tube that enters the casing through a 24 in. long port from 343 to 345 ft bgs.

The groundwater quality analyzed from the well collected during the constant-rate pumping test indicated that concentrations of 1,2,3-TCP and carbon tetrachloride exceeded their respective CA Primary MCLs, and chloroform was detected at levels exceeding the Secondary MCL. These constituents are expected to be treated at the existing Monk Hill Water Treatment Plant following completion of above ground improvements at the Explorer Well.

The results of the aquifer tests conducted for this project (step-drawdown and constant-rate pumping tests) are summarized below. During the step-drawdown pumping test the pump intake was at 411 ft bgs, within the blank casing section between the two screened intervals. During the constant-rate pumping test the pump intake was at 342 ft bgs, above the shallow screened interval.

Pumping Test Step	Step Duration	Average Pumping Rate	Pumping Water Level	Drawdown by Step	Cumulative Drawdown	Final Specific Capacity
	minutes	gpm	ft bgs	ft	ft	gpm/ft dd**
Static*	0	0	176.7	0	0	--
Step 1	120	803	309.8	133.2	133.2	5.4
Step 2	120	981	351.9	42.0	175.2	4.9
Step 3	120	1,067	377.3	25.4	200.7	5.1
Step 4	120	1,171	392.4	15.1	215.8	5.1
Constant Rate	1,440	424	270.3	95.9***	95.9	4.4

\*Water level shown is just prior to the start of Step 1.

\*\*gallons per minute per foot of drawdown

\*\*\*The static water level prior to the constant-rate pumping test was 174.4 ft bgs.

During the constant-rate pumping test, the specific capacity was 6.8 gpm/ft-dd after 15 minutes of pumping and averaged 4.7 gpm/ft-dd for the last hour of the test.

Results from curve matching of the pumping water levels measured during aquifer testing using AQT SOLV provided a range of transmissivity and storativity values:

- Transmissivity = 1,897.1 ft<sup>2</sup>/day to 3,631.7 ft<sup>2</sup>/day
- Storativity = 0.0001332 to 0.00001427

Based on the results of the aquifer testing, given similar current aquifer conditions, the Explorer Well is estimated to sustain the following flow rates for 30 days at the following rates:

- 900 gpm with approximately 150 ft of drawdown. The pumping water level is estimated to be approximately 327 ft bgs, which is above the shallow well screen.
- 1,100 gpm with approximately 183 ft of drawdown. The pumping water level is estimated to be approximately 360 ft bgs, or about 10 ft below the top of the shallow well screen.

These scenarios would require the pump intake to be placed within the blank section of the well between 390 and 440 ft bgs to allow for recommended pump submersion during pumping.

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# TABLES

**Table 1  
Explorer Well Chronology of Events**

Dates	Description of Events
August 16, 2024	Notice to Proceed
August 22, 2024	Stakeholder Site Walk
September 9, 2024 to September 27, 2024	Road Realignment
October 15, 2024	12-inch Diameter Pipeline Excavation and Cap
October 23, 2024 to October 31, 2024	Soundwall and Silt Fence Installation
October 30, 2024 to October 31, 2024	Noise Monitoring (PSOMAS)
November 3, 2024 to November 9, 2024	Conductor Casing Installation
November 12, 2024 to November 21, 2024	Drilling Rig and Ancillary Equipment Mobilization
December 2, 2024 to December 10, 2024	Pilot Hole Drilling and Geophysical Surveys
December 11, 2024	Isolated Aquifer Zone Testing Design
December 12, 2024 to December 16, 2024	Aquifer Zone Testing - Zone 1
December 16, 2024 to December 18, 2024	Aquifer Zone Testing - Zone 2
December 18, 2024 to December 20, 2024	Aquifer Zone Testing - Zone 3
January 7, 2025 to January 24, 2025	Delays Associated with the Eaton Canyon Fire
January 21, 2025 to January 24, 2025	Repairs Associated with the Eaton Canyon Fire (Soundwalls/Fencing)
January 23, 2025 to January 31, 2025	Additional Isolated Aquifer Zone Testing Design
February 1, 2025 to February 4, 2025	Aquifer Zone Testing - Zone 2A
February 4, 2025 to February 5, 2025	Aquifer Zone Testing - Zone 1A
March 7, 2025 to March 16, 2025	Procurement of Well Construction Materials
March 3, 2025 to March 6, 2025	Borehole Reaming
March 17, 2025 to March 19, 2025	Borehole Reaming and Caliper Survey
March 20, 2025 to March 25, 2025	Well Construction
March 26, 2025 to April 1, 2025	Well Development (Swabbing and Air-lifting)
April 1, 2025 to April 8, 2025	Demobilize Drilling Rig and Mobilize Development Rig
April 9, 2025 to April 11, 2025	Test Pump Installation
April 14, 2025 to April 21, 2025	Well Development (Pumping)
April 14, 2025 to May 1, 2025	Transducer Installation and Removal
April 22, 2025	Ten-hour Step-Drawdown Pumping Test
April 28, 2025 to April 29, 2025	Constant Rate Pumping Test (24-hour) and Spinner Survey
April 29, 2025	Groundwater Sample for Water Quality Testing
April 30, 2025 to May 2, 2025	Demobilization
May 5, 2025 to May 9, 2025	Site Walk - Punch List; Remove Sound Walls and Fencing
May 12, 2025 to May 16, 2025	Plumbness Alignment and DVD Video - Demobilization
May 19, 2025	Final Site Walk

**Table 2**  
**Explorer Well Isolated Aquifer Zone Construction Information**

Zone Information			Annular Materials			
Zone ID	Construction Date	Zone Screen Depth (ft bgs)	Upper Seal Depth (ft bgs)	Gravel Pack Depth (ft bgs)	Lower Seal Depth (ft bgs)	Lower Fill Depth (ft bgs)
Zone 1	12/12/2024	622.0 - 642.3	600 - 610	612 - 652	652 - 662	662 - 690
Zone 2	12/16/2024	557.0 - 577.3	500 - 523, 525 - 545	547 - 587	587 - 597	597 - 600
Zone 3	12/18/2024	432.0 - 452.3	410 - 420	422 - 462	462 - 472	472 - 500
Zone 2A	2/1/2025	482.0 - 502.3	430 - 470	472 - 512	512 - 522	522 - 532
Zone 1A	2/4/2025	371.0 - 391.3	330 - 359	371 - 401	401 - 411	411 - 430

**Notes:**

Drilling Method: Flooded Reverse  
 Boring Depth/Diameter: 96 - 690 ft bgs / 17.75 in  
 Casing Screen Slot Direction/Size/Material: Vertical/Mild Steel  
 Casing (Outer) Diameter: 6 5/8 in  
 Bentonite Seal Type/Brand: HOLEPLUG® 3/8 in Graded Sodium Bentonite Chips (50lb bag)  
 Transition Sand Type/Brand: QUIKRETE® Washed Plaster Sand (No. 1152) (50lb bag)  
 Gravel Pack Type/Brand: Washed Gravel  
 Lower Fill Type/Brand: Washed Gravel

ft bgs = feet below ground surface  
 in = inches

Table 3-1  
Explorer Well Isolated Aquifer Zone Development  
Zone 1

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/13/2024	2:00 PM	7.40	0.850	540.0	20.68	9.77	21	--	--	--	Airlifting	--	--	Tanks
12/13/2024	2:43 PM	8.16	0.373	293.0	19.44	21.56	21	--	--	--	Airlifting	--	--	Tanks
12/13/2024	3:00 PM	8.24	0.330	230.0	18.61	7.35	21	--	--	--	Airlifting	--	--	Tanks
12/13/2024	3:58 PM	8.88	0.314	184.0	21.06	14.14	21	--	--	--	Airlifting	--	--	Tanks
12/13/2024	4:03 PM	--	--	--	--	--	--	--	--	--	Stop Airlifting	--	--	--
12/13/2024	5:05 PM	--	--	--	--	--	--	224.6	--	--	--	--	--	--
12/13/2024	8:33 PM	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/2024	10:11 AM	--	--	--	--	--	--	--	--	--	Continue Airlifting	--	--	--
12/14/2024	11:07 AM	7.87	0.054	>1,000	18.99	12.11	42	--	2,520	2,520	Airlifting	--	--	Tanks
12/14/2024	12:06 PM	7.33	0.062	>1,000	21.13	9.38	29	--	--	--	Airlifting	--	--	Tanks
12/14/2024	1:07 PM	8.20	0.032	>1,000	21.00	10.59	29	--	--	--	Airlifting	--	--	Tanks
12/14/2024	2:10 PM	9.15	0.224	>1,000	20.51	10.31	20	--	--	--	Airlifting	--	--	Tanks
12/14/2024	7:20 PM	8.46	0.342	>1,000	18.82	2.24	35	238.0	--	--	Static	77,888	10	Tanks
12/14/2024	8:15 PM	8.70	0.343	>1,000	19.45	8.44	30	301.0	--	--	Pumping	--	--	Tanks
12/14/2024	9:30 PM	9.40	0.339	>1,000	19.02	5.64	25	323.0	--	--	Pumping	--	--	Tanks
12/14/2024	10:30 PM	9.64	0.333	>1,000	19.25	1.96	20	331.0	--	--	Pumping	--	--	Tanks

Table 3-1  
Explorer Well Isolated Aquifer Zone Development  
Zone 1

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/14/2024	11:30 PM	9.58	0.333	>1,000	18.30	1.65	20	338.0	--	--	Pumping	--	--	Tanks
12/15/2024	12:30 AM	8.76	0.329	>1,000	19.78	1.32	20	354.0	--	--	Pumping	--	--	Tanks
12/15/2024	1:30 AM	8.73	0.326	913.0	20.01	1.03	20	362.0	--	--	Pumping	--	--	Tanks
12/15/2024	2:30 AM	9.58	0.326	891.0	19.17	0.95	25	365.0	--	--	Pumping	--	--	Tanks
12/15/2024	3:30 AM	8.84	0.332	692.0	20.67	1.12	25	373.0	--	--	Pumping	--	--	Tanks
12/15/2024	4:30 AM	8.08	0.324	955.0	20.51	1.29	20	376.0	--	--	Pumping	--	--	Tanks
12/15/2024	5:30 AM	8.28	0.324	721.0	20.96	1.58	20	380.0	--	--	Pumping	--	--	Tanks
12/15/2024	6:31 AM	8.00	0.323	612.0	20.53	1.06	21	393.0	14,210	14,210	Pumping	79,309	10	Tanks
12/15/2024	7:33 AM	8.39	0.321	662.0	21.31	3.48	20	405.0	1,260	15,470	Pumping	79,435	10	Tanks
12/15/2024	8:34 AM	9.18	0.327	529.0	20.55	3.23	22	418.0	1,350	16,820	Pumping	79,570	10	Tanks
12/15/2024	8:49 AM	9.68	0.328	>1,000	20.92	1.95	24	415.0	360	17,180	Pumping	79,606	10	Tanks
12/15/2024	9:04 AM	9.52	0.327	655.0	21.92	1.79	19	409.0	290	17,470	Pumping	79,635	10	Tanks
12/15/2024	10:05 AM	8.75	0.324	470.0	21.61	2.07	21	394.0	1,260	18,730	Pumping	79,761	10	Tanks
12/15/2024	10:20 AM	9.19	0.324	377.0	22.28	2.77	30	390.0	450	19,180	Pumping	79,806	10	Tanks
12/15/2024	10:35 AM	9.29	0.326	431.0	22.36	2.58	27	404.0	400	19,580	Pumping	79,846	10	Tanks
12/15/2024	10:50 AM	9.19	0.325	388.0	22.62	4.34	25	405.0	370	19,950	Pumping	79,883	10	Tanks

Table 3-1  
Explorer Well Isolated Aquifer Zone Development  
Zone 1

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/15/2024	11:05 AM	9.30	0.326	530.0	22.78	2.32	21	405.0	310	20,260	Pumping	79,914	10	Tanks
12/15/2024	11:20 AM	9.14	0.326	412.0	22.94	3.17	25	409.0	370	20,630	Pumping	79,951	10	Tanks
12/15/2024	11:50 AM	9.41	0.327	442.0	22.42	1.80	25	397.0	740	21,370	Pumping	80,025	10	Tanks
12/15/2024	12:05 PM	9.30	0.327	298.0	22.71	2.48	32	396.0	480	21,850	Pumping	80,073	10	Tanks
12/15/2024	12:20 PM	9.38	0.327	>1,000	22.83	2.16	19	396.0	280	22,130	Pumping	80,101	10	Tanks
12/15/2024	12:35 PM	9.28	0.327	343.0	22.87	2.43	19	398.0	280	22,410	Pumping	80,129	10	Tanks
12/15/2024	1:00 PM	9.38	0.326	865.0	22.23	2.15	--	400.0	--	--	Pumping	--	--	Tanks
12/15/2024	1:15 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Tanks
12/15/2024	1:34 PM	8.75	0.324	579.0	22.43	2.04	43	397.0	2,530	24,940	Pumping	80,382	10	Tanks

**Notes:**

-- = no data listed

> = greater than

Units:

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mS/cm

NTU = Nephelometric turbidity unit

Table 3-2  
Explorer Well Isolated Aquifer Zone Development  
Zone 2

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/16/2024	11:30 AM	--	--	--	--	--	--	--	--	--	Airlifting	--	--	Tanks
12/16/2024	12:15 PM	--	--	--	--	--	--	--	--	--	Airlifting	--	--	Tanks
12/16/2024	12:30 PM	9.19	0.604	>1,000	20.60	10.65	94	--	5,640	5,640	Airlifting	--	--	Tanks
12/16/2024	1:30 PM	9.03	0.448	>1,000	20.57	9.36	105	--	6,300	11,940	Airlifting	--	--	Tanks
12/16/2024	2:30 PM	8.82	0.433	940.00	20.86	9.05	124	--	7,440	19,380	Airlifting	--	--	Tanks
12/16/2024	3:30 PM	8.65	0.519	>1,000	20.13	7.93	94	--	5,640	25,020	Airlifting	--	--	Tanks
12/16/2024	3:35 PM	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/2024	2:30 AM	8.08	0.386	381.00	19.71	7.81	82	--	--	--	Airlifting	--	--	Tanks
12/17/2024	3:00 AM	8.22	0.377	143.00	19.82	7.65	82	--	--	--	Airlifting	--	--	Tanks
12/17/2024	3:30 AM	8.61	0.381	63.00	19.66	7.69	82	--	--	--	Airlifting	--	--	Tanks
12/17/2024	4:00 AM	--	--	--	--	--	82	--	--	--	Airlifting	--	--	Tanks
12/17/2024	10:15 AM	--	--	--	--	--	20	217.0	--	--	Static	--	--	Pond 1
12/17/2024	10:30 AM	8.39	0.412	74.90	20.67	5.63	20	223.0	--	--	Pumping	80,382	10	Pond 1
12/17/2024	11:15 AM	8.62	0.417	91.10	20.84	4.92	80	238.0	3,600	3,600	Pumping	80,742	10	Pond 1
12/17/2024	12:15 PM	8.55	0.417	84.00	21.15	5.87	66	257.0	3,980	7,580	Pumping	81,140	10	Pond 1

Table 3-2  
Explorer Well Isolated Aquifer Zone Development  
Zone 2

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/17/2024	1:15 PM	8.60	0.419	39.20	21.75	8.87	76	258.0	4,540	12,120	Pumping	81,594	10	Pond 1
12/17/2024	2:00 PM	8.62	0.422	21.00	22.00	8.65	86	258.0	3,850	15,970	Pumping	81,979	10	Pond 1
12/17/2024	3:05 PM	8.81	0.422	11.00	21.87	5.73	80	257.0	--	--	Pumping	--	--	Pond 1
12/17/2024	3:30 PM	8.15	0.423	17.80	21.70	3.98	80	258.5	--	--	Pumping	--	--	Pond 1
12/17/2024	3:45 PM	8.39	0.420	10.20	21.45	5.92	80	258.5	--	--	Pumping	--	--	Pond 1
12/17/2024	4:45 PM	8.58	0.417	10.20	19.22	5.29	80	258.8	--	--	Pumping	--	--	Pond 1
12/17/2024	5:45 PM	8.38	0.413	7.55	19.71	7.85	80	258.9	--	--	Pumping	--	--	Pond 1
12/17/2024	6:45 PM	8.21	0.413	8.92	19.42	5.56	80	259.1	--	--	Pumping	--	--	Pond 1
12/17/2024	7:45 PM	8.31	0.415	8.63	19.44	5.81	80	259.3	--	--	Pumping	--	--	Pond 1
12/17/2024	8:45 PM	8.38	0.414	8.15	19.39	5.66	80	259.3	--	--	Pumping	--	--	Pond 1
12/17/2024	9:45 PM	8.69	0.420	6.89	19.06	5.67	80	259.5	--	--	Pumping	--	--	Pond 1

Table 3-2  
Explorer Well Isolated Aquifer Zone Development  
Zone 2

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/17/2024	10:45 PM	8.15	0.418	5.96	19.07	5.75	80	259.5	--	--	Pumping	--	--	Pond 1
12/17/2024	11:40 PM	8.00	0.416	6.84	18.85	5.64	80	262.0	--	--	Pumping	--	--	Pond 1
12/18/2024	12:00 AM	8.86	0.420	5.48	19.24	5.75	80	259.0	44,530	60,500	Pumping	86,432	10	Pond 1

**Notes:**

-- = no data listed

> = greater than

Units:

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mS/cm

NTU = Nephelometric turbidity unit

Table 3-3  
Explorer Well Isolated Aquifer Zone Development  
Zone 3

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/18/2024	9:00 PM	--	--	--	--	--	--	--	--	--	--	--	--	--
12/18/2024	9:25 PM	8.27	0.882	>1,000	19.45	7.75	50	--	1,250		Airlifting	--	--	Tanks
12/18/2024	9:35 PM	--	--	--	--	--	25	--	250	1,500	Airlifting	--	--	Tanks
12/18/2024	10:00 PM	--	--	--	--	--	--	--	--	--	Airlifting	--	--	Tanks
12/18/2024	10:05 PM	8.16	0.575	>1,000	17.77	8.16	55	--	275	1,775	Airlifting	--	--	Tanks
12/18/2024	11:00 PM	8.64	0.547	>1,000	18.51	9.48	55	--	3,025	4,800	Airlifting	--	--	Tanks
12/19/2024	12:00 AM	8.96	0.525	690.00	18.49	8.39	55	--	3,300	8,100	Airlifting	--	--	Tanks
12/19/2024	12:10 AM	--	--	--	--	--	--	--	--	--	--	--	--	--
12/19/2024	3:30 AM	--	--	--	--	--	--	--	--	--	--	--	--	--
12/19/2024	3:30 AM	--	--	--	--	--	--	--	--	--	Static	86,432	10	Pond 1
12/19/2024	3:30 AM	8.48	0.563	725.00	17.28	6.20	65	280.0	--	--	Pumping	--	--	Pond 1
12/19/2024	4:30 AM	8.62	0.515	103.00	18.25	7.18	--	280.0	--	--	Pumping	--	--	Pond 1
12/19/2024	5:00 AM	8.45	0.504	94.10	18.31	7.98	--	282.0	--	--	Pumping	--	--	Pond 1
12/19/2024	5:30 AM	8.26	0.512	79.90	18.00	8.27	--	280.0	--	--	Pumping	--	--	Pond 1
12/19/2024	6:00 AM	8.28	0.510	51.50	18.17	8.24	--	280.0	--	--	Pumping	--	--	Pond 1

Table 3-3  
Explorer Well Isolated Aquifer Zone Development  
Zone 3

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/19/2024	6:30 AM	8.32	0.509	39.20	18.01	8.01	55	--	9,890	9,890	Pumping	87,421	10	Pond 1
12/19/2024	7:00 AM	8.35	0.511	21.90	17.03	5.53	61	277.0	1,820	11,710	Pumping	87,603	10	Pond 1
12/19/2024	7:30 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	8:00 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	8:30 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	9:00 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	9:30 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	10:00 AM	--	--	--	--	--	--	--	--	--	Pumping	--	--	Pond 1
12/19/2024	10:30 AM	8.69	0.512	17.50	20.42	5.71	56	278.5	11,730	23,440	Pumping	88,776	10	Pond 1
12/19/2024	11:00 AM	8.24	0.516	12.10	20.49	20.85	45	278.5	1,340	24,780	Pumping	88,910	10	Pond 1
12/19/2024	11:30 AM	8.42	0.517	13.90	20.82	8.61	63	278.5	1,880	26,660	Pumping	89,098	10	Pond 1
12/19/2024	12:00 PM	8.49	0.516	10.10	20.91	5.50	55	278.8	1,650	28,310	Pumping	89,263	10	Pond 1
12/19/2024	12:30 PM	8.54	0.517	8.34	21.14	5.97	56	279.0	1,690	30,000	Pumping	89,432	10	Pond 1
12/19/2024	1:00 PM	8.21	0.524	8.42	21.28	26.89	57	279.0	1,700	31,700	Pumping	89,602	10	Pond 1
12/19/2024	1:30 PM	8.57	0.522	7.31	21.36	6.14	47	279.0	1,420	33,120	Pumping	89,744	10	Pond 1

Table 3-3  
Explorer Well Isolated Aquifer Zone Development  
Zone 3

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
12/19/2024	2:01 PM	8.30	0.591	6.17	21.68	6.01	72	279.5	2,170	35,290	Pumping	89,961	10	Pond 1
12/19/2024	3:02 PM	8.27	0.522	9.91	21.52	6.19	53	279.0	3,270	38,560	Pumping	90,288	10	Pond 1
12/19/2024	4:01 PM	8.37	0.523	7.58	21.93	6.13	54	281.0	3,270	41,830	Pumping	90,615	10	Pond 1
12/19/2024	5:03 PM	8.23	0.621	9.96	20.93	6.16	53	281.0	3,280	45,110	Pumping	90,943	10	Pond 1
12/19/2024	6:01 PM	8.14	0.520	6.97	20.25	6.14	52	281.0	3,230	48,340	Pumping	91,266	10	Pond 1
12/19/2024	6:30 PM	--	--	--	--	--	--	--	--	--	--	--	--	Pond 1
12/19/2024	6:33 PM	8.17	0.520	7.09	19.82	6.22	60	281.0	1,930	50,270	Pumping	91,459	10	Pond 1

**Notes:**

- = no data listed
- > = greater than
- Units:
- C° = Celsius
- ft-btoc = feet below top of casing
- gal = gallons
- gpm = gallons per minute
- mg/L= milligrams per Liter
- mS/cm
- NTU = Nephelometric turbidity unit

Table 3-4  
Explorer Well Isolated Aquifer Zone Development  
Zone 2A

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
2/2/2025	4:30 AM	--	--	--	--	--	--	--	--	--	Airlifting	--	--	Tanks
2/2/2025	6:30 AM	--	--	174.00	--	--	100	--	--	--	Airlifting	--	--	Tanks
2/2/2025	2:30 PM	--	--	--	--	--	56	--	--	--	Airlifting	--	--	Tanks
2/2/2025	3:09 PM	--	--	--	--	--	72	--	--	--	Airlifting	--	--	Tanks
2/2/2025	3:17 PM	--	--	>1,000	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	3:35 PM	--	--	>1,000	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	4:00 PM	--	--	382.00	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	4:30 PM	--	--	218.00	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	5:00 PM	--	--	190.00	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	5:30 PM	--	--	167.00	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	5:48 PM	--	--	--	--	--	81	--	--	--	Airlifting	--	--	Tanks
2/2/2025	9:18 PM	--	--	--	--	--	--	--	--	--	Airlifting	--	--	Tanks
2/3/2025	3:15 PM	--	--	--	--	--	--	190.0	--	--	Static	91,468	10	Pond 1
2/3/2025	3:34 AM	--	--	259.00	--	--	93	218.0	1,770	1,770	Pumping	91,645	10	Pond 1
2/3/2025	4:02 PM	6.31	0.474	122.00	23.12	3.03	41	218.5	1,150	2,920	Pumping	91,760	10	Pond 1
2/3/2025	4:23 PM	6.86	0.319	99.00	21.71	4.40	75	218.5	1,580	4,500	Pumping	91,918	10	Pond 1

Table 3-4  
Explorer Well Isolated Aquifer Zone Development  
Zone 2A

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
2/3/2025	5:00 PM	6.86	0.489	75.80	21.55	3.75	53	218.0	1,950	6,450	Pumping	92,113	10	Pond 1
2/3/2025	6:03 PM	7.26	0.314	47.50	20.29	3.40	59	217.0	3,720	10,170	Pumping	92,485	10	Pond 1
2/3/2025	7:04 PM	7.32	0.311	29.20	19.33	3.32	60	218.5	3,640	13,810	Pumping	92,849	10	Pond 1
2/3/2025	8:02 PM	7.36	0.312	17.60	18.60	3.29	62	218.5	3,580	17,390	Pumping	93,207	10	Pond 1
2/3/2025	9:01 PM	7.56	0.310	12.10	18.92	8.22	61	218.5	3,590	20,980	Pumping	93,566	10	Pond 1
2/3/2025	9:23 PM	--	--	--	--	--	--	--	--	--	Pumping	--	10	Pond 1
2/3/2025	10:00 PM	5.48	0.613	12.20	18.07	5.13	79	218.5	4,660	25,640	Pumping	94,032	10	Pond 1
2/3/2025	11:00 PM	6.06	0.321	9.50	17.73	4.00	44	218.5	2,640	28,280	Pumping	94,296	10	Pond 1
2/3/2025	9:00 PM	4.80	0.298	8.00	20.41	--	70	218.5	--	--	Pumping		10	Pond 1
2/3/2025	10:00 PM	4.68	0.294	6.00	20.31	--	70	218.5	--	--	Pumping		10	Pond 1
2/3/2025	11:00 PM	--	--	--	--	--	70	218.5	--	--	Pumping		10	Pond 1
2/4/2025	12:00 AM	6.68	0.286	8.90	16.54	4.47	59	218.5	3,540	31,820	Pumping	94,650	10	Pond 1
2/4/2025	1:00 AM	7.27	0.215	6.00	15.28	4.23	61	218.0	3,630	35,450	Pumping	95,013	10	Pond 1
2/4/2025	2:00 AM	7.53	0.216	13.70	14.34	4.68	61	218.0	3,630	39,080	Pumping	95,376	10	Pond 1

Table 3-4  
Explorer Well Isolated Aquifer Zone Development  
Zone 2A

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
2/4/2025	2:15 AM	6.97	0.217	7.40	14.60	5.86	--	218.0	--	--	Pumping		10	Pond 1
2/4/2025	2:55 AM	7.14	0.315	9.80	14.92	11.15	--	218.0	--	--	Pumping		10	Pond 1
2/4/2025	3:05 AM	7.50	0.318	20.20	16.72	2.53	65	218.0	3,890	42,970	Pumping	95,765	10	Pond 1

**Notes:**

-- = no data listed

> = greater than

Units:

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mS/cm

NTU = Nephelometric turbidity unit

Table 3-5  
Explorer Well Isolated Aquifer Zone Development  
Zone 1A

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
2/5/2025	2:30 AM	7.34	0.312	102.00	11.26	19.64	--	--	--	--	Airlifting	--	--	Tanks
2/5/2025	3:30 AM	7.25	0.312	101.00	13.12	12.26	--	--	--	--	Airlifting	--	--	Tanks
2/5/2025	4:00 AM	--	--	26.00	-	-	-	-	-	-	Airlifting	--	--	Tanks
2/5/2025	7:30 AM	--	--	--	--	--	70	204.0	--	--	Static	95,798	10	Pond 1
2/5/2025	8:00 AM	7.81	0.538	64.00	16.58	6.28	66	204.0	1,980	1,980	Pumping	95,996	10	Pond 1
2/5/2025	8:30 AM	7.87	0.555	56.20	16.56	7.38	53	204.0	1,590	3,570	Pumping	96,155	10	Pond 1
2/5/2025	9:30 AM	7.91	0.564	0.00	16.78	9.59	58	194.0	3,470	7,040	Pumping	96,502	10	Pond 1
2/5/2025	10:30 AM	7.72	0.546	0.00	17.67	7.53	62	192.0	3,710	10,750	Pumping	96,873	10	Pond 1
2/5/2025	11:30 AM	7.99	0.542	5.00	17.62	9.02	61	191.0	3,680	14,430	Pumping	97,241	10	Pond 1
2/5/2025	12:30 PM	7.54	0.540	1.60	18.03	10.25	--	192.0	--	--	Pumping	--	--	Pond 1
2/5/2025	1:30 PM	7.95	0.547	1.00	18.60	11.55	61	191.0	7,290	21,720	Pumping	97,970	10	Pond 1
2/5/2025	2:30 PM	7.93	0.531	0.00	18.76	10.53	62	191.0	3,690	25,410	Pumping	98,339	10	Pond 1

Table 3-5  
Explorer Well Isolated Aquifer Zone Development  
Zone 1A

Measurement Time		Water Quality					Development Method					Totalizer		Discharge Location
Date	Time	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Water Removed (gal)	Total Water Removed (gal)	Airlift / Pumping	Reading (gal)	Multiplier	Tanks/ Pond 1
2/5/2025	3:30 PM	7.92	0.529	0.00	18.79	9.98	61	191.0	3,650	29,060	Pumping	98,704	10	Pond 1
2/5/2025	4:06 PM	7.84	0.519	8.00	18.71	10.31	55	191.0	1,990.00	31,050	Pumping	98,903	10	Pond 1

**Notes:**

-- = no data listed

> = greater than

Units:

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mS/cm

NTU = Nephelometric turbidity unit

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
Anions, Ion Chromatography, General Chemistry	Chloride	300.0	250.0 <sup>2</sup>	mg/L	8.8	14	7.3	230	18	18
	Nitrate as N	300.0	10.0 <sup>1</sup>	mg/L	0.10	1.2	0.56	18	1.3	1.3
	Nitrite as N	300.0	1.0 <sup>1</sup>	mg/L	<0.043	<0.091	<0.091	<0.91	<0.091	<0.091
	Sulfate	300.0	250.0 <sup>2</sup>	mg/L	17	16	14	280 F1	34	34
	Perchlorate	314.0 LL	6.0 <sup>1</sup>	µg/L	<0.39	1.6	1.7	7.7	4.6	4.7
	Mercury	SW846 7470A	0.002 <sup>1</sup>	mg/L	<0.000124	<0.000124	<0.000124 *1	<0.000124	<0.000124	<0.000124
	Alkalinity, Total (As CaCO3)	SM 2320B	---	mg/L	120	161	126	181 *1	200	200
	Bicarbonate (as CaCO3)	SM 2320B	---	mg/L	117	161	126	181	200	200
	Calcium hardness as calcium carbonate, Total Recoverable	SM 2320B	---	mg/L	47.6	53.8	49.1	118	136	138
	Carbonate (as CaCO3)	SM 2320B	---	mg/L	2.19 J	<2.18	<2.18	<2.18	<2.18	<2.18
	Hardness as calcium carbonate, Total Recoverable	SM 2340B	---	mg/L	84.8	76.0	71.0	169	194	196
	Hydroxide (as CaCO3)	SM 2340B	---	mg/L	<2.18	<2.18	<2.18	<2.18	<2.18	<2.18
	Magnesium hardness as calcium carbonate, Total Recoverable	SM 2340B	---	mg/L	37.2	22.3	21.9	50.9	58.0	58.4
	Specific Conductance	SM 2510B	900.0 <sup>2</sup>	µg/cm	311	392	304	479	514	514
	Total Dissolved Solids	SM 2540C	500.0 <sup>2</sup>	mg/L	316	225	179	288	265	301
	pH	SM 4500 H+ B	---	S.U.	8.4 HF	8.3 HF	8.2 HF	8.1 HF	7.9 HF	8.0 HF
MBAS	SM 5540C	0.5 <sup>2</sup>	mg/L	<0.0520 F1	<0.0520	<0.0520	<0.0520	<0.0520	<0.0520	
Metals	Antimony, Dissolved	200.7 Rev 4.4	0.006 <sup>1</sup>	mg/L	<0.0147 H F2 F1 ^1+	---	---	---	---	---
	Antimony, Total Recoverable	200.7 Rev 4.4	0.006 <sup>1</sup>	mg/L	<0.0147 ^1+	<0.0147 ^1+	<0.0147	<0.0147	<0.0147	<0.0147
	Arsenic, Dissolved	200.7 Rev 4.4	0.010 <sup>1</sup>	mg/L	0.0229 J H	---	---	---	---	---
	Arsenic, Total Recoverable	200.7 Rev 4.4	0.010 <sup>1</sup>	mg/L	0.0333 J	<0.00965	<0.00965	<0.00965	<0.00965	<0.00965

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
Metals	Barium, Dissolved	200.7 Rev 4.4	1.0 <sup>1</sup>	mg/L	<b>0.0395 H</b>	---	---	---	---	---
	Barium, Total Recoverable	200.7 Rev 4.4	1.0 <sup>1</sup>	mg/L	<b>0.514</b>	<b>0.0301</b>	<b>0.0363</b>	<b>0.0495</b>	<b>0.0562</b>	<b>0.0561</b>
	Beryllium, Dissolved	200.7 Rev 4.4	0.004 <sup>1</sup>	mg/L	<0.000660 H	---	---	---	---	---
	Beryllium, Total Recoverable	200.7 Rev 4.4	0.004 <sup>1</sup>	mg/L	<b>0.00170 J</b>	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660
	Cadmium, Dissolved	200.7 Rev 4.4	0.005 <sup>1</sup>	mg/L	<0.000450 H F2 F1	---	---	---	---	---
	Cadmium, Total Recoverable	200.7 Rev 4.4	0.005 <sup>1</sup>	mg/L	<0.000450	<0.000450	<0.000450	<0.000450	<0.000450	<0.000450
	Calcium, Dissolved	200.7 Rev 4.4	---	mg/L	<b>6.19 H</b>	---	---	---	---	---
	Calcium, Total Recoverable	200.7 Rev 4.4	---	mg/L	<b>19.1</b>	<b>21.5</b>	<b>19.7</b>	<b>47.4</b>	<b>54.5</b>	<b>55.1</b>
	Chromium, Dissolved	200.7 Rev 4.4	0.05 <sup>1</sup>	mg/L	<0.00300 H F2 F1	---	---	---	---	---
	Chromium, Total Recoverable	200.7 Rev 4.4	0.05 <sup>1</sup>	mg/L	<b>0.0156 J</b>	0.00410 J	<0.00300	<0.00300	0.00310 J	<0.00300
	Cobalt, Dissolved	200.7 Rev 4.4	---	mg/L	<0.00125 H F2 F1	---	---	---	---	---
	Cobalt, Total Recoverable	200.7 Rev 4.4	---	mg/L	<b>0.0104 J</b>	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125
	Copper, Dissolved	200.7 Rev 4.4	1.0 <sup>2</sup>	mg/L	<0.00159 H	---	---	---	---	---
	Copper, Total Recoverable	200.7 Rev 4.4	1.0 <sup>2</sup>	mg/L	<b>0.0226 J</b>	<0.00159	0.00190 J	<0.00159	<0.00159	<0.00159
	Iron, Dissolved	200.7 Rev 4.4	0.3 <sup>2</sup>	mg/L	<b>0.114 J H</b>	---	---	---	---	---
	Iron, Total Recoverable	200.7 Rev 4.4	0.3 <sup>2</sup>	mg/L	<b>21.0</b>	<b>0.271 J</b>	<b>1.67</b>	<b>0.343 J F1</b>	<b>0.224 J</b>	<b>0.170 J</b>
	Lead, Dissolved	200.7 Rev 4.4	0.005 <sup>1</sup>	mg/L	<0.00598 H F2 F1	---	---	---	---	---
	Lead, Total Recoverable	200.7 Rev 4.4	0.005 <sup>1</sup>	mg/L	<b>0.0267 J</b>	<0.00598	<0.00598	<0.00598	<0.00598	<0.00598
	Magnesium, Dissolved	200.7 Rev 4.4	---	mg/L	<b>1.37 H</b>	---	---	---	---	---
	Magnesium, Total Recoverable	200.7 Rev 4.4	---	mg/L	<b>9.03</b>	<b>5.41</b>	<b>5.32</b>	<b>12.4</b>	<b>14.1</b>	<b>14.2</b>
Manganese, Dissolved	200.7 Rev 4.4	0.05 <sup>2</sup>	mg/L	<b>0.0172 J H</b>	---	---	---	---	---	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
Metals	Manganese, Total Recoverable	200.7 Rev 4.4	0.05 <sup>2</sup>	mg/L	0.559 B	0.0140 J B	0.0515	0.0224 J	0.0445 J	0.0431 J
	Molybdenum, Dissolved	200.7 Rev 4.4	---	mg/L	0.0146 J H F2 F1	---	---	---	---	---
	Molybdenum, Total Recoverable	200.7 Rev 4.4	---	mg/L	0.00640 J	0.00850 J	0.0108 J	0.00830 J	0.0118 J	0.0100 J
	Nickel, Dissolved	200.7 Rev 4.4	0.1 <sup>1</sup>	mg/L	<0.00146 H F2	---	---	---	---	---
	Nickel, Total Recoverable	200.7 Rev 4.4	0.1 <sup>1</sup>	mg/L	0.00950 J B	<0.00146	<0.00146	<0.00146	<0.00146	<0.00146
	Selenium, Dissolved	200.7 Rev 4.4	0.05 <sup>1</sup>	mg/L	<0.0118 H F1	---	---	---	---	---
	Selenium, Total Recoverable	200.7 Rev 4.4	0.05 <sup>1</sup>	mg/L	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118
	Silver, Dissolved	200.7 Rev 4.4	0.1 <sup>2</sup>	mg/L	<0.00340 H F1	---	---	---	---	---
	Silver, Total Recoverable	200.7 Rev 4.4	0.1 <sup>2</sup>	mg/L	<0.00340	<0.00340	<0.00340	<0.00340	<0.00340	<0.00340
	Sodium, Dissolved	200.7 Rev 4.4	---	mg/L	61.0 H	---	---	---	---	---
	Sodium, Total Recoverable	200.7 Rev 4.4	---	mg/L	64.0	54.3 B	41.6 B	32.7 B	30.0	30.1
	Thallium, Dissolved	200.7 Rev 4.4	0.002 <sup>1</sup>	mg/L	<0.00863 H F2 F1	---	---	---	---	---
	Thallium, Total Recoverable	200.7 Rev 4.4	0.002 <sup>1</sup>	mg/L	<0.00863	<0.00863	<0.00863	<0.00863	<0.00863	<0.00863
	Vanadium, Dissolved	200.7 Rev 4.4	---	mg/L	0.0152 H	---	---	---	---	---
	Vanadium, Total Recoverable	200.7 Rev 4.4	---	mg/L	0.0548	0.00990 J	0.0132	0.00800 J	0.00890 J	0.00860 J
	Zinc, Dissolved	200.7 Rev 4.4	5.0 <sup>2</sup>	mg/L	<0.00460 H F2	---	---	---	---	---
Zinc, Total Recoverable	200.7 Rev 4.4	5.0 <sup>2</sup>	mg/L	0.0779 J	<0.00460	0.00770 J	<0.00460	<0.00460	<0.00460	
VOCs	1,1,1-Trichloroethane	624.1	---	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
	1,1,1-Trichloroethane	8260B	---	µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
	1,1,1,2-Tetrachloroethane	8260B	---	µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
	1,1,2,2-Tetrachloroethane	624.1	1 <sup>1</sup>	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
VOCs	1,1,2,2-Tetrachloroethane	8260B	1 <sup>1</sup>	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
	1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	1200 <sup>1</sup>	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	1,1,2-Trichloroethane	8260B	5 <sup>1</sup>	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	1,1-Dichloroethane	624.1	5 <sup>1</sup>	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
	1,1-Dichloroethane	8260B	5 <sup>1</sup>	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
	1,1-Dichloroethene	624.1	---	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
	1,1-Dichloroethene	8260B	---	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
	1,1-Dichloropropene	8260B	---	µg/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
	1,2,3-Trichlorobenzene	8260B	---	µg/L	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
	1,2,3-Trichloropropane	SRL 524M	5.0 <sup>1</sup>	ng/L	<1.7 *1	<1.7	<b>2.9 J</b>	<b>12</b>	<b>27</b>	<b>24</b>
	1,2,3-Trichloropropane	8260B	---	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
	1,2,4-Trichlorobenzene	8260B	---	µg/L	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71
	1,2,4-Trimethylbenzene	8260B	5 <sup>1</sup>	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
	1,2-Dibromo-3-Chloropropane	8260B	---	µg/L	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
	1,2-Dibromoethane	8260B	---	µg/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
	1,2-Dichlorobenzene	624.1	600 <sup>1</sup>	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	1,2-Dichlorobenzene	8260B	600 <sup>1</sup>	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
	1,2-Dichloroethane	624.1	0.5 <sup>1</sup>	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	1,2-Dichloroethane	8260B	0.5 <sup>1</sup>	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	1,2-Dichloropropane	624.1	5 <sup>1</sup>	µg/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
1,2-Dichloropropane	8260B	5 <sup>1</sup>	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
VOCs	1,3,5-Trimethylbenzene	8260B	---	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	1,3-Dichlorobenzene	624.1	---	µg/L	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	1,3-Dichlorobenzene	8260B	---	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
	1,3-Dichloropropane	8260B	---	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
	1,4-Dichlorobenzene	624.1	5 <sup>1</sup>	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
	1,4-Dichlorobenzene	8260B	5 <sup>1</sup>	µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
	2,2-Dichloropropane	8260B	---	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	2-Butanone (MEK)	8260B	---	µg/L	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
	2-Chlorotoluene	8260B	---	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
	2-Hexanone	8260B	---	µg/L	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
	4-Chlorotoluene	8260B	---	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
	4-Methyl-2-pentanone (MIBK)	8260B	---	µg/L	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2
	Acetone	8260B	---	µg/L	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4
	Benzene	624.1	1 <sup>1</sup>	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Benzene	8260B	1 <sup>1</sup>	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
	Bromobenzene	8260B	---	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
	Bromochloromethane	8260B	---	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
	Bromodichloromethane	624.1	---	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
	Bromodichloromethane	8260B	---	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
	Bromoform	624.1	---	µg/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
Bromoform	8260B	---	µg/L	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
VOCs	Bromomethane	624.1	---	µg/L	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
	Bromomethane	8260B	---	µg/L	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4
	Carbon disulfide	8260B	---	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
	Carbon tetrachloride	624.1	0.5 <sup>1</sup>	µg/L	<0.45	<0.45	<b>0.62</b>	<b>2.5</b>	<b>5.1</b>	<b>5.1</b>
	Carbon tetrachloride	8260B	0.5 <sup>1</sup>	µg/L	<0.37	<0.37	<b>0.54</b>	<b>2.5</b>	<b>5.2</b>	<b>5.2</b>
	Chlorobenzene	624.1	---	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Chlorobenzene	8260B	---	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
	Chloroethane	624.1	---	µg/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
	Chloroethane	8260B	---	µg/L	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
	Chloroform	624.1	0.4 <sup>3</sup>	µg/L	<0.26	<0.26	<0.26	<b>0.51 J</b>	<b>0.97 J</b>	<b>0.96 J</b>
	Chloroform	8260B	0.4 <sup>3</sup>	µg/L	<0.32	<0.32	<0.32	<b>0.51 J</b>	<b>0.97 J</b>	<b>0.96 J</b>
	Chloromethane	624.1	---	µg/L	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65
	Chloromethane	8260B	---	µg/L	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
	cis-1,2-Dichloroethene	624.1	---	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	cis-1,2-Dichloroethene	8260B	---	µg/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
	cis-1,3-Dichloropropene	624.1	---	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	cis-1,3-Dichloropropene	8260B	---	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
	Dibromochloromethane	624.1	---	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	Dibromochloromethane	8260B	---	µg/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
	Dibromomethane	8260B	---	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dichlorodifluoromethane	624.1	---	µg/L	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
VOCs	Dichlorodifluoromethane	8260B	---	µg/L	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
	Ethylbenzene	624.1	300 <sup>1</sup>	µg/L	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	Ethylbenzene	8260B	300 <sup>1</sup>	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Isopropylbenzene	8260B	---	µg/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
	m,p-Xylene	624.1	---	µg/L	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
	m,p-Xylene	8260B	---	µg/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
	Methylene Chloride	624.1	---	µg/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
	Methylene Chloride	8260B	---	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	Methyl-t-Butyl Ether (MTBE)	624.1	13.0 <sup>1</sup>	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
	Methyl-t-Butyl Ether (MTBE)	8260B	13.0 <sup>1</sup>	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Naphthalene	8260B	---	µg/L	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	n-Butylbenzene	8260B	---	µg/L	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
	N-Propylbenzene	8260B	---	µg/L	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47
	o-Xylene	624.1	---	µg/L	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
	o-Xylene	8260B	---	µg/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
	p-Isopropyltoluene	8260B	---	µg/L	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47
	sec-Butylbenzene	8260B	---	µg/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
	Styrene	8260B	100 <sup>1</sup>	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
	tert-Butylbenzene	8260B	---	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
	Tetrachloroethene	624.1	---	µg/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Tetrachloroethene	8260B	---	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
VOCs	Toluene	624.1	150 <sup>1</sup>	µg/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
	Toluene	8260B	150 <sup>1</sup>	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	trans-1,2-Dichloroethene	624.1	---	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	trans-1,2-Dichloroethene	8260B	---	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
	trans-1,3-Dichloropropene	624.1	---	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
	trans-1,3-Dichloropropene	8260B	---	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
	Trichloroethene	624.1	---	µg/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
	Trichloroethene	8260B	---	µg/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
	Trichlorofluoromethane	624.1	150 <sup>1</sup>	µg/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
	Trichlorofluoromethane	8260B	150 <sup>1</sup>	µg/L	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
	Vinyl acetate	8260B	---	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Vinyl chloride	624.1	0.5 <sup>1</sup>	µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
	Vinyl chloride	8260B	0.5 <sup>1</sup>	µg/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
	Xylenes, Total	8260B	1750 <sup>1</sup>	µg/L	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
PFAS	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1633	---	ng/L	<0.82	<0.75	<0.81	<0.77	<0.78	<0.75
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1633	---	ng/L	<0.82	<0.75	<0.81	<0.77	<0.78	<0.75
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1633	---	ng/L	<0.82	<0.75	0.87 J	<0.77	1.1 J	0.82 J
	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1633	---	ng/L	<2.1	<1.9	<2.0	<1.9	<1.9	<1.9
	3-Perfluoropentylpropanoic acid (5:3 FTCA)	1633	---	ng/L	<2.1	<1.9	<2.0	<1.9	<1.9	<1.9

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
PFAS	3-Perfluoropropylpropanoic acid (3:3 FTCA)	1633	---	ng/L	<0.82	<0.75	<0.81	<0.77	<0.78	<0.75
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1633	---	ng/L	<0.48	<0.43	<0.47	<0.45	<0.45	<0.43
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1633	---	ng/L	<0.32	<0.29	<0.32	<0.30	<0.30	<0.29
	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1633	---	ng/L	<2.1	<1.9	<2.0	<1.9	<1.9	<1.9
	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	N-methylperfluorooctane sulfonamide (NMeFOSA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1633	---	ng/L	<2.1	<1.9	<2.0	<1.9	<1.9	<1.9
	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1633	---	ng/L	<0.59 *1	<0.54 *1	<0.58	<0.55	<0.56	<0.54
	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluoro-3-methoxypropanoic acid (PFMPA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluoro-4-methoxybutanoic acid (PFMBA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorobutanesulfonic acid (PFBS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorobutanoic acid (PFBA)	1633	---	ng/L	<0.82	<0.75	<0.81	<0.77	<0.78	<0.75
	Perfluorodecanesulfonic acid (PFDS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorodecanoic acid (PFDA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorododecanesulfonic acid (PFDoS)	1633	---	ng/L	<0.44	<0.40	<0.43	<0.41	<0.41	<0.40
	Perfluorododecanoic acid (PFDoA)	1633	---	ng/L	<0.45	<0.41	<0.45	<0.42	<0.43	<0.41
Perfluoroheptanesulfonic acid (PFHpS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37	

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards <sup>2, 3, 4, 5, 6</sup>	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)
PFAS	Perfluoroheptanoic acid (PFHpA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorohexanesulfonic acid (PFHxS)	1633	10.0 <sup>4</sup>	ng/L	<0.41	<0.37	<0.41	<0.39	<b>0.40 J</b>	<0.37
	Perfluorohexanoic acid (PFHxA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<b>0.43 J</b>	<b>0.45 J</b>
	Perfluorononanesulfonic acid (PFNS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorononanoic acid (PFNA)	1633	10.0 <sup>4</sup>	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorooctanesulfonamide (PFOSA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluorooctanesulfonic acid (PFOS)	1633	1.0 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	<0.41	<0.37	<0.41	<0.39	<b>0.72 J I</b>	<b>0.62 J I</b>
	Perfluorooctanoic acid (PFOA)	1633	0.007 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	<0.41	<0.37	<0.41	<b>0.53 J</b>	<b>0.89 J</b>	<b>0.81 J</b>
	Perfluoropentanesulfonic acid (PFPeS)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37
	Perfluoropentanoic acid (PFPeA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<b>0.75 J</b>	<b>0.63 J</b>
	Perfluorotetradecanoic acid (PFTeDA)	1633	---	ng/L	<0.67	<0.61	<0.66	<0.62	<0.63	<0.61
	Perfluorotridecanoic acid (PFTrDA)	1633	---	ng/L	<0.48	<0.43	<0.47	<0.45	<0.45	<0.43
	Perfluoroundecanoic acid (PFUnA)	1633	---	ng/L	<0.41	<0.37	<0.41	<0.39	<0.39	<0.37

**Notes:**

<sup>1</sup> United States Environmental Protection Agency (U.S. EPA) Analytical Methods or Standard Methods for the Examination of Water and Wastewater. For detailed information, see the Laboratory Report in Appendix F.

**Bolded** value indicates detection of the analyte above the Method Detection Limit (MDL)

Highlighted cell indicates value is above the following regulatory limits:

<sup>2</sup> California Primary Maximum Contaminant Level (CA Primary MCL), updated November, 2024, unless otherwise noted

<sup>3</sup> California Secondary Maximum Contaminant Level (CA SMCL), updated November, 2024, unless otherwise noted

<sup>4</sup> California Public Health Goal (CA PHG), updated November, 2024, unless otherwise noted

<sup>5</sup> U.S. EPA Maximum Contaminant Level (U.S. EPA MCL), updated November, 2024, unless otherwise noted

<sup>6</sup> U.S. EPA Secondary Maximum Contaminant Level (U.S. EPA SMCL), updated November, 2024, unless otherwise noted

Table 4  
Explorer Well Summary of Isolated Aquifer Zone Analytical Results

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Results					
					Zone 1 622 642 (ft bgs)	Zone 2 557 577 (ft bgs)	Zone 2A 482 502 (ft bgs)	Zone 3 432 452 (ft bgs)	Zone 1A 371 391 (ft bgs)	Zone 1B - Duplicate 371 391 (ft bgs)

< = Less than MDL

--- = Drinking Water Standard not listed for this analyte

PFAS = Perfluoroalkyl and Polyfluoroalkyl Substances

VOCs = Volatile Organic Compounds

**Qualifiers:**

\*1 = LCS/LCSD RPD exceeds control limits.

^1+ = Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

B = Compound was found in the blank and sample.

F1 = MS and/or MSD recovery exceeds control limits.

F2 = MS/MSD RPD exceeds control limits

H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

HF = Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

**Units:**

µg/cm = microgram per centimeter

µg/L = microgram per Liter

mg/L = milligrams per liter

ng/L = nanogram per Liter

SU = Standard Units

**Table 5**  
**Explorer Well - Construction Information**

Construction Information											Annular Materials								
Depth (ft bgs)	Conductor Casing	Well Casing					Gravel Feed Tubes		Sounding Tube		Cement Grout	Upper Seal*	Upper Transition Sand**	Upper Filer Pack	Middle Bentonite Seal*	Lower Transition Sand**	Lower Filer Pack	Lower Bentonite Seal*	Native Backfill
		Upper Blank Casing	Upper Screen	Middle Blank Casing	Lower Screen	Lower Blank Casing	Shallow	Deep	Sounding Tube	Sounding Tube Entry Port									
Depth (ft bgs)	-0.5 - 96	-5 - 350	350 - 390	390 - 440	440 - 650	650 - 670	-5 - 343	-5 - 433	-5 - 345	345 - 347	0 - 333	333 - 338	338 - 340	340 - 400	400 - 428	430 - 428	430 - 670	670 - 680	680 - 690
Material	Mild Steel	Stainless Steel 304L					Stainless Steel 304L		Stainless Steel 304L		10.3 Sack	3/8 in Bentonite	Fine Sand	8x16	3/8 in Bentonite	Fine Sand	8x16	3/8 in Bentonite	Native backfill
Total Length (ft)	96.5	355	40	50	210	20	348	438	350	2	333	5	2	60	28	2	240	10	10
Wall Thickness (in)	1/2	5/16	5/16	5/16	5/16	5/16	1/4	1/4	1/4	1/4	--	--	--	--	--	--	--	--	--
Outer Diameter (in)	36.0	18.625	18.625	18.625	18.625	18.625	4.5	4.5	3.5	--	--	--	--	--	--	--	--	--	--

**Notes:**

- Drilling Method: Flooded Reverse
- Boring: Depth/Diameter: 0 - 96 ft bgs / 48 in
- Boring: Depth/Diameter: 96 - 443 ft bgs / 32 in
- Boring: Depth/Diameter: 443 - 680 ft bgs / 28 in
- Boring Depth/Diameter: 680 - 690 ft bgs / 17.75 in
- ft bgs: feet below ground surface
- in: inches
- \* HOLEPLUG® 3/8 in Graded Sodium Bentonite Chips
- \*\* 'QUIKRETE © Washed Plaster Sand

Table 6  
Explorer Well Swabbing and Airlifting Development

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/29/2025	10:00:00 AM	330 - 360	0	0	0	0	147	--	--	--	--	--	--	--	10	Tanks
3/29/2025	11:00:00 AM		01:00:00	--	--	--	--	--	--	123	--	--	--	--	10	Tanks
3/29/2025	11:05:00 AM		00:05:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	11:10:00 AM		00:05:00	--	--	--	--	--	--	190	--	--	--	--	10	Tanks
3/29/2025	11:15:00 AM		00:05:00	--	--	--	--	--	--	114	--	--	--	--	10	Tanks
3/29/2025	11:20:00 AM		00:05:00	--	--	--	--	--	--	70.4	--	--	--	--	10	Tanks
3/29/2025	11:30:00 AM		00:10:00	--	--	--	--	--	--	54.5	--	--	--	--	10	Tanks
3/29/2025	11:40:00 AM		00:10:00	--	--	--	--	--	--	43.5	--	--	--	--	10	Tanks
3/29/2025	11:45:00 AM	360 - 370	00:05:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	11:55:00 AM		00:10:00	--	--	--	--	--	--	74.9	--	--	--	--	10	Tanks
3/29/2025	12:00:00 PM		00:05:00	--	--	--	--	--	--	154	--	--	--	--	10	Tanks
3/29/2025	12:05:00 PM		00:05:00	--	--	--	--	--	--	96.2	--	--	--	--	10	Tanks
3/29/2025	12:10:00 PM		00:05:00	--	--	--	--	--	7.94	0.626	>1000	19.12	9.03	167.6	--	10
3/29/2025	12:20:00 PM	370 - 380	00:10:00	--	--	--	--	--	--	80	--	--	--	--	10	Tanks
3/29/2025	12:47:00 PM		00:27:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	12:55:00 PM		00:08:00	--	--	--	--	--	--	389	--	--	--	--	10	Tanks
3/29/2025	1:07:00 PM		00:12:00	--	--	--	--	--	--	538	--	--	--	--	10	Tanks
3/29/2025	1:20:00 PM		00:13:00	--	--	--	--	--	--	511	--	--	--	--	10	Tanks
3/29/2025	1:30:00 PM		00:10:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	1:37:00 PM		00:07:00	--	--	--	--	--	--	116	--	--	--	--	10	Tanks
3/29/2025	1:50:00 PM	380 - 390	00:13:00	--	--	--	--	--	--	186	--	--	--	--	10	Tanks
3/29/2025	1:55:00 PM		00:05:00	--	--	--	--	--	--	128	--	--	--	--	10	Tanks
3/29/2025	2:10:00 PM		00:15:00	--	--	--	--	--	--	83.5	--	--	--	--	10	Tanks

Table 6  
Explorer Well Swabbing and Airlifting Development

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/29/2025	2:30:00 PM	440 - 450	00:20:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	2:45:00 PM		00:15:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Tanks
3/29/2025	3:00:00 PM		00:15:00	--	--	--	--	--	--	625	--	--	--	--	10	Tanks
3/29/2025	3:20:00 PM		00:20:00	--	--	--	--	--	--	567	--	--	--	--	10	Tanks
3/29/2025	3:40:00 PM	450 - 460	00:20:00	--	--	--	--	--	--	359	--	--	--	--	10	Tanks
3/29/2025	3:55:00 PM		00:15:00	--	--	--	--	--	--	280	--	--	--	98,918	10	Pond 1
3/29/2025	4:25:00 PM	460 - 470	00:30:00	--	--	--	--	--	--	255	--	--	--	--	10	Pond 1
3/29/2025	4:40:00 PM		00:15:00	--	--	--	--	--	--	136	--	--	--	--	10	Pond 1
3/29/2025	4:45:00 PM	470 - 480	00:05:00	--	--	--	--	--	--	932	--	--	--	--	10	Pond 1
3/29/2025	5:00:00 PM		00:15:00	--	--	--	--	--	--	718	--	--	--	--	10	Pond 1
3/29/2025	5:15:00 PM		00:15:00	--	--	--	--	--	--	703	--	--	--	--	10	Pond 1
3/29/2025	5:30:00 PM		00:15:00	--	--	--	--	--	--	450	--	--	--	--	10	Pond 1
3/29/2025	5:50:00 PM	480 - 490	00:20:00	--	--	--	--	--	--	367	--	--	--	--	10	Pond 1
3/29/2025	6:05:00 PM		00:15:00	--	--	--	--	--	--	278	--	--	--	--	10	Pond 1
3/29/2025	6:20:00 PM		00:15:00	--	--	--	--	--	--	202	--	--	--	--	10	Pond 1
3/29/2025	6:50:00 PM	490 - 500	00:30:00	--	--	--	--	--	--	269	--	--	--	--	10	Pond 1
3/29/2025	7:05:00 PM		00:15:00	--	--	--	--	--	--	458	--	--	--	--	10	Pond 1
3/29/2025	7:20:00 PM		00:15:00	--	--	--	--	--	--	412	--	--	--	--	10	Pond 1
3/29/2025	7:35:00 PM		00:15:00	--	--	--	--	--	--	364	--	--	--	--	10	Pond 1
3/29/2025	7:55:00 PM	500 - 510	00:20:00	--	--	--	--	--	--	>1000	--	--	--	--	10	Pond 1
3/29/2025	8:10:00 PM		00:15:00	--	--	--	--	--	--	561	--	--	--	--	10	Pond 1
3/29/2025	8:30:00 PM		00:20:00	--	--	--	--	--	--	581	--	--	--	--	10	Pond 1
3/29/2025	8:45:00 PM		00:15:00	--	--	--	--	--	--	507	--	--	--	--	10	Pond 1

Table 6  
Explorer Well Swabbing and Airlifting Development

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/29/2025	9:05:00 PM	510 - 520	00:20:00	--	--	--	--	--	--	305	--	--	--	--	10	Pond 1
3/29/2025	9:20:00 PM		00:15:00	--	--	--	--	--	--	102	--	--	--	--	10	Pond 1
3/29/2025	9:55:00 PM	520 - 530	00:35:00	--	--	--	--	--	--	664	--	--	--	--	10	Pond 1
3/29/2025	10:10:00 PM		00:15:00	--	--	--	--	--	--	456	--	--	--	--	10	Pond 1
3/29/2025	10:30:00 PM		00:20:00	72,508	72,508	163	--	--	--	--	--	--	--	106,169	10	Pond 1
3/29/2025	10:40:00 PM		00:10:00	--	--	--	--	--	--	499	--	--	--	--	10	Pond 1
3/29/2025	10:55:00 PM	530 - 540	00:15:00	3,680	76,188	147	--	--	--	449	--	--	--	106,537	10	Pond 1
3/29/2025	11:10:00 PM		00:15:00	2,770	78,958	185	--	--	--	846	--	--	--	106,814	10	Pond 1
3/29/2025	11:35:00 PM		00:25:00	5,190	84,148	208	--	--	--	481	--	--	--	107,333	10	Pond 1
3/29/2025	11:54:00 PM		00:19:00	3,480	87,628	183	--	--	--	230	--	--	--	107,681	10	Pond 1
3/30/2025	12:13:00 AM		00:19:00	3,690	91,318	194	--	--	--	186	--	--	--	108,050	10	Pond 1
3/30/2025	12:32:00 AM	540 - 550	00:19:00	5,300	96,618	279	--	--	--	187	--	--	--	108,580	10	Pond 1
3/30/2025	12:51:00 AM		00:19:00	2,700	99,318	142	--	--	--	167	--	--	--	108,850	10	Pond 1
3/30/2025	1:07:00 AM		00:16:00	3,170	102,488	198	--	--	--	116	--	--	--	109,167	10	Pond 1
3/30/2025	1:35:00 AM	560 - 560	00:28:00	3,430	105,918	123	--	--	--	223	--	--	--	109,510	10	Pond 1
3/30/2025	1:50:00 AM		00:15:00	6,190	112,108	413	--	--	--	217	--	--	--	110,129	10	Pond 1
3/30/2025	2:05:00 AM	560 - 570	00:15:00	3,790	115,898	253	--	--	--	412	--	--	--	110,508	10	Pond 1
3/30/2025	2:28:00 AM		00:23:00	--	--	--	--	--	--	309	--	--	--	--	10	Pond 1
3/30/2025	2:45:00 AM		00:17:00	6,640	122,538	443	--	--	--	>1000	--	--	--	111,172	10	Pond 1
3/30/2025	3:00:00 AM		00:15:00	--	--	--	--	--	--	234	--	--	--	--	10	Pond 1
3/30/2025	3:15:00 AM		00:15:00	3,170	125,708	113	--	--	--	297	--	--	--	111,489	10	Pond 1
3/30/2025	3:45:00 AM	570 - 580	00:30:00	2,290	127,998	153	--	--	--	384	--	--	--	111,718	10	Pond 1
3/30/2025	4:05:00 AM		00:20:00	4,540	132,538	303	--	--	--	168	--	--	--	112,172	10	Pond 1

Table 6  
Explorer Well Swabbing and Airlifting Development

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/30/2025	4:25:00 AM		00:20:00	3,130	135,668	112	--	--	--	133	--	--	--	112,485	10	Pond 1
3/30/2025	5:00:00 AM	580 - 590	00:35:00	2,810	138,478	187	--	--	--	51.9	--	--	--	112,766	10	Pond 1
3/30/2025	5:15:00 AM		00:15:00	4,440	142,918	296	--	--	--	69.8	--	--	--	113,210	10	Pond 1
3/30/2025	5:30:00 AM	590 - 600	00:15:00	2,710	145,628	97	--	--	--	383	--	--	--	113,481	10	Pond 1
3/30/2025	5:45:00 AM		00:15:00	4,730	150,358	169	--	--	--	307	--	--	--	113,954	10	Pond 1
3/30/2025	6:25:00 AM	600 - 610	00:40:00	3,320	153,678	83	--	--	--	207	--	--	--	114,286	10	Pond 1
3/30/2025	6:40:00 AM		00:15:00	8,570	162,248	571	--	--	--	212	--	--	--	115,143	10	Pond 1
3/30/2025	7:15:00 AM	610 - 620	00:35:00	16,650	178,898	476	--	--	--	257	--	--	--	116,808	10	Pond 1
3/30/2025	7:30:00 AM		00:15:00	--	--	--	--	--	--	175	--	--	--	--	10	Pond 1
3/30/2025	7:45:00 AM	620 - 630	00:15:00	--	--	--	--	--	--	266	--	--	--	--	10	Pond 1
3/30/2025	8:00:00 AM		00:15:00	--	--	--	--	--	--	379	--	--	--	--	10	Pond 1
3/31/2025	9:25:00 AM	648 - 650	01:25:00	13,680	192,578	182	--	8.29	0.541	174	18.37	4.44	94.30	118,176	10	Pond 1
3/31/2025	9:45:00 AM		00:20:00	3,530	196,108	177	--	8.28	0.503	59.7	17.98	4.34	84.70	118,529	10	Pond 1
3/31/2025	10:10:00 AM	640 - 648	00:25:00	4,340	200,448	174	--	8.21	0.483	489	18.28	2.59	84.90	118,963	10	Pond 1
3/31/2025	10:25:00 AM		00:15:00	2,640	203,088	176	--	8.25	0.474	94.2	17.92	2.52	85.00	119,227	10	Pond 1
3/31/2025	10:40:00 AM		00:15:00	2,650	205,738	177	--	8.25	0.472	81.1	18.30	2.57	85.70	119,492	10	Pond 1
3/31/2025	10:55:00 AM		00:15:00	2,630	208,368	175	--	8.23	0.476	81.5	18.31	2.09	86.80	119,755	10	Pond 1
3/31/2025	11:10:00 AM		00:15:00	2,640	211,008	176	--	8.24	0.467	86.4	18.58	1.99	87.60	120,019	10	Pond 1
3/31/2025	11:20:00 AM		00:10:00	1,730	212,738	173	--	8.26	0.477	661	18.76	2.13	83.50	120,192	10	Pond 1
3/31/2025	11:30:00 AM	630 - 640	00:10:00	1,860	214,598	186	--	8.25	0.471	78.8	18.60	2.90	87.90	120,378	10	Pond 1
3/31/2025	11:45:00 AM		00:15:00	2,910	217,508	194	--	8.29	0.467	43.5	18.70	2.35	86.70	120,669	10	Pond 1
3/31/2025	12:00:00 PM		00:15:00	2,930	220,438	195	--	8.26	0.469	37.8	18.43	2.96	88.60	120,962	10	Pond 1
3/31/2025	12:15:00 PM		00:15:00	2,930	223,368	195	--	8.29	0.450	31.9	18.64	2.46	81.20	121,255	10	Pond 1

Table 6  
Explorer Well Swabbing and Airlifting Development

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L) or (%)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/31/2025	12:30:00 PM		00:15:00	2,900	226,268	193	--	8.27	0.465	55.0	18.64	2.89	84.20	121,545	10	Pond 1
3/31/2025	12:35:00 PM	620 - 630	00:05:00	1,060	227,328	212	--	8.29	0.466	410.0	18.77	2.60	77.70	121,651	10	Pond 1
3/31/2025	12:45:00 PM		00:10:00	1,840	229,168	184	--	8.26	0.463	39.7	18.61	2.25	83.10	121,835	10	Pond 1
3/31/2025	1:00:00 PM		00:15:00	3,030	232,198	202	--	8.28	0.460	23.5	18.70	2.06	75.00	122,138	10	Pond 1
3/31/2025	1:15:00 PM		00:15:00	3,090	235,288	206	--	8.25	0.461	29.7	18.82	2.16	81.20	122,447	10	Pond 1
3/31/2025	1:30:00 PM		00:15:00	2,900	238,188	193	--	8.22	0.460	35.1	18.98	1.96	84.70	122,737	10	Pond 1
3/31/2025	1:50:00 PM		00:20:00	4,030	242,218	202	--	8.14	0.459	21.2	19.00	1.45	89.00	123,140	10	Pond 1
3/31/2025	2:10:00 PM		610 - 620	00:20:00	3,070	245,288	154	--	8.15	0.462	777.0	18.82	1.63	90.30	123,447	10
3/31/2025	2:25:00 PM	00:15:00		2,650	247,938	177	--	8.18	0.450	71.9	18.92	1.41	88.60	123,712	10	Pond 1
3/31/2025	2:40:00 PM	00:15:00		2,770	250,708	185	--	8.21	0.457	67.4	18.77	0.34	89.20	123,989	10	Pond 1
3/31/2025	2:55:00 PM	00:15:00		2,890	253,598	193	--	8.13	0.458	563.0	18.65	0.45	95.10	124,278	10	Pond 1
3/31/2025	3:10:00 PM	00:15:00		2,820	256,418	188	--	8.21	0.458	49.4	18.76	0.56	88.80	124,560	10	Pond 1
3/31/2025	3:25:00 PM	00:15:00		2,800	259,218	187	--	8.18	0.457	50.2	18.65	0.46	90.90	124,840	10	Pond 1
3/31/2025	3:30:00 PM	600 - 610	00:05:00	1,000	260,218	200	--	8.22	0.465	788.0	18.79	0.81	90.50	124,940	10	Pond 1
3/31/2025	3:40:00 PM		00:10:00	2,190	262,408	219	--	8.17	0.454	41.8	18.68	0.47	93.30	125,159	10	Pond 1
3/31/2025	3:55:00 PM		00:15:00	2,680	265,088	179	--	8.19	0.453	37.1	18.22	0.45	98.10	125,427	10	Pond 1
3/31/2025	4:15:00 PM		00:20:00	3,990	269,078	200	--	8.20	0.452	27.0	18.58	0.37	99.10	125,826	10	Pond 1
3/31/2025	4:30:00 PM		00:15:00	2,880	271,958	192	--	8.23	0.452	36.4	18.39	0.31	98.70	126,114	10	Pond 1
3/31/2025	4:45:00 PM		00:15:00	3,090	275,048	206	--	8.20	0.452	35.2	18.52	0.14	98.90	126,423	10	Pond 1
3/31/2025	4:50:00 PM	590 - 600	00:05:00	1,040	276,088	208	--	8.19	0.457	486.0	18.59	0.14	102.60	126,527	10	Pond 1
3/31/2025	5:05:00 PM		00:15:00	2,740	278,828	161	--	8.23	0.452	12.5	18.14	0.02	103.50	126,801	10	Pond 1
3/31/2025	5:20:00 PM		00:15:00	2,750	281,578	212	--	8.20	0.446	12.8	18.43	0.07	105.90	127,076	10	Pond 1
3/31/2025	5:35:00 PM		00:15:00	2,680	284,258	179	--	8.24	0.445	14.0	18.18	1.58	107.40	127,344	10	Pond 1

**Table 6**  
**Explorer Well Swabbing and Airlifting Development**

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L) or (%)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
3/31/2025	5:50:00 PM		00:15:00	2,850	287,108	190	--	8.20	0.448	17.1	18.11	5.92	108.60	127,629	10	Pond 1
3/31/2025	6:10:00 PM		00:20:00	3,570	290,678	179	--	8.26	0.446	10.9	18.19	2.92	107.00	127,986	10	Pond 1
3/31/2025	6:25:00 PM	580 - 590	00:15:00	2,580	293,258	172	--	8.23	0.445	872.0	18.34	2.43	106.80	128,244	10	Pond 1
3/31/2025	6:40:00 PM		00:15:00	2,080	295,338	139	--	8.22	0.451	41.9	16.97	6.72	117.70	128,452	10	Pond 1
3/31/2025	6:55:00 PM		00:15:00	3,230	298,568	215	--	8.27	0.435	27.5	17.21	15.69	117.40	128,775	10	Pond 1
3/31/2025	7:15:00 PM		00:20:00	2,210	300,778	111	--	8.24	0.439	32.3	16.75	16.41	117.20	128,996	10	Pond 1
3/31/2025	7:30:00 PM		00:15:00	3,520	304,298	352	--	8.25	0.450	34.7	17.73	36.54	117.30	129,348	10	Pond 1
3/31/2025	7:45:00 PM		00:15:00	3,210	307,508	642	--	8.24	0.446	34.0	17.67	35.91	116.20	129,669	10	Pond 1
3/31/2025	8:05:00 PM		00:20:00	3,010	310,518	86	--	8.23	0.455	37.8	17.10	36.88	115.50	129,970	10	Pond 1
3/31/2025	8:20:00 PM		00:15:00	3,880	314,398	259	--	8.23	0.450	98.0	17.50	38.97	114.00	130,358	10	Pond 1
3/31/2025	8:35:00 PM	570 - 580	00:15:00	2,760	317,158	184	--	8.23	0.435	36.6	17.31	44.29	115.80	130,634	10	Pond 1
3/31/2025	8:55:00 PM		00:20:00	3,330	320,488	167	--	8.24	0.435	38.3	17.43	44.28	116.00	130,967	10	Pond 1
3/31/2025	9:10:00 PM		00:15:00	3,790	324,278	253	--	8.26	0.440	39.5	17.61	57.20	114.20	131,346	10	Pond 1
3/31/2025	9:30:00 PM		00:20:00	3,130	327,408	157	--	8.25	0.439	32.4	17.36	58.99	114.00	131,659	10	Pond 1
3/31/2025	9:50:00 PM		00:20:00	5,190	332,598	260	--	8.28	0.442	34.7	16.67	2.22	121.10	132,178	10	Pond 1
3/31/2025	10:10:00 PM		560 - 570	00:20:00	2,160	334,758	108	--	8.27	0.441	18.3	16.75	2.80	115.70	132,394	10
3/31/2025	10:25:00 PM	00:15:00		3,560	338,318	237	--	8.25	0.440	23.3	17.28	4.70	118.30	132,750	10	Pond 1
3/31/2025	10:40:00 PM	00:15:00		2,780	341,098	185	--	8.25	0.442	27.5	17.22	3.86	116.90	133,028	10	Pond 1
3/31/2025	11:00:00 PM	00:20:00		2,730	343,828	137	--	8.26	0.441	27.7	17.02	3.00	113.90	133,301	10	Pond 1
3/31/2025	11:20:00 PM	550 - 560	00:20:00	4,410	348,238	221	--	8.24	0.444	61.1	16.39	3.06	113.40	133,742	10	Pond 1
3/31/2025	11:45:00 PM		00:25:00	2,500	350,738	100	--	8.26	0.443	29.9	15.96	3.80	112.20	133,992	10	Pond 1
4/1/2025	12:00:00 AM		00:15:00	2,580	353,318	172	--	8.26	0.446	36.6	17.27	5.24	112.80	134,250	10	Pond 1
4/1/2025	12:15:00 AM		00:15:00	2,800	356,118	187	--	8.25	0.445	35.4	17.09	11.26	115.30	134,530	10	Pond 1

**Table 6**  
**Explorer Well Swabbing and Airlifting Development**

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/1/2025	12:35:00 AM		00:20:00	2,820	358,938	141	--	8.23	0.446	40.0	16.95	17.06	113.90	134,812	10	Pond 1
4/1/2025	12:50:00 AM		00:15:00	2,950	361,888	105	--	8.23	0.449	33.6	16.73	37.72	115.10	135,107	10	Pond 1
4/1/2025	1:10:00 AM	540 - 550	00:20:00	3,900	365,788	195	--	8.24	0.446	48.7	16.87	34.94	113.20	135,497	10	Pond 1
4/1/2025	1:25:00 AM		00:15:00	3,700	369,488	247	--	8.27	0.439	44.6	16.93	36.87	111.30	135,867	10	Pond 1
4/1/2025	1:40:00 AM		00:15:00	2,860	372,348	191	--	8.30	0.438	30.1	16.68	24.71	110.20	136,153	10	Pond 1
4/1/2025	1:55:00 AM		00:15:00	2,660	375,008	177	--	8.31	0.435	27.1	16.76	22.77	109.80	136,419	10	Pond 1
4/1/2025	2:15:00 AM		00:20:00	2,860	377,868	143	--	8.31	0.435	26.8	16.46	33.24	109.90	136,705	10	Pond 1
4/1/2025	2:30:00 AM		00:15:00	3,330	381,198	222	--	8.32	0.443	20.7	16.47	29.60	113.10	137,038	10	Pond 1
4/1/2025	2:45:00 AM	530 - 540	00:15:00	2,470	383,668	165	--	8.27	0.440	20.4	16.68	45.53	116.50	137,285	10	Pond 1
4/1/2025	3:00:00 AM		00:15:00	2,180	385,848	145	--	8.29	0.440	18.0	16.15	0.48	112.40	137,503	10	Pond 1
4/1/2025	3:15:00 AM		00:15:00	2,540	388,388	169	--	8.30	0.440	13.9	16.05	0.31	117.10	137,757	10	Pond 1
4/1/2025	3:30:00 AM		00:15:00	2,100	390,488	140	--	8.29	0.441	18.0	16.44	41.71	113.60	137,967	10	Pond 1
4/1/2025	3:45:00 AM		00:15:00	1,920	392,408	128	--	8.28	0.445	16.1	15.71	41.24	115.30	138,159	10	Pond 1
4/1/2025	4:15:00 AM		00:30:00	3,970	396,378	132	--	8.27	0.446	35.4	16.59	65.22	112.90	138,556	10	Pond 1
4/1/2025	4:30:00 AM	520 - 530	00:15:00	2,330	398,708	155	--	8.31	0.437	27.4	16.69	51.88	111.40	138,789	10	Pond 1
4/1/2025	4:45:00 AM		00:15:00	2,460	401,168	164	--	8.27	0.445	37.3	16.95	11.71	113.50	139,035	10	Pond 1
4/1/2025	5:00:00 AM		00:15:00	2,580	403,748	172	--	8.28	0.440	35.0	16.99	7.82	115.90	139,293	10	Pond 1
4/1/2025	5:15:00 AM		00:15:00	2,740	406,488	183	--	8.30	0.443	26.3	16.46	122.21	117.44	139,567	10	Pond 1
4/1/2025	5:30:00 AM		00:15:00	2,400	408,888	160	--	8.29	0.442	34.0	16.39	974.88	113.20	139,807	10	Pond 1
4/1/2025	5:45:00 AM		00:15:00	6,460	415,348	431	--	8.26	0.446	40.2	16.84	730.52	113.20	140,453	10	Pond 1
4/1/2025	6:10:00 AM	510 - 520	00:25:00	20	415,368	1	--	8.28	0.452	27.0	14.90	839.34	122.60	140,455	10	Pond 1
4/1/2025	6:30:00 AM		00:20:00	7,730	423,098	387	--	8.35	0.424	22.7	13.50	893.75	112.50	141,228	10	Pond 1
4/1/2025	7:00:00 AM		00:30:00	3,680	426,778	123	--	8.26	0.425	30.3	15.30	27.90	111.30	141,596	10	Pond 1

**Table 6**  
**Explorer Well Swabbing and Airlifting Development**

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L or %)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/1/2025	7:30:00 AM		00:30:00	3,680	430,458	123	--	8.34	0.439	29.8	15.88	31.80	110.20	141,964	10	Pond 1
4/1/2025	8:00:00 AM		00:30:00	5,930	436,388	198	--	8.34	0.437	43.9	17.12	31.80	107.70	142,557	10	Pond 1
4/1/2025	8:15:00 AM	500 - 510	00:15:00	2,260	438,648	151	--	8.33	0.434	35.6	15.11	33.70	104.10	142,783	10	Pond 1
4/1/2025	8:30:00 AM		00:15:00	2,250	440,898	150	--	8.30	0.438	214.0	18.15	33.90	103.40	143,008	10	Pond 1
4/1/2025	8:45:00 AM		00:15:00	2,620	443,518	175	--	8.21	0.438	57.9	18.51	34.90	100.50	143,270	10	Pond 1
4/1/2025	9:00:00 AM		00:15:00	3,000	446,518	200	--	8.24	0.436	44.3	19.23	33.60	80.50	143,570	10	Pond 1
4/1/2025	10:00:00 AM		01:00:00	11,890	458,408	198	--	8.63	0.432	26.4	20.38	33.90	68.80	144,759	10	Pond 1
4/1/2025	10:30:00 AM		490 - 500	00:30:00	4,470	462,878	149	--	8.22	0.443	51.5	19.48	31.80	97.50	145,206	10
4/1/2025	10:45:00 AM	00:15:00		2,490	465,368	166	--	7.63	0.442	33.1	19.23	32.90	100.20	145,455	10	Pond 1
4/1/2025	11:00:00 AM	00:15:00		3,420	468,788	228	--	8.25	0.457	20.7	19.30	31.80	97.60	145,797	10	Pond 1
4/1/2025	11:15:00 AM	00:15:00		2,240	471,028	149	--	8.09	0.443	50.9	18.77	31.80	95.70	146,021	10	Pond 1
4/1/2025	11:30:00 AM	00:15:00		2,800	473,828	187	--	8.26	0.440	48.8	19.00	31.80	93.40	146,301	10	Pond 1
4/1/2025	11:50:00 AM	00:20:00		4,190	478,018	210	--	8.06	0.443	48.5	19.23	34.90	95.10	146,720	10	Pond 1
4/1/2025	12:15:00 PM	480 - 490	00:25:00	5,670	483,688	227	--	8.24	0.442	29.6	20.36	32.90	89.30	147,287	10	Pond 1
4/1/2025	12:45:00 PM	470 - 480	00:30:00	3,210	486,898	107	--	8.75	0.438	42.1	19.17	32.80	54.80	147,608	10	Pond 1
4/1/2025	1:00:00 PM		00:15:00	3,530	490,428	235	--	8.37	0.438	34.3	19.98	31.80	74.50	147,961	10	Pond 1
4/1/2025	1:30:00 PM	460 - 470	00:30:00	6,440	496,868	215	--	8.35	0.445	60.2	18.85	31.80	77.70	148,605	10	Pond 1
4/1/2025	2:00:00 PM		00:30:00	2,690	499,558	90	--	8.28	0.446	67.0	18.69	31.80	82.60	148,874	10	Pond 1
4/1/2025	2:15:00 PM		00:15:00	3,600	503,158	240	--	8.38	0.442	31.5	18.55	31.50	84.70	149,234	10	Pond 1
4/1/2025	2:30:00 PM	450 - 440	00:15:00	1,880	505,038	125	--	8.37	0.443	41.6	18.57	31.80	83.00	149,422	10	Pond 1
4/1/2025	2:45:00 PM		00:15:00	3,040	508,078	203	--	8.35	0.445	21.6	18.45	30.70	84.40	149,726	10	Pond 1
4/1/2025	3:00:00 PM		00:15:00	2,080	510,158	139	--	8.36	0.442	41.2	18.45	30.80	84.60	149,934	10	Pond 1
4/1/2025	3:15:00 PM		00:15:00	--	--	--	--	8.20	0.442	40.5	18.46	42.00	88.80	-	10	Pond 1

**Table 6**  
**Explorer Well Swabbing and Airlifting Development**

Development Data								Water Quality						Totalizer		Discharge Location
Date	Time	Swabbing Screen Interval Depth (ft-btoc)	Duration of Step Run (hh:mm:ss)	Water Removed (gal)	Total Amount (gal)	Flow Rate (gpm)	Depth to Water (ft-btoc)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	DO (mg/L) or (%)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/1/2025	3:45:00 PM	390 - 380	00:30:00	3,290	513,448	110	--	8.27	0.447	43.1	18.49	52.30	86.90	150,263	10	Pond 1
4/1/2025	4:00:00 PM		00:15:00	3,140	516,588	209	--	8.32	0.446	19.1	18.54	39.00	86.90	150,577	10	Pond 1
4/1/2025	4:15:00 PM	380 - 370	00:15:00	2,160	518,748	144	--	8.17	0.444	211.0	18.47	40.00	87.90	150,793	10	Pond 1
4/1/2025	4:20:00 PM		00:05:00	--	--	--	--	--	--	39.4	--	--	--	-	10	Pond 1
4/1/2025	4:30:00 PM		00:10:00	--	--	--	--	8.20	0.445	125.0	18.52	39.00	86.80	-	10	Pond 1
4/1/2025	4:37:00 PM		00:07:00	--	--	--	--	--	--	52.7	--	--	--	-	10	Pond 1
4/1/2025	4:48:00 PM		00:11:00	4,930	523,678	149	--	8.33	0.439	100.0	18.44	35.90	88.00	151,286	10	Pond 1
4/1/2025	5:00:00 PM	370 - 360	00:12:00	2,460	526,138	205	--	8.44	0.442	39.5	18.43	28.20	87.20	151,532	10	Pond 1
4/1/2025	5:15:00 PM		00:15:00	2,450	528,588	163	--	8.22	0.448	40.9	17.72	39.00	88.40	151,777	10	Pond 1
4/1/2025	5:30:00 PM	360 - 350	00:15:00	2,690	531,278	179	--	8.28	0.443	154.0	18.34	31.80	67.90	152,046	10	Pond 1
4/1/2025	5:35:00 PM		00:05:00	--	--	--	--	--	--	63.1	--	--	--	-	10	Pond 1
4/1/2025	5:39:00 PM		00:04:00	--	--	--	--	--	--	15.4	--	--	--	-	10	Pond 1
4/1/2025	5:45:00 PM		00:06:00	--	--	--	--	8.20	0.444	84.8	18.29	21.60	93.70	-	10	Pond 1
4/1/2025	5:55:00 PM		00:10:00	--	--	--	--	8.28	0.443	18.8	18.37	35.90	94.20	-	10	Pond 1
4/1/2025	6:05:00 PM		00:10:00	6,560	537,838	187	--	8.35	0.443	63.6	17.64	22.60	95.60	152,702	10	Pond 1
4/1/2025	6:34:00 PM		00:29:00	2,730	540,568	94	--	--	--	--	--	--	--	152,975	10	Pond 1

**Notes:**

-- = no data listed

**Units:**

C° = celcius

mV = millivolt

ft-btoc = feet below top of casing

NTU = Nephelometric turbidity unit

gal = gallons

% = Percent

gpm = gallons per minute

mg/L= milligrams per Liter

Table 7  
Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/14/2025	8:53:00 AM	00:48:00	0:48	--	160.2	--	--	--	--	--	--	--	--	1,000	Pond 1
4/14/2025	9:38:00 AM	00:45:00	1:33	--	208.12	47.92	--	7.19	0.450	151.0	18.24	146.3	7,722	1,000	Pond 1
4/14/2025	9:48:00 AM	00:10:00	1:43	500	215.39	55.19	5,000	7.84	0.302	13.6	18.18	120.1	7,727	1,000	Pond 1
4/14/2025	9:53:00 AM	00:05:00	1:48	400	216.9	56.7	2,000	8.07	0.423	11.9	18.27	99.8	7,729	1,000	Pond 1
4/14/2025	10:00:00 AM	00:07:00	1:55	571	224.1	63.9	4,000	8.08	0.399	12.2	18.17	109.8	7,733	1,000	Pond 1
4/14/2025	10:08:00 AM	00:08:00	2:03	375	225.7	65.5	3,000	8.13	0.415	8.2	18.35	88.8	7,736	1,000	Pond 1
4/14/2025	10:18:00 AM	00:10:00	2:13	600	234.9	74.7	6,000	8.06	0.438	18.0	18.34	89.6	7,742	1,000	Pond 1
4/14/2025	10:28:00 AM	00:10:00	2:23	600	245.69	85.49	6,000	8.02	0.44	10.1	18.36	85	7,748	1,000	Pond 1
4/14/2025	10:38:00 AM	00:10:00	2:33	700	248.91	88.71	7,000	8.07	0.442	10.6	18.56	81.6	7,755	1,000	Pond 1
4/14/2025	10:45:00 AM	00:07:00	2:40	714	262.25	102.05	5,000	8.05	0.443	17.3	18.72	79.7	7,760	1,000	Pond 1
4/14/2025	10:55:00 AM	00:10:00	2:50	700	270.16	109.96	7,000	8.07	0.422	17.0	19	75.1	7,767	1,000	Pond 1
4/14/2025	11:03:00 AM	00:08:00	2:58	750	276.05	115.85	6,000	8.04	0.433	25.2	19.58	71.9	7,773	1,000	Pond 1
4/14/2025	11:13:00 AM	00:10:00	3:08	800	288.05	127.85	8,000	8.06	0.421	35.0	19.62	70.3	7,781	1,000	Pond 1
4/14/2025	11:24:00 AM	00:11:00	3:19	909	292.05	131.85	10,000	8.05	0.442	42.6	19.28	71.2	7,791	1,000	Pond 1
4/14/2025	11:33:00 AM	00:09:00	3:28	1,000	307.6	147.4	9,000	8.04	0.421	56.7	19.71	71.8	7,800	1,000	Pond 1
4/14/2025	11:43:00 AM	00:10:00	3:38	800	320.29	160.09	8,000	8.09	0.423	60.0	19.66	74.6	7,808	1,000	Pond 1
4/14/2025	11:49:00 AM	00:06:00	3:44	1,500	323.21	163.01	9,000	8.24	0.431	59.7	19.79	75.4	7,817	1,000	Pond 1
4/14/2025	11:58:00 AM	00:09:00	3:53	778	338.1	177.9	7,000	7.99	0.436	84.6	19.95	74.3	7,824	1,000	Pond 1
4/14/2025	12:19:00 PM	00:21:00	4:14	286	--	--	6,000	--	--	--	--	--	7,830	1,000	Pond 1
4/16/2025	7:55:00 AM	0	--	--	164.2	--	18,500	--	--	--	--	--	7,849	1,000	Pond 1
4/16/2025	8:00:00 AM	00:05:00	0:05	100	213.56	49.36	500	7.28	0.84	69.1	16.5	175.8	7,849	1,000	Pond 1
4/16/2025	8:10:00 AM	00:10:00	0:15	300	218.42	54.22	3,000	7.82	0.43	6.9	16.84	144.3	7,852	1,000	Pond 1

Table 7  
Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/16/2025	8:25:00 AM	00:15:00	0:30	400	225.9	61.7	6,000	7.99	0.419	13.7	17.1	126.8	7,858	1,000	Pond 1
4/16/2025	8:35:00 AM	00:10:00	0:40	400	228.85	64.65	4,000	8.04	0.423	5.9	17.09	131.60	7,862	1,000	Pond 1
4/16/2025	8:50:00 AM	00:15:00	0:55	200	232.45	68.25	3,000	8.07	0.435	10.7	16.62	112.00	7,865	1,000	Pond 1
4/16/2025	9:05:00 AM	00:15:00	1:10	533	239.85	75.65	8,000	8.09	0.428	7.0	17.34	107.00	7,873	1,000	Pond 1
4/16/2025	9:20:00 AM	00:15:00	1:25	133	242.4	78.2	2,000	8.07	0.42	9.7	17.49	103.30	7,875	1,000	Pond 1
4/16/2025	9:33:00 AM	00:13:00	1:38	692	252.51	88.31	9,000	8.05	0.425	10.2	17.37	99.00	7,884	1,000	Pond 1
4/16/2025	9:45:00 AM	00:12:00	1:50	250	256.78	92.58	3,000	8.09	0.424	19.1	17.44	98.40	7,887	1,000	Pond 1
4/16/2025	9:57:00 AM	00:12:00	2:02	750	266.76	102.56	9,000	8.04	0.424	14.9	17.35	97.90	7,896	1,000	Pond 1
4/16/2025	10:10:00 AM	00:13:00	2:15	1,000	269.15	104.95	3,000	8.05	0.424	18.6	17.37	96.50	7,899	1,000	Pond 1
4/16/2025	10:22:00 AM	00:12:00	2:27	833	280.85	116.65	10,000	8.05	0.425	24.3	17.22	95.10	7,909	1,000	Pond 1
4/16/2025	10:33:00 AM	00:11:00	2:38	364	283.31	119.11	4,000	8.06	0.423	20.1	17.19	95.20	7,913	1,000	Pond 1
4/16/2025	10:45:00 AM	00:12:00	2:50	917	297.15	132.95	11,000	8.06	0.414	39.0	17.32	94.80	7,924	1,000	Pond 1
4/16/2025	11:06:00 AM	00:21:00	3:11	238	299.69	135.49	5,000	8.09	0.41	48.0	17.51	98.20	7,929	1,000	Pond 1
4/16/2025	11:18:00 AM	00:12:00	3:23	1,000	313.45	149.25	12,000	8.08	0.426	56.8	17.42	94.80	7,941	1,000	Pond 1
4/16/2025	11:34:00 AM	00:16:00	3:39	313	316.7	152.5	5,000	8.13	0.408	65.6	17.49	100.30	7,946	1,000	Pond 1
4/16/2025	11:45:00 AM	00:11:00	3:50	1,091	330.55	166.35	12,000	8.04	0.41	73.6	17.64	102.10	7,958	1,000	Pond 1
4/16/2025	12:04:00 PM	00:19:00	4:09	368	323.3	159.1	7,000	8.12	0.408	71.5	17.72	96.40	7,965	1,000	Pond 1
4/16/2025	12:15:00 PM	00:11:00	4:20	1,091	335.1	170.9	12,000	8.2	0.420	71.7	17.54	95.40	7,977	1,000	Pond 1
4/16/2025	12:31:00 PM	00:16:00	4:36	250	334.1	169.9	4,000	8.27	0.423	83.3	18.24	91.90	7,981	1,000	Pond 1
4/16/2025	12:42:00 PM	00:11:00	4:47	1,091	338.26	174.06	12,000	8.13	0.423	71.0	18.35	92.20	7,993	1,000	Pond 1
4/16/2025	12:55:00 PM	00:13:00	5:00	538	335.4	171.2	7,000	8.28	0.416	67.4	18.41	90.90	8,000	1,000	Pond 1
4/16/2025	1:07:00 PM	00:12:00	5:12	1,000	337.9	173.7	12,000	8.73	0.416	48.9	18.33	85.60	8,012	1,000	Pond 1
4/16/2025	1:16:00 PM	00:09:00	5:21	889	339.86	175.66	8,000	8.27	0.422	49.7	18.3	92.10	8,020	1,000	Pond 1

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Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/16/2025	1:22:00 PM	00:06:00	5:27	1,083	340.6	176.4	6,500	8.03	0.415	42.3	18.29	87.90	8,027	1,000	Pond 1
4/16/2025	1:38:00 PM	00:16:00	5:43	313	333.2	169	5,000	8.37	0.427	59.0	18.31	88.80	8,032	1,000	Pond 1
4/16/2025	1:49:00 PM	00:11:00	5:54	1,000	337	172.5	11,000	8.34	0.429	46.5	18.32	87.40	8,043	1,000	Pond 1
4/16/2025	2:17:00 PM	00:28:00	6:22	214	344	179.62	6,000	8.62	0.434	86.1	18.44	86.30	8,049	1,000	Pond 1
4/16/2025	2:28:00 PM	00:11:00	6:33	1,091	354.1	189.9	12,000	8.45	0.429	70.6	18.5	89.30	8,061	1,000	Pond 1
4/16/2025	2:43:00 PM	00:15:00	6:48	420	358.50	194.30	6,300	8.45	0.427	82.5	18.44	97.20	8,067	1,000	Pond 1
4/16/2025	2:56:00 PM	00:13:00	7:01	1,169	375.05	210.85	15,200	8.66	0.436	99.5	17.66	90.30	8,082	1,000	Pond 1
4/16/2025	3:12:00 PM	00:16:00	7:17	250	365.14	200.94	4,000	8.28	0.424	119.0	18.08	87.90	8,086	1,000	Pond 1
4/16/2025	3:24:00 PM	00:12:00	7:29	1,125	376.3	212.1	13,500	8.15	0.429	87.7	17.81	92.90	8,100	1,000	Pond 1
4/16/2025	3:38:00 PM	00:14:00	7:43	393	377.75	213.55	5,500	8.15	0.429	104.0	18.06	99.00	8,105	1,000	Pond 1
4/16/2025	3:49:00 PM	00:11:00	7:54	1,091	377.19	212.99	12,000	7.87	0.428	88.2	17.95	95.20	8,117	1,000	Pond 1
4/16/2025	3:58:00 PM	00:09:00	8:03	333	--	--	3,000	--	--	--	--	--	8,120	1,000	Pond 1
4/17/2025	7:00:00 AM	0	--	--	169.6	--	1	--	--	--	--	--	8,121	1,000	Pond 1
4/17/2025	7:03:00 AM	00:03:00	0:03	1	220.39	50.79	2	7.36	0.686	64.5	15.74	170.10	8,122	1,000	Pond 1
4/17/2025	7:14:00 AM	00:11:00	0:14	364	223.6	54	4,000	7.74	0.440	38.0	16.70	148.20	8,126	1,000	Pond 1
4/17/2025	7:27:00 AM	00:13:00	0:27	115	225.7	56.1	1,500	7.84	0.377	12.4	16.65	133.80	8,128	1,000	Pond 1
4/17/2025	7:38:00 AM	00:11:00	0:38	500	232.5	62.9	5,500	7.93	0.415	16.2	16.96	129.30	8,133	1,000	Pond 1
4/17/2025	7:53:00 AM	00:15:00	0:53	200	238.57	68.97	3,000	8.04	0.409	35.1	16.60	114.50	8,136	1,000	Pond 1
4/17/2025	8:04:00 AM	00:11:00	1:04	545	244.53	74.93	6,000	8.02	0.424	14.4	16.83	111.10	8,142	1,000	Pond 1
4/17/2025	8:22:00 AM	00:18:00	1:22	194	251.6	82	3,500	8.02	0.407	27.8	16.73	116.40	8,146	1,000	Pond 1
4/17/2025	8:33:00 AM	00:11:00	1:33	682	258.95	89.35	7,500	8.06	0.422	12.4	16.97	110.90	8,153	1,000	Pond 1
4/17/2025	8:51:00 AM	00:18:00	1:51	139	259.92	90.32	2,500	8.11	0.432	31.2	16.97	108.70	8,156	1,000	Pond 1

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Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/17/2025	9:02:00 AM	00:11:00	2:02	727	270	100.4	8,000	8.05	0.439	15.5	16.28	108.50	8,164	1,000	Pond 1
4/17/2025	9:27:00 AM	00:25:00	2:27	160	273.48	103.88	4,000	8.06	0.423	60.8	17.300	108.900	8,168	1,000	Pond 1
4/17/2025	9:39:00 AM	00:12:00	2:39	833	284.6	115	10,000	8.1	0.421	17.5	17.330	108.000	8,178	1,000	Pond 1
4/17/2025	9:56:00 AM	00:17:00	2:56	147	288.41	118.81	2,500	8.18	0.430	42.4	17.130	103.600	8,180	1,000	Pond 1
4/17/2025	10:08:00 AM	00:12:00	3:08	917	300.8	131.2	11,000	8.1	0.433	16.7	16.970	108.800	8,191	1,000	Pond 1
4/17/2025	10:27:00 AM	00:19:00	3:27	263	313.3	143.7	5,000	8.14	0.431	35.2	16.680	108.900	8,196	1,000	Pond 1
4/17/2025	10:38:00 AM	00:11:00	3:38	1,000	317.45	147.85	11,000	8.1	0.410	22.2	17.110	109.600	8,207	1,000	Pond 1
4/17/2025	10:58:00 AM	00:20:00	3:58	250	330.8	161.2	5,000	8.13	0.419	34.0	17.270	108.300	8,212	1,000	Pond 1
4/17/2025	11:09:00 AM	00:11:00	4:09	1,182	334.5	164.9	13,000	8.09	0.413	23.0	16.890	110.800	8,225	1,000	Pond 1
4/17/2025	11:23:00 AM	00:14:00	4:23	357	346.8	177.2	5,000	8.11	0.404	44.1	17.200	110.600	8,230	1,000	Pond 1
4/17/2025	11:34:00 AM	00:11:00	4:34	1,091	352.7	183.1	12,000	8.05	0.405	36.6	17.470	109.000	8,242	1,000	Pond 1
4/17/2025	11:54:00 AM	00:20:00	4:54	350	361.35	191.75	7,000	8.14	0.423	82.8	17.760	109.300	8,249	1,000	Pond 1
4/17/2025	12:06:00 PM	00:12:00	5:06	1,167	373.2	203.6	14,000	8.09	0.413	94.8	17.790	111.500	8,263	1,000	Pond 1
4/17/2025	12:22:00 PM	00:16:00	5:22	313	379.4	209.8	5,000	8.2	0.436	140.0	17.310	111.200	8,268	1,000	Pond 1
4/17/2025	12:33:00 PM	00:11:00	5:33	1,227	381	211.4	13,500	8.09	0.419	72.9	17.300	112.000	8,282	1,000	Pond 1
4/17/2025	12:53:00 PM	00:20:00	5:53	325	383.65	214.05	6,500	8.15	0.404	116.0	17.150	108.600	8,288	1,000	Pond 1
4/17/2025	1:04:00 PM	00:11:00	6:04	1,182	392.65	223.05	13,000	8.08	0.393	91.8	17.050	110.900	8,301	1,000	Pond 1
4/17/2025	1:20:00 PM	00:16:00	6:20	469	394.5	224.9	7,500	8.17	0.422	98.7	17.520	112.600	8,309	1,000	Pond 1
4/17/2025	1:31:00 PM	00:11:00	6:31	1,209	400.3	230.7	13,300	8.01	0.431	75.8	17.750	113.400	8,322	1,000	Pond 1
4/17/2025	1:47:00 PM	00:16:00	6:47	513	391.7	222.1	8,200	7.93	0.424	79.8	17.560	119.600	8,330	1,000	Pond 1
4/17/2025	1:59:00 PM	00:12:00	6:59	386	397	227.4	8,500	8.1	0.431	67.4	17.630	116.100	8,339	1,000	Pond 1
4/17/2025	2:18:00 PM	00:19:00	7:18	667	390.7	221.1	6,000	8.13	0.420	48.4	16.590	115.500	8,345	1,000	Pond 1
4/17/2025	2:29:00 PM	00:11:00	7:29	368	389	219.4	12,500	8.13	0.423	53.0	16.890	114.800	8,357	1,000	Pond 1

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Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/17/2025	2:52:00 PM	00:23:00	7:52	700	375.25	205.65	7,000	8.15	0.431	104.0	16.900	114.200	8,364	1,000	Pond 1
4/17/2025	3:02:00 PM	00:10:00	8:02	1,091	381.75	212.15	12,000	8.15	0.430	53.7	17.110	116.300	8,376	1,000	Pond 1
4/17/2025	3:13:00 PM	00:11:00	8:13	1,000	385.1	215.5	11,000	8.13	0.432	33.6	16.660	120.000	8,387	1,000	Pond 1
4/17/2025	3:24:00 PM	00:11:00	8:24	1,091	387.7	218.1	12,000	8.01	0.416	33.3	17.390	126.000	8,399	1,000	Pond 1
4/17/2025	3:35:00 PM	00:11:00	8:35	1,091	390.2	220.6	12,000	8.12	0.419	28.7	17.180	120.600	8,411	1,000	Pond 1
4/17/2025	3:46:00 PM	00:11:00	8:46	1,000	391.9	222.3	11,000	8.15	0.424	28.4	17.380	122.000	8,422	1,000	Pond 1
4/18/2025	7:00:00 AM	0	--	--	173.9	--	--	--	--	--	--	--	8,425	1,000	Pond 1
4/18/2025	7:03:00 AM	00:03:00	0:21	48	218.9	45	1,000	6.89	0.557	43.3	15.66	205.30	8,426	1,000	Pond 1
4/18/2025	7:14:00 AM	00:11:00	0:32	318	221.9	48	3,500	7.64	0.426	10.4	16.50	179.20	8,430	1,000	Pond 1
4/18/2025	7:34:00 AM	00:20:00	0:52	150	280.1	106.2	3,000	7.89	0.417	64.5	16.73	157.00	8,433	1,000	Pond 1
4/18/2025	7:45:00 AM	00:11:00	1:03	773	288.4	114.5	8,500	7.92	0.417	16.3	16.88	152.20	8,441	1,000	Pond 1
4/18/2025	7:56:00 AM	00:11:00	1:14	773	293.16	119.26	8,500	8.02	0.439	6.2	16.53	141.40	8,450	1,000	Pond 1
4/18/2025	8:17:00 AM	00:21:00	1:35	310	287.4	113.5	6,500	8.07	0.432	27.6	17.02	134.30	8,456	1,000	Pond 1
4/18/2025	8:29:00 AM	00:12:00	1:47	833	294.25	120.35	10,000	7.99	0.427	9.8	17.2	135.50	8,466	1,000	Pond 1
4/18/2025	8:43:00 AM	00:14:00	2:01	750	298.1	124.2	10,500	8.03	0.416	6.5	17.2	130.50	8,477	1,000	Pond 1
4/18/2025	9:06:00 AM	00:23:00	2:24	152	282.4	108.5	3,500	8.11	0.429	33.8	16.87	126.50	8,480	1,000	Pond 1
4/18/2025	9:18:00 AM	00:12:00	2:36	833	292.7	118.8	10,000	8.02	0.405	10.9	17.56	129.80	8,490	1,000	Pond 1
4/18/2025	9:31:00 AM	00:13:00	2:49	769	296.5	122.6	10,000	8.02	0.418	5.8	17.59	128.50	8,500	1,000	Pond 1
4/18/2025	9:48:00 AM	00:17:00	3:06	150	289	115.1	4,500	8.07	0.411	18.5	17.49	126.60	8,505	1,000	Pond 1
4/18/2025	10:01:00 AM	00:13:00	3:19	936	292.95	119.05	10,300	8.01	0.406	8.6	17.39	126.70	8,515	1,000	Pond 1
4/18/2025	10:14:00 AM	00:13:00	3:32	785	296.35	122.45	10,200	7.94	0.418	4.9	17.30	133.60	8,525	1,000	Pond 1

Table 7  
Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/18/2025	10:27:00 AM	00:13:00	3:45	769	298	124.1	10,000	8.07	0.424	4.6	17.49	126.10	8,535	1,000	Pond 1
4/18/2025	10:47:00 AM	00:20:00	4:05	385	306.9	133	7,700	8.11	0.424	20.1	17.52	122.60	8,543	1,000	Pond 1
4/18/2025	10:59:00 AM	00:12:00	4:17	900	310.1	136.2	10,800	8.06	0.427	7.8	17.48	125.30	8,554	1,000	Pond 1
4/18/2025	11:11:00 AM	00:12:00	4:29	875	313.35	139.45	10,500	8.04	0.416	7.8	17.86	125.50	8,564	1,000	Pond 1
4/18/2025	11:23:00 AM	00:12:00	4:41	875	315.02	141.12	10,500	8.07	0.422	5.2	17.93	1225.50	8,575	1,000	Pond 1
4/18/2025	11:48:00 AM	00:25:00	5:06	368	322.95	149.05	9,200	8.18	0.432	16.3	17.74	119.10	8,584	1,000	Pond 1
4/18/2025	11:59:00 AM	00:11:00	5:17	1,000	326.45	152.55	11,000	8.11	0.429	13.0	17.93	120.30	8,595	1,000	Pond 1
4/18/2025	12:12:00 PM	00:13:00	5:30	962	331.05	157.15	12,500	8.08	0.431	8.6	17.90	119.60	8,607	1,000	Pond 1
4/18/2025	12:25:00 PM	00:13:00	5:43	985	333.65	159.75	12,800	8.10	0.416	7.4	17.69	118.70	8,620	1,000	Pond 1
4/18/2025	12:58:00 PM	00:33:00	6:16	242	337	163.1	8,000	8.15	0.425	18.7	17.97	116.60	8,628	1,000	Pond 1
4/18/2025	1:10:00 PM	00:12:00	6:28	1,083	345.15	171.25	13,000	8.10	0.415	17.7	18.04	118.30	8,641	1,000	Pond 1
4/18/2025	1:22:00 PM	00:12:00	6:40	1,083	351.1	177.2	13,000	7.83	0.415	10.3	17.58	125.40	8,654	1,000	Pond 1
4/18/2025	1:37:00 PM	00:15:00	6:55	1,067	354.3	180.4	16,000	8.08	0.429	16.4	17.67	120.60	8,670	1,000	Pond 1
4/18/2025	1:59:00 PM	00:22:00	7:17	364	355.9	182	8,000	8.08	0.417	18.8	18.00	119.20	8,678	1,000	Pond 1
4/18/2025	2:10:00 PM	00:11:00	7:28	1,182	359.9	186	13,000	8.13	0.433	61.2	18.00	117.90	8,691	1,000	Pond 1
4/18/2025	2:22:00 PM	00:12:00	7:40	1,133	366.1	192.2	13,600	8.17	0.417	20.0	17.97	114.50	8,705	1,000	Pond 1
4/18/2025	2:34:00 PM	00:12:00	7:52	1,117	369.28	195.38	13,400	8.11	0.408	12.5	17.88	115.70	8,718	1,000	Pond 1
4/18/2025	3:03:00 PM	00:29:00	8:21	448	359.81	185.91	13,000	8.04	0.414	24.9	17.80	114.40	8,731	1,000	Pond 1
4/18/2025	3:14:00 PM	00:11:00	8:32	1,227	377	203.1	13,500	8.11	0.412	18.0	17.97	114.60	8,745	1,000	Pond 1
4/18/2025	3:27:00 PM	00:13:00	8:45	1,208	381.95	208.05	15,700	8.15	0.428	30.8	17.66	113.90	8,760	1,000	Pond 1
4/18/2025	3:40:00 PM	00:13:00	8:58	1,192	385.81	211.91	15,500	8.16	0.424	10.7	18.01	113.80	8,776	1,000	Pond 1
4/18/2025	3:53:00 PM	00:13:00	9:11	1,177	384.45	210.55	15,300	8.26	0.426	11.1	18.15	113.20	8,791	1,000	Pond 1

Table 7  
Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/21/2025	7:01:00 AM	0	--	--	173.5	--	10,000	--	--	--	--	--	8,801	1,000	Pond 1
4/21/2025	7:03:00 AM	00:02:00	0:02	136	291.42	117.92	1,500	7.73	0.869	44.0	15.5	180.70	8,803	1,000	Pond 1
4/21/2025	7:15:00 AM	00:12:00	0:14	833	299.3	125.8	10,000	7.91	0.441	11.9	16.5	160.00	8,813	1,000	Pond 1
4/21/2025	7:29:00 AM	00:14:00	0:28	821	304.55	131.05	11,500	8.33	0.422	4.0	16.2	137.40	8,824	1,000	Pond 1
4/21/2025	7:49:00 AM	00:20:00	0:48	240	304.4	130.9	4,800	8.28	0.430	5.2	16.2	122.70	8,829	1,000	Pond 1
4/21/2025	8:01:00 AM	00:12:00	1:00	933	313	139.5	11,200	8.21	0.424	4.8	16.9	121.20	8,840	1,000	Pond 1
4/21/2025	8:14:00 AM	00:13:00	1:13	923	317.3	143.8	12,000	8.88	0.434	3.6	16.5	105.30	8,852	1,000	Pond 1
4/21/2025	8:33:00 AM	00:19:00	1:32	368	324	150.5	7,000	7.99	0.434	9.8	17.2	118.20	8,859	1,000	Pond 1
4/21/2025	8:44:00 AM	00:11:00	1:43	1,027	330.7	157.2	11,300	7.68	0.431	7.3	17.9	101.30	8,870	1,000	Pond 1
4/21/2025	8:57:00 AM	00:13:00	1:56	1,015	334.55	161.05	13,200	8.18	0.432	4.6	17.8	94.10	8,884	1,000	Pond 1
4/21/2025	9:17:00 AM	00:20:00	2:16	350	340	166.5	7,000	8.56	0.424	4.3	18.5	95.40	8,891	1,000	Pond 1
4/21/2025	9:28:00 AM	00:11:00	2:27	1,136	349.5	176	12,500	8.47	0.429	7.2	18.5	91.10	8,903	1,000	Pond 1
4/21/2025	9:41:00 AM	00:13:00	2:40	1,092	354.5	181	14,200	8.64	0.427	5.6	18.6	87.40	8,917	1,000	Pond 1
4/21/2025	10:03:00 AM	00:22:00	3:02	318	353.7	180.2	7,000	8.57	0.434	5.0	18.6	92.30	8,924	1,000	Pond 1
4/21/2025	10:15:00 AM	00:12:00	3:14	1,242	368	194.5	14,900	8.63	0.423	14.9	18.7	86.40	8,939	1,000	Pond 1
4/21/2025	10:29:00 AM	00:14:00	3:28	1,193	375.15	201.65	16,700	8.44	0.430	7.7	18.9	86.40	8,956	1,000	Pond 1
4/21/2025	10:57:00 AM	00:28:00	3:56	275	364.55	191.05	7,700	8.83	0.429	4.2	19.8	91.60	8,964	1,000	Pond 1
4/21/2025	11:09:00 AM	00:12:00	4:08	1,217	369.8	196.3	14,600	8.19	0.428	7.5	19.8	78.60	8,978	1,000	Pond 1
4/21/2025	11:22:00 AM	00:13:00	4:21	1,223	376.95	203.45	15,900	8.19	0.436	6.8	20.2	79.70	8,994	1,000	Pond 1
4/21/2025	12:08:00 PM	00:46:00	5:07	152	354.7	181.2	7,000	8.01	0.445	7.1	20.8	91.60	9,001	1,000	Pond 1
4/21/2025	12:20:00 PM	00:12:00	5:19	1,250	368	194.5	15,000	7.90	0.433	7.9	20.8	88.80	9,016	1,000	Pond 1
4/21/2025	12:32:00 PM	00:12:00	5:31	1,233	376.15	202.65	14,800	7.89	0.431	6.3	21.0	88.30	9,031	1,000	Pond 1
4/21/2025	12:56:00 PM	00:24:00	5:55	383	364.65	191.15	9,200	7.89	0.443	3.8	21.3	88.90	9,040	1,000	Pond 1
4/21/2025	1:08:00 PM	00:12:00	6:07	1,250	372.3	198.8	15,000	8.16	0.428	7.9	21.4	88.10	9,055	1,000	Pond 1

Table 7  
Explorer Well Development by Pumping

Development Data													Totalizer		Discharge Location
Date	Time	Step Run (hh:mm:ss)	Total Step Run (hh:mm:ss)	Flow Rate (gpm)	Depth to Water (ft btoc)	Drawdown	Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	Tanks/ Pond 1
4/21/2025	1:21:00 PM	00:13:00	6:20	1,223	378.9	205.4	15,900	8.08	0.436	7.1	21.6	85.60	9,071	1,000	Pond 1
4/21/2025	1:41:00 PM	00:20:00	6:40	380	366.96	193.46	7,600	8.12	0.439	6.9	22.4	84.80	9,079	1,000	Pond 1
4/21/2025	1:53:00 PM	00:12:00	6:52	1,250	374.5	201	15,000	8.02	0.424	7.3	21.9	85.90	9,094	1,000	Pond 1
4/21/2025	2:06:00 PM	00:13:00	7:05	1,192	380.2	206.7	15,500	7.96	0.430	5.0	21.6	82.80	9,109	1,000	Pond 1
4/21/2025	2:19:00 PM	00:13:00	7:18	1,231	383.6	210.1	16,000	8.10	0.431	5.4	22.3	81.50	9,125	1,000	Pond 1
4/21/2025	2:33:00 PM	00:14:00	7:32	1,207	382.95	209.45	16,900	8.11	0.435	4.3	22.2	79.80	9,142	1,000	Pond 1
4/21/2025	2:48:00 PM	00:15:00	7:47	1,193	383.3	209.8	17,900	8.12	0.414	4.8	22.2	79.00	9,160	1,000	Pond 1
4/21/2025	2:55:00 PM	00:07:00	7:54	--	--	--	--	--	--	--	--	--	9,167	1,000	Pond 1

**Notes:**

-- = no data listed

**Units:**

C° = celcius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mV = millivolt

NTU = Nephelometric turbidity unit

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
<b>Step 1</b>																
4/22/2025	7:00:00 AM	0:00:00	0:00:00	--	176.65	--	--	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	7:00:30 AM	00:00:30	00:00:30	--	267.10	90.45	--	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	7:01:00 AM	00:00:30	0:01:00	--	--	--	--	--	--	--	--	--	--	9,167	1,000	Pond 1
4/22/2025	7:01:30 AM	00:00:30	0:01:30	800	272.90	96.25	2.9	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:02:00 AM	00:00:30	0:02:00	800	278.35	101.70	2.9	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:02:30 AM	00:00:30	0:02:30	800	280.65	104.00	2.9	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:03:00 AM	00:00:30	0:03:00	800	282.85	106.20	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:03:30 AM	00:00:30	0:03:30	800	284.40	107.75	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:04:00 AM	00:00:30	0:04:00	800	285.45	108.80	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:04:30 AM	00:00:30	0:04:30	800	286.60	109.95	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:05:00 AM	00:00:30	0:05:00	800	287.75	111.10	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:06:00 AM	00:01:00	0:06:00	800	288.84	112.19	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:07:00 AM	00:01:00	0:07:00	857	--	--	--	6,000	857.14	--	--	--	--	9,173	1,000	Pond 1
4/22/2025	7:08:00 AM	00:01:00	0:08:00	800	--	--	--	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:09:00 AM	00:01:00	0:09:00	800	288.50	111.85	2.8	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:10:00 AM	00:01:00	0:10:00	800	292.45	115.80	2.7	--	--	--	--	--	--	--	1,000	Pond 1
4/22/2025	7:15:00 AM	00:05:00	0:15:00	800	295.15	118.50	2.7	--	8.31	0.44	2.91	17.04	57.20	--	1,000	Pond 1
4/22/2025	7:20:00 AM	00:05:00	0:20:00	846	297.30	120.65	2.8	17,000	--	--	--	--	--	9,184	1,000	Pond 1
4/22/2025	7:25:00 AM	00:05:00	0:25:00	800	298.80	122.15	2.7	21,000	--	--	--	--	--	9,188	1,000	Pond 1
4/22/2025	7:30:00 AM	00:05:00	0:30:00	800	300.15	123.50	2.7	25,000	8.17	0.43	1.44	16.59	57.60	9,192	1,000	Pond 1
4/22/2025	7:40:00 AM	00:10:00	0:40:00	850	302.17	125.52	2.8	--	--	--	--	--	--	9,201	--	--
4/22/2025	7:45:00 AM	00:05:00	0:45:00	--	--	--	--	--	8.09	0.43	4.19	17.72	68.60	--	1,000	Pond 1
4/22/2025	7:50:00 AM	00:05:00	0:50:00	790	303.69	127.04	2.6	41,400	--	--	--	--	--	9,208	1,000	Pond 1
4/22/2025	8:00:00 AM	00:10:00	1:00:00	840	305.10	128.45	2.8	49,800	8.08	0.43	1.93	17.26	72.20	9,217	1,000	Pond 1

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
4/22/2025	8:15:00 AM	00:15:00	1:15:00	780	306.31	129.66	2.5	61,500	8.05	0.41	1.38	17.51	71.40	9,229	1,000	Pond 1
4/22/2025	8:30:00 AM	00:15:00	1:30:00	813	307.87	131.22	2.6	73,700	8.16	0.43	1.08	17.59	68.80	9,241	1,000	Pond 1
4/22/2025	8:45:00 AM	00:15:00	1:45:00	787	308.94	132.29	2.5	85,500	8.05	0.42	1.20	17.49	70.80	9,253	1,000	Pond 1
4/22/2025	9:00:00 AM	00:15:00	2:00:00	720	309.83	133.18	2.3	96,300	7.75	0.42	6.25	18.18	68.30	9,263	1,000	Pond 1
<b>Step 2</b>																
4/22/2025	9:00:30 AM	00:00:30	0:00:00	950	332.20	155.55	2.9	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:01:00 AM	00:00:30	0:01:00	950	333.85	157.20	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:01:30 AM	00:00:30	0:01:30	950	335.35	158.70	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:02:00 AM	00:00:30	0:02:00	950	336.44	159.79	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:02:30 AM	00:00:30	0:02:30	950	337.50	160.85	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:03:00 AM	00:00:30	0:03:00	950	337.89	161.24	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:03:30 AM	00:00:30	0:03:30	950	338.40	161.75	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:04:00 AM	00:00:30	0:04:00	950	338.69	162.04	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:04:30 AM	00:00:30	0:04:30	950	338.96	162.31	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:05:00 AM	00:00:30	0:05:00	950	339.14	162.49	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:06:00 AM	00:01:00	0:06:00	1,250	339.55	162.90	3.7	103,800	--	--	--	--	--	9,271	1,000	Pond 1
4/22/2025	9:07:00 AM	00:01:00	0:07:00	950	339.87	163.22	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:08:00 AM	00:01:00	0:08:00	950	340.09	163.44	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:09:00 AM	00:01:00	0:09:00	950	340.15	163.50	2.8	--	--	--	--	--	--	--	--	Pond 1
4/22/2025	9:10:00 AM	00:01:00	0:10:00	950	340.30	163.65	2.8	--	--	--	--	--	--	9,275	1,000	Pond 1
4/22/2025	9:15:00 AM	00:05:00	0:15:00	556	341.50	164.85	1.6	112,500	8.11	0.426	2.0	17.76	72.60	9,280	1,000	Pond 1
4/22/2025	9:20:00 AM	00:05:00	0:20:00	1,080	342.14	165.49	3.2	117,900	--	--	--	--	--	9,285	1,000	Pond 1
4/22/2025	9:25:00 AM	00:05:00	0:25:00	920	342.79	166.14	2.7	122,500	--	--	--	--	--	9,290	1,000	Pond 1
4/22/2025	9:30:00 AM	00:05:00	0:30:00	900	343.60	166.95	2.6	127,000	8.16	0.399	2.0	18.05	71.20	9,294	1,000	Pond 1
4/22/2025	9:40:00 AM	00:10:00	0:40:00	--	344.39	167.74	#VALUE!	--	--	--	--	--	--	--	--	Pond 1

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
4/22/2025	9:45:00 AM	00:05:00	0:45:00	--	--	--	--	--	8.21	0.419	2.0	18.46	76.20	--	--	Pond 1
4/22/2025	9:50:00 AM	00:05:00	0:50:00	1,040	348.05	171.40	3.0	147,800	--	--	--	--	--	9,315	1,000	Pond 1
4/22/2025	10:00:00 AM	00:10:00	1:00:00	890	348.80	172.15	2.6	156,700	8.17	0.419	1.9	18.36	78.50	9,324	1,000	Pond 1
4/22/2025	10:15:00 AM	00:15:00	1:15:00	980	349.75	173.10	2.8	--	8.22	0.412	2.0	18.15	80.00	9,338	1,000	Pond 1
4/22/2025	10:30:00 AM	00:15:00	1:30:00	1,000	350.54	173.89	2.9	186,400	8.20	0.408	1.9	18.61	85.70	9,353	1,000	Pond 1
4/22/2025	10:45:00 AM	00:15:00	1:45:00	973	351.40	174.75	2.8	201,000	8.44	0.397	2.3	18.83	808.00	9,368	1,000	Pond 1
4/22/2025	11:00:00 AM	00:15:00	2:00:00	867	351.85	175.20	2.5	214,000	8.56	0.417	2.0	19.43	78.50	9,381	1,000	Pond 1
<b>Step 3</b>																
4/22/2025	11:00:30 AM	00:00:30	0:00:00	--	365.55	188.90		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:01:00 AM	00:00:30	0:01:00	--	367.90	191.25		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:01:30 AM	00:00:30	0:01:30	--	369.39	192.74		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:02:00 AM	00:00:30	0:02:00	--	370.20	193.55		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:02:30 AM	00:00:30	0:02:30	--	370.53	193.88		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:03:00 AM	00:00:30	0:03:00	--	370.93	194.28		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:03:30 AM	00:00:30	0:03:30	--	371.08	194.43		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:04:00 AM	00:00:30	0:04:00	--	371.18	194.53		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:04:30 AM	00:00:30	0:04:30	--	371.28	194.63		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:05:00 AM	00:00:30	0:05:00	--	371.38	194.73		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:06:00 AM	00:01:00	0:06:00	--	371.54	194.89		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:07:00 AM	00:01:00	0:07:00	--	371.67	195.02		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:08:00 AM	00:01:00	0:08:00	--	372.00	195.35		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:09:00 AM	00:01:00	0:09:00	--	372.06	195.41		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:10:00 AM	00:01:00	0:10:00	--	372.38	195.73		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:15:00 AM	00:05:00	0:15:00	1,233	372.92	196.27	3.3	232,500.00	8.09	0.432	3.5	21.07	74.50	9,400	1,000	Pond 1
4/22/2025	11:20:00 AM	00:05:00	0:20:00	1,100	373.63	196.98	2.9	238,000.00	--	--	--	--	--	9,405	1,000	Pond 1

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
4/22/2025	11:25:00 AM	00:05:00	0:25:00	1,040	374.14	197.49	2.8	243,200.00	--	--	--	--	--	9,410	1,000	Pond 1
4/22/2025	11:30:00 AM	00:05:00	0:30:00	1,080	375.74	199.09	2.9	248,600.00	8.00	0.433	3.0	20.65	74.00	9,416	1,000	Pond 1
4/22/2025	11:40:00 AM	00:10:00	0:40:00	--	375.45	198.80		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	11:45:00 AM	00:05:00	0:45:00	--	--	--		--	7.93	0.426	3.8	20.70	78.30	--	--	Pond 1
4/22/2025	11:50:00 AM	00:05:00	0:50:00	1,095	376.30	199.65	2.9	270,500.00	--	--	--	--	--	9,438	1,000	Pond 1
4/22/2025	12:00:00 PM	00:10:00	1:00:00	1,050	376.82	200.17	2.8	--	7.97	0.421	3.1	20.77	91.80	--	--	Pond 1
4/22/2025	12:15:00 PM	00:15:00	1:15:00	1,030	377.83	201.18	2.7	--	8.29	0.407	3.8	20.68	79.70	--	--	Pond 1
4/22/2025	12:30:00 PM	00:15:00	1:30:00	1,030	378.00	201.35	2.7	--	7.99	0.408	3.3	20.43	93.30	--	--	Pond 1
4/22/2025	12:45:00 PM	00:15:00	1:45:00	1,030	377.76	201.11	2.7	--	8.27	0.423	3.0	20.50	80.60	--	--	Pond 1
4/22/2025	1:00:00 PM	00:15:00	2:00:00	--	377.30	200.65		--	8.56	0.410	4.4	20.80	79.00	--	--	Pond 1
<b>Step 4</b>																
4/22/2025	1:00:30 PM	00:00:30	0:00:00	--	389.00	212.35		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:01:00 PM	00:00:30	0:01:00	--	391.85	215.20		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:01:30 PM	00:00:30	0:01:30	--	393.40	216.75		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:02:00 PM	00:00:30	0:02:00	--	392.52	215.87		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:02:30 PM	00:00:30	0:02:30	--	391.70	215.05		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:03:00 PM	00:00:30	0:03:00	--	391.00	214.35		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:03:30 PM	00:00:30	0:03:30	--	391.25	214.60		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:04:00 PM	00:00:30	0:04:00	--	392.00	215.35		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:04:30 PM	00:00:30	0:04:30	--	391.10	214.45		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:05:00 PM	00:00:30	0:05:00	--	391.10	214.45		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:06:00 PM	00:01:00	0:06:00	--	391.00	214.35		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:07:00 PM	00:01:00	0:07:00	--	392.50	215.85		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:08:00 PM	00:01:00	0:08:00	--	391.10	214.45		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:09:00 PM	00:01:00	0:09:00	--	391.25	214.60		--	--	--	--	--	--	--	--	Pond 1

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
4/22/2025	1:10:00 PM	00:01:00	0:10:00	--	390.90	214.25		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:15:00 PM	00:05:00	0:15:00	1,100	390.90	214.25	2.8	364,500	8.09	0.415	14.80	21.58	83.70	9,532	1,000	Pond 1
4/22/2025	1:20:00 PM	00:05:00	0:20:00	--	391.10	214.45		--	--	--	--	--	--	--	--	Pond 1
4/22/2025	1:25:00 PM	00:05:00	0:25:00	1,150	391.20	214.55	2.9	376,000	--	--	--	--	--	9,543	1,000	Pond 1
4/22/2025	1:30:00 PM	00:05:00	0:30:00	1,100	391.34	214.69	2.8	381,500	7.92	0.414	18.00	22.10	87.80	9,549	1,000	Pond 1
4/22/2025	1:40:00 PM	00:10:00	0:40:00	1,220	391.76	215.11	3.1	393,700	--	--	--	--	--	9,561	1,000	Pond 1
4/22/2025	1:45:00 PM	00:05:00	0:45:00	--	--	--		--	8.03	0.402	15.00	21.38	84.20	--	--	Pond 1
4/22/2025	1:50:00 PM	00:05:00	0:50:00	1,160	392.00	215.35	3.0	405,300	--	--	--	--	--	9,572	1,000	Pond 1
4/22/2025	2:00:00 PM	00:10:00	1:00:00	1,070	391.75	215.10	2.7	416,000	8.15	0.408	13.20	21.34	95.40	9,583	1,000	Pond 1
4/22/2025	2:15:00 PM	00:15:00	1:15:00	1,267	391.80	215.15	3.2	435,000	8.23	0.400	8.78	21.61	85.50	9,602	1,000	Pond 1
4/22/2025	2:30:00 PM	00:15:00	1:30:00	1,133	392.10	215.45	2.9	452,000	8.04	0.408	9.82	21.30	95.30	9,619	1,000	Pond 1
4/22/2025	2:45:00 PM	00:15:00	1:45:00	1,167	392.30	215.65	3.0	469,500	8.16	0.414	7.61	21.62	103.70	9,637	1,000	Pond 1
4/22/2025	3:00:00 PM	00:15:00	2:00:00	1,167	392.60	215.95	3.0	487,000	8.04	0.414	7.07	21.39	92.30	9,654	1,000	Pond 1
4/22/2025	3:30:00 PM	00:30:00	2:30:00	1,100	392.75	216.10	2.8	520,000	8.10	0.413	7.37	21.61	86.90	9,687	1,000	Pond 1
4/22/2025	4:00:00 PM	00:30:00	3:00:00	1,217	392.65	216.00	3.1	556,500	8.07	0.401	5.47	21.35	87.60	9,724	1,000	Pond 1
4/22/2025	4:30:00 PM	00:30:00	3:30:00	1,117	392.70	216.05	2.8	590,000	8.06	0.404	6.73	21.48	100.20	9,757	1,000	Pond 1
4/22/2025	5:00:00 PM	00:30:00	4:00:00	1,100	392.40	215.75	2.8	623,000	7.99	0.400	6.02	21.35	94.20	9,790	1,000	Pond 1
<b>Pump Off - Recovery</b>																
4/22/2025	5:00:30 PM	00:00:30	--	--	248.80	72.15	--	625,000.00	--	--	--	--	--	9,792	--	--
4/22/2025	5:01:00 PM	00:00:30	0:01:00	--	238.80	62.15	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:01:30 PM	00:00:30	0:01:30	--	235.80	59.15	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:02:00 PM	00:00:30	0:02:00	--	231.40	54.75	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:02:30 PM	00:00:30	0:02:30	--	228.05	51.40	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:03:00 PM	00:00:30	0:03:00	--	226.30	49.65	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:03:30 PM	00:00:30	0:03:30	--	223.60	46.95	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:04:00 PM	00:00:30	0:04:00	--	222.60	45.95	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:04:30 PM	00:00:30	0:04:30	--	220.30	43.65	--	--	--	--	--	--	--	--	--	--

Table 8  
Explorer Well Step-Drawdown Pumping Test

Date	Time	Pumping Data							Water Quality					Totalizer		Discharge Location
		Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Reading (gal)	Multiplier	
4/22/2025	5:05:00 PM	00:00:30	0:05:00	--	219.20	42.55	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:06:00 PM	00:01:00	0:06:00	--	215.50	38.85	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:07:00 PM	00:01:00	0:07:00	--	214.10	37.45	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:08:00 PM	00:01:00	0:08:00	--	212.00	35.35	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:09:00 PM	00:01:00	0:09:00	--	210.35	33.70	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:10:00 PM	00:01:00	0:10:00	--	209.00	32.35	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:15:00 PM	00:05:00	0:15:00	--	202.60	25.95	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:20:00 PM	00:05:00	0:20:00	--	199.04	22.39	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:25:00 PM	00:05:00	0:25:00	--	195.71	19.06	--	--	--	--	--	--	--	--	--	--
4/22/2025	5:30:00 PM	00:05:00	0:30:00	--	193.45	16.80	--	--	--	--	--	--	--	--	--	--

**Notes:**

-- = no data listed

**Units:**

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mV = millivolt

NTU = Nephelometric turbidity unit

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
<b>Pre 24-Hour Pump Test</b>																	
4/24/2025	9:05:00 AM	0:00	0:00	--	167.8	--	--	--	--	--	--	--	--	Pumping	9,792	1,000	Pond 1
4/24/2025	9:14:00 AM	00:09:00	0:09:00	500	--	--	--	4,500	--	--	--	--	--	Pumping	9,797	1,000	Pond 1
4/24/2025	9:19:00 AM	00:05:00	0:14:00	600	246.3	78.5	7.6	7,500	--	--	--	--	--	Pumping	9,800	1,000	Pond 1
4/24/2025	9:29:00 AM	00:10:00	0:24:00	560	249.6	81.8	6.8	13,100	8.27	0.433	8.05	17.57	53.1	Pumping	9,805	1,000	Pond 1
4/24/2025	9:45:00 AM	00:16:00	0:40:00	619	253.1	85.3	7.3	23,000	8.07	0.429	1.84	18.05	59	Pumping	9,815	1,000	Pond 1
4/24/2025	10:00:00 AM	00:15:00	0:55:00	533	253.3	85.5	6.2	31,000	8.07	0.429	1.17	18.28	73.9	Pumping	9,823	1,000	Pond 1
4/24/2025	10:15:00 AM	00:15:00	1:10:00	547	255.2	87.4	6.3	39,200	8.09	0.393	1.39	18.55	66.7	Pumping	9,831	1,000	Pond 1
4/24/2025	10:16:00 AM	00:01:00	1:11:00	800	--	--	--	40,000	--	--	--	--	--	Pumping	9,832	1,000	Pond 1
4/24/2025	11:45:00 AM	01:29:00	2:40:00	--	171.7	3.9	--	--	--	--	--	--	--	--	--	--	Pond 1
<b>Start of 24-Hour Pump Test</b>																	
4/28/2025	8:00:30 AM	00:00:30	00:00:30	--	174.4	--	--	--	--	--	--	--	--	Pumping	9,832	1,000	Pond
4/28/2025	8:01:00 AM	00:00:30	0:01:00	--	232.7	58.3	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:01:30 AM	00:00:30	0:01:30	--	235.8	61.4	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:02:00 AM	00:00:30	0:02:00	--	237.3	62.9	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:02:30 AM	00:00:30	0:02:30	--	238.2	63.8	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:03:00 AM	00:00:30	0:03:00	--	239.8	65.4	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:03:30 AM	00:00:30	0:03:30	--	241.7	67.3	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:04:00 AM	00:00:30	0:04:00	--	241.8	67.4	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:04:30 AM	00:00:30	0:04:30	--	242.5	68.1	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:05:00 AM	00:00:30	0:05:00	--	242.9	68.5	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:06:00 AM	00:01:00	0:06:00	--	244.04	69.64	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:07:00 AM	00:01:00	0:07:00	--	244.3	69.9	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:08:00 AM	00:01:00	0:08:00	--	244.2	69.8	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:09:00 AM	00:01:00	0:09:00	--	244.45	70.05	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:10:00 AM	00:01:00	0:10:00	--	245.32	70.92	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:15:00 AM	00:05:00	0:15:00	507	249.1	74.7	6.8	7,600	8.29	0.556	4.42	18.08	58	Pumping	9,840	--	Pond

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
4/28/2025	8:20:00 AM	00:05:00	0:20:00	--	251.31	76.91	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:25:00 AM	00:05:00	0:25:00	--	252	77.6	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/28/2025	8:30:00 AM	00:05:00	0:30:00	1,580	251.65	77.25	20.5	--	8.13	0.431	1.85	18.09	56.3	Pumping	9,848	1,000	Pond
4/28/2025	8:40:00 AM	00:10:00	0:40:00	--	254.45	80.05	--	--	--	--	--	--	--	Pumping	--	--	Pond
4/29/2025	8:45:00 AM	00:05:00	0:45:00	--	--	--	--	--	8.06	0.447	2	17.42	65.2	Pumping	--	--	Pond
4/28/2025	8:50:00 AM	00:05:00	0:50:00	420	256.1	81.7	5.1	26,000	--	--	--	--	--	Pumping	9,858	1,000	Pond
4/28/2025	9:00:00 AM	00:10:00	1:00:00	1,000	254.75	80.35	12.4	31,000	8.08	0.445	2.08	17.55	66.8	Pumping	9,863	1,000	Pond
4/28/2025	9:15:00 AM	00:15:00	1:15:00	533	285	110.6	4.8	39,000	8.12	0.441	1.78	17.63	69.1	Pumping	9,871	1,000	Pond
4/28/2025	9:30:00 AM	00:15:00	1:30:00	533	257.15	82.75	6.4	47,000	8.07	0.444	11.33	17.99	72.5	Pumping	9,879	1,000	Pond
4/28/2025	9:45:00 AM	00:15:00	1:45:00	467	258.7	84.3	5.5	54,000	8.10	0.442	1.23	18.25	74	Pumping	9,886	1,000	Pond
4/28/2025	10:00:00 AM	00:15:00	2:00:00	467	258.75	84.35	5.5	61,000	8.05	0.44	0.95	18.18	77.6	Pumping	9,893	1,000	Pond
4/28/2025	10:15:00 AM	00:15:00	2:15:00	533	259.1	84.7	6.3	69,000	8.10	0.441	1.09	18.34	78.9	Pumping	9,901	1,000	Pond
4/28/2025	10:30:00 AM	00:15:00	2:30:00	467	259.95	85.55	5.5	76,000	8.11	0.301	1.43	18.47	79.5	Pumping	9,908	1,000	Pond
4/28/2025	10:45:00 AM	00:15:00	2:45:00	533	261.1	86.7	6.2	84,000	8.09	0.441	0.86	18.05	80.9	Pumping	9,916	1,000	Pond
4/28/2025	11:00:00 AM	00:15:00	3:00:00	533	260.4	86	6.2	92,000	8.08	0.447	0.84	18.37	83.3	Pumping	9,924	1,000	Pond
4/28/2025	11:15:00 AM	00:15:00	3:15:00	467	263.2	88.8	5.3	99,000	8.08	0.448	0.8	18.2	83.4	Pumping	9,931	1,000	Pond
4/28/2025	11:30:00 AM	00:15:00	3:30:00	600	261.85	87.45	6.9	108,000	8.09	0.312	0.87	18.47	84.2	Pumping	9,940	1,000	Pond
4/28/2025	11:45:00 AM	00:15:00	3:45:00	333	262.9	88.5	3.8	113,000	8.00	0.446	0.82	18.95	89.9	Pumping	9,945	1,000	Pond
4/28/2025	12:00:00 PM	00:15:00	4:00:00	600	261.90	87.5	6.9	122,000	8.15	0.445	0.94	18.96	86	Pumping	9,954	1,000	Pond
4/28/2025	12:15:00 PM	00:15:00	4:15:00	400	262.25	87.85	4.6	128,000	8.00	0.446	1.2	19.08	88.1	Pumping	9,960	1,000	Pond
4/28/2025	12:30:00 PM	00:15:00	4:30:00	467	262.53	88.13	5.3	135,000	7.95	0.445	0.72	19.41	88.4	Pumping	9,967	1,000	Pond
4/28/2025	12:45:00 PM	00:15:00	4:45:00	533	262.98	88.58	6.0	143,000	7.94	0.446	0.94	19.36	89.7	Pumping	9,975	1,000	Pond
4/28/2025	1:00:00 PM	00:15:00	5:00:00	333	263	88.6	3.8	148,000	7.90	0.443	0.89	19.27	88.9	Pumping	9,980	1,000	Pond
4/28/2025	1:15:00 PM	00:15:00	5:15:00	600	263.1	88.7	6.8	157,000	7.93	0.446	0.9	19.72	92	Pumping	9,989	1,000	Pond
4/28/2025	1:30:00 PM	00:15:00	5:30:00	467	263.5	89.1	5.2	164,000	7.89	0.446	0.54	19.57	92.3	Pumping	9,996	1,000	Pond
4/28/2025	1:45:00 PM	00:15:00	5:45:00	533	264.1	89.7	5.9	172,000	7.83	0.447	0.53	20.06	96	Pumping	10,004	1,000	Pond
4/28/2025	2:00:00 PM	00:15:00	6:00:00	400	264.05	89.65	4.5	178,000	8.01	0.456	0.34	19.94	97	Pumping	10,010	1,000	Pond

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
4/28/2025	2:15:00 PM	00:15:00	6:15:00	533	264.95	90.55	5.9	186,000	7.83	0.446	5.06	20.26	98.9	Pumping	10,018	1,000	Pond
4/28/2025	2:30:00 PM	00:15:00	6:30:00	467	264.55	90.15	5.2	193,000	7.90	0.446	2.69	20.91	96	Pumping	10,025	1,000	Pond
4/28/2025	2:45:00 PM	00:15:00	6:45:00	533	264.78	90.38	5.9	201,000	7.98	0.447	2.17	20.23	98.5	Pumping	10,033	1,000	Pond
4/28/2025	3:00:00 PM	00:15:00	7:00:00	467	265.12	90.72	5.1	208,000	7.40	0.447	2.25	20.51	101.4	Pumping	10,040	1,000	Pond
4/28/2025	3:15:00 PM	00:15:00	7:15:00	467	264.55	90.15	5.2	215,000	7.65	0.447	2.06	20.28	106.2	Pumping	10,047	1,000	Pond
4/28/2025	3:30:00 PM	00:15:00	7:30:00	533	266.27	91.87	5.8	223,000	7.75	0.446	3.14	20.15	106.8	Pumping	10,055	1,000	Pond
4/28/2025	3:45:00 PM	00:15:00	7:45:00	467	265.66	91.26	5.1	230,000	7.46	0.447	3.39	20.66	110.8	Pumping	10,062	1,000	Pond
4/28/2025	4:00:00 PM	00:15:00	8:00:00	467	265.31	90.91	5.1	237,000	7.53	0.425	2.85	20.76	111.5	Pumping	10,069	1,000	Pond
4/28/2025	4:15:00 PM	00:15:00	8:15:00	467	265.6	91.2	5.1	244,000	7.94	0.443	5.09	20.87	105.9	Pumping	10,076	1,000	Pond
4/28/2025	4:30:00 PM	00:15:00	8:30:00	467	265.95	91.55	5.1	251,000	6.73	0.445	2.88	20.8	120.8	Pumping	10,083	1,000	Pond
4/28/2025	4:45:00 PM	00:15:00	8:45:00	533	265.65	91.25	5.8	259,000	7.28	0.444	2.11	21.36	125.2	Pumping	10,091	1,000	Pond
4/28/2025	5:00:00 PM	00:15:00	9:00:00	400	265.9	91.5	4.4	265,000	6.60	0.445	2.61	20.61	130.9	Pumping	10,097	1,000	Pond
4/28/2025	5:15:00 PM	00:15:00	9:15:00	533	265.95	91.55	5.8	273,000	8.50	0.446	1.73	21.46	109.9	Pumping	10,105	1,000	Pond
4/28/2025	5:30:00 PM	00:15:00	9:30:00	433	266.14	91.74	4.7	279,500	7.88	0.421	1.96	21.98	103.4	Pumping	10,112	1,000	Pond
4/28/2025	5:45:00 PM	00:15:00	9:45:00	567	266.3	91.9	6.2	288,000	8.14	0.426	1.8	21.05	87.8	Pumping	10,120	1,000	Pond
4/28/2025	6:00:00 PM	00:15:00	10:00:00	400	266.91	92.51	4.3	294,000	8.13	0.424	2.47	20.6	81.6	Pumping	10,126	1,000	Pond
4/28/2025	6:15:00 PM	00:15:00	10:15:00	473	266.54	92.14	5.1	301,100	8.16	0.438	1.36	20.25	83.4	Pumping	10,133	1,000	Pond
4/28/2025	6:30:00 PM	00:15:00	10:30:00	480	266.8	92.4	5.2	308,300	8.36	0.425	1.05	19.18	82.5	Pumping	10,140	1,000	Pond
4/28/2025	6:45:00 PM	00:15:00	10:45:00	480	266.68	92.28	5.2	315,500	8.20	0.423	1	18.66	85.2	Pumping	10,148	1,000	Pond
4/28/2025	7:00:00 PM	00:15:00	11:00:00	487	266.81	92.41	5.3	322,800	8.02	0.422	1.02	18.51	88.9	Pumping	10,155	1,000	Pond
4/28/2025	7:15:00 PM	00:15:00	11:15:00	480	267.25	92.85	5.2	330,000	7.96	0.424	0.98	18.1	106	Pumping	10,162	1,000	Pond
4/28/2025	7:30:00 PM	00:15:00	11:30:00	473	267.75	93.35	5.1	337,100	8.11	0.418	1.03	18	98.9	Pumping	10,169	1,000	Pond
4/28/2025	7:45:00 PM	00:15:00	11:45:00	480	267.09	92.69	5.2	344,300	8.15	0.413	0.89	17.68	104.8	Pumping	10,176	1,000	Pond
4/28/2025	8:00:00 PM	00:15:00	12:00:00	480	267.41	93.01	5.2	351,500	8.03	0.413	1.2	17.26	100	Pumping	10,184	1,000	Pond
4/28/2025	8:15:00 PM	00:15:00	12:15:00	487	267.44	93.04	5.2	358,800	8.06	0.407	0.99	16.91	111.3	Pumping	10,191	1,000	Pond
4/28/2025	8:30:00 PM	00:15:00	12:30:00	473	267.5	93.1	5.1	365,900	8.11	0.416	1.97	16.78	114.8	Pumping	10,198	1,000	Pond
4/28/2025	8:45:00 PM	00:15:00	12:45:00	473	267.6	93.2	5.1	373,000	8.17	0.414	1.98	16.38	103.5	Pumping	10,205	1,000	Pond
4/28/2025	9:00:00 PM	00:15:00	13:00:00	480	267.6	93.2	5.2	380,200	8.27	0.41	2.35	16.25	100	Pumping	10,212	1,000	Pond
4/28/2025	9:15:00 PM	00:15:00	13:15:00	487	267.86	93.46	5.2	387,500	8.19	0.42	2.13	16.25	104.4	Pumping	10,220	1,000	Pond
4/28/2025	9:30:00 PM	00:15:00	13:30:00	480	268.15	93.75	5.1	394,700	8.20	0.413	1.91	16.28	103.5	Pumping	10,227	1,000	Pond

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
4/28/2025	9:45:00 PM	00:15:00	13:45:00	480	267.68	93.28	5.1	401,900	8.22	0.421	1.61	16.08	104.1	Pumping	10,234	1,000	Pond
4/28/2025	10:00:00 PM	00:15:00	14:00:00	473	268.13	93.73	5.0	409,000	8.19	0.41	1.53	16.16	106.5	Pumping	10,241	1,000	Pond
4/28/2025	10:15:00 PM	00:15:00	14:15:00	480	269.98	95.58	5.0	416,200	8.24	0.412	0.85	15.96	105.3	Pumping	10,248	1,000	Pond
4/28/2025	10:30:00 PM	00:15:00	14:30:00	487	268.18	93.78	5.2	423,500	8.05	0.418	10	16.12	111	Pumping	10,256	1,000	Pond
4/28/2025	10:45:00 PM	00:15:00	14:45:00	467	268.41	94.01	5.0	430,500	8.28	0.418	0.63	16.47	108.5	Pumping	10,263	1,000	Pond
4/28/2025	11:00:00 PM	00:15:00	15:00:00	487	268.2	93.8	5.2	437,800	8.31	0.418	0.72	15.64	106.9	Pumping	10,270	1,000	Pond
4/28/2025	11:15:00 PM	00:15:00	15:15:00	480	268.33	93.93	5.1	445,000	8.26	0.42	0.87	16.58	107.1	Pumping	10,277	1,000	Pond
4/28/2025	11:30:00 PM	00:15:00	15:30:00	480	268.48	94.08	5.1	452,200	8.25	0.419	0.67	16.28	108.1	Pumping	10,284	1,000	Pond
4/28/2025	11:45:00 PM	00:15:00	15:45:00	487	269.21	94.81	5.1	459,500	8.28	0.416	0.79	15.69	107.8	Pumping	10,292	1,000	Pond
4/29/2025	12:00:00 AM	00:15:00	16:00:00	467	268.72	94.32	4.9	466,500	8.24	0.415	0.68	16.55	107.3	Pumping	10,299	1,000	Pond
4/29/2025	12:15:00 AM	00:15:00	16:15:00	493	268.62	94.22	5.2	473,900	8.28	0.414	1.02	15.65	108	Pumping	10,306	1,000	Pond
4/29/2025	12:30:00 AM	00:15:00	16:30:00	473	268.98	94.58	5.0	481,000	8.13	0.408	0.82	15.83	109.2	Pumping	10,313	1,000	Pond
4/29/2025	12:45:00 AM	00:15:00	16:45:00	473	268.93	94.53	5.0	488,100	8.29	0.413	0.89	16.08	107.4	Pumping	10,320	1,000	Pond
4/29/2025	1:00:00 AM	00:15:00	17:00:00	487	269.3	94.9	5.1	495,400	8.26	0.418	1.02	16.41	108.4	Pumping	10,327	1,000	Pond
4/29/2025	1:15:00 AM	00:15:00	17:15:00	493	269.76	95.36	5.2	502,800	8.26	0.42	1.06	16.56	108.1	Pumping	10,335	1,000	Pond
4/29/2025	1:30:00 AM	00:15:00	17:30:00	480	269.14	94.74	5.1	510,000	8.26	0.413	1.16	16.41	109.1	Pumping	10,342	1,000	Pond
4/29/2025	1:45:00 AM	00:15:00	17:45:00	467	269.3	94.9	4.9	517,000	8.27	0.409	1.5	16.47	108.2	Pumping	10,349	1,000	Pond
4/29/2025	2:00:00 AM	00:15:00	18:00:00	480	269.2	94.8	5.1	524,200	8.27	0.404	378	16.73	109.1	Pumping	10,356	1,000	Pond
4/29/2025	2:15:00 AM	00:15:00	18:15:00	493	269.5	95.1	5.2	531,600	8.31	0.415	1.31	16.42	108.3	Pumping	10,364	1,000	Pond
4/29/2025	2:30:00 AM	00:15:00	18:30:00	480	269.85	95.45	5.0	538,800	8.34	0.413	1.51	15.55	109	Pumping	10,371	1,000	Pond
4/29/2025	2:45:00 AM	00:15:00	18:45:00	480	269.69	95.29	5.0	546,000	8.30	0.409	0.69	16.31	109.7	Pumping	10,378	1,000	Pond
4/29/2025	3:00:00 AM	00:15:00	19:00:00	467	269.44	95.04	4.9	553,000	8.20	0.398	0.74	15.89	111.4	Pumping	10,385	1,000	Pond
4/29/2025	3:15:00 AM	00:15:00	19:15:00	493	269.53	95.13	5.2	560,400	8.31	0.416	0.7	15.58	109	Pumping	10,392	1,000	Pond
4/29/2025	3:30:00 AM	00:15:00	19:30:00	480	269.51	95.11	5.0	567,600	8.30	0.409	0.49	15.89	108.7	Pumping	10,400	1,000	Pond
4/29/2025	3:45:00 AM	00:15:00	19:45:00	493	269.65	95.25	5.2	575,000	8.30	0.404	0.5	16.18	110.2	Pumping	10,407	1,000	Pond
4/29/2025	4:00:00 AM	00:15:00	20:00:00	467	270.85	96.45	4.8	582,000	8.32	0.4	0.39	16.08	108.6	Pumping	10,414	1,000	Pond
4/29/2025	4:15:00 AM	00:15:00	20:15:00	500	269.67	95.27	5.2	589,500	8.28	0.404	0.41	16.36	109.4	Pumping	10,422	1,000	Pond

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
4/29/2025	4:30:00 AM	00:15:00	20:30:00	<b>Spinner Survey Test &amp; Collecting Analytical Sample</b>													
4/29/2025	4:45:00 AM	00:15:00	20:45:00														
4/29/2025	5:00:00 AM	00:15:00	21:00:00														
4/29/2025	5:15:00 AM	00:15:00	21:15:00														
4/29/2025	5:30:00 AM	00:15:00	21:30:00														
4/29/2025	5:45:00 AM	00:15:00	21:45:00														
4/29/2025	6:00:00 AM	00:15:00	22:00:00														
4/29/2025	6:15:00 AM	00:15:00	22:15:00														
4/29/2025	6:30:00 AM	00:15:00	22:30:00	493	270.53	96.13	5.1	656,000	8.28	0.405	0.9	16.75	104.2	Pumping	10,488	1,000	Pond
4/29/2025	6:45:00 AM	00:15:00	22:45:00	333	270.9	96.5	3.5	661,000	8.20	0.407	1.222	17.8	108.1	Pumping	10,493	1,000	Pond
4/29/2025	7:00:00 AM	00:15:00	23:00:00	600	270.43	96.03	6.2	670,000	8.22	0.406	0.75	17.6	108.5	Pumping	10,502	1,000	Pond
4/29/2025	7:15:00 AM	00:15:00	23:15:00	400	270.24	95.84	4.2	676,000	8.20	0.406	0.84	17.49	107.4	Pumping	10,508	1,000	Pond
4/29/2025	7:30:00 AM	00:15:00	23:30:00	467	270.15	95.75	4.9	683,000	8.14	0.444	0.82	18.55	109.5	Pumping	10,515	1,000	Pond
4/29/2025	7:45:00 AM	00:15:00	23:45:00	333	270.12	95.72	3.5	688,000	8.20	0.443	0.91	17.52	108.3	Pumping	10,520	1,000	Pond
4/29/2025	8:00:00 AM	00:15:00	0:00:00	467	270.3	95.9	4.9	695,000	8.19	0.402	0.98	17.95	107.2	Pumping	10,527	1,000	Pond
<b>Pump Off - Recovery</b>																	
4/29/2025	8:01:00 AM	0.00	0.00	--	190.6	16.2	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:02:00 AM	00:01:00	0:01:00	--	198.3	23.9	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:03:00 AM	00:01:00	0:02:00	--	200.8	26.4	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:04:00 AM	00:01:00	0:03:00	--	201.5	27.1	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:05:00 AM	00:01:00	0:04:00	--	201.75	27.35	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:06:00 AM	00:01:00	0:05:00	--	201.3	26.9	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:07:00 AM	00:01:00	0:06:00	--	200.8	26.4	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:08:00 AM	00:01:00	0:07:00	--	200.3	25.9	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:09:00 AM	00:01:00	0:08:00	--	200.15	25.75	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:10:00 AM	00:01:00	0:09:00	--	199.7	25.3	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:20:00 AM	00:10:00	0:19:00	--	196.3	21.9	--	--	--	--	--	--	--	--	--	--	--

Table 9  
Explorer Well - Constant Rate Pumping Test

Pumping Data									Water Quality						Totalizer		Discharge Location
Date	Time	Step Run (minutes)	Total Step Run (minutes)	Flow Rate (gpm)	Depth to Water (ft-btoc)	Drawdown (ft)	Specific Capacity (gpm/ft of drawdown)	Total Water Removed (gal)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp. (C )	ORP (mV)	Airlift / Pumping	Amount (gal)	Multiplier	Tanks/ Pond 1
4/29/2025	8:30:00 AM	00:10:00	0:29:00	--	194.1	19.7	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:40:00 AM	00:10:00	0:39:00	--	192.45	18.05	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	8:50:00 AM	00:10:00	0:49:00	--	191.25	16.85	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	9:00:00 AM	00:10:00	0:59:00	--	190.2	15.8	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	9:15:00 AM	00:15:00	1:14:00	--	188.9	14.5	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	9:30:00 AM	00:15:00	1:29:00	--	187.9	13.5	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	9:45:00 AM	00:15:00	1:44:00	--	187.5	13.1	--	--	--	--	--	--	--	--	--	--	--
4/29/2025	10:00:00 AM	00:15:00	1:59:00	--	186.4	12	--	--	--	--	--	--	--	--	--	--	--

**Notes:**

-- = no data listed

**Units:**

C° = Celsius

ft-btoc = feet below top of casing

gal = gallons

gpm = gallons per minute

mg/L= milligrams per Liter

mV = millivolt

NTU = Nephelometric turbidity unit

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
Anions, Ion Chromatography, General Chemistry	Acrylamide	In-House Method	---	µg/L	< 0.1
	Bromate	317	10.0 <sup>1</sup>	µg/L	< 1
	Chloride	300.0	250.0 <sup>2</sup>	mg/L	<b>21</b>
	Chlorine dioxide, Residual	4500 ClO2 D	0.8 (as ClO <sub>2</sub> ) <sup>1</sup>	mg/L	< 0.24
	Chlorine, Total Residual	SM 4500 Cl G	4.0 (as Cl <sub>2</sub> ) <sup>1</sup>	mg/L	< 0.05
	Chlorite	300.0	1,000.0 <sup>1</sup>	µg/L	< 10
	Color, Apparent	SM 2120B	15.0 <sup>2</sup>	Color Units	< 2
	Cyanide, Total	335.4	150.0 <sup>1</sup>	mg/L	< 0.005
	Diquat	549.2	20.0 <sup>1</sup>	µg/L	< 0.39
	E. Coli	9223B	---	MPN/100mL	< 1
	Endothall	548.1	100.0 <sup>1</sup>	µg/L	< 5
	Fluoride	SM 4500 F C	2.0 <sup>5</sup>	mg/L	<b>0.74</b>
	Glyphosate	547	700.0 <sup>1</sup>	µg/L	< 6
	Heterotrophic Plate Count	9215B	---	CFU/mL	<b>677</b>
	Hexavalent Chromium (CrVI)	218.7	10.0 <sup>1</sup>	µg/L	<b>1.2</b>
	Langelier Index	SM 2330B	---	LangSU	<b>0.70</b>
	Methylene Blue Active Substances (MBAS)	SM 5540C	0.5 <sup>2</sup>	mg/L	< 0.1
	Nitrate as Nitrogen (N)	300.0	10.0 <sup>1</sup>	mg/L	<b>1.3</b>
	Nitrite as Nitrogen (N)	300.0	1.0 <sup>1</sup>	mg/L	< 0.05
	Odor	SM 2150B	3.0 <sup>2</sup>	T.O.N.	<b>1.0</b>
	Perchlorate	331.0	6.0 <sup>1</sup>	µg/L	<b>4.9</b>
	pH	SM 4500 H+ B	6.5 - 8.5 <sup>5</sup>	SU	<b>8.1 HF</b>
	Specific Conductance	SM 2510B	900.0 <sup>2</sup>	µmhos/cm	<b>490</b>
	Sulfate	300.0	250.0 <sup>2</sup>	mg/L	<b>35</b>
Total Alkalinity	SM 2320B	---	mg/L	<b>190</b>	
Total Coliform	9223B	---	MPN/100mL	< 1	
Total Dissolved Solids	SM 2540C	500.0 <sup>2</sup>	mg/L	<b>290</b>	
Turbidity	180.1	5.0 <sup>2</sup>	NTU	<b>0.35</b>	
Herbicides	2,4,5-TP (Silvex)	515.4	50.0 <sup>1</sup>	µg/L	< 0.1
	2,4-D	515.4	70.0 <sup>1</sup>	µg/L	< 0.1
	Bentazon	515.4	18.0 <sup>1</sup>	µg/L	< 0.5
	Dalapon	515.4	200.0 <sup>1</sup>	µg/L	< 1

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
Herbicides	Dinoseb	515.4	20.0 <sup>1</sup>	µg/L	< 0.2
	Pentachlorophenol	515.4	0.20 <sup>1</sup>	µg/L	< 0.04
	Picloram	515.4	500.0 <sup>1</sup>	µg/L	< 0.1
OCPs,PCBs, HAAs	Carbofuran	531.2	18.0 <sup>1</sup>	µg/L	< 0.5
	Chlordane	505	0.10 <sup>1</sup>	µg/L	< 0.1
	Dibromoacetic acid	6251B	0.20 <sup>3</sup>	µg/L	< 1
	Dichloroacetic acid	6251B	0.03 <sup>3</sup>	µg/L	< 1
	Monobromoacetic acid	6251B	25.0 <sup>3</sup>	µg/L	< 1
	Monochloroacetic acid	6251B	53.0 <sup>3</sup>	µg/L	< 2
	Oxamyl	531.2	50.0 <sup>1</sup>	µg/L	< 0.5
	PCB-1016	505	0.50 <sup>1</sup>	µg/L	< 0.07
	PCB-1221	505	0.50 <sup>1</sup>	µg/L	< 0.1
	PCB-1232	505	0.50 <sup>1</sup>	µg/L	< 0.1
	PCB-1242	505	0.50 <sup>1</sup>	µg/L	< 0.1
	PCB-1248	505	0.50 <sup>1</sup>	µg/L	< 0.1
	PCB-1254	505	0.50 <sup>1</sup>	µg/L	< 0.1
	PCB-1260	505	0.50 <sup>1</sup>	µg/L	< 0.07
	Polychlorinated biphenyls, Total	505	0.50 <sup>1</sup>	µg/L	< 0.1
	Total Haloacetic Acids 5	6251B	60.0 <sup>1</sup>	µg/L	< 2
Toxaphene	505	3.0 <sup>1</sup>	µg/L	< 0.5	
Trichloroacetic acid	6251B	0.10 <sup>3</sup>	µg/L	< 1	
Radionuclides	13C-2,3,7,8-TCDD	1613B	200,000,000.0 <sup>3</sup>	pg/L	<b>1,200</b>
	2,3,7,8-TCDD	1613B	200,000,000.0 <sup>3</sup>	pg/L	< 4.8
	Combined Radium 226 + 228	7500 Ra D	5.0 <sup>1</sup>	pCi/L	< 0.87
	Gross Alpha	7110B	15.0 <sup>1</sup>	pCi/L	<b>7.48</b>
	Gross Beta	7110B	50.0 <sup>1</sup>	pCi/L	<b>3.36</b>
	Radium-226	SM7500 Ra B	0.05 <sup>3</sup>	pCi/L	< 0.17
	Radium-228	SM7500 Ra D	0.02 <sup>3</sup>	pCi/L	< 0.87
	Strontium-90	905	8.0 <sup>1</sup>	pCi/L	< 0.474
	Tritium	906.0	20,000.0 <sup>1</sup>	pCi/L	< 331

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
Metals	Aluminum	200.8	1,000.0 <sup>1</sup>	µg/L	< 20
	Antimony	200.8	6.0 <sup>1</sup>	µg/L	< 1
Metals	Arsenic	200.8	10.0 <sup>1</sup>	µg/L	<b>2.9</b>
	Barium	200.8	1,000.0 <sup>1</sup>	µg/L	<b>50</b>
	Beryllium	200.8	4.0 <sup>1</sup>	µg/L	< 0.3
	Cadmium	200.8	5.0 <sup>1</sup>	µg/L	< 0.5
	Calcium	200.7	---	mg/L	<b>50</b>
	Chromium	200.8	50.0 <sup>1</sup>	µg/L	<b>1.9</b>
	Copper	200.8	1,000.0 <sup>2</sup>	µg/L	<b>2.7</b>
	Iron	200.7	0.3 <sup>2</sup>	mg/L	<b>0.021</b>
	Lead	200.8	15.0 <sup>1</sup>	µg/L	< 0.5
	Magnesium	200.7	---	mg/L	<b>13</b>
	Manganese	200.8	0.005 <sup>2</sup>	µg/L	< 2
	Mercury	200.8	2 <sup>1</sup>	µg/L	< 0.2
	Nickel	200.8	100 <sup>1</sup>	µg/L	< 1
	Potassium	200.7	---	mg/L	<b>2.4</b>
	Selenium	200.8	50.0 <sup>1</sup>	µg/L	< 2
	Silver	200.8	100 <sup>2</sup>	µg/L	< 0.5
	Sodium	200.7	---	mg/L	<b>33</b>
	Thallium	200.8	2.0 <sup>1</sup>	µg/L	< 0.3
Uranium	200.8	20.0 <sup>1</sup>	pCi/L	<b>7.3</b>	
Zinc	200.8	5000 <sup>2</sup>	µg/L	< 5	
SVOCs	Alachlor	525.2	2.0 <sup>1</sup>	µg/L	< 0.05
	Atrazine	525.2	1.0 <sup>1</sup>	µg/L	< 0.05
	Benzo[a]pyrene	525.2	0.20 <sup>1</sup>	µg/L	< 0.02
	Di(2-ethylhexyl)adipate	525.2	400.0 <sup>1</sup>	µg/L	< 0.59
	Di (2-ethylhexyl)phthalate	525.2	4.0 <sup>1</sup>	µg/L	< 0.59
	Endrin	525.2	2.0 <sup>1</sup>	µg/L	< 0.0099
	gamma-BHC (Lindane)	525.2	0.020 <sup>1</sup>	µg/L	< 0.0099
	Heptachlor	525.2	0.010 <sup>1</sup>	µg/L	< 0.0099
	Heptachlor epoxide	525.2	0.010 <sup>1</sup>	µg/L	< 0.0099

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
SVOCs	Hexachlorobenzene	525.2	1.0 <sup>1</sup>	µg/L	< 0.05
	Hexachlorocyclopentadiene	525.2	50.0 <sup>1</sup>	µg/L	< 0.05
	Methoxychlor	525.2	30.0 <sup>1</sup>	µg/L	< 0.05
	Molinate	525.2	20.0 <sup>1</sup>	µg/L	< 0.099
	Simazine	525.2	4.0 <sup>1</sup>	µg/L	< 0.05
	Thiobencarb	525.2	70.0 <sup>1</sup>	µg/L	< 0.099
VOCs	1,1,1-Trichloroethane	524.2	200.0 <sup>1</sup>	µg/L	< 0.5
	1,1,2,2-Tetrachloroethane	524.2	1.0 <sup>1</sup>	µg/L	< 0.5
	1,1,2-Trichloro-1,2,2-trifluoroethane	524.2	1,200.0 <sup>1</sup>	µg/L	< 0.5
	1,1,2-Trichloroethane	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	1,1-Dichloroethane	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	1,1-Dichloroethylene	524.2	6.0 <sup>1</sup>	µg/L	< 0.5
	1,2,3-Trichloropropane (1,2,3-TCP)	SRL 524M	0.01 <sup>1</sup>	µg/L	<b>0.013</b>
	1,2,4-Trichlorobenzene	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	1,2-Dichlorobenzene	524.2	600.0 <sup>1</sup>	µg/L	< 0.5
	1,2-Dichloroethane	524.2	0.50 <sup>1</sup>	µg/L	< 0.5
	1,2-Dichloroethene, Total	524.2	0.50 <sup>1</sup>	µg/L	< 0.5
	1,2-Dichloropropane	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	1,3-Dichloropropene, Total	524.2	0.50 <sup>1</sup>	µg/L	< 0.5
	1,4-Dichlorobenzene	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	Benzene	524.2	1.0 <sup>1</sup>	µg/L	< 0.5
	Bromodichloromethane	524.2	0.06 <sup>3</sup>	µg/L	< 0.5
	Bromoform	524.2	0.50 <sup>3</sup>	µg/L	< 0.5
	Carbon tetrachloride	524.2	0.50 <sup>1</sup>	µg/L	<b>3.6</b>
	Chloroform (Trichloromethane)	524.2	0.40 <sup>3</sup>	µg/L	<b>0.64</b>
	cis-1,2-Dichloroethylene	524.2	6.0 <sup>1</sup>	µg/L	< 0.5
	cis-1,3-Dichloropropene	524.2	0.50 <sup>1</sup>	µg/L	< 0.5
	Dibromochloromethane	524.2	0.10 <sup>3</sup>	µg/L	< 0.5
Dibromochloropropane (DBCP)	504.1	0.20 <sup>1</sup>	µg/L	< 0.01	
Dichloromethane	524.2	5.0 <sup>1</sup>	µg/L	< 0.5	
Ethylbenzene	524.2	300.0 <sup>1</sup>	µg/L	< 0.5	
Ethylene Dibromide (EDB)	504.1	0.50 <sup>1</sup>	µg/L	< 0.01	

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
VOCs	m,p-Xylenes	524.2	1,750.0 <sup>1</sup>	µg/L	< 0.5
	Methyl-tert-butyl Ether (MTBE)	524.2	13.0 <sup>1</sup>	µg/L	< 0.5
	Monochlorobenzene	524.2	70.0 <sup>1</sup>	µg/L	< 0.5
	o-Xylene	524.2	1,750.0 <sup>1</sup>	µg/L	< 0.5
	Styrene	524.2	100.0 <sup>1</sup>	µg/L	< 0.5
	Tetrachloroethylene	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	Toluene	524.2	150.0 <sup>1</sup>	µg/L	< 0.5
	trans-1,2-Dichloroethylene	524.2	10.0 <sup>1</sup>	µg/L	< 0.5
	trans-1,3-Dichloropropene	524.2	0.50 <sup>1</sup>	µg/L	< 0.5
	Trichloroethylene	524.2	5.0 <sup>1</sup>	µg/L	< 0.5
	Trichlorofluoromethane	524.2	150.0 <sup>1</sup>	µg/L	< 0.5
	Trihalomethanes, Total	524.2	80.0 <sup>1</sup>	µg/L	<b>0.64</b>
	Vinyl chloride	524.2	0.50 <sup>1</sup>	µg/L	< 0.3
Xylenes, Total	524.2	1,750.0 <sup>1</sup>	µg/L	< 0.5	
PFAS	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 537.1 V2	---	ng/L	< 2
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA 537.1 V2	---	ng/L	< 2
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	EPA 537.1 V2	---	ng/L	< 2
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	533	10.0 <sup>4</sup>	ng/L	< 2
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	EPA 537.1 V2	10.0 <sup>4</sup>	ng/L	< 2
	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA 537.1 V2	---	ng/L	< 2
	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorobutanesulfonic acid (PFBS)	533	---	ng/L	< 2
	Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorodecanoic acid (PFDA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorododecanoic acid (PFDoA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluoroheptanoic acid (PFHpA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorohexanesulfonic acid (PFHxS)	533	10.0 <sup>4</sup>	ng/L	< 2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 V2	10.0 <sup>4</sup>	ng/L	< 2	

Table 10  
Explorer Well Summary of Final Groundwater Analytical Results  
Title 22 Drinking Water Quality

Analyte Group	Analyte	Analytical Method <sup>1</sup>	Drinking Water Standards 2, 3, 4, 5, 6	Unit	Analytical Result
PFAS	Perfluorohexanoic acid (PFHxA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorononanoic acid (PFNA)	533	10.0 <sup>4</sup>	ng/L	< 2
	Perfluorononanoic acid (PFNA)	EPA 537.1 V2	10.0 <sup>4</sup>	ng/L	< 2
	Perfluorooctanesulfonic acid (PFOS)	533	0.01 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	< 2
	Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 V2	0.01 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	< 2
	Perfluorooctanoic acid (PFOA)	533	0.01 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	< 2
	Perfluorooctanoic acid (PFOA)	EPA 537.1 V2	0.01 <sup>3</sup> / 4.0 <sup>4</sup>	ng/L	< 2
	Perfluorotetradecanoic acid (PFTA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluorotridecanoic acid (PFTrDA)	EPA 537.1 V2	---	ng/L	< 2
	Perfluoroundecanoic acid (PFUnA)	EPA 537.1 V2	---	ng/L	< 2

**Notes:**

<sup>1</sup> United States Environmental Protection Agency (U.S. EPA) Analytical Methods or Standard Methods for the Examination of Water and Wastewater. For detailed information, see the Laboratory Report in Appendix F.

**Bolded** value indicates detection of the analyte above the Method Detection Limit (MDL)

Highlighted cell indicates value is above the following regulatory limits:

<sup>2</sup> California Primary Maximum Contaminant Level (CA Primary MCL), updated November, 2024, unless otherwise noted

<sup>3</sup> California Secondary Maximum Contaminant Level (CA SMCL), updated November, 2024, unless otherwise noted

<sup>4</sup> California Public Health Goal (CA PHG), updated November, 2024, unless otherwise noted

<sup>5</sup> U.S. EPA Maximum Contaminant Level (U.S. EPA MCL), updated November, 2024, unless otherwise noted

<sup>6</sup> U.S. EPA Secondary Maximum Contaminant Level (U.S. EPA SMCL), updated November, 2024, unless otherwise noted

< = Less than MDL

--- = Drinking Water Standard not listed for this analyte

HAAs = Haloacetic Acids

MDL = Method Detection Limit

OCPs = Organochlorine Pesticides

PCBs = Polychlorinated Biphenyls

PFAS = Perfluoroalkyl and Polyfluoroalkyl Substances

SVOCs = Semi-Volatile Organic Compounds

VOCs = Volatile Organic Compounds

**Qualifiers:**

HF = Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

**Units:**

µg/L = microgram per Liter

µmhos/cm = micromhos per centimeter

CFU/mL = colony-forming units per milliliter

Color Units

g = grams

LangSU = Langlier Saturation Index

mg/L = milligrams per liter

ng/L = nanogram per Liter

MPN/100mL = Most Probable Number per 100 milliliters

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

pg/L = picograms per liter

SU = Standard Units

T.O.N. = Threshold Odor Number

Table 11  
Manual Groundwater Measurements

Well Identifier	Ground Surface Elevation (ft MSL) (NGVD29)*	Northing *	Easting *	Approximate Distance from Explorer Well * (ft)	Direction from Explorer Well	Reference Point Description	Reference Point Offset (ft)	Reference Point Elevation (ft MSL) (NGVD29)*	Date Time	Depth to Water (ft bRPE)	Groundwater Elevation (ft aMSL) (NGVD29)	Additional Information
Well 52	1,080	34.196098 / 34°11'45.96"N	-118.167755 / 118°10'3.91"W	1,580	SW	Top of casing	3	1083	2/3/25 0:00	105	978	PWP Data
						Top of casing			4/14/25 11:00	138.98	944.02	Manual reading with Solinst WLM
						Top of casing			4/14/25 11:47	--	--	Deployed Transducer, 1-min readings
						Top of casing			5/1/25 14:30	136.95	946.05	Manual reading with Solinst WLM
						Top of casing			5/1/25 14:40	--	--	Removed Transducer
Arroyo Well	1,095	34.197632 / 34°11'51.47"N	-118.166977 / 118°10'1.13"W	974	SW	Top of casing	4.72	1099.72	4/9/25 0:00	327	772.72	PWP Data
						Top of casing			4/15/25 10:29	335.29	764.43	Manual reading with Solinst WLM
						Top of casing			4/15/25 12:15	334.2	765.52	Manual reading with Solinst WLM
						Top of casing			4/15/25 12:25	--	--	Deployed Transducer, 1-min readings
						Top of casing			5/1/25 13:20	308.29	791.43	Manual reading with Solinst WLM
						Top of casing			5/1/25 13:45	--	--	Removed Transducer
Behner Well (3-Monitoring Well Cluster)	MW381	34.201443 / 34°12'5.19"N	-118.165634 / 118° 9'56.27"W	480	NE	Top of casing	-0.33	1118.67	4/16/25 10:59	95.6	1023.07	Manual reading with Solinst WLM
						Top of casing			4/16/25 13:30	--	--	Deployed Transducer, 1-min readings
						Top of casing			4/30/25 11:28	96.67	1022	Manual reading with Solinst WLM
						Top of casing			5/1/25 10:16	96.55	1022.12	Manual reading with Solinst WLM
						Top of casing			5/1/25 17:45	--	--	Removed Transducer
	MW517	34.201443 / 34°12'5.19"N	-118.165634 / 118° 9'56.27"W	480	NE	Top of casing	-0.27	1118.73	4/16/25 10:59	190.4	928.33	Manual reading with Solinst WLM
						Top of casing			4/18/25 10:15	197.48	921.25	Manual reading with Solinst WLM
						Top of casing			4/18/25 10:30	--	--	Deployed Transducer, 1-min readings
						Top of casing			4/30/25 11:26	187.07	931.66	Manual reading with Solinst WLM
						Top of casing			5/1/25 10:22	185.22	933.51	Manual reading with Solinst WLM
	MW567	34.201443 / 34°12'5.19"N	-118.165634 / 118° 9'56.27"W	480	NE	Top of casing	-0.27	1118.73	4/16/25 10:59	196.96	921.77	Manual reading with Solinst WLM
						Top of casing			4/16/25 12:00	--	--	Deployed Transducer, 1-min readings
						Top of casing			4/30/25 11:30	189.15	929.58	Manual reading with Solinst WLM
						Top of casing			5/1/25 10:27	188.29	930.44	Manual reading with Solinst WLM
						Top of casing			5/1/25 17:00	--	--	Removed Transducer

Table 11  
Manual Groundwater Measurements

Well Identifier	Ground Surface Elevation (ft MSL) (NGVD29)*	Northing *	Easting *	Approximate Distance from Explorer Well * (ft)	Direction from Explorer Well	Reference Point Description	Reference Point Offset (ft)	Reference Point Elevation (ft MSL) (NGVD29)*	Date Time	Depth to Water (ft bRPE)	Groundwater Elevation (ft aMSL) (NGVD29)	Additional Information
Explorer Well	1,110	34.200153 / 34°12'0.55"N	-118.165901 / 118° 9'57.24"W		--	Top of pvc casing on pump head	2.16	1112.16	4/18/25 12:29	333.05	779.11	Manual reading with Solinst WLM
						Top of pvc casing on pump head			4/18/25 12:29	--	--	Deployed Transducer, 1-min readings
						Top of pvc casing on pump head			4/18/25 12:45	189.05	923.11	Manual reading with Solinst WLM
						Top of pvc casing on pump head			4/23/25 8:55	144.77	967.39	Manual reading with Solinst WLM
						Top of pvc casing on pump head			4/24/25 8:50	167.8	944.36	Manual reading with Solinst WLM
						Top of pvc casing on pump head			4/24/25 10:00	--	--	Removed Transducer
						Top of Sounding Tube	0.83	1110.83	4/24/25 11:45	171.67	939.16	Manual reading with Solinst WLM
						Top of Sounding Tube			4/24/25 12:10	--	--	Deployed Transducer in sounding Tube, 1-min readings
						Top of Sounding Tube			4/30/25 8:45	175.53	935.30	Manual reading with Solinst WLM
						Top of Sounding Tube			4/30/25 8:50	--	--	Removed Transducer
						Top of Sounding Tube			5/5/25 10:20	171.35	939.48	Manual reading with Solinst WLM

**Notes:**

\* Google Earth Northing/Easting Coordinates

aMSL - above MSL

bRPE - below Reference Point of Elevation

ft - Feet

min - Minute

MSL - Mean Sea Level

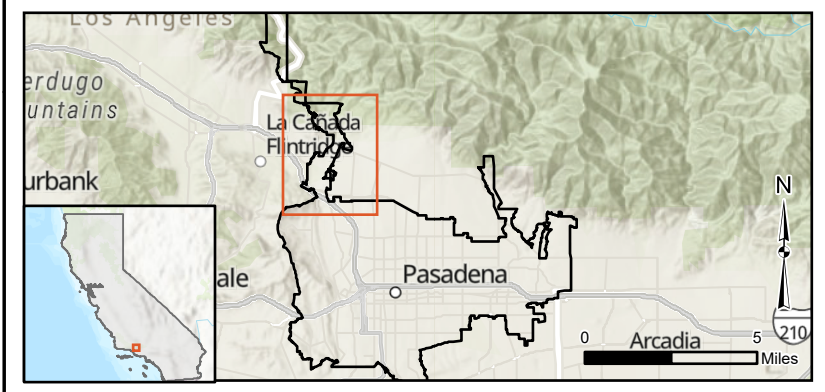
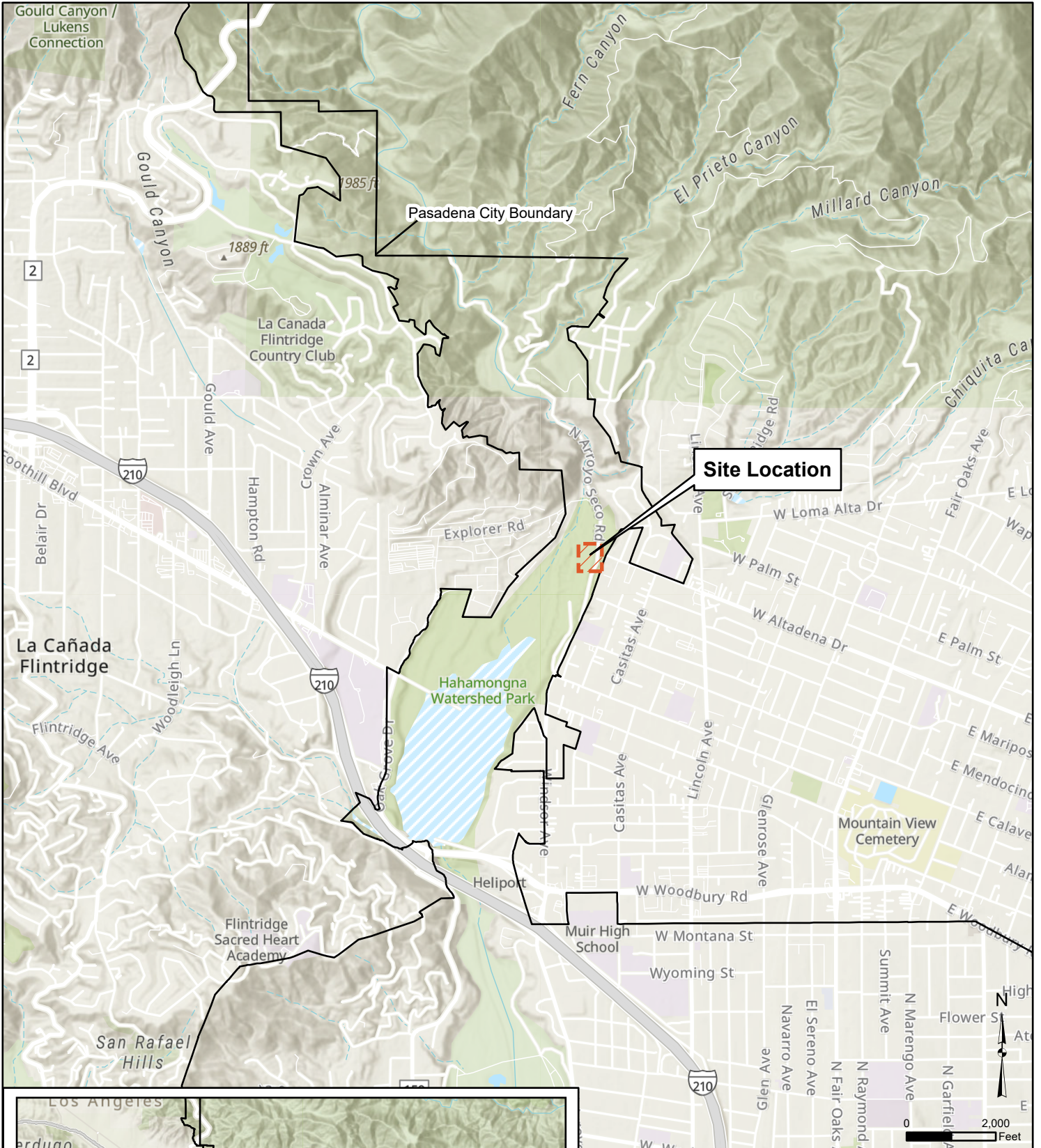
NGVD29 - National Geodetic Vertical Datum of 1929

WLM - Water Level Meter

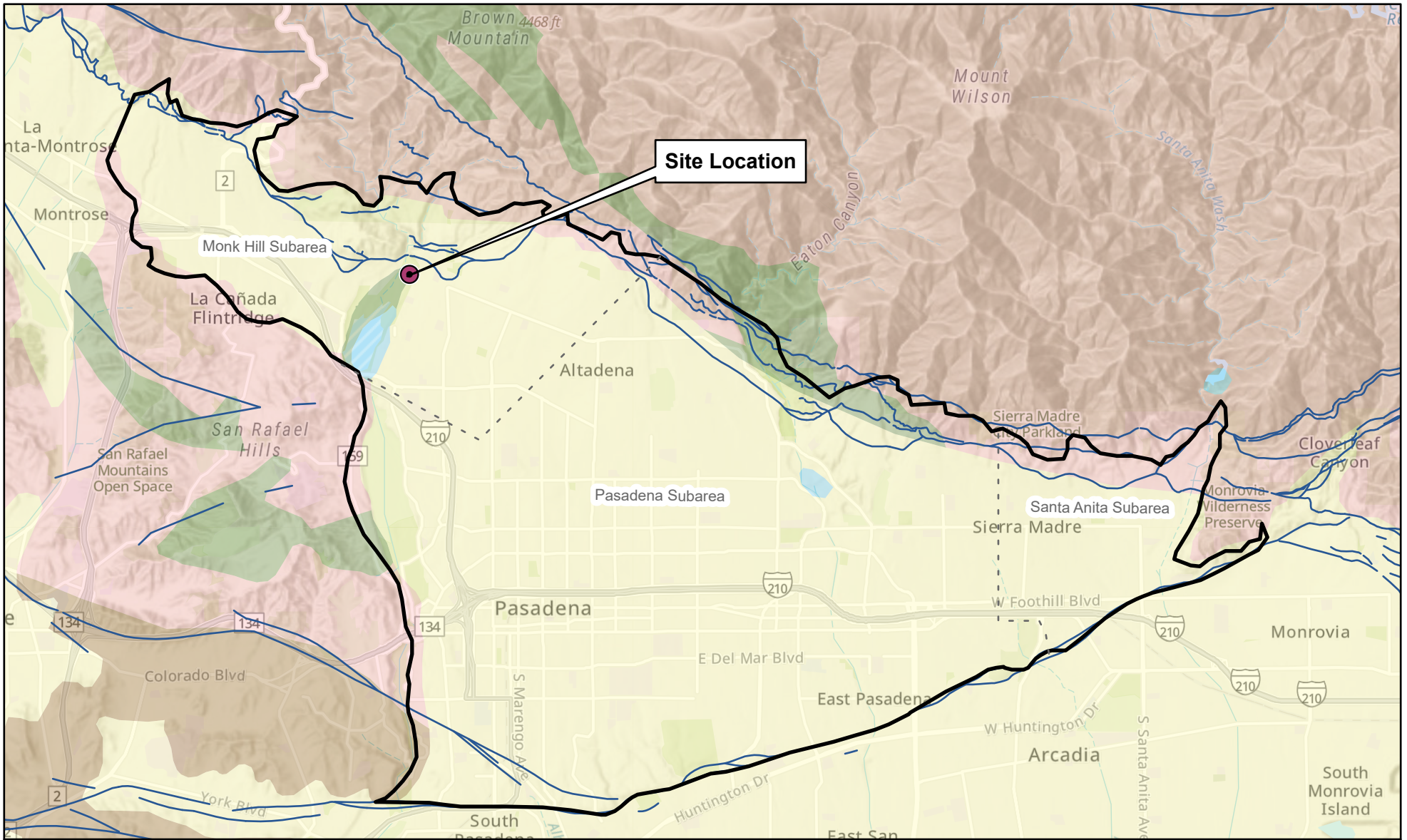
**Table 12**  
**Explorer Well Discharge Volume to Pond 1**

Discharge Period	Activity Description	Totalizer		Totalizer Multiplier	Gallons (approx.)
		Starting Value	Ending Value		
12/16/2024 – 12/18/2024	Pumping in Zone 2	80,382	86,432	10	60,500
12/19/2024	Pumping in Zone 3	86,432	91,459	10	50,270
02/02/2025 – 02/03/2025	Pumping in Zone 2A	91,761	95,765	10	40,040
02/05/2025 – 02/05/2025	Pumping in Zone 1A	95,798	98,903	10	31,050
03/29/2025 – 04/01/2025	Airlifting Development	98,918	152,975	10	540,568
4/14/2025	Mechanical Development	7,722	7,830	1,000	108,000
4/16/2025	Mechanical Development	7,848.5	8,117	1,000	268,500
4/17/2025	Mechanical Development	8,120.5	8,422	1,000	301,500
4/18/2025	Mechanical Development	8,425	8,791	1,000	366,000
4/21/2025	Mechanical Development	8,801	9,167	1,000	366,000
4/22/2024	Step Test	9,167	9,792	1,000	625,000
4/24/2024	Pre-Test Pumping	9,792	9,832	1,000	40,000
04/28/2025 – 04/29/2025	Constant Rate Test	9,833	10,527	1,000	694,400
<b>Total Discharge</b>					<b>3,491,828</b>

# FIGURES



<b>Site Location Map</b>		<b>Figure</b>  <b>1</b>
City of Pasadena, Water & Power Department Pasadena, California		
HPA110005	July 2025	



- Legend**
- Explorer Well Location
  - Raymond Basin
  - Quaternary Faults
  - Raymond Basin (Approximate) Subareas

- Igneous, intrusive
- Metamorphic, gneiss
- Sedimentary, clastic
- Unconsolidated, undifferentiated
- Water



**Geologic Setting Map**

City of Pasadena, Water & Power Department  
Pasadena, California

**Geosyntec**  
consultants

HPA110005

July 2025

**Figure**

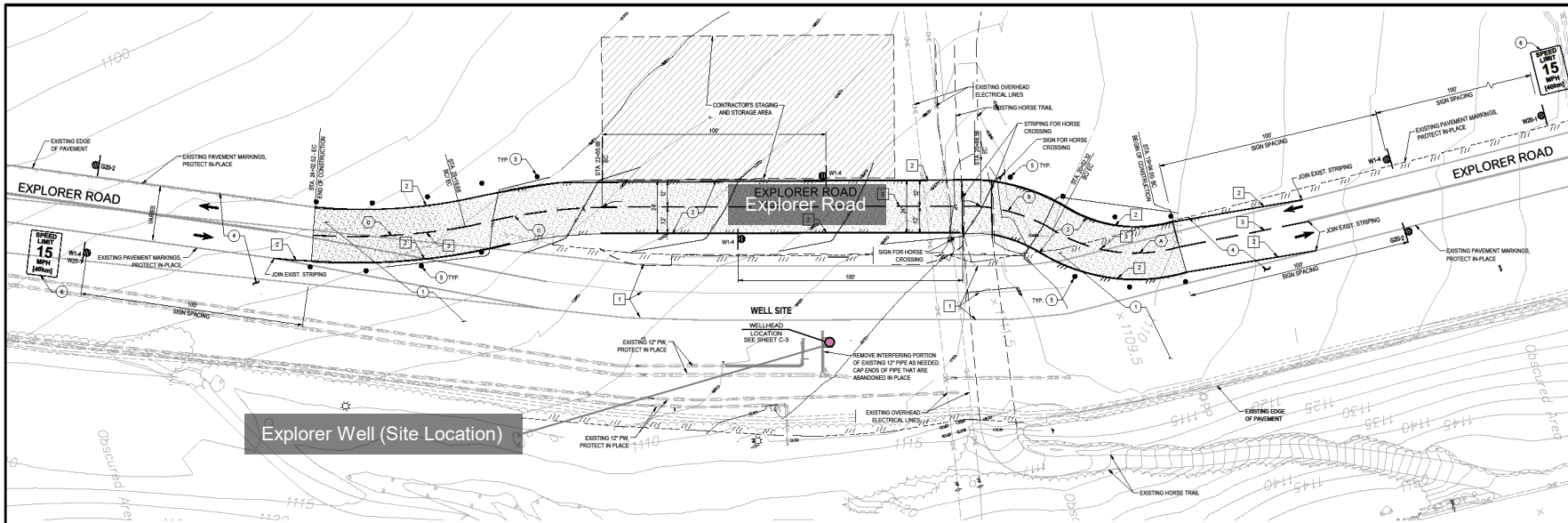
**2**



Name	Behner Well (MW-517)
Explorer Well	Arroyo Well
Behner Well (MW-567)	Well 52
Behner Well (MW-381)	Ventura Well

0 400 Feet

<b>Site Location Map</b>	
City of Pasadena, Water & Power Department Pasadena, California	
HPA110005	July 2025
<b>Figure</b> <b>3</b>	

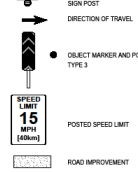


**Explorer Well (Site Location)**

**TRAFFIC CONTROL NOTES:**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES ACCORDING TO THE LATEST CALIFORNIA MUTCD TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO START OF WORK FOR ANY CONDITIONS NOT COVERED BY THE MUTCD.
- ALL OPEN TRENCHES SHALL BE COVERED WITH NON-SKID STEEL PLATES OR TEMPORARY ASPHALT PAVEMENT BEFORE AND AFTER WORK HOURS. WORK AREA SHALL BE ENCLOSED WITH TEMPORARY FENCE.
- ALL SIGNS, DELINEATORS, BARRICADES, ETC. SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS LATEST EDITION, THE CALIFORNIA DEPARTMENT OF TRANSPORTATION MUTCD PART 6 AND THE MUTCD LATEST EDITION. ALL BARRICADES SHALL BE EQUIPPED WITH FLASHING STEADY BURN WARNING LAMPS AT NIGHT. ALL CONES, DELINEATORS, BARRICADES AND SIGNS SHALL BE REFLECTORIZED. ALL TRAFFIC CONTROL SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY. ANY DEVICES NOT PART OF THE REQUIRED TRAFFIC CONTROL OR DETOURS SHALL BE REMOVED FROM THE VIEW OF THE TRAVELING PUBLIC IMMEDIATELY.
- NOTIFY PUBLIC WORKS DEPARTMENT AT LEAST 72 HOURS PRIOR TO ANY WORK IN THE RIGHT-OF-WAY.
- ANY REVISIONS TO THE TRAFFIC CONTROL PLANS OR REQUIREMENTS SHALL BE APPROVED BY THE ENGINEER AND CITY.
- NO MORE THAN 500 FEET OF ROADWAY SHALL BE CLOSED AT A TIME.
- ALL LANE CLOSURE OR REALIGN SIGNS SHALL BE REMOVED OR COVERED WHEN NEW LANES ARE OPEN.
- TEMPORARY SIGNING MAY BE MOUNTED ON WOODEN POSTS OR PORTABLE SUPPORTS UNLESS OTHERWISE INDICATED ON THE PLAN.
- FIVE FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OPEN EXCAVATION AND ADJACENT MOVING TRAFFIC LANE. OPEN TRENCHES WITH LESS THAN FIVE FEET OF CLEARANCE SHALL BE STEEL PLATED OR BACK FILLED IMMEDIATELY AFTER EXCAVATION.
- 30-32 "END ROAD WORK" SIGN, AS APPROPRIATE, SHALL BE PLACED AT THE END OF THE WORK ZONE.
- ALL BARRICADES SHALL BE TYPE "R" OR TYPE "B".
- ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) LATEST EDITION.
- THE CITY AND THE STATE PERMIT INSPECTOR RESERVE THE RIGHT TO REVISE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT.
- CONTRACTOR SHALL OBTAIN LANE CLOSURE PERMITS FOR ANY WORK IN THE CITY TO CLOSE ROAD.
- ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE PER CALTRANS STANDARD SPECIFICATIONS.
- DURING NON WORKING HOURS ALL TRENCHES WILL BE FAVED OR PLATED AND ALL TRAFFIC WILL BE RETURNED TO NORMAL PATTERNING AND ALL SIGNS AND BARRICADES WILL BE REMOVED.

**LEGEND:**

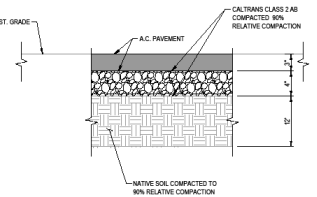


**SIGNS:**



**CENTER LINE CURVE DATA**

	RADIUS	DELTA	LENGTH
(A)	74.52'	45° 00' 00"	58.33'
(B)	75.00'	38° 00' 00"	34.29'
(C)	200.00'	13° 00' 00"	60.99'
(D)	278.13'	18° 00' 00"	85.84'



**Asphalt Concrete Section  
ASPHALT CONCRETE SECTION**

NOT TO SCALE

**ROAD CONSTRUCTION NOTES:**

- DEMOLISH AND REMOVE EXISTING PAVEMENT. SEE SHEET C-2
- CONSTRUCT 4" A.C. PAVEMENT OVER 4" C&G. SEE SECTION HEREON.
- NOT USED
- EXISTING A.C. PAVEMENT. PROTECT IN PLACE
- INSTALL OBJECT MARKER, TYPE 3, FIGURE 301 PER MUTCD, TYP.
- INSTALL SPEED LIMIT 15 TRAFFIC SIGN, MUTCD CODE R2-1

**ROAD STRIPING CONSTRUCTION NOTES:**

- REMOVE EXISTING ROAD STRIPING AS NECESSARY.
- PROVIDE 4" WHITE EDGE LINE STRIP, DETAIL 24 PER SPWMC STANDARD PLAN 170-G.
- PROVIDE 4" YELLOW CENTER LINE STRIP, DETAIL 1 PER SPWMC STANDARD PLAN 170-G.

**NOTE TO CONTRACTOR**

- CONTRACTOR SHALL NOT PLACE ANY CONSTRUCTION MATERIAL ON HORSE TRAIL AND MAINTAIN ACCESS ALL THE TIME.

FOR REFERENCE ONLY

	<b>REVISION</b> NO. DESCRIPTION DATE	APPROVED BY: C. SHEM HAMES RCE DATE APPROVED: DATE	PLANS PREPARED BY:  605 E. Huntington Drive Suite 205 Monrovia, CA 91016 Phone: 626.337.0588 Web: www.civiltec.com		DATE: APRIL 2024 SCALE: AS SHOWN DRAWN BY: J. MARTINEZ CHECKED BY: J. MARTINEZ DESIGNED BY: A. ESCAMILLA	<b>PASADENA WATER &amp; POWER</b> CITY OF PASADENA, CALIFORNIA EXPLORER WELL PROJECT DRILLING AND CONSTRUCTION TEMPORARY EXPLORER ROAD ALIGNMENT PHASE-I	SHEET NO. 6 OF 8 SHEETS C-4 WORK ORDER: 53609 FILE NUMBER: E-1801 REVISION:

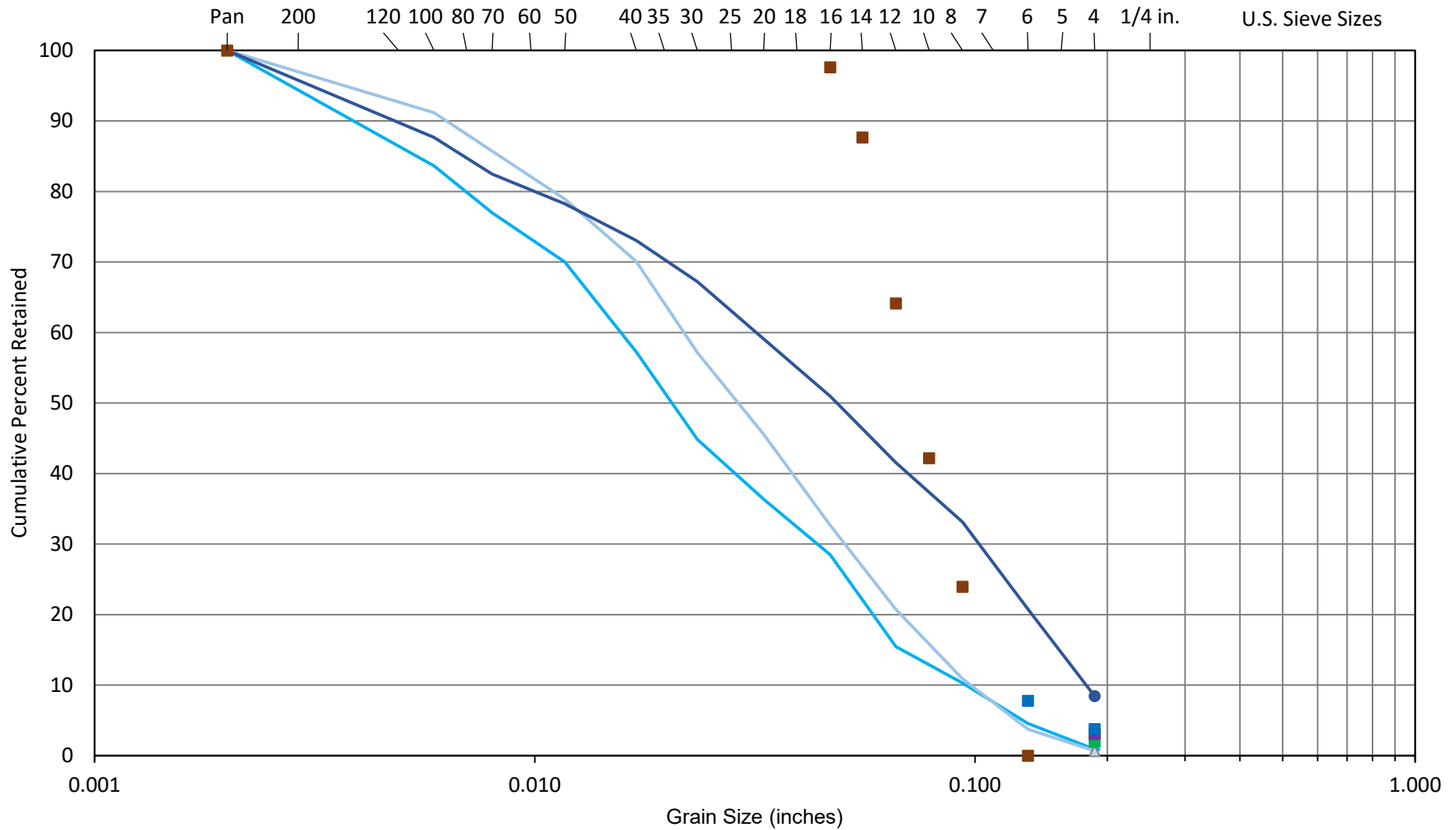
**Reference:**  
 Civiltec Engineering, Inc., for Pasadena Water and Power. Explorer Well Project, Drilling and Construction, Temporary Explorer Road Alignment. Phase I. Plates C-4. April 2024.

**Temporary Explorer Road Alignment Drawing**  
 City of Pasadena, Water & Power Department  
 Pasadena, California



FIGURE  
**4**

PROJECT NO: HPA110005 July 2025



Notes:  
Depth of Cuttings Sample

- Screen Size    —●— 370-380    —▲— 460-470    —■— 510-520
- 570-580    —■— 590-600    —●— 650-660    —■— Gravel Pack

**Explorer Well – Sieve Analysis**  
**City of Pasadena, Water & Power Department**  
**Pasadena, California**

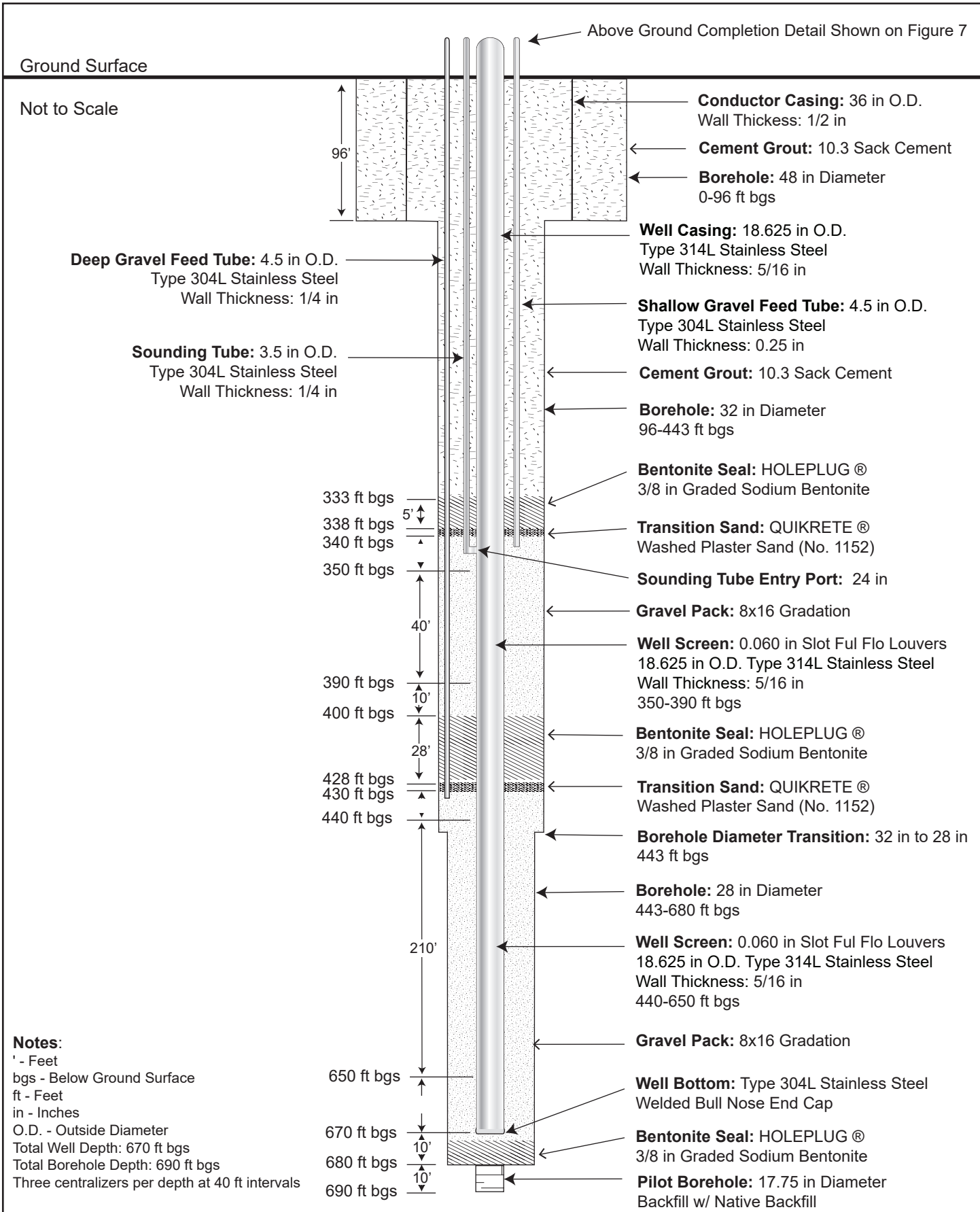


PROJECT NO: HPA110005

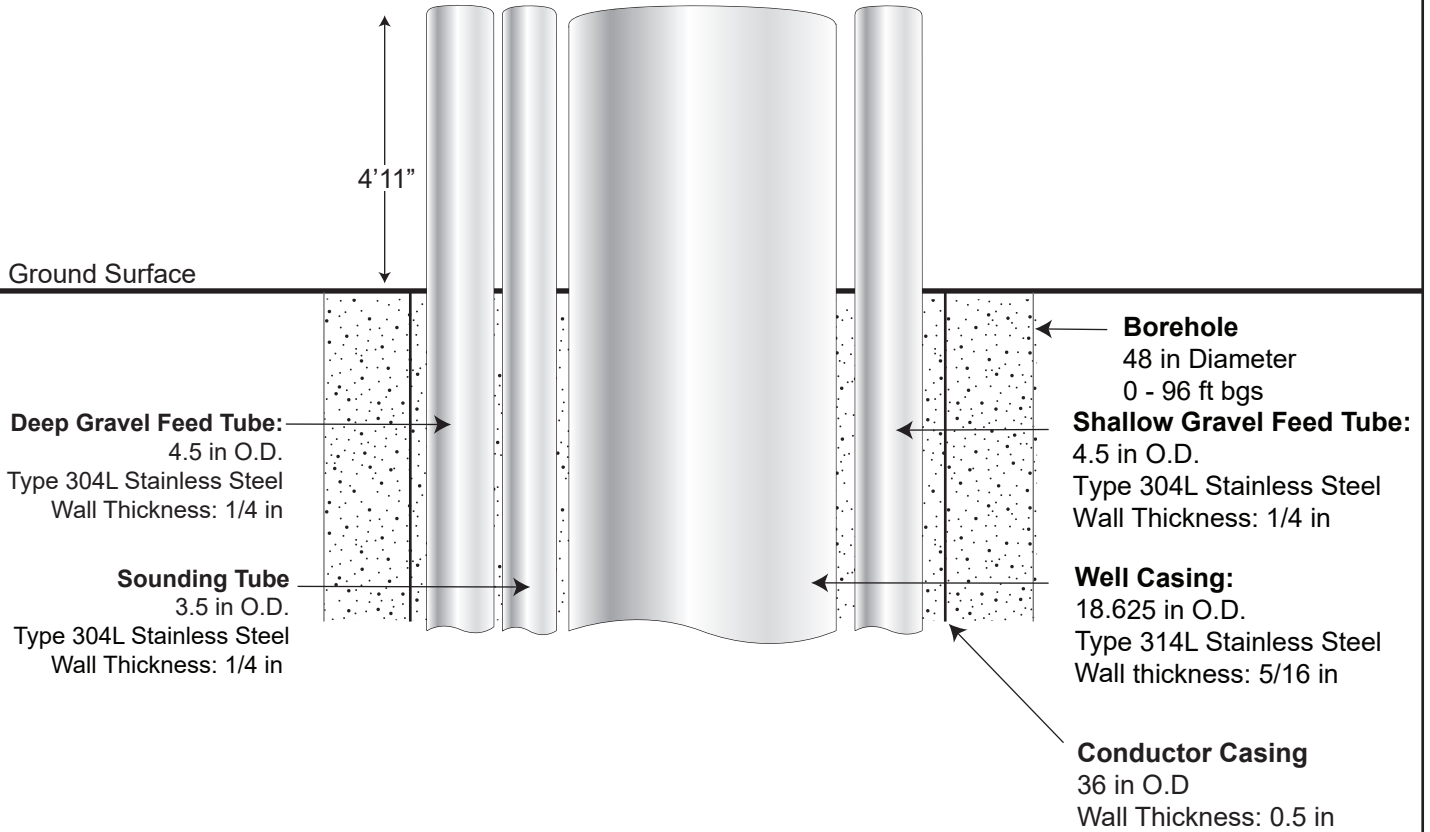
July 2025

FIGURE

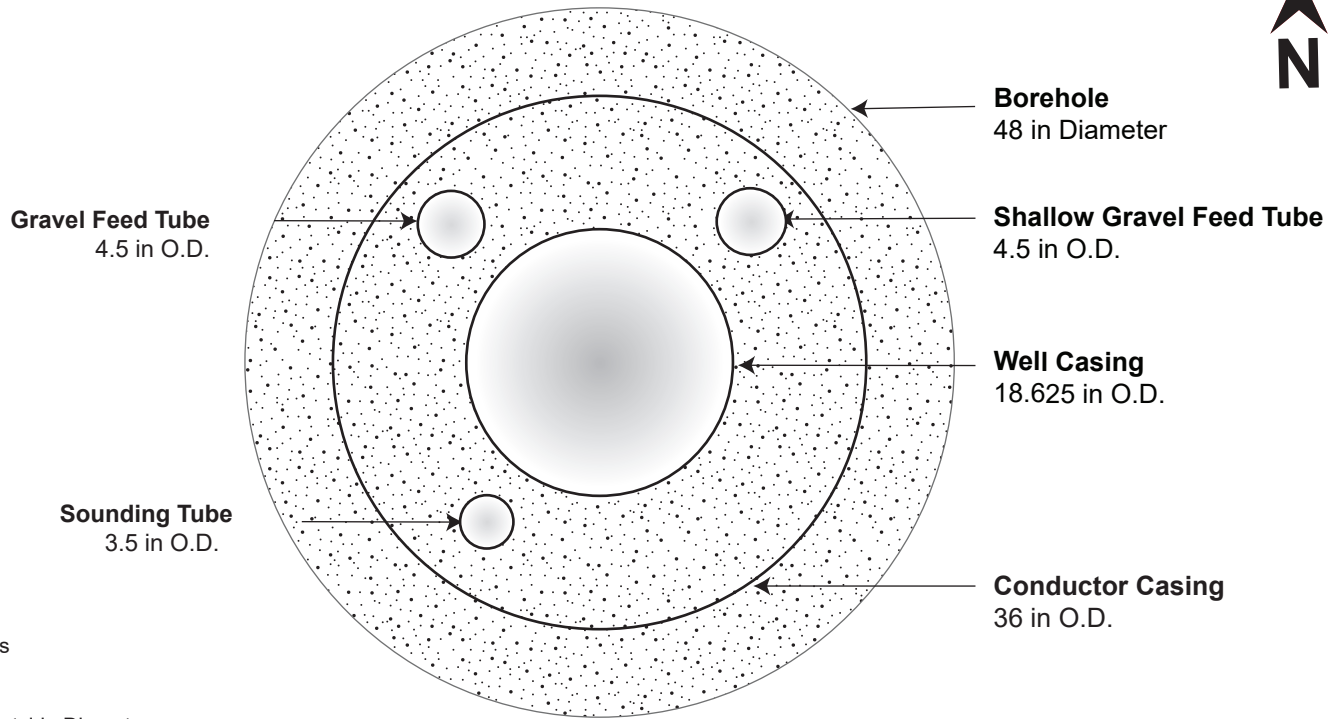
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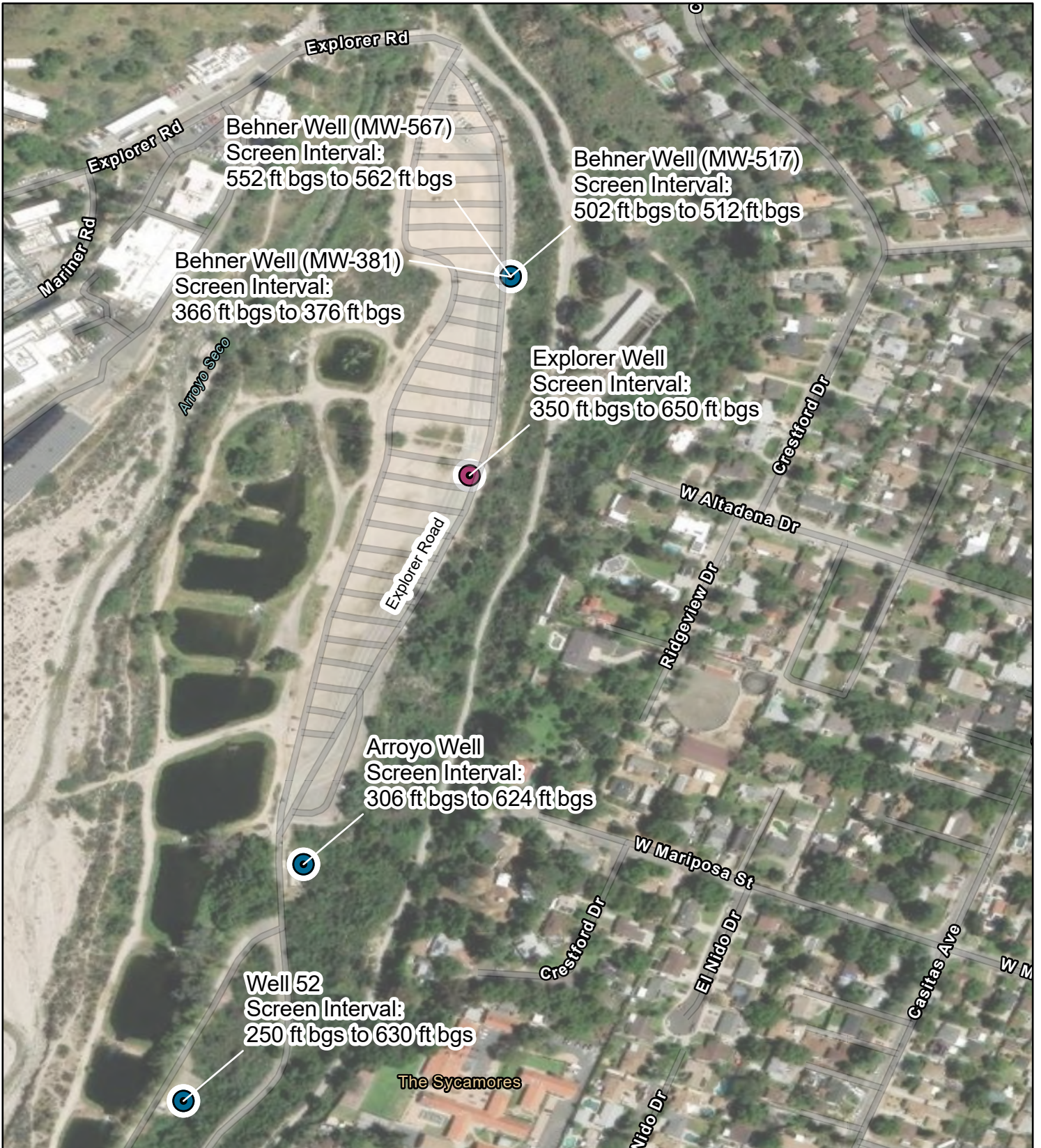


**Cross-Section View**  
Not to Vertical Scale



**Plan View**

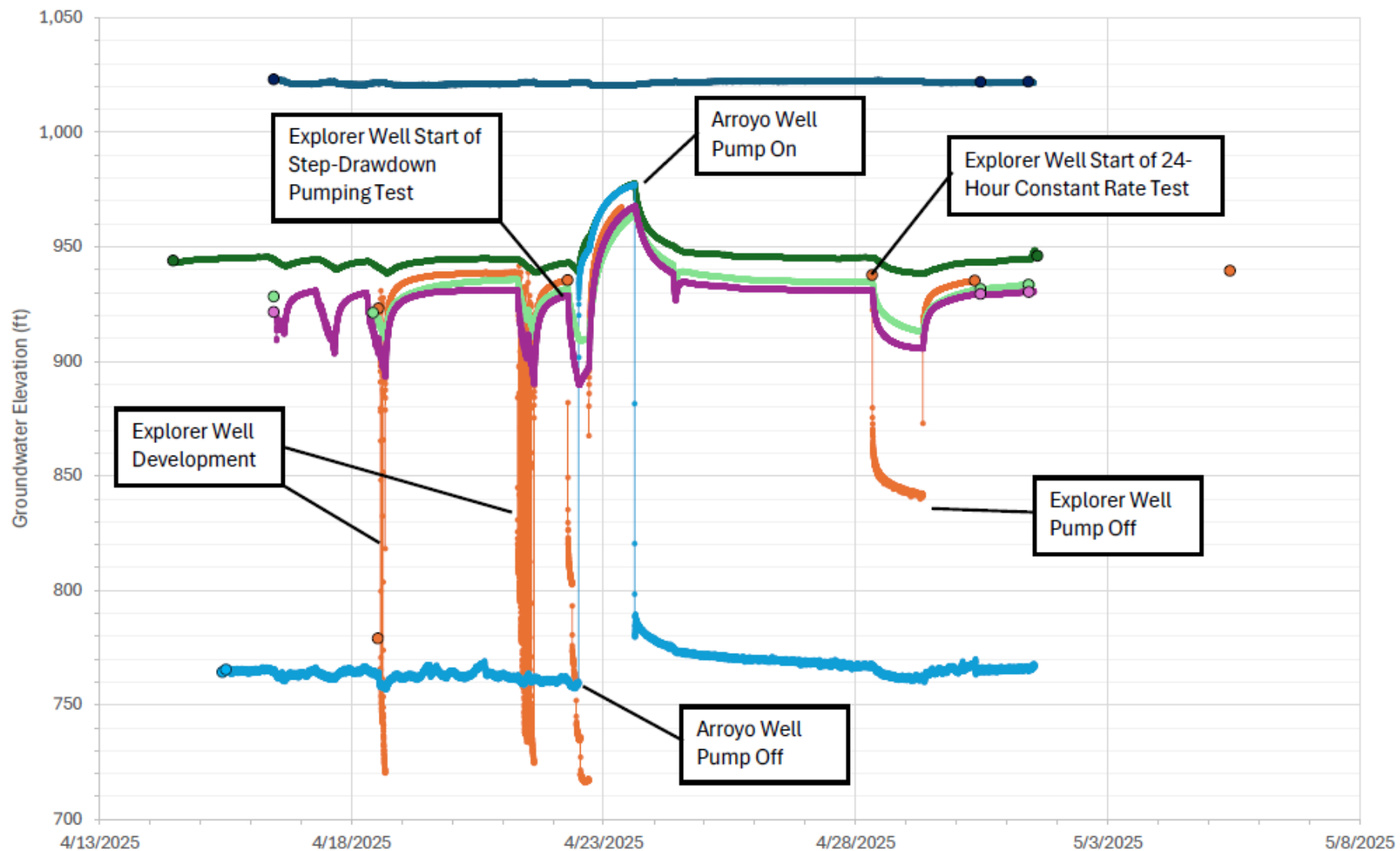




<b>Name</b>	Behner Well (MW-517)
Explorer Well	Behner Well (MW-567)
Arroyo Well	Well 52
Behner Well (MW-381)	

0 300 Feet

<b>Aquifer Testing Site Map</b>	
City of Pasadena, Water & Power Department Pasadena, California	
Geosyntec consultants	
HPA110005	July 2025
<b>Figure</b> <b>8</b>	



Notes:

- Explorer      — Well 52      — Arroyo      — MW381      — MW 517      — MW 567
- Explorer MWLs      ● Well 52 MWLs      ● Arroyo MWLs      ● MW 381 MWLs      ● MW 517 MWL      ● MW 567 MWLs

**Aquifer Testing Results Groundwater  
Elevation Data Well (All Wells)  
City of Pasadena, Water & Power Department  
Pasadena, California**

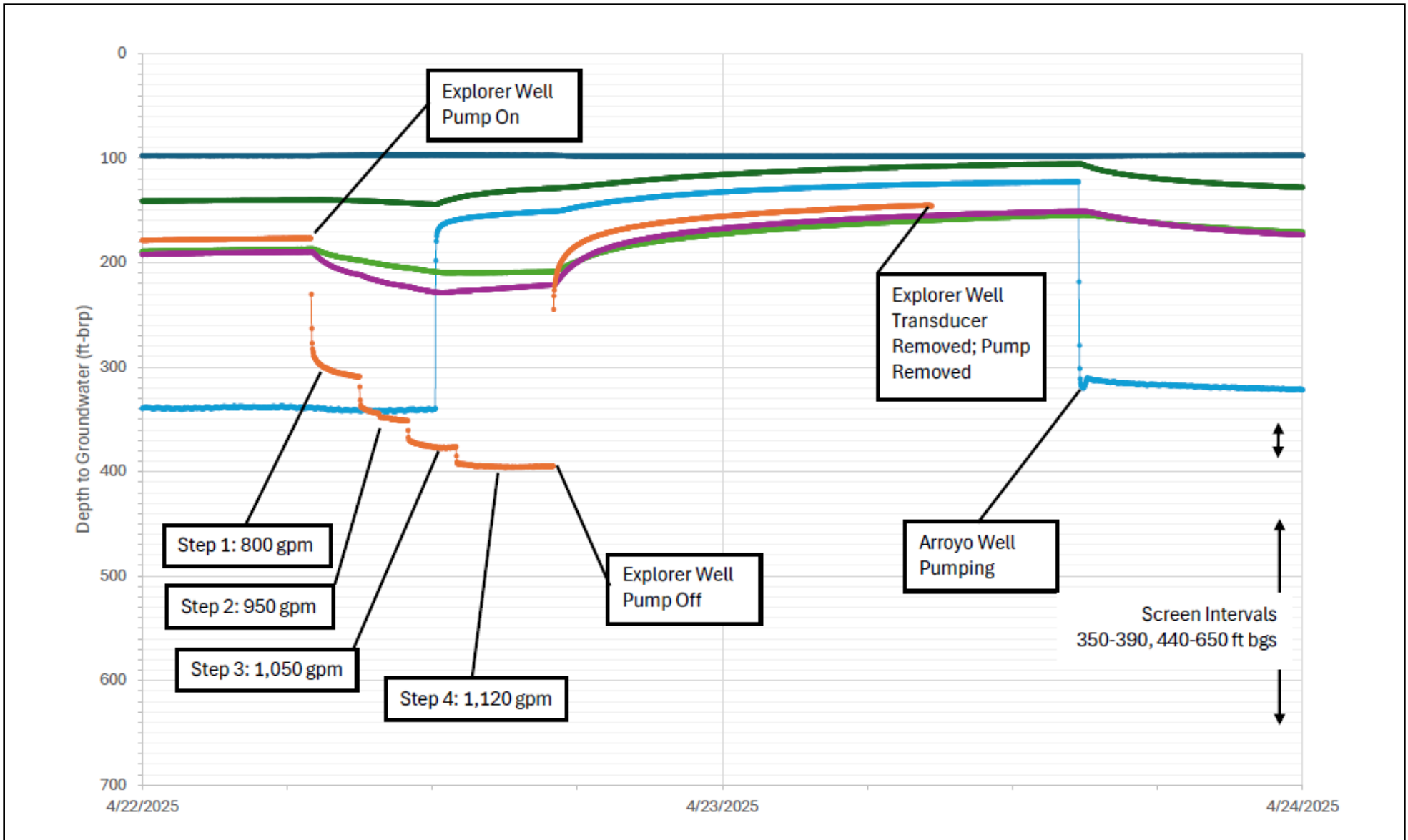
**Geosyntec**  
consultants

FIGURE

**9-1**

PROJECT NO: HPA110005

July 2025



**Notes:**  
 Pump Intake During Step-Drawdown  
 Pumping Test = 420-430 ft bgs

- Arroyo
- Well 52
- MW381
- MW 517
- MW 567
- Explorer
- Screen 1 Top
- Screen 1 Bottom
- Screen 2 Top
- Screen 2 Bottom

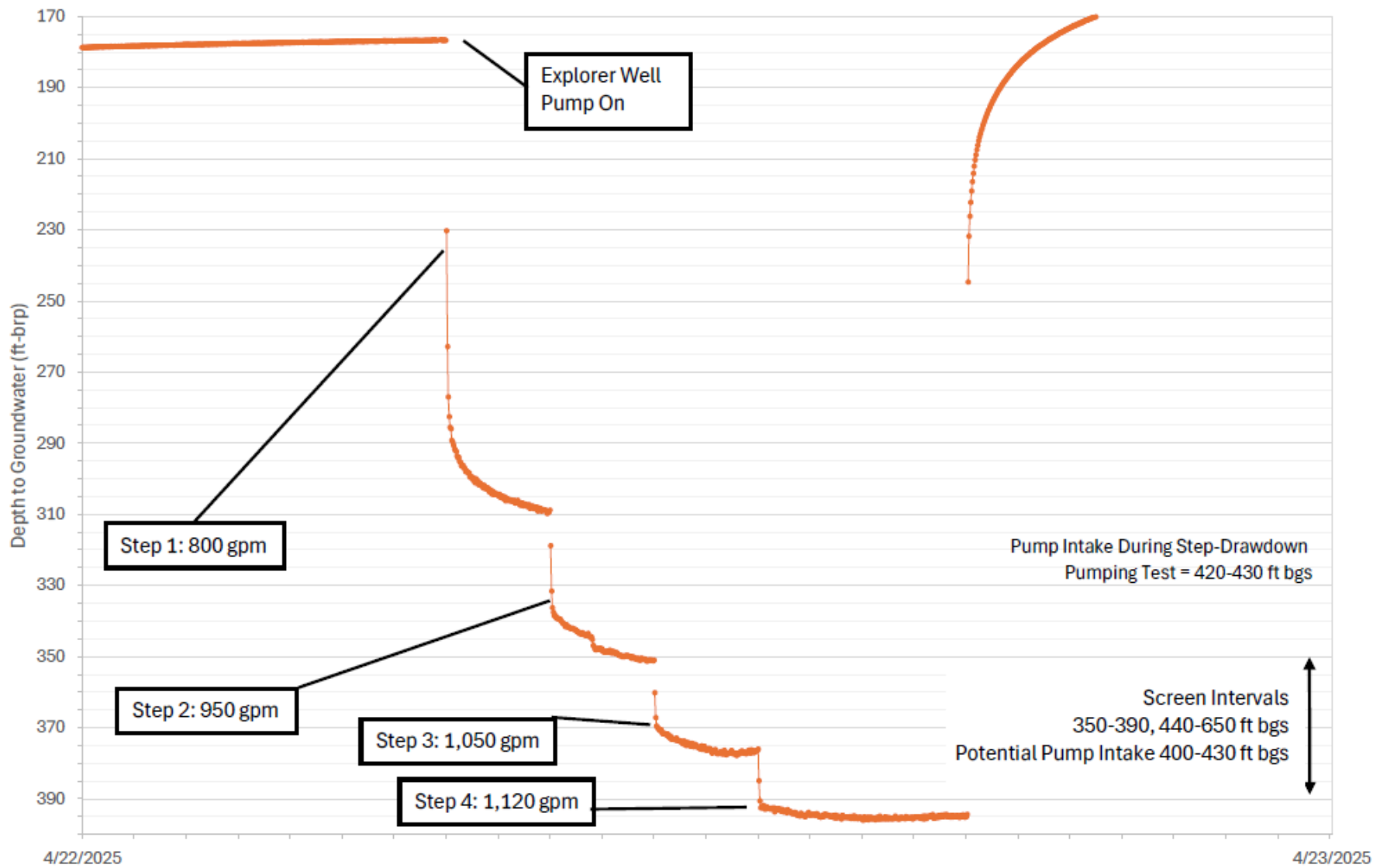
**Step-Drawdown Pumping Test Results  
 Depth to Groundwater (All Wells)  
 City of Pasadena, Water & Power Department  
 Pasadena, California**

**Geosyntec**  
 consultants

PROJECT NO: HPA110005

July 2025

FIGURE  
**9-2**



**Notes:**  
Pump Intake During Step-Drawdown  
Pumping Test = 420-430 ft bgs

**Step-Drawdown Pumping Test Results  
Depth to Groundwater (Explorer Well)  
City of Pasadena, Water & Power Department  
Pasadena, California**

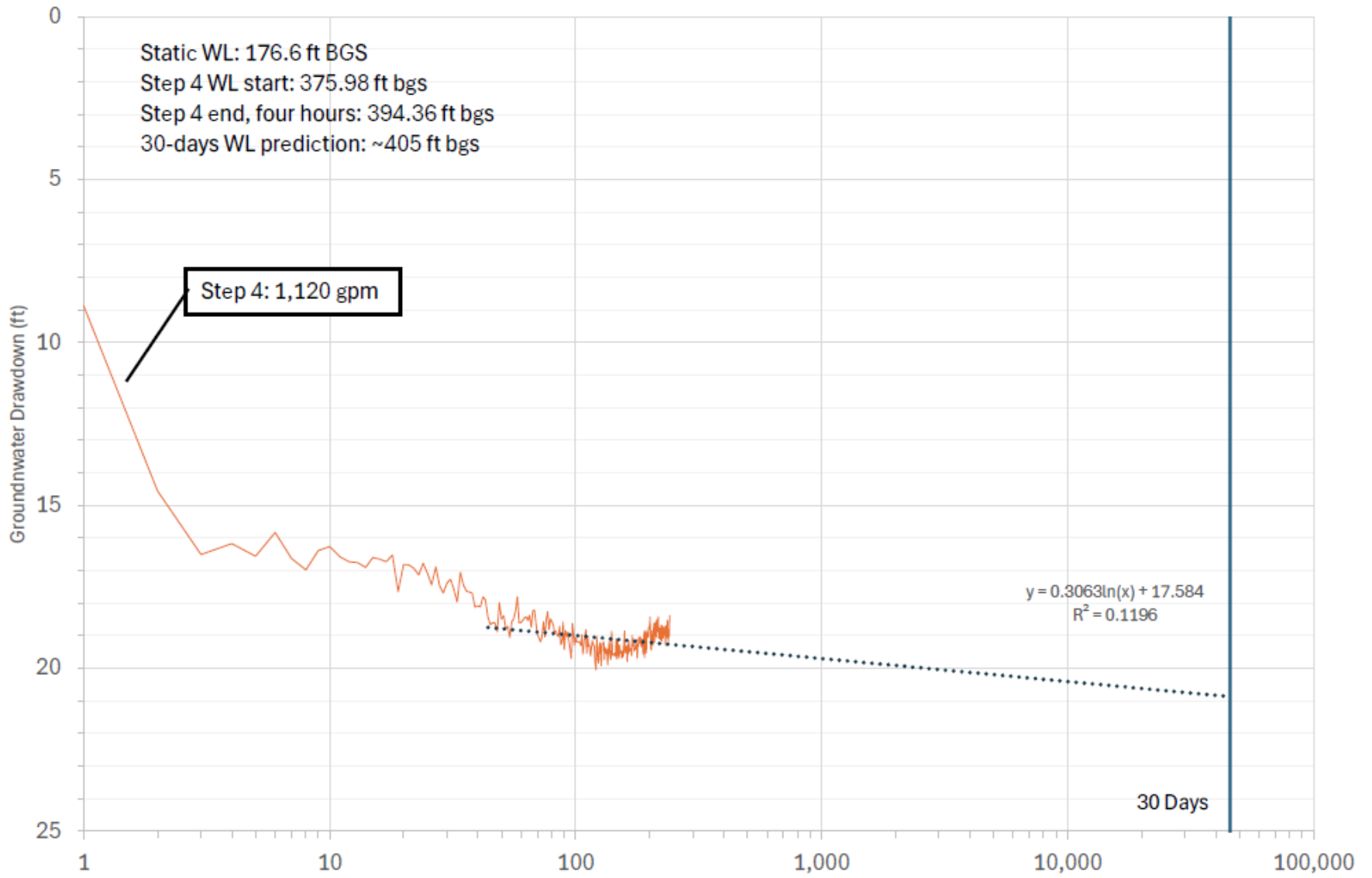
—●— Explorer    ..... Screen 1 Top    ..... Screen 1 Bottom    ..... Screen 2 Top    ..... Screen 2 Bottom



FIGURE  
**9-3**

PROJECT NO: HPA110005

July 2025



Notes:

— Explorer Well    ..... Log. (Explorer Well)

Step-Drawdown Pumping Test Results (Step Four)  
 Groundwater Drawdown (Explorer Well)  
 City of Pasadena, Water & Power Department  
 Pasadena, California

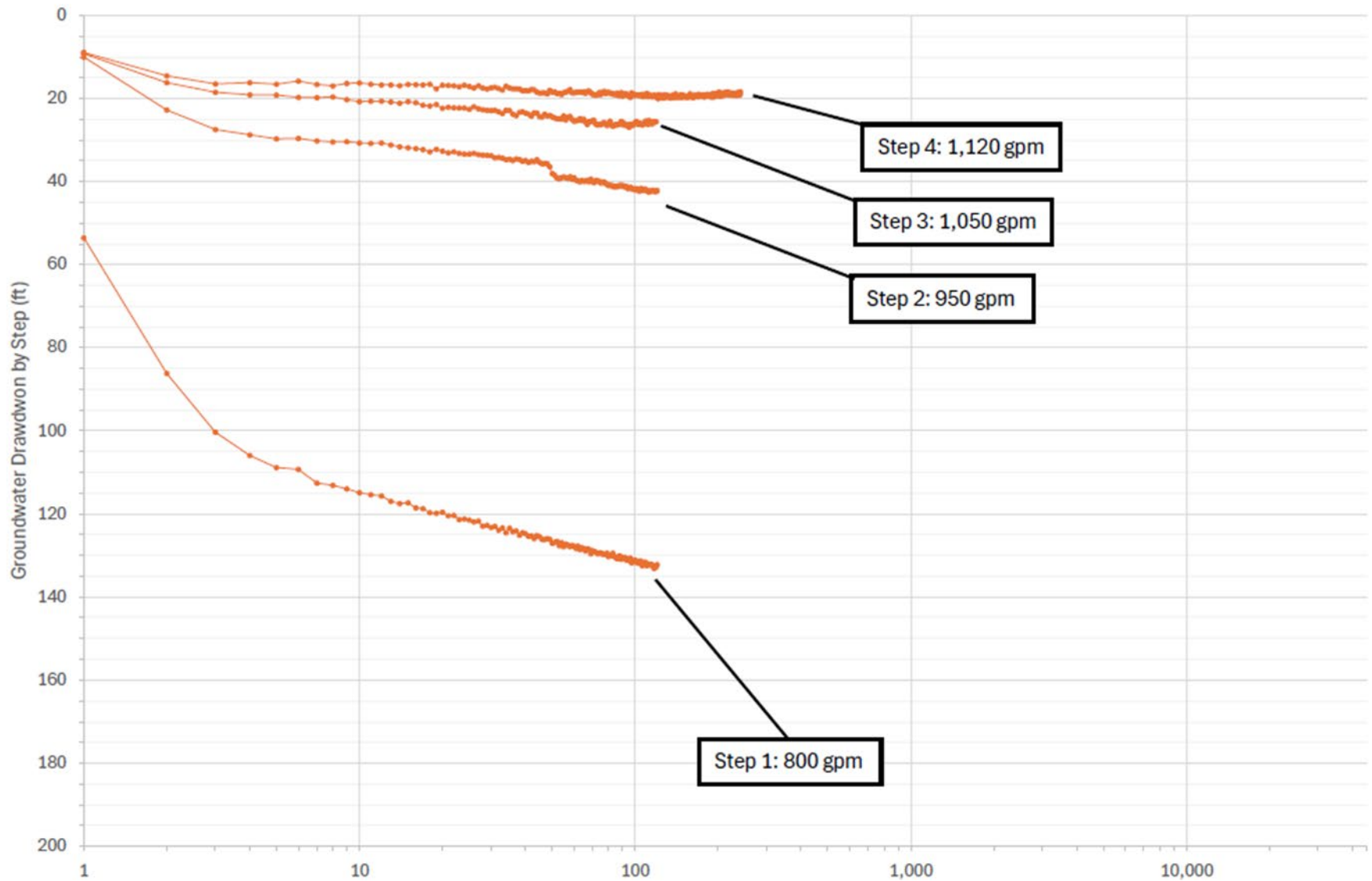
Geosyntec  
 consultants

FIGURE

9-4

PROJECT NO: HPA110005

July 2025



**Notes:**  
 Pump Intake During Step-Drawdown  
 Pumping Test = 420-430 ft bgs

—●— Explorer    ..... Screen 1 Top    ..... Screen 1 Bottom    ..... Screen 2 Top    ..... Screen 2 Bottom

**Step-Drawdown Pumping Test Results (Step Four) Groundwater Drawdown (Explorer Well)**  
 City of Pasadena, Water & Power Department  
 Pasadena, California

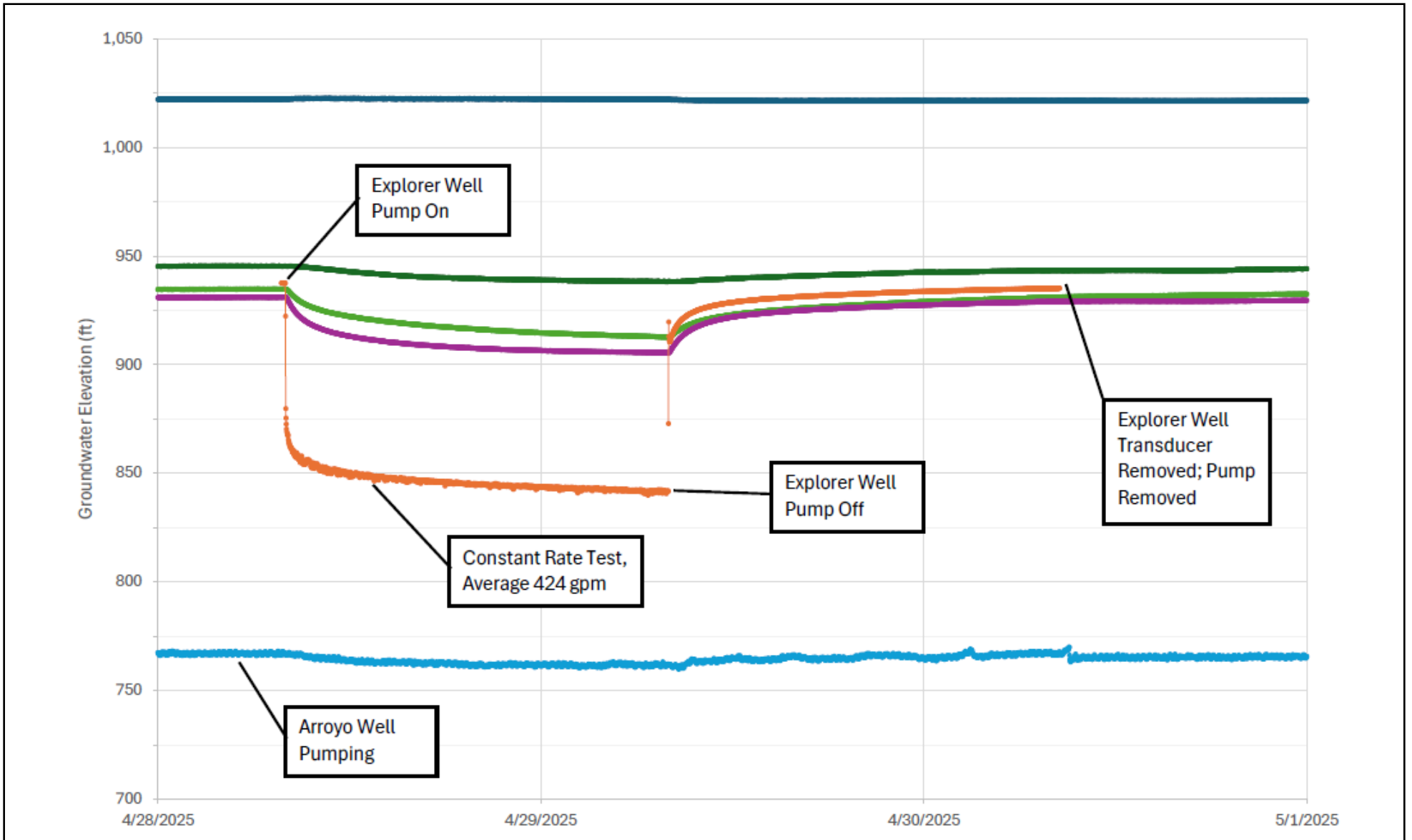
**Geosyntec**  
 consultants

FIGURE

**9-5**

PROJECT NO: HPA110005

July 2025



Notes:

— Arroyo — Well 52 — MW381 — MW 517 — MW 567 — Explorer

**Constant Rate Pumping Test Results  
Groundwater Elevation Data (All Wells)  
City of Pasadena, Water & Power Department  
Pasadena, California**

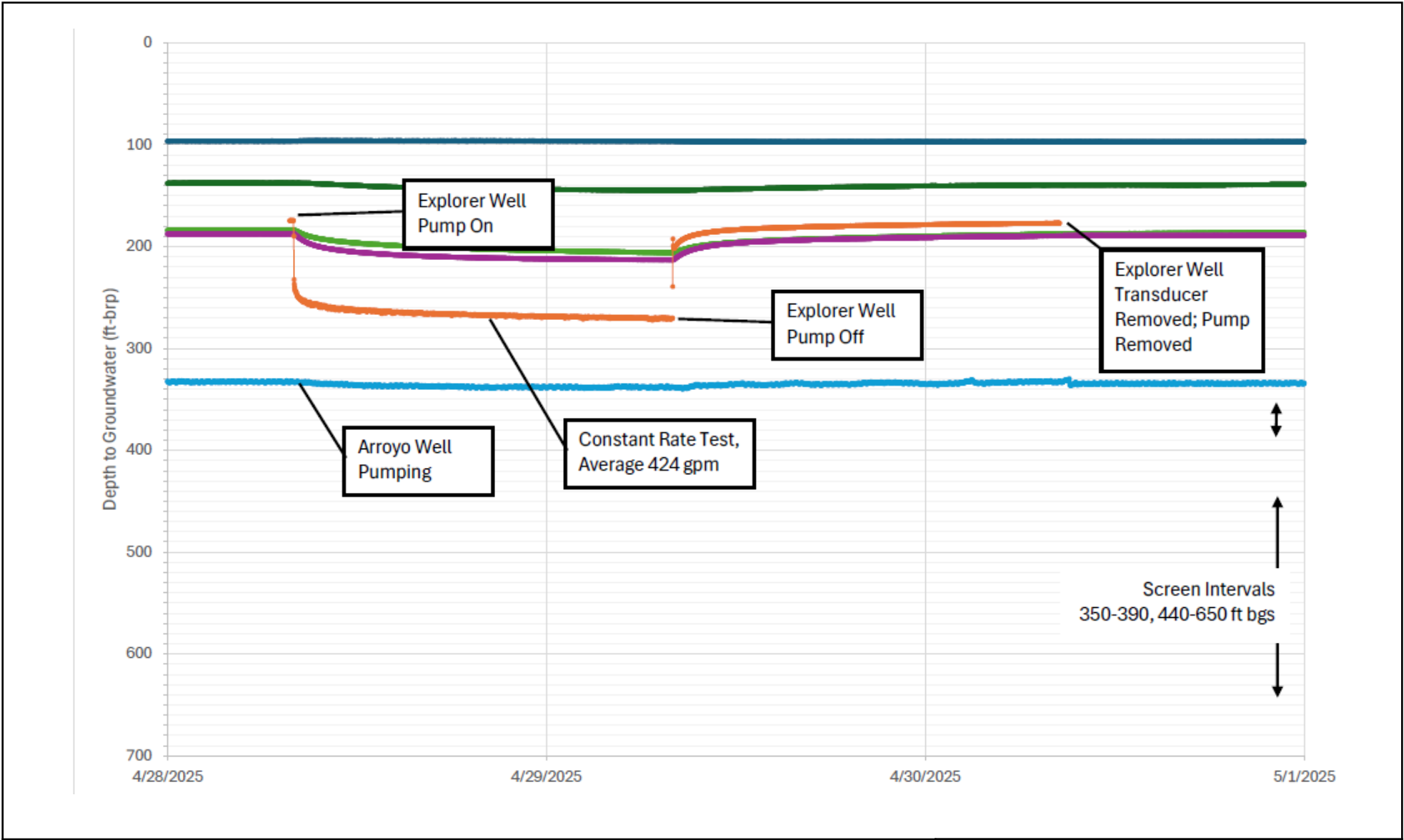
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FIGURE

**9-6**

PROJECT NO: HPA110005

July 2025



**Notes:**  
 Pump Intake During Step-Drawdown  
 Pumping Test = 320-330 ft bgs.

- Arroyo
- Well 52
- MW381
- MW517
- MW567
- Explorer
- ..... Screen 1 Top
- ..... Screen 1 Bottom
- ..... Screen 2 Top
- ..... Screen 2 Bottom

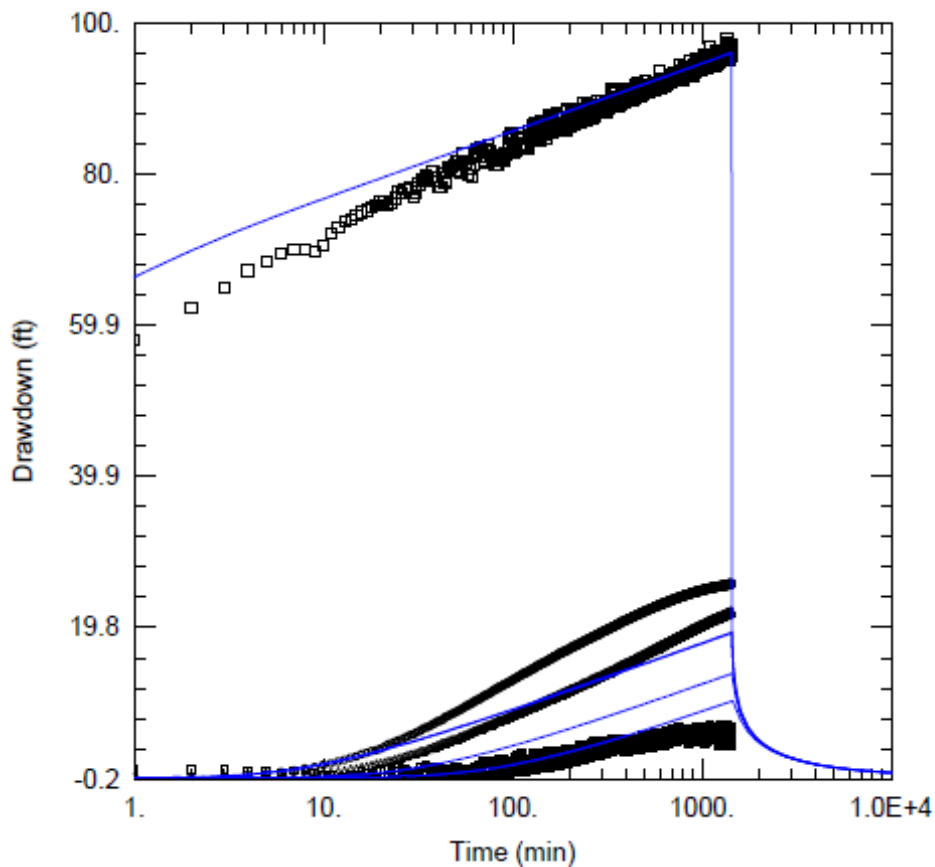
**Constant Rate Pumping Test Results -  
 Depth to Groundwater (All Wells)  
 City of Pasadena, Water & Power Department  
 Pasadena, California**



FIGURE  
**9-7**

PROJECT NO: HPA110005

July 2025



CONSTANT RATE TEST

Data Set: C:\...const\_test.aqt  
Date: 05/07/25

Time: 16:41:36

PROJECT INFORMATION

Company: Geosyntec  
Client: PWP  
Project: HPA110005  
Location: Pasadena  
Test Well: Explorer Well  
Test Date: 4/28/2025 - 4/29/2025

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Explorer	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ Explorer	0	0
+ Well 52	0	1584
△ MW517	0	475
• MW567	0	475
□ Arroyo	0	977

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

T = 1897.1 ft<sup>2</sup>/day  
Kz/Kr = 1.

S = 0.0001332  
b = 500. ft

Notes:

**Explorer Well - Constant-Rate Pumping  
Test Results - Confined Aquifer  
City of Pasadena, Water & Power Department  
Pasadena, California**

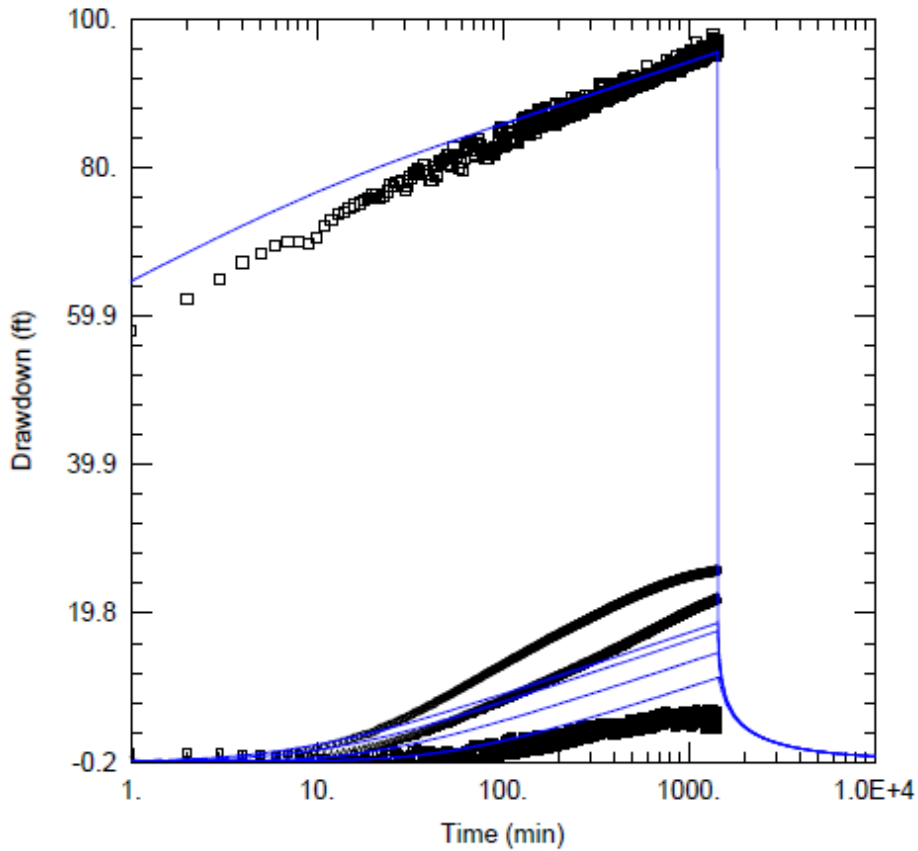
**Geosyntec**  
consultants

FIGURE

**10-1**

PROJECT NO: HPA110005

July 2025



CONSTANT RATE TEST

Data Set: C:\...\const\_test.aqt  
Date: 05/07/25

Time: 16:47:26

PROJECT INFORMATION

Company: Geosyntec  
Client: PWP  
Project: HPA110005  
Location: Pasadena  
Test Well: Explorer Well  
Test Date: 4/28/2025 - 4/29/2025

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Explorer	0	0	□ Explorer	0	0
			+ Well 52	0	1584
			△ MW517	0	475
			⊙ MW567	0	475
			□ Arroyo	0	977

SOLUTION

Aquifer Model: Leaky  
T = 2027.7 ft<sup>2</sup>/day  
1/B = 1.333E-5 ft<sup>-1</sup>  
b = 500 ft

Solution Method: Hantush-Jacob  
S = 8.874E-5  
Kz/Kr = 0.1

Notes:

**Explorer Well - Constant-Rate Pumping  
Test Results - Leaky Confined Aquifer  
City of Pasadena, Water & Power Department  
Pasadena, California**

**Geosyntec**  
consultants

FIGURE

**10-2**

PROJECT NO: HPA110005

July 2025

# APPENDIX A

## Well Permit

# APPENDIX B

## Noise Monitoring Results

# APPENDIX C

## Explorer Road

### Compaction Memorandum

# APPENDIX D

## Borehole Lithologic Logs

# APPENDIX E

## Geophysical Logs and Surveys

- E-1: Inclinometer Results
- E-2: Borehole Deviation Survey
- E-3: E-Logs
- E-4: Caliper Log
- E-5: Spinner Survey
- E-6: Well Casing Deviation Survey
- E-7: Downhole Video Survey

# APPENDIX F

## Photograph Log

# APPENDIX G

## Water Quality Lab Reports

# APPENDIX H

## Department of Water Resources

### Well Completion Report

# APPENDIX I

## Cement Delivery Tickets