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Subject: Third Quarter 2025 Well Performance Report, PG&E Topock Compressor Station, Needles,

California (PGE20180115A)

Dear Christopher Ioan and Veronica Dickerson:

Enclosed is the Third Quarter 2025 Well Performance Report for the Pacific Gas and Electric Company Topock Compressor Station located in Needles, California. In December 2021, startup began for Phase 1 of the groundwater remedy system including the start of National Trails Highway In Situ Reactive Zone system operation, maintenance, and monitoring to address hexavalent chromium in groundwater. Operation of the In Situ Reactive Zone injection and extraction wells continued in Third Quarter 2025.

In accordance with the reporting requirements outlined in the Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy, this well performance report presents an overview of the groundwater remedy and well maintenance objectives; a summary of Third Quarter 2025 well operations, maintenance, and performance monitoring activities; and recommendations and planned activities for the next reporting period.

Please contact me at (925) 302-3659 if you have any questions about the well performance report.

Sincerely,

Veen Chee Foong

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Topock Project Executive Abstract

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Is this a regulatory requirement?						
What is the consequence of NOT doing this item? What is the consequence of DOING this item?	Submittal of this report is a compliance requirement under DTSC and DOI requirements.					
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Brief Summary of Attached Document:	In December 2021, startup began for Phase 1 of the groundwater remedy system including start of National Trails Highway In Situ Reactive Zone system operation, maintenance, and monitoring to address hexavalent chromium in groundwater. Operation of the In Situ Reactive Zone injection and extraction wells continued in Third Quarter 2025. In accordance with the reporting requirements outlined in the Basis of Design Report/Final (100%) Design Submittal, this well performance report presents an overview of the groundwater remedy and well maintenance objectives; a summary of Third Quarter 2025 well operations, maintenance, and performance monitoring activities; and recommendations and planned activities for the next reporting period. Written by: PG&E					

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Related Reports and Documents:	Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site (www.dtsc-topock.com). CEQA/EIR Corrective Measures Implementation (CMI)/Remedial Action Completion/Remedy in Place Legend RFA/PA – RCRA Facility Assessment/Preliminary Assessment RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment) CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study CEQA/EIR – California Environmental Quality Act/Environmental Impact Report						

Version 9



Pacific Gas and Electric Company

Third Quarter 2025 Well Performance Report

Topock Compressor Station Needles, California

November 14, 2025

Third Quarter 2025 Well Performance Report

Topock Compressor Station

Needles, California

November 14, 2025

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Contents

A	cronyn	ns and Abbreviations	. iv
1	Intr	oduction	1
2	ΝT	HIRZ Well Maintenance Program	3
	2.1	Routine Maintenance	3
	2.2	Long-Term Performance Tracking	4
	2.2.1	1 Specific Capacity Monitoring	5
	2.2.2	2 Water Quality Monitoring	6
3	ΝT	HIRZ Well Performance	7
	3.1	System Operation Summary	7
	3.2	N T H I R Z Extraction Well Performance	8
	3.2.1	1 Extraction Well O & M and Specific Capacity Summary	8
	3.2.2	2 Extraction Well Inspections	9
	3.2.3	3 Extraction Well Water Quality	9
	3.2.4	4 PTI-1D Operations	11
	3.3	NTH IRZ Injection Well Performance	11
	3.3.1	1 Well Maintenance Procedures	11
	3.	3.1.1 Well Rehabilitation Procedure	12
	3.3.2	2 Injection Well O&M and Specific Capacity Summary	13
	3.3.3	3 Injection Well Inspections	13
	3.3.4	4 Injection Well Water Quality	14
4	Mor	nitoring Well Performance	15
	4.1	Wellhead Condition	15
	4.2	Turbidity	15
	4.3	Depth to Well Bottom	15
	4.4	Specific Capacity	16
	4.5	Response to Monitoring Well Performance Evaluation	16
5	Rec	commendations and Planned Activities for Next Reporting Period	
6	Ref	erences	19

Exhibits (in text)

Exhibit 2.1	Routine Maintenance Matrix for Injection and Extraction Wells
Exhibit 2.2	Performance Monitoring Frequencies
Exhibit 3.1	Third Quarter 2025 NTH IRZ Extraction Well Analytical Results

Tables

Table 3.1	Summary of NTH IRZ Well Operations
Table 3.2	NTH IRZ System Operations and Non-Routine Maintenance Log
Table 3.3	Third Quarter 2025 Water Quality Field Parameters
Table 4.1	Monitoring Well Inspection Results
Table 4.2	Monitoring Well Water Levels and Specific Capacities

Figures

Figure 1.1	Partial Remedy System Layout
Figure 3.1	Extraction Well Specific Capacity Trends
Figure 3.2	Injection Well Specific Capacity Trends Part 1
Figure 3.3	Injection Well Specific Capacity Trends Part 2
Figure 3.4	Injection Well Specific Capacity Trends Part 3
Figure 4.1	Monitoring Well Network

Appendix

Appendix A PT5D Redevelopment Log

Acronyms and Abbreviations

CH2M Hill CH2M Hill, Inc.

Cr6 hexavalent chromium

DOI U.S. Department of the Interior

DTSC California Department of Toxic Substances Control

Final BOD Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy

gpm gallon per minute

IRZ In Situ Reactive Zone

mg/L milligram per liter

NTH National Trails Highway

O&M operation and maintenance

PG&E Pacific Gas and Electric Company

Site Pacific Gas and Electric Company Topock Compressor Station, located in eastern San

Bernardino County, 15 miles southeast of the City of Needles, California

TOC total organic carbon

1 Introduction

Pacific Gas and Electric Company (PG&E) is implementing a final groundwater remedy to address hexavalent chromium (Cr6) in groundwater near the PG&E Topock Compressor Station located in eastern San Bernardino County, 15 miles southeast of the City of Needles, California (the Site). PG&E is implementing the groundwater remedy at the Topock Compressor Station in conformance with the requirements of the Resource Conservation and Recovery Act and the Comprehensive Environmental Response, Compensation, and Liability Act. The U.S. Department of the Interior (DOI) and the California Department of Toxic Substances Control (DTSC) executed a Memorandum of Understanding on November 22, 2011, which established coordination guidelines for overseeing implementation of a groundwater response action at the Site (DTSC and DOI 2011). In a coordinated effort, DOI and DTSC selected the final groundwater remedy to address Cr6 in groundwater, which is presented in the Record of Decision (DOI 2010).

In November 2015, PG&E submitted a Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy (Final BOD), which presents the design basis, design criteria, drawings, specifications, and operation and maintenance (O&M) requirements for the groundwater remedy (CH2M Hill, Inc. [CH2M Hill] 2015a). The infrastructure for the groundwater remedy is being constructed following the plans and procedures documented in the Construction/Remedial Action Work Plan (CH2M Hill 2015b). Construction and startup of the groundwater remedy is proceeding in phases.

Construction of Phase 1 began in October 2018 and was completed sufficiently in December 2021 for initial system startup. Design modifications were incorporated during construction to accommodate actual conditions encountered, including a plume footprint smaller than that documented in the Final BOD (CH2M Hill 2015a). As a result, the National Trails Highway (NTH) In Situ Reactive Zone (IRZ) system was installed with 10 fewer wells than planned in the Final BOD, with these 10 wells being deferred from Phase 1 of construction.

The NTH IRZ is a recirculation system in which water is extracted from up to five NTH IRZ extraction wells, amended with carbon substrate, and injected into up to 25 NTH IRZ injection intervals. In triple-screened wells (IRZ-25 and IRZ-27), two of the three well screens are combined into a single interval using a packer. The NTH IRZ extraction wells include IRZ-9, IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D.

Injection well intervals include IRZ-15 (upper), IRZ-15 (lower), IRZ-16 (upper), IRZ-16 (lower), IRZ-17 (upper), IRZ-17 (lower), IRZ-18 (lower), IRZ-20 (upper), IRZ-20 (lower), IRZ-21 (upper), IRZ-21 (lower), IRZ-25 (upper/upper middle), IRZ-25 (lower), IRZ-27 (upper), IRZ-27 (middle/lower), IRZ-29 (upper), IRZ-29 (lower), IRZ-31 (upper), IRZ-31 (lower), IRZ-31 (lower), IRZ-35, IRZ-37, and IRZ-39.

A site layout, including locations of the extraction wells, the remedy-produced water conditioning system, and the carbon amendment system, is shown on Figure 1.1.

In December 2021, startup began for Phase 1 of the groundwater remedy system including operation, maintenance, and monitoring of the NTH IRZ system. O&M is being performed in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). This report documents well maintenance and well performance from July 1 to September 30, 2025 (Third Quarter 2025), in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). The remainder of this report is organized into the following sections:

- Section 2 provides an overview of the well maintenance program.
- Section 3 summarizes the well performance and maintenance of the NTH IRZ remediation wells.

Third Quarter 2025 Well Performance Report

- Section 4 summarizes the well performance and maintenance of the monitoring wells.
- Section 5 provides recommendations for modifications to the well maintenance program and planned activities for the next quarterly reporting period.
- Section 6 provides the references for the documents cited throughout this report.

2 NTH IRZ Well Maintenance Program

The well maintenance program consists of routine maintenance and performance tracking, including tracking well performance over time, collecting analytical data, and inspecting wells to evaluate well integrity over time. This section summarizes these activities.

2.1 Routine Maintenance

Well maintenance is incorporated into the routine operations of the NTH IRZ. Exhibit 2.1 in this section summarizes estimated maintenance activity frequencies for the NTH IRZ wells as presented in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). Injection wells are prone to fouling as the injection of organic carbon stimulates the growth of bacteria, generation of gases such as carbon dioxide, and formation of mineral precipitates. To mitigate fouling resulting from these processes, the routine maintenance plan includes backwashing and mechanical and chemical rehabilitation. Injection wells are backwashed by extracting groundwater for a short period using a downhole pump to loosen and remove sediments and deposits present on the well screen or in the filter pack. Backwashing of injection wells was initially anticipated to occur weekly during operations (Exhibit 2.1). Mechanical rehabilitation of wells involves physical agitation and subsequent removal of dislodged and detached deposits. Chemical rehabilitation uses additives to remove deposits (for example, by increasing solubility). Mechanical and chemical rehabilitation were planned to occur after periods of extended injection well operation and before planned extended downtime (approximately every 6 months to 1.5 years; see Exhibit 2.1). However, as discussed in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), the frequency and manner of injection well rehabilitation are subject to change in response to well performance monitoring data, which are detailed in Section 2.2. Currently, maintenance is performed more frequently than what was planned in the initial schedule that was presented in the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), as summarized in Exhibit 2.1.

Extraction wells are less prone to fouling and, as such, the frequency of routine rehabilitation for extraction wells is significantly lower than that for the injection wells. The O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a) recommended mechanical rehabilitation (i.e., pumping and surging) for as-needed maintenance of the extraction wells. Chemical rehabilitation may be warranted in some cases.

Exhibit 2.1 Routine Maintenance Matrix for Injection and Extraction Wells

	Injection Well Backwashing Frequency	Injection Well Chemical/Mechanical Rehabilitation Frequency	Extraction Well Mechanical Rehabilitation Frequency
Initial frequency	Weekly	6 months to 1.5 years	As needed
Current frequency	Three times per week	3 to 5 months	As needed

2.2 Long-Term Performance Tracking

Well performance is tracked to establish well performance trends, identify potential performance declines within the NTH IRZ system, and inform the frequency and methods used for routine well maintenance (see Section 2.1). Long-term performance tracking consists of specific capacity monitoring, water quality monitoring, and wellhead inspection. Exhibit 2.2 in this section presents the minimum planned frequency of these activities, and specific capacity and water quality monitoring are detailed in the following subsections.

Exhibit 2.2 Performance Monitoring Frequencies

Performance Monitoring Activity	Injection Wells	Extraction Wells		
Specific capacity evaluation	Monthly	Monthly		
Water quality monitoring	Baseline, then as needed	Baseline as well as the following: Monthly TOC, manganese, iron, and field parameter screening in 2022 and First and Second Quarters 2023, then quarterly for the remainder of 2023, then annually or as needed thereafter. Annual or as-needed biological and geochemical sampling. Annual or as-needed biological activity tests, sand content tests, and modified fouling index tests.		
Wellhead inspection	Quarterly	Quarterly		

Notes:

- 1. Field parameters include temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation–reduction potential.
- 2. Biological and geochemical sampling parameters for extraction wells include TOC, total dissolved solids, iron and manganese (total and dissolved), cations (calcium, potassium, magnesium, and sodium; total), anions (chloride, fluoride, bromide, nitrate, nitrite, and sulfate), alkalinity (total, carbonate, and bicarbonate), and hardness as calcium carbonate. Parameters measured only at baseline include Title 22 metals (total and dissolved), sulfide, phosphate, total phosphorus, silica, ammonia as nitrogen, total Kjeldahl nitrogen, and biochemical oxygen demand.
- 3. Baseline sampling included parameters listed in Notes 1 and 2. TOC = total organic carbon

2.2.1 Specific Capacity Monitoring

One measure that is used to assess well performance is a specific capacity evaluation. The specific capacity for each extraction or injection well is determined by the rate of extraction or injection per unit of drawdown or draw-up in the well. Mathematically, this is calculated using the following equation.

Specific Capacity
$$\left(\frac{gpm}{ft}\right) = \frac{discharge\ rate\ (gpm)}{operating\ water\ level\ (ft) - static\ water\ level\ (ft)}$$

where: ft = foot/feet gpm = gallon per minute

As discussed in the First Quarter 2022 Well Performance Report (Arcadis 2022a), baseline specific capacities are determined for each extraction and injection well once the wells are operating consistently and the flowrates and water levels stabilize. Baseline capacities were established in Second Quarter 2022 for wells that operated continuously for most of the quarter including IRZ-13S, IRZ-13D, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-23, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, and IRZ-37 (Arcadis 2022b, 2022c). Baseline capacities were modified in Third Quarter 2022 for extraction wells IRZ-13S, IRZ-13D, and IRZ-23 as explained in the Third Quarter 2022 Well Performance Report (Arcadis 2022d). Baseline capacities were established for IRZ-15 (upper), IRZ-15 (lower), and IRZ-39 in Second Quarter 2023, Third Quarter 2023, and First Quarter 2025, respectively, following continuous injection into these intervals at their target flowrates for an extended period of time. Extraction well PTI-1D began operation in Fourth Quarter 2023, and a baseline capacity was established in December 2023 following approximately 2 months of operation. Extraction well IRZ-9 and injection wells IRZ-21 and IRZ-25 have not operated continuously since NTH IRZ operations began; therefore, sufficient data are not available to establish baseline specific capacities for these wells. Baseline specific capacities for extraction well IRZ-9 and injection wells IRZ-21 and IRZ-25 will be established once these wells are operating continuously and conditions have stabilized.

Static water levels were collected for each injection and extraction well during well development. Static water levels vary naturally depending on the time of year. To account for this natural variation and to use the most conservative static water level, the static water levels collected before system operation were all adjusted to be representative of a low river stage condition (i.e., conditions in January) at the Site. This was done by reviewing historical water-level data and calculating an adjustment factor based on that historical data. Specific capacity values may be affected by planned operational changes to the NTH IRZ wells such as the setting of a new target flowrate. When this occurs, baseline specific capacity values may be adjusted.

Starting in Third Quarter 2022, specific capacities for each well have been calculated and compared to the baseline values to assess well performance decline over time. In accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), well performance has previously been classified as "good" (specific capacity greater than or equal to 90 percent of baseline), "fair" (specific capacity between 80 and 90 percent of baseline), or "poor" (specific capacity less than 80 percent of baseline) based on the monthly average specific capacity. This initial classification system is oversimplified and no longer practical for identifying and prioritizing NTH IRZ wells for maintenance. Since startup of the NTH IRZ system in December 2021, the frequencies of routine injection well maintenance activities have been increased (see Exhibit 2.1) and well rehabilitation procedures have been enhanced (e.g., increased surging time, added jetting) for the injection wells.

Starting in Fourth Quarter 2024, the "good," "fair," and "poor" designations are no longer presented as a metric for evaluating performance of the NTH IRZ wells or effectiveness of the well maintenance procedures at each well. Instead, specific capacities are reviewed in tandem with well flowrate and water-level trends over time with the overarching goal of maintaining overall NTH IRZ injection system performance.

2.2.2 Water Quality Monitoring

Water quality monitoring, including field parameter screening and sample collection for laboratory analysis, provides data to help diagnose well clogging issues and determine corrective measures. Baseline water quality sampling included biological, geochemical, and field parameters as specified in Exhibits 4.1-1 and 4.1-2 of the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a). Extraction wells are sampled annually or as needed, as summarized in Exhibit 2.2 and in alignment with the O&M Manual (Appendix L, Volumes 1 and 2 of the Final BOD; CH2M Hill 2015a), for extraction of constituents associated with the in situ injections including TOC and dissolved metals. Samples were collected during Third Quarter 2025 and analyzed for select parameters according to standard operating procedures presented in Appendix B of the Groundwater Remedy Phase 1 Interim Monitoring Plan (Arcadis 2021) and the Final PG&E Program Quality Assurance Project Plan and addendum (CH2M Hill 2014; Critigen 2020). Sample results are discussed in Section 3.2.3 of this report.

3 NTH IRZ Well Performance

This section summarizes NTH IRZ system operational changes, well specific capacities, and water quality monitoring that occurred during Third Quarter 2025.

3.1 System Operation Summary

From June to July 2025, routine operation of the NTH IRZ system was adjusted to accommodate implementation of an extended aquifer test using IRZ-9 as the test well in accordance with the IRZ-9 and IRZ-13S Extended Aquifer Test Work Plan as requested by DTSC and DOI (Arcadis 2025b). Results of the extended aquifer test are documented in the IRZ-9 Extended Aquifer Test Summary Report (Arcadis 2025c).

Following completion of the extended aquifer test in July 2025, routine operation of the NTH IRZ system continued throughout Third Quarter 2025 with extraction wells IRZ-23, IRZ-13S, and IRZ-13D and injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39. Pilot test well PTI-1D was turned off in June 2025 as part of system flow balancing for the IRZ-9 extended aquifer test and has remained offline since completion of the test as discussed in Section 3.2.4. Select southern NTH IRZ injection wells (IRZ-29, IRZ-31, IRZ-33, and IRZ-35) were cycled off for a rest period, in accordance with the Final BOD (CH2M Hill 2015a), because they were not needed to manage groundwater extracted by the NTH IRZ system and prolonged treatment had been observed in the area of these wells. IRZ-31 was brought back online in August 2025 to provide additional extraction capacity during routine rehabilitation of the northern NTH IRZ injection wells.

Routine operation during Third Quarter 2025 prioritized maintaining target extraction rates at IRZ-23, followed by IRZ-13D, to enhance plume control, and NTH IRZ injection wells were operated at their target flowrates, when possible, to accommodate the extracted water¹. The total recirculation flowrate varied because maintenance requiring operational downtime was performed at select NTH IRZ injection wells. This maintenance consisted of full chemical and mechanical well rehabilitation (1 to 2 weeks of downtime per well). Extraction well IRZ-13D operated intermittently in Third Quarter 2025, when the total extraction rate exceeded 70 gpm². IRZ-13S was generally not operated³ in Third Quarter 2025 to prioritize operation of IRZ-23 and IRZ-13D.

During Third Quarter 2025, the operating northern and southern NTH IRZ injection wells continued to be dosed with ethanol biweekly (every other week) and once weekly, respectively. The amount of ethanol dosed per week into the northern and southern NTH IRZ wells was a time-weighted target average concentration of 26 milligrams per liter (mg/L) of TOC, which is approximately 30 percent of the nominal design dosing specified in the Final BO D (CH2M Hill 2015a). A total of 358 gallons of ethanol were injected in Third Quarter 2025. System run time, ethanol and recirculated groundwater injection volumes, and average flowrates are summarized in Table 3.1. An NTH IRZ system operations and non-routine maintenance log is presented in Table 3.2.

¹ In Third Quarter 2025, target flowrates for the northern NTH IRZ injection wells were based on the nominal design flowrates specified in the Final BOD (CH2M Hill 2015a). Target flowrates for the southern NTH IRZ injection wells were based on 150 percent of the nominal design flowrates specified in the Final BOD.

² The optimal extraction rate for IRZ-13D is 10 gpm or higher; therefore, when the total injection capacity was at

least 10 gpm higher than the target flowrate of 60 gpm for IRZ-23, extraction well IRZ-13D was turned on. ³ IRZ-13S and IRZ-13D were brought online between August 29 and September 2, 2025, for approximately 92 hours due to alarms at IRZ-23 that required IRZ-23 to be taken offline. Both IRZ-13S and IRZ-13D operated at approximately 32 gpm during this period.

Chemical and mechanical well rehabilitation occurred at the following NTH IRZ injection wells in Third Quarter 2025: IRZ-17, IRZ-18, IRZ-20, IRZ-29, IRZ-31, IRZ-33, and IRZ-35. Average systemwide uptime was 98 percent in Third Quarter 2025⁴. The following notable events occurred in Third Quarter 2025:

- On August 11, 2025, the carbon filter at the Topock Compressor Station was replaced in response to a hydrogen sulfide monitoring system alarm that shut down the filter system.
- Rain infiltration during storm events caused systemwide shutdowns on the following dates:
 - July 26 through July 28 (40.5 hours);
 - o August 25 (2.3 hours); and
 - o August 28 through 29 (6.5 hours).

3.2 NTH IRZ Extraction Well Performance

Extraction wells operated as part of Phase 1 of the groundwater remedy include IRZ-9, IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D. Extraction well run time, volume of extracted groundwater, and average extraction well flowrate (per month) are documented in Table 3.1. A discussion of observed extraction well performance in Third Quarter 2025 is provided in the following subsections.

3.2.1 Extraction Well O&M and Specific Capacity Summary

As described in Section 2.2.1 of this report, average specific capacities from July 2022 were established as the baseline specific capacities for extraction wells IRZ-23, IRZ-13S, and IRZ-13D. A baseline specific capacity was established for PTI-1D in Fourth Quarter 2023. A baseline specific capacity has not yet been established for extraction well IRZ-9 due to limited and inconsistent operation of this well since NTH IRZ system operations began.

Graphs of average daily specific capacity over time for extraction wells IRZ-13S, IRZ-13D, IRZ-23, and pilot test well PTI-1D are presented on Figure 3.1 (Third Quarter 2022 through Third Quarter 2025). Average daily specific capacities are presented as percentages of the baseline specific capacities for each well. To date, changes in extraction well specific capacity have been a function of variations in target flow and river stage, as detailed below, rather than an indicator of well fouling:

- IRZ-23 operated throughout Third Quarter 2025 with only minimal downtime as noted in Table 3.2. The monthly average flowrate ranged from 49 to 58 gpm. The relatively low average flowrate of 49 gpm in July 2025 was due to reduced pumping at IRZ-23 during the IRZ-9 extended aquifer test which concluded on July 15, 2025 (see Section 3.1). For the remainder of the quarter, IRZ-23 was operated at a target flowrate of approximately 60 gpm or higher. The increase in specific capacity observed at IRZ-23 over Third Quarter 2025 is attributed to decreasing river stage as well as increased extraction at this well following the IRZ-9 extended aquifer test.
- **IRZ-13S** was generally not operated in Third Quarter 2025, except during the quarterly sampling in August 2025 and temporary operation while IRZ-23 was offline (see Section 3.1).

⁴ Systemwide uptime is calculated using total run time hours (run time in hours is calculated from extraction well operating hours) divided by total possible run time hours in Third Quarter 2025.

- **IRZ-13D** was operated intermittently in Third Quarter 2025, with monthly average flowrates between 10 and 32 gpm. The specific capacity exceeded 100 percent of baseline for a portion of the quarter. Specific capacities less than 100 percent of baseline occurred when IRZ-13D was operated at lower target flowrates.
- **PTI-1D** was not operated in Third Quarter 2025, except during monthly sampling in July, August, and September 2025 (see Section 3.2.4).

In accordance with the Final BOD (CH2M Hill 2015a), routine maintenance of extraction wells could include pump-and-surge redevelopment as needed. No routine maintenance was performed on the extraction wells in Third Quarter 2025.

3.2.2 Extraction Well Inspections

Extraction wells are inspected quarterly (at a minimum) for visible leaks and damage. Any notable damage or equipment needing replacement is identified in Table 3.2. Leak detection switches within the vaults are also used to identify maintenance needs in a timely manner. There was no notable damage to the extraction wells and no non-routine maintenance was performed on these wells during Third Quarter 2025.

3.2.3 Extraction Well Water Quality

The potential for increased well fouling, resulting from the extraction of groundwater with residual carbon substrate and/or reduced metals from the nearby carbon injection activity, is monitored during system operations. This monitoring includes measuring TOC and metal byproduct concentrations at the extraction wells. The Third Quarter 2025 Quarterly Progress Report (Arcadis, in progress) provides the extraction well monitoring analytical results; however, the results are also summarized and discussed herein.

Baseline analytical data for extraction wells are provided in Table 3.4 of the First Quarter 2022 Well Performance Report (Arcadis 2022a) and in Exhibit 3.1 in this section (key indicator parameters only). Baseline analytical data were collected during December 2021, January 2022, March 2022, and November 2023, when extraction wells were brought online (Exhibit 3.1).

Exhibit 3.1 in this section presents the Third Quarter 2025 analytical results from extraction wells IRZ-9, IRZ-23, IRZ-13S, IRZ-13D, and PTI-1D. Extraction wells IRZ-9, IRZ-23, IRZ-13S, and IRZ-13D were sampled in August 2025 (quarterly), and PTI-1D was sampled in July, August, and September 2025 (monthly).

At the extraction wells, total iron, dissolved iron, and dissolved manganese concentrations were generally lower than the reporting limits or baseline concentrations, except for low concentrations of total iron, dissolved iron, and dissolved manganese at IRZ-13S. These results are not indicative of fouling because IRZ-13S did not operate in Third Quarter 2025 prior to the sampling event. Although baseline TOC concentrations are not available for the extraction wells, TOC concentrations in these wells remained below detectable levels in Third Quarter 2025, except at IRZ-23 where TOC was detected at a low concentration of 1.8 mg/L, which is consistent with previous results. Overall, the TOC data do not exhibit trends that may be indicative of well fouling. Therefore, no adjustments to operations of the extraction wells were needed in Third Quarter 2025 based on the water quality results.

Exhibit 3.1 Third Quarter 2025 NTH IRZ Extraction Well Analytical Results

Extraction Well	Sample Date	Active Time Operating (percent)	TOC: Method 5310B (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)
IRZ-9	Baseline: January 2022	9	Less than 0.02 Less than 0.02		0.0027	
IRZ-9	Range (Baseline to Date)		Less than 1 to 4.3 J	Less than 0.02 to 0.84	Less than 0.02 to 0.76	Less than 0.0005 to 0.0027
IRZ-9	August 2025	0.62	Less than 1	Less than 0.02	Less than 0.02	Less than 0.0005
IRZ-23	Baseline: December 2021	8		0.69	0.091 J	Less than 0.0005
IRZ-23	Range (Baseline to Date)		Less than 1 to 3.4	Less than 0.02 to 1.2 J	Less than 0.02 to 0.091 J	Less than 0.0005
IRZ-23	August 2025	91	1.8	Less than 0.02	Less than 0.02	Less than 0.0005
IRZ-13S	Baseline: March 2022	53		0.06	Less than 0.02	Less than 0.0005
IRZ-13S	Range (Baseline to Date)		Less than 1 to 2.6	Less than 0.02 to 1.2 J	Less than 0.02 to 0.044	Less than 0.0005 to 0.0064 J
IRZ-13S	August 2025	7.9	Less than 1	0.069	0.044	0.002
Baseline: IRZ-13D March 2022		53		Less than 0.02	0.059 J	0.062
IRZ-13D	Range (Baseline to Date)		Less than 1 to 3.0	Less than 0.02 to 0.63	Less than 0.02 to 0.059 J	Less than 0.0005 to 0.062
IRZ-13D	August 2025	31	Less than 1	Less than 0.02	Less than 0.02	0.0028
PTI-1D	Baseline:			1.3	1.1	4.2 J
PTI-1D	Range (Baseline to Date)			0.084 to 1.9 J	0.083 to 1.1	0.55 to 4.2 J
PTI-1D	July 2025	0.22		0.21	0.18	0.69
PTI-1D	August 2025	0.62		0.17	0.17	0.77
PTI-1D	September 2025	0.45	-	0.18	0.17	0.76

Notes:

Range is the concentration range for the indicated well from baseline to date. Results shown are the Third Quarter 2025 analytical results for the indicated well.

-- = not analyzed

J = estimated concentration

Table 3.3 includes field parameter data (temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential) for extraction wells collected during Third Quarter 2025.

3.2.4 PTI-1D Operations

Starting on November 2, 2023, PG&E began extracting groundwater from pilot test extraction well PTI-1D, in accordance with the PTI-1D Floodplain Extraction Test Workplan (Arcadis 2023a), to improve hydraulic control of the Cr6 plume. On September 20, 2024, PG&E requested to continue the PTI-1D extraction test for as long as warranted to allow for ongoing Cr6 concentration reductions at key wells (e.g., PT5D and MW-44-115), particularly during low river stage (PG&E 2024). In October 2024, the DTSC and DOI conditionally approved a 1-year extension of the PTI-1D extraction test (DTSC 2024; DOI 2024).

Hydraulic and analytical data collected as part of the PTI-1D extraction test have demonstrated that the test objectives have been achieved as discussed in further detail in the quarterly progress reports. On June 16, 2025, PTI-1D was turned off to accommodate implementation of the extended aquifer test at IRZ-9, and PTI-1D has remained offline since (except for monthly sampling). IRZ-23 continues to be operated to maintain control of the remaining Cr6 plume in the floodplain. PTI-1D and wells in the vicinity continued to be sampled in Third Quarter 2025, and the results are discussed in the Third Quarter 2025 Quarterly Progress Report (Arcadis, in progress).

3.3 NTH IRZ Injection Well Performance

Phase 1 of the groundwater remedy includes NTH IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-21, IRZ-25, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39. Injection well run time, including average flowrates, is documented in Table 3.1. A discussion of observed injection well performance in Third Quarter 2025 is provided in the following subsections.

3.3.1 Well Maintenance Procedures

In accordance with recommendations made in the Fourth Quarter 2024 Well Performance Report (Arcadis 2025a), the current well rehabilitation program is as follows:

- Complete quarterly mechanical and chemical rehabilitation at injection wells IRZ-17, IRZ-18, IRZ-29, IRZ-31, and IRZ-33 (when these wells are operating) using the updated rehabilitation procedure described in Section 3.3.1.1.
- Complete mechanical and chemical rehabilitation approximately every 4 to 5 months at injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-35, and IRZ-37 (when these wells are operating) using the updated rehabilitation procedure described in Section 3.3.1.1.

No notable rehabilitation schedule adjustments occurred in Third Quarter 2025. However, due to scheduling constraints, some wells were rehabilitated at frequencies different from their planned frequency.

As discussed in the Fourth Quarter 2024 Well Performance Report (Arcadis 2025a), the rehabilitation procedure was updated in First Quarter 2025 because a subset of injection wells were unable to sustain target flowrates for a prolonged period of time following rehabilitation. Camera surveys indicated that the previous rehabilitation procedure continued to be effective in removing fouling from within the well screens. Thus, the decline in the performance of certain wells is likely due to fouling in the filter packs and/or surrounding formation, which is not visible via a camera survey. The updated rehabilitation procedure included the addition of new chemicals, as described in Section 3.3.1.1, and a new jetting tool with nozzle inserts that allow for jetting at velocities of 208 and 324 feet per second.

3.3.1.1 Well Rehabilitation Procedure

Rehabilitation for each well involves the following process.

- Confirm the injection well is offline and confirm the affiliated well water and electrical lines have been locked out and tagged out by appropriate personnel.
- Open the well vault and begin continuous air monitoring.
- Remove the downhole equipment, including the packer (if applicable), drop pipe, and pump(s), from injection
 well. During its removal, inspect the equipment for corrosion, damage, deposits, and/or odor. Brush, clean,
 and/or pressure-wash the equipment if needed.
- Mechanically clean the well casing and screen section(s) using a double-surge block.
- Jet the mixed well chemical solution down the well using a jetting tool, first into the lower well screen, then the upper screen, and surge the screen intervals.
- Following jetting, install a dual-swab block brush and swab the screen intervals.
- If using a packer, reinstall the packer following jetting and swabbing of the chemicals in all screens.
- Allow the chemicals to sit in the well overnight. The following day, check the pH of the screen intervals.
- Once the pH is greater than 3, remove the packer (if applicable) and conduct mechanical rehabilitation. Add fresh water as needed to adjust the pH.
- Pump the purge water into backwash piping.
- Reinstall the downhole well equipment and restart the well.

The well chemical solution used for each injection well through Fourth Quarter 2024 included fresh water, NuWell phosphoric acid, and a NuWell biodispersant. Starting in First Quarter 2025, a NuWell surfactant was added to that well chemical solution due to its ability to lower surface tension and, thereby, more effectively address biofouling. Jetting was added to the well rehabilitation procedure starting in Third Quarter 2023 to distribute the chemical solution further into the filter pack and reduce fouling in the filter pack.

In First Quarter 2025, a NuWell hydrochloric acid was used instead of the NuWell phosphoric acid at select injection wells that were identified as unable to sustain target flowrates for an extended period after rehabilitation (IRZ-17, IRZ-18, and IRZ-31). Results regarding the relative effectiveness of the hydrochloric acid have been mixed, and enhancements to the rehabilitation methodologies continue to be evaluated. Future use of hydrochloric acid for chemical rehabilitation will be limited to cases where wells are heavily fouled and unable to maintain target flowrates post-rehabilitation.

3.3.2 Injection Well O&M and Specific Capacity Summary

Injection wells operating during Third Quarter 2025 included IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39. Injection wells were taken offline as needed throughout the quarter for well rehabilitation or cycled off for a rest period in accordance with the Final BOD (CH2M Hill 2015a). Injection wells IRZ-21 and IRZ-25 remained offline throughout the quarter to avoid fouling of the adjacent IRZ-23 extraction well.

Routine injection well maintenance during Third Quarter 2025 included backwashing of injection wells during system operation as detailed in Table 3.2. Each operating injection well was backwashed to remove solids that may have accumulated in the well screen and gravel pack during injections. Backwashing occurred two to three times weekly when time allowed, an increase from the estimated once weekly backwash described in Section 2.1, to proactively manage well health and water levels at injection wells. The backwashing frequency was reduced when other operational activities were prioritized, such as the IRZ-9 extended aquifer test.

Routine operation for injection wells includes daily monitoring of injection flowrates and water levels. Graphs of average daily specific capacity over time for operating injection wells with an established baseline specific capacity are plotted on Figures 3.2 through 3.4 (Third Quarter 2022 through Third Quarter 2025). Average daily specific capacities are plotted as percentages of the baseline specific capacities established in 2022, 2023, and 2025.

Injection wells rehabilitated in Third Quarter 2025 included IRZ-17, IRZ-18, IRZ-29, IRZ-31, IRZ-33, and IRZ-35. The procedures used for well rehabilitation are provided in Section 3.3.1.1. Rehabilitation resulted in increased injection well specific capacities in Third Quarter 2025, as shown on Figures 3.2 through 3.4 and described below:

- Specific capacity for injection well IRZ-18 (upper) returned to greater than 80 percent of baseline following rehabilitation, although specific capacity then declined over time with continued operation. Specific capacity for injection well IRZ-18 (lower) did not significantly improve following rehabilitation in Third Quarter 2025.
- Specific capacities for injection well IRZ-17 (upper and lower) increased following rehabilitation (and flowrates also increased compared to pre-rehabilitation rates); however, specific capacities did not return to greater than 80 percent of baseline.

IRZ-29, IRZ-33, and IRZ-35 were excluded from the post-rehabilitation specific capacity evaluation because they remained offline following rehabilitation (see Section 3.1). IRZ-31 was also excluded from this evaluation because the rehabilitation event for this well extended into Fourth Quarter 2025.

3.3.3 Injection Well Inspections

Injection wells are inspected quarterly (at a minimum) for visible leaks and damage. Any notable damage or equipment needing replacement is identified in Table 3.2. Leak detection switches within the vaults are also used to identify maintenance needs in a timely manner.

Notable non-routine maintenance performed on the injection wells during Third Quarter 2025 included the following:

On July 3, 2025, the pressure transducer at IRZ-29 (lower) was replaced due to a faulty transmitter. Manual
water-level measurements taken after the replacement was installed confirmed that the new pressure
transducer was taking accurate readings.

- On August 20, 2025, the pressure transducer at IRZ-31 (lower) was replaced due to a faulty transmitter.
 Manual water-level measurements taken after the replacement was installed confirmed that the new pressure transducer was taking accurate readings.
- On September 8, 2025, the pH probe at Influent Tank 2 was replaced due to inaccurate readings. Manual pH
 measurements taken after the replacement was installed confirmed that the pH probe was taking accurate
 readings.
- On September 10, 2025, the pressure transducer at IRZ-27 (lower) was replaced due to inaccurate water-level data. Manual water-level measurements taken after the replacement was installed confirmed that the new pressure transducer was taking accurate readings.
- On September 16, 2025, the sump pump at the IRZ-25 well vault was replaced. During routine testing, the old sump pump had tripped the motor circuit protector, indicating replacement was necessary.

3.3.4 Injection Well Water Quality

Injection well water quality monitoring includes the collection of baseline data followed by as-needed sampling for biological, geochemical, and/or field parameters. Baseline analytical results for each injection well are provided in the First Quarter 2022 Well Performance Report (Arcadis 2022a). Baseline analytical data were collected during December 2021 and January 2022.

During the Third Quarter 2025 rehabilitation event, what appeared to be film deposits were observed in the well screen slots post-jetting at IRZ-18 (upper and lower) during the downhole camera survey. Similar film deposits had previously been observed at IRZ-20. Prior to the rehabilitation of IRZ-20 on September 30, 2025, samples of these deposits were collected from both the upper and lower screens, along with water from the well, for diagnostic chemical and microbiological profiling by Water Systems Engineering. The resulting data will inform well specific rehabilitation enhancements.

4 Monitoring Well Performance

Monitoring wells are inspected to determine whether monitoring well maintenance, such as wellhead repair or well screen redevelopment, is needed. Monitoring well inspections include the following:

- Wellhead condition is assessed to determine if well protection features, including the well seal, well
 vault/protective casing, and concrete pad, are in place and functioning as designed.
- Turbidity is measured as an indicator of whether the monitoring well screen and filter pack are intact and functioning.
- Depth to bottom of the well is measured as an indicator of infill (siltation).
- Specific capacity is evaluated to confirm consistency with sampling standard operating procedures.

This section provides a summary of each of these parameters. The locations of the inspected monitoring wells are shown on Figure 4.1.

4.1 Wellhead Condition

Wellheads are inspected routinely during sampling, and observations are documented. The inspection results for Third Quarter 2025 are presented in Table 4.1. Overall, the wellheads were in good condition in Third Quarter 2025.

4.2 Turbidity

In accordance with Section 4.2.4 of the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a), wells that consistently yield turbidity greater than the range of 20 to 30 nephelometric turbidity units undergo additional evaluation to determine if redevelopment is warranted. The additional evaluation can include evaluation of previous purge data, specific capacity, and longer-term pressure transducer data. Turbidity data collected from monitoring wells in Third Quarter 2025 are included in Table 3.3.

Monitoring well MW-69-195 yielded turbidity readings greater than 30 nephelometric turbidity units for consecutive sampling events, as noted in Table 4.2. MW-69-195 is a bedrock well and is not recommended for redevelopment at this time because the wellhead condition, depth to well bottom, and specific capacity assessment indicate that well integrity is intact and siltation is not sufficient to warrant redevelopment.

4.3 Depth to Well Bottom

Depth to well bottom is measured manually during sampling using a water-level meter and compared to the asconstructed well depth and bottom of the screened interval to assess siltation, integrity of the well screen, and integrity of the well casing. Monitoring well depth-to-bottom data are presented in Table 4.2. If the measured well depths for consecutive sampling events suggest that at least 20 percent of the screened interval is silted in, the well will be flagged for further evaluation to determine if redevelopment is necessary.

Monitoring wells MW-27-020, MW-30-050, MW-32-020, MW-39-040, MW-45-095a, and MW-77-046 met this measured well depth criterion in Third Quarter 2025 but are not recommended for redevelopment. Monitoring wells MW-27-020, MW-30-050, MW-32-020, and MW-45-095a are not recommended for redevelopment because

they are screened in fluvial sediments, and redevelopment in these sediments would increase the potential for sediment infiltration. MW-39-040 is not recommended for redevelopment because previous redevelopment of this well did not improve performance, as discussed in the Second Quarter 2023 Well Performance Report (Arcadis 2023b). Monitoring well MW-77-046 was redeveloped following the October 2024 sampling event (Arcadis 2025a). The specific capacity and turbidity readings measured at MW-77-046 during the Second and Third Quarter 2025 sampling events indicate good yield and low suspended solids. Therefore, additional redevelopment or maintenance of MW-77-046 is not recommended at this time.

Measurements of the depth to well bottom taken at monitoring well PT5D in July and August 2025 also indicated siltation of the well screen, and this well was redeveloped before the September 2025 sampling event. Additional discussion of the well redevelopment is provided in Section 4.5.

4.4 Specific Capacity

Monitoring well purging is generally conducted at rates between 100 and 500 milliliters per minute, and drawdown at these rates typically ranges from a few hundredths to a few tenths of a foot. Wells with casing diameters greater than 4 inches may be purged at rates higher than 500 milliliters per minute because a larger submersible pump is used in these cases. If drawdown of greater than 1 foot is observed for a fluvial or alluvial well during purging, the well will be flagged for further evaluation to determine if it needs rehabilitation. Bedrock wells are excluded from this evaluation method due to the potential for larger drawdown during purging. Purging data, including purge rate, drawdown, and calculated specific capacity, are presented in Table 4.2. Specific capacity is calculated using the equation provided in Section 2.2.1.

Drawdown of greater than 1 foot was not observed during purging of monitoring wells in Third Quarter 2025 (Table 4.2).

4.5 Response to Monitoring Well Performance Evaluation

Based on experience redeveloping MW-28-025, MW-30-030, and MW-39-040, and as discussed in the Third Quarter 2023 Well Performance Report (Arcadis 2023c), the following adjustments have been implemented since Third Quarter 2023:

- Wells are redeveloped using a smaller-diameter surge block to reduce the risk of the surge block being lodged between sediment and the well casing.
- Wells located in fluvial sediments (see Well Screen Lithology column in Table 4.2), where sediment infiltration
 is likely given the screen slot size and/or filter pack combination, are not redeveloped. Redevelopment of
 these wells is expected to have a detrimental effect on well performance due to increased potential for
 sediment infiltration.
- Wells in which significant sediment infiltration occurs during redevelopment are not considered for future redevelopment.

Monitoring well PT5D exhibited increasing siltation (exceeding 20 percent of the screened interval) each month from April through August 2025, although turbidity measurements remained low and minimal drawdown was observed during sampling. Based on the trend of increasing siltation and drawdown at PT5D, redevelopment of PT5D was scheduled for September 6, 2025. The well redevelopment log is included in Appendix A. A decrease

Third Quarter 2025 Well Performance Report
in siltation, drawdown, and turbidity was observed at PT5D during the September sampling event (on September 10, 2025), confirming the effectiveness of the redevelopment.

5 Recommendations and Planned Activities for Next Reporting Period

Phase 1 groundwater remedy operations and the Phase 1 monitoring program will continue in Fourth Quarter 2025 (October through December 2025) in accordance with the O&M Manual (Appendix L, Volume 1 of the Final BOD; CH2M Hill 2015a) and Groundwater Remedy Phase 1 Interim Monitoring Plan (Arcadis 2021). No changes to the current well rehabilitation program are proposed.

In addition to routine groundwater remedy operations and monitoring, the following activities related to well performance are planned for Fourth Quarter 2025:

- Continue operating target NTH IRZ extraction and injection wells.
- Continue monitoring the NTH IRZ extraction and injection wells for potential well fouling.
- Continue to target backwashing the operating injection wells three times weekly during operation.
- Monitor average specific capacities for NTH IRZ extraction/injection wells and monitoring wells to determine if additional maintenance is needed.
- Continue inspections of monitoring wells as part of scheduled routine sampling.
- Continue evaluating enhancements to the rehabilitation methodologies and conduct additional diagnostic sampling of select injection wells (including IRZ-16 and IRZ-17) during the next rehabilitation event at these wells.

Well performance monitoring and well maintenance activities will be reported in the Fourth Quarter 2025 Well Performance Report. The Fourth Quarter 2025 Quarterly Progress Report will also be submitted to document operations and monitoring results in accordance with the O&M Manual (Appendix L, Volume 2 of the Final BOD; CH2M Hill 2015a).

6 References

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Tables

Table 3.1
Summary of NTH IRZ Well Operations
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-15	Upper	Injection	Oct-24	282,415	22	721	97	6.5
IRZ-15 IRZ-15	Upper Upper	Injection Injection	Nov-24 Dec-24	261,058 207,119	18 15	681 733	95 99	6.4 4.7
IRZ-15	Upper	Injection	Jan-25	191,582	11	547	74	5.8
IRZ-15	Upper	Injection	Feb-25	152,161	4.6	370	55	6.9
IRZ-15	Upper	Injection	Mar-25	297,478	9.0	702	94	7.1
IRZ-15 IRZ-15	Upper Upper	Injection	Apr-25 May-25	223,525 74,268	9.7 0	458 167	64 22	8.1 7.4
IRZ-15	Upper	Injection Injection	Jun-25	187,744	9.4	418	58	7.5
IRZ-15	Upper	Injection	Jul-25	283,828	8.8	654	88	7.2
IRZ-15	Upper	Injection	Aug-25	329,414	10	733	98	7.5
IRZ-15	Upper	Injection	Sep-25	361,289	11	711	99	8.5
IRZ-15 IRZ-15	Lower Lower	Injection Injection	Oct-24 Nov-24	690,625 609,219	53 41	722 684	97 95	15.9 14.8
IRZ-15	Lower	Injection	Dec-24	612,129	44	734	99	13.9
IRZ-15	Lower	Injection	Jan-25	446,523	24	555	75	13.4
IRZ-15	Lower	Injection	Feb-25	217,502	6.0	370	55	9.8
IRZ-15 IRZ-15	Lower Lower	Injection Injection	Mar-25 Apr-25	308,875 197,393	10 8.7	702 458	94 64	7.3 7.2
IRZ-15	Lower	Injection	May-25	69,063	0	167	22	6.9
IRZ-15	Lower	Injection	Jun-25	217,188	11	418	58	8.7
IRZ-15	Lower	Injection	Jul-25	290,391	8.8	654	88	7.4
IRZ-15	Lower	Injection	Aug-25	238,506	6.7	731	98	5.4
IRZ-15 IRZ-16	Lower Upper	Injection Injection	Sep-25 Oct-24	192,119 220,664	5.8 17	698 724	97 97	4.6 5.1
IRZ-16	Upper	Injection	Nov-24	241,553	16	685	95	5.9
IRZ-16	Upper	Injection	Dec-24	232,129	17	736	99	5.3
IRZ-16	Upper	Injection	Jan-25	96,680	6.2	310	42	5.2
IRZ-16 IRZ-16	Upper Upper	Injection	Feb-25 Mar-25	280,012 296,228	13 9.1	641 699	95 94	7.3 7.1
IRZ-16	Upper Upper	Injection Injection	Mar-25 Apr-25	296,228	9.1 8.5	458	94 64	7.1
IRZ-16	Upper	Injection	May-25	276,348	8.8	668	90	6.9
IRZ-16	Upper	Injection	Jun-25	53,818	4.4	137	19	6.5
IRZ-16	Upper	Injection	Jul-25	270,176	8.5	654	88	6.9
IRZ-16	Upper	Injection	Aug-25	378,330	12 11	732	98	8.6
IRZ-16 IRZ-16	Upper Lower	Injection Injection	Sep-25 Oct-24	390,625 447,217	35	714 723	99 97	9.1 10.3
IRZ-16	Lower	Injection	Nov-24	405,293	26	684	95	9.9
IRZ-16	Lower	Injection	Dec-24	384,922	26	735	99	8.7
IRZ-16	Lower	Injection	Jan-25	154,639	10	330	44	7.8
IRZ-16 IRZ-16	Lower	Injection	Feb-25 Mar-25	382,299 409,752	19 13	640 698	95 94	10.0 9.8
IRZ-16	Lower Lower	Injection Injection	Apr-25	247,842	11	458	64	9.0
IRZ-16	Lower	Injection	May-25	318,008	9.1	668	90	7.9
IRZ-16	Lower	Injection	Jun-25	61,982	4.7	137	19	7.5
IRZ-16	Lower	Injection	Jul-25	321,982	11	654	88	8.2
IRZ-16	Lower	Injection	Aug-25	345,479	10	731	98	7.9
IRZ-16 IRZ-17	Lower Upper	Injection Injection	Sep-25 Oct-24	293,545 180,898	8.6 13	713 725	99 97	6.9 4.2
IRZ-17	Upper	Injection	Nov-24	104,561	7.9	356	49	4.9
IRZ-17	Upper	Injection	Dec-24	181,328	13	729	98	4.1
IRZ-17 IRZ-17	Upper	Injection	Jan-25 Feb-25	100,459 8,574	5.3 0.35	691 84	93 13	2.4
IRZ-17	Upper Upper	Injection Injection	Mar-25	0,074	0.35			
IRZ-17	Upper	Injection	Apr-25	90,996	3.7	233	32	6.5
IRZ-17	Upper	Injection	May-25	252,813	7.3	696	94	6.1
IRZ-17	Upper	Injection	Jun-25	124,160	5.9	447	62	4.6
IRZ-17 IRZ-17	Upper Upper	Injection Injection	Jul-25 Aug-25	174,258 94,590	5.6 2.5	654 302	88 41	4.4 5.2
IRZ-17	Upper	Injection	Sep-25	254,697	7.2	711	99	6.0
IRZ-17	Lower	Injection	Oct-24	127,354	10	723	97	2.9
IRZ-17	Lower	Injection	Nov-24	64,043	4.0	359	50	3.0
IRZ-17 IRZ-17	Lower Lower	Injection Injection	Dec-24 Jan-25	152,793 258,613	11 14	728 732	98 98	3.5 5.9
IRZ-17	Lower	Injection	Feb-25	270,933	14	641	95	7.0
IRZ-17	Lower	Injection	Mar-25	204,370	4.6	549	74	6.2
IRZ-17	Lower	Injection	Apr-25	45,586	1.9	233	32	3.3
IRZ-17 IRZ-17	Lower Lower	Injection Injection	May-25 Jun-25	109,482 52,803	3.3 2.9	687 446	92 62	2.7 2.0
IRZ-17	Lower	Injection	Jul-25	79,355	2.4	651	87	2.0
IRZ-17	Lower	Injection	Aug-25	44,600	1.7	301	40	2.5
IRZ-17	Lower	Injection	Sep-25	100,313	3.2	706	98	2.4
IRZ-18	Upper	Injection	Oct-24	192,518	11	711	96 50	4.5
IRZ-18 IRZ-18	Upper Upper	Injection Injection	Nov-24 Dec-24	143,670 257,531	7.6 18	359 694	50 93	6.7 6.2
IRZ-18	Upper	Injection	Jan-25	99,097	5.3	697	94	2.4
IRZ-18	Upper	Injection	Feb-25	63,304	5.5	332	49	3.2
IRZ-18 IRZ-18	Upper Upper	Injection	Mar-25	275,457 139,666	8.8 4.3	697 370	94 51	6.6 6.3
IRZ-18	Upper	Injection Injection	Apr-25 May-25	182,818	4.3 8.7	438	59	7.0
IRZ-18	Upper	Injection	Jun-25	110,778	4.7	440	61	4.2
IRZ-18	Upper	Injection	Jul-25	166,102	5.5	654	88	4.2
IRZ-18	Upper	Injection	Aug-25	149,356	2.1	673	90	3.7
IRZ-18	Upper	Injection	Sep-25	97,705	4.5	277 712	39 96	5.9 2.7
IRZ-18 IRZ-18	Lower Lower	Injection Injection	Oct-24 Nov-24	117,294 68,737	6.1 3.7	342	96 48	3.3
IRZ-18	Lower	Injection	Dec-24	135,562	9.9	726	98	3.1
IRZ-18	Lower	Injection	Jan-25	111,349	6.2	727	98	2.6
IRZ-18	Lower	Injection	Feb-25 Mar-25	54,786 129,244	4.2 3.8	333 693	50 93	2.7 3.1
IRZ-18 IRZ-18	Lower Lower	Injection Injection	Apr-25	129,244 66,021	3.8 1.8	370	93 51	3.1
IRZ-18	Lower	Injection	May-25	80,605	3.7	443	60	3.0
IRZ-18	Lower	Injection	Jun-25	73,428	3.7	445	62	2.8
IRZ-18	Lower Lower	Injection	Jul-25	105,205 103,447	3.4 1.5	653 679	88 91	2.7 2.5
IRZ-18 IRZ-18	Lower	Injection Injection	Aug-25 Sep-25	48,115	2.1	277	39	2.5
IRZ-10	Upper	Injection	Oct-24	228,113	13	716	96	5.3
IRZ-20	Upper	Injection	Nov-24	211,406	14	683	95	5.2
IRZ-20	Upper	Injection	Dec-24	125,092	10	407	55	5.1

Arcadis Page 1 of 4

Table 3.1
Summary of NTH IRZ Well Operations
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-20 IRZ-20	Upper Upper	Injection Injection	Jan-25 Feb-25	243,427 268,898	14 13	731 640	98 95	5.6 7.0
IRZ-20	Upper	Injection	Mar-25	306,874	9.4	696	94	7.3
IRZ-20	Upper	Injection	Apr-25	154,611	7.7	368	51	7.0
IRZ-20	Upper	Injection	May-25	287,702	8.6	695	93	6.9
IRZ-20	Upper	Injection	Jun-25	173,184	7.8	441	61	6.5
IRZ-20	Upper	Injection	Jul-25	224,277	6.5	654	88	5.7
IRZ-20	Upper Upper	Injection	Aug-25	93,828 127,266	2.3 4.5	718 624	96 87	2.2 3.4
IRZ-20 IRZ-20	Lower	Injection Injection	Sep-25 Oct-24	306,230	18	715	96	7.1
IRZ-20	Lower	Injection	Nov-24	289,131	20	683	95	7.1
IRZ-20	Lower	Injection	Dec-24	210,713	15	407	55	8.6
IRZ-20	Lower	Injection	Jan-25	249,893	14	730	98	5.7
IRZ-20	Lower	Injection	Feb-25	197,738	10	639	95	5.2
IRZ-20	Lower	Injection	Mar-25	202,741 111,387	6.3 6.2	695 368	93 51	4.9 5.0
IRZ-20 IRZ-20	Lower Lower	Injection Injection	Apr-25 May-25	196,572	5.5	695	93	4.7
IRZ-20	Lower	Injection	Jun-25	114,463	5.1	443	62	4.3
IRZ-20	Lower	Injection	Jul-25	184,004	5.9	653	88	4.7
IRZ-20	Lower	Injection	Aug-25	204,082	5.9	731	98	4.7
IRZ-20	Lower	Injection	Sep-25	170,837	5.9	625	87	4.6
IRZ-21	Upper	Injection	Oct-24					
IRZ-21	Upper	Injection	Nov-24					
IRZ-21	Upper	Injection	Dec-24					
IRZ-21 IRZ-21	Upper Upper	Injection Injection	Jan-25 Feb-25					
IRZ-21	Upper	Injection	Mar-25					
IRZ-21	Upper	Injection	Apr-25					
IRZ-21	Upper	Injection	May-25					
IRZ-21	Upper	Injection	Jun-25					
IRZ-21	Upper	Injection	Jul-25					
IRZ-21 IRZ-21	Upper Upper	Injection Injection	Aug-25 Sep-25		 			
IRZ-21	Lower	Injection Injection	Sep-25 Oct-24					
IRZ-21	Lower	Injection	Nov-24					
IRZ-21	Lower	Injection	Dec-24					
IRZ-21	Lower	Injection	Jan-25					
IRZ-21	Lower	Injection	Feb-25					
IRZ-21	Lower	Injection	Mar-25					
IRZ-21 IRZ-21	Lower Lower	Injection	Apr-25 May-25					
IRZ-21	Lower	Injection Injection	Jun-25					
IRZ-21	Lower	Injection	Jul-25					
IRZ-21	Lower	Injection	Aug-25					
IRZ-21	Lower	Injection	Sep-25					
IRZ-25	Upper/Upper Middle	Injection	Oct-24					
IRZ-25	Upper/Upper Middle	Injection	Nov-24					
IRZ-25 IRZ-25	Upper/Upper Middle Upper/Upper Middle	Injection Injection	Dec-24 Jan-25					
IRZ-25	Upper/Upper Middle	Injection	Feb-25					
IRZ-25	Upper/Upper Middle	Injection	Mar-25					
IRZ-25	Upper/Upper Middle	Injection	Apr-25					
IRZ-25	Upper/Upper Middle	Injection	May-25					
IRZ-25	Upper/Upper Middle	Injection	Jun-25					
IRZ-25	Upper/Upper Middle	Injection	Jul-25					
IRZ-25	Upper/Upper Middle	Injection	Aug-25					
IRZ-25 IRZ-25	Upper/Upper Middle Lower	Injection Injection	Sep-25 Oct-24		 			
IRZ-25	Lower	Injection	Nov-24					
IRZ-25	Lower	Injection	Dec-24					
IRZ-25	Lower	Injection	Jan-25					
IRZ-25	Lower	Injection	Feb-25					
IRZ-25	Lower	Injection	Mar-25					
IRZ-25	Lower	Injection	Apr-25					
IRZ-25	Lower	Injection	May-25					
IRZ-25	Lower	Injection	Jun-25					
IRZ-25 IRZ-25	Lower Lower	Injection	Jul-25		 			
IRZ-25	Lower	Injection Injection	Aug-25 Sep-25	 				
IRZ-23	Upper	Injection	Oct-24	128,365	9.9	705	95	3.0
IRZ-27	Upper	Injection	Nov-24	79,458	5.6	651	90	2.0
IRZ-27	Upper	Injection	Dec-24	117,685	7.6	510	69	3.8
IRZ-27	Upper	Injection	Jan-25	144,121	9.1	628	84	3.8
IRZ-27	Upper/Middle ¹	Injection	Feb-25	221,809	17	569	85	6.5
IRZ-27	Upper/Middle ¹	Injection	Mar-25	247,099	22	634	85	6.5
IRZ-27	Upper	Injection	Apr-25	25,975	1.7	136	19	3.2
IRZ-27	Upper	Injection	May-25	83,131 60,739	4.8 4.5	697 654	94 91	2.0
IRZ-27 IRZ-27	Upper Uppe r	Injection Injection	Jun-25 Jul-25	60,739 67,316	4.5 4.5	654 695	91 93	1.5 1.6
IRZ-27	Upper	Injection	Jui-25 Aug-25	66,735	3.9	717	96	1.6
IRZ-27	Upper	Injection	Sep-25	56,806	4.2	704	98	1.3
IRZ-27	Middle/Lower	Injection	Oct-24	353,574	27	697	94	8.5
IRZ-27	Middle/Lower	Injection	Nov-24	297,676	22	684	95	7.3
IRZ-27	Middle/Lower	Injection	Dec-24	247,666	17	495	67	8.3
IRZ-27	Middle/Lower	Injection	Jan-25	361,367	24	669	90	9.0
IRZ-27	Lower ¹	Injection	Feb-25	400	0.07	6.2	0.9	1.1
IRZ-27	Lower ¹	Injection	Mar-25	 66 045	 1.6	 152	 21	 7.2
IRZ-27	Middle/Lower	Injection	Apr-25	66,045 306,641	4.6	153 635	21 85	7.2 8.0
IRZ-27 IRZ-27	Middle/Lower Middle/Lower	Injection	May-25 Jun-25	306,641 352,637	21 24	635 661	85 92	8.0 8.9
IRZ-27	Middle/Lower	Injection Injection	Jun-25 Jul-25	352,637 360,469	24 22	700	92 94	8.9 8.6
IRZ-27	Middle/Lower	Injection	Aug-25	417,129	25	700	98	9.6
IRZ-27	Middle/Lower	Injection	Sep-25	295,507	25	615	85	8.0
IRZ-29	Upper	Injection	Oct-24	77,125	6.6	163	22	7.9
IRZ-29	Upper	Injection	Nov-24	292,205	21	673	93	7.2
IRZ-29	Upper	Injection	Dec-24	309,932	24	730	98	7.1
IRZ-29	Upper	Injection	Jan-25	312,885 333,651	19 22	731 639	98 95	7.1 8.7
IRZ-29	Upper	Injection	Feb-25	333,651	22	039	90	0.1

Arcadis Page 2 of 4

Table 3.1
Summary of NTH IRZ Well Operations
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume (gal)	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating (gpm)
IRZ-29	Upper	Injection	Mar-25	342,225	27	698	94	8.2
IRZ-29	Upper	Injection	Apr-25	209,570	13	454	63	7.7
IRZ-29	Upper	Injection	May-25	280,186	17 13	673	90 62	6.9 5.6
IRZ-29 IRZ-29	Upper Upper	Injection Injection	Jun-25 Jul-25	149,512 121,641	5.6	447 439	59	4.6
IRZ-29	Upper	Injection	Aug-25					
IRZ-29	Upper	Injection	Sep-25					
IRZ-29	Lower	Injection	Oct-24	52,371	3.4	234	31	3.7
IRZ-29 IRZ-29	Lower Lower	Injection Injection	Nov-24 Dec-24	132,920 128,385	11 10	668 729	93 98	3.3 2.9
IRZ-29	Lower	Injection	Jan-25	132,830	8.4	730	98	3.0
IRZ-29	Lower	Injection	Feb-25	151,389	10	638	95	4.0
IRZ-29 IRZ-29	Lower Lower	Injection	Mar-25 Apr-25	240,994 164,891	19 11	698 454	94 63	5.8 6.1
IRZ-29	Lower	Injection Injection	May-25	138,311	8.2	665	89	3.5
IRZ-29	Lower	Injection	Jun-25	68,027	6.5	438	61	2.6
IRZ-29	Lower	Injection	Jul-25	86,465	4.1	439	59	3.3
IRZ-29	Lower	Injection	Aug-25					
IRZ-29 IRZ-31	Lower Upper	Injection Injection	Sep-25 Oct-24	 266,020	 18	 484	 65	9.2
IRZ-31	Upper	Injection	Nov-24	327,419	23	594	83	9.2
IRZ-31	Upper	Injection	Dec-24	399,950	30	731	98	9.1
IRZ-31	Upper	Injection	Jan-25	382,513	24	721	97	8.8
IRZ-31	Upper	Injection	Feb-25	289,395	17	551	82	8.8
IRZ-31 IRZ-31	Upper Upper	Injection Injection	Mar-25 Apr-25	234,629 248,135	12 17	446 458	60 64	8.8 9.0
IRZ-31	Upper	Injection	May-25	376,348	23	698	94	9.0
IRZ-31	Upper	Injection	Jun-25	213,613	19	448	62	7.9
IRZ-31	Upper	Injection	Jul-25	198,818	9.2	440	59	7.5
IRZ-31	Upper	Injection	Aug-25	128,369	10	297	40	7.2
IRZ-31 IRZ-31	Upper Lower	Injection Injection	Sep-25 Oct-24	155,771 71,950	8.8 6.5	386 462	54 62	6.7 2.6
IRZ-31	Lower	Injection	Nov-24	237,522	16	579	80	6.8
IRZ-31	Lower	Injection	Dec-24	179,875	13	725	97	4.1
IRZ-31	Lower	Injection	Jan-25	176,772 102,310	10 6.2	714 547	96 81	4.1 3.1
IRZ-31 IRZ-31	Lower Lower	Injection Injection	Feb-25 Mar-25	169,565	11	439	59	6.4
IRZ-31	Lower	Injection	Apr-25	140,797	9.5	457	63	5.1
IRZ-31	Lower	Injection	May-25	169,183	10	697	94	4.0
IRZ-31	Lower	Injection	Jun-25	94,219	8.4	445	62	3.5
IRZ-31 IRZ-31	Lower Lower	Injection	Jul-25 Aug-25	103,037 21,016	4.6 1.2	439 221	59 30	3.9 1.6
IRZ-31	Lower	Injection Injection	Sep-25	2,101	0.48	60	8.3	0.6
IRZ-33	Upper	Injection	Oct-24	278,782	20	722	97	6.4
IRZ-33	Upper	Injection	Nov-24	280,333	20	671	93	7.0
IRZ-33 IRZ-33	Upper Upper	Injection Injection	Dec-24 Jan-25	251,706 280,243	17 12	641 706	86 95	6.5 6.6
IRZ-33	Upper	Injection	Feb-25	102,507	5.0	218	32	7.8
IRZ-33	Upper	Injection	Mar-25	268,815	21	698	94	6.4
IRZ-33	Upper	Injection	Apr-25	196,522	13 17	458	64 94	7.2
IRZ-33 IRZ-33	Upper Upper	Injection Injection	May-25 Jun-25	283,686 245,703	18	700 635	88	6.8 6.4
IRZ-33	Upper	Injection	Jul-25	187,861	8.4	487	65	6.4
IRZ-33	Upper	Injection	Aug-25		-			
IRZ-33	Upper	Injection	Sep-25					
IRZ-33 IRZ-33	Lower Lower	Injection Injection	Oct-24 Nov-24	113,091 130,047	7.9 8.0	675 593	91 82	2.8 3.7
IRZ-33	Lower	Injection	Dec-24	106,364	8.0	593	80	3.0
IRZ-33	Lower	Injection	Jan-25	108,976	5.2	702	94	2.6
IRZ-33	Lower	Injection	Feb-25	32,057	1.7	206	31	2.6
IRZ-33 IRZ-33	Lower Lower	Injection Injection	Mar-25 Apr-25	93,315 53,082	8.6 3.7	683 441	92 61	2.3 2.0
IRZ-33	Lower	Injection	May-25	71,189	4.9	664	89	1.8
IRZ-33	Lower	Injection	Jun-25	56,896	4.3	600	83	1.6
IRZ-33	Lower	Injection	Jul-25	40,219	1.0	419	56	1.6
IRZ-33 IRZ-33	Lower Lower	Injection Injection	Aug-25 Sep-25		 			
IRZ-35	Upper	Injection	Oct-24	257,843	21	550	74	7.8
IRZ-35	Upper	Injection	Nov-24	315,568	18	678	94	7.8
IRZ-35	Upper	Injection	Dec-24	342,244 303,390	26 18	734 702	99 94	7.8 7.2
IRZ-35 IRZ-35	Upper Upper	Injection Injection	Jan-25 Feb-25	283,775	18	639	94 95	7.4
IRZ-35	Upper	Injection	Mar-25	147,143	4.8	342	46	7.2
IRZ-35	Upper	Injection	Apr-25	210,645	14	458	64	7.7
IRZ-35	Upper	Injection	May-25	316,309	20	699	94	7.5
IRZ-35 IRZ-35	Upper Upper	Injection Injection	Jun-25 Jul-25	245,420 181,240	18 8.2	630 486	88 65	6.5 6.2
IRZ-35	Upper	Injection	Aug-25					
IRZ-35	Upper	Injection	Sep-25					
IRZ-37	Upper	Injection	Oct-24	156,725	11	562	76	4.6
IRZ-37 IRZ-37	Upper Upper	Injection Injection	Nov-24 Dec-24	181,647 173,539	11 14	622 667	86 90	4.9 4.3
IRZ-37 IRZ-37	Upper	Injection	Dec-24 Jan-25	60,199	1.8	287	39	3.5
IRZ-37	Upper	Injection	Feb-25	284,906	18	640	95	7.4
IRZ-37	Upper	Injection	Mar-25	189,107	16	697	94	4.5
IRZ-37 IRZ-37	Upper Upper	Injection	Apr-25 May-25	67,356 47,126	4.9 3.9	458 570	64 77	2.5 1.4
IRZ-37 IRZ-37	Upper	Injection Injection	Jun-25	112,500	6.5	419	58	4.5
IRZ-37	Upper	Injection	Jul-25	218,954	13	701	94	5.2
IRZ-37	Upper	Injection	Aug-25	141,328	8.5	697	94	3.4
IRZ-37	Upper	Injection	Sep-25	66,115	4.0	688	96	1.6
	Upper	Injection	Oct-24					
IRZ-39		Injection	Nov-24					
	Upper Upper	Injection Injection	Nov-24 Dec-24	 5,743	0.56	98	13	1.0
IRZ-39 IRZ-39 IRZ-39 IRZ-39	Upper Upper Upper	Injection Injection	Dec-24 Jan-25	5,743 49,555	0.56 2.7	98 648	13 87	1.0 1.3
IRZ-39 IRZ-39 IRZ-39	Upper Upper	Injection	Dec-24	5,743	0.56	98	13	1.0

Arcadis Page 3 of 4

Table 3.1 **Summary of NTH IRZ Well Operations Third Quarter 2025 Well Performance Report** Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Aquifer Interval	Well Type	Operating Period	Recirculated Groundwater Volume	Ethanol Volume (gal)	Total Hours Operating (hours)	Active Time Operating (percent)	Average Flow Rate When Operating
ID7 20	Unnor	Injection	Mov 25	(gal) 16,076	0.92	593	80	(gpm) 0.5
IRZ-39 IRZ-39	Upper Upper	Injection Injection	May-25 Jun-25	8,268	0.58	203	28	0.5
IRZ-39	Upper	Injection	Jul-25	35,234	1.8	681	92	0.9
IRZ-39	Upper	Injection	Aug-25	15,465	0.83	535	72	0.5
IRZ-39	Upper	Injection	Sep-25	7,928	0.53	326	45	0.4
IRZ-9	Upper	Extraction	Oct-24					
IRZ-9	Upper	Extraction	Nov-24	1,992		5.8	1	5.8
IRZ-9 IRZ-9	Upper Upper	Extraction Extraction	Dec-24 Jan-25					
IRZ-9	Upper	Extraction	Feb-25	4,334		2.2	0	32.8
IRZ-9	Upper	Extraction	Mar-25	'				
IRZ-9	Upper	Extraction	Apr-25					
IRZ-9	Upper	Extraction	May-25	6,977		3.4	0	34.0
IRZ-9 IRZ-9	Upper Upper	Extraction Extraction	Jun-25 Jul-25	660,865 1,428,033		137 294	19 40	80.4 80.9
IRZ-9	Upper	Extraction	Aug-25	1,692		4.6	0.62	6.2
IRZ-9	Upper	Extraction	Sep-25					
IRZ-13D	Lower	Extraction	Oct-24	387,900		542	73	11.9
IRZ-13D	Lower	Extraction	Nov-24	482,110		581	81	13.8
IRZ-13D	Lower	Extraction	Dec-24	466,875		620	83	12.6
IRZ-13D IRZ-13D	<u>Lower</u> Lower	Extraction Extraction	Jan-25 Feb-25	48,135 37,002		<u>58</u> 44	8 7	13.8 14.0
IRZ-13D	Lower	Extraction	Mar-25	193,604		245	33	13.2
IRZ-13D	Lower	Extraction	Apr-25	219,365		355	49	10.3
IRZ-13D	Lower	Extraction	May-25	58,594		92	12	10.6
IRZ-13D	Lower	Extraction	Jun-25					
IRZ-13D	Lower	Extraction	Jul-25	83,926 194,473		148 233	20 31	9.5 13.9
IRZ-13D IRZ-13D	Lower Lower	Extraction Extraction	Aug-25 Sep-25	74,111		39	5.4	31.6
IRZ-13B	Upper	Extraction	Oct-24	381		0.75	0	8.5
IRZ-13S	Upper	Extraction	Nov-24	249,512		306	43	13.6
IRZ-13S	Upper	Extraction	Dec-24	129,434		199	27	10.8
IRZ-13S	Upper	Extraction	Jan-25 Feb-25	24,551 1,592		32	0	12.9
IRZ-13S IRZ-13S	Upper Upper	Extraction Extraction	Mar-25	26,152		1.8 41	6	14.7 10.6
IRZ-13S	Upper	Extraction	Apr-25					
IRZ-13S	Upper	Extraction	May-25	3,018		3.2	0	15.9
IRZ-13S	Upper	Extraction	Jun-25					
IRZ-13S	Upper	Extraction	Jul-25					
IRZ-13S	Upper	Extraction	Aug-25	104,180		59	7.9	29.6
IRZ-13S IRZ-23	Upper	Extraction	Sep-25	70,801		39	5.4	30.2
IRZ-23	Lower	Extraction Extraction	Oct-24 Nov-24	2,850,554		726	98	65.4
IRZ-23	Lower	Extraction	Dec-24	2,677,695		679	94	65.7
IRZ-23	Lower	Extraction	Jan-25	2,871,965		739 733	99 99	64.8 81.4
IRZ-23	Lower	Extraction	Feb-25	3,579,117 2,748,931		638	95	71.8
IRZ-23	Lower Lower	Extraction	Mar-25	3,081,034		700	94	73.4
IRZ-23	Lower	Extraction	Apr-25	1,912,914		458	64	69.6
IRZ-23	Lower	Extraction	May-25	2,740,355		696	94	65.6
IRZ-23	Lower	Extraction	Jun-25	1,634,113		662	92	41.1
IRZ-23	Lower	Extraction	Jul-25	2,077,734		703	95	49.3
IRZ-23	Lower	Extraction	Aug-25	2,351,098		674	91	58.2
IRZ-23	Lower	Extraction	Sep-25	2,343,051		679	94	57.5
PTI-1D	Lower	Extraction	Oct-24	1,165,830		725	97	26.8
PTI-1D	Lower	Extraction	Nov-24	1,064,531		685	95	25.9
PTI-1D	Lower	Extraction	Dec-24	1,154,600		739	99	26.0
PTI-1D	Lower	Extraction	Jan-25	446,816		350	47	21.3
PTI-1D	Lower	Extraction	Feb-25	808,436		641	95	21.0
PTI-1D	Lower	Extraction	Mar-25	901,867		700	94	21.5
PTI-1D	Lower	Extraction	Apr-25	620,898		458	64	22.6
PTI-1D	Lower	Extraction	May-25	977,617		693	93	23.5
PTI-1D	Lower	Extraction	Jun-25	446,211		309	43	24.1
PTI-1D	Lower	Extraction	Jul-25	2,617		1.7	0.22	26.2
PTI-1D	Lower	Extraction	Aug-25	7,314		4.6	0.62	26.6
PTI-1D	Lower	Extraction	Sep-25	5,088		3.3	0.45	26.1

Notes:

2. Results collected during the reporting period are bolded.

Acronyms and Abbreviations:

-- = not applicable gal = gallon

gpm = gallon per minute ID = identification

IRZ = In Situ Reactive Zone

NTH = National Trails Highway

Arcadis Page 4 of 4

^{1.} Injection well IRZ-27 is a triple-screened well and is separated into two injection intervals using a packer. The packer was historically installed between the upper screen and the middle screen, subdividing the well into an upper screen interval and a middle/lower screen interval. The packer was reinstalled to subdivide the well into an upper/middle interval and a lower interval on January 30, 2025, to prioritize Cr6 treatment in the lowest interval. Following the packer relocation, less than 1 gallon per minute of flow was able to be injected into the lower interval, and the packer was subsequently reinstalled between the upper screen and middle screen during the March 2025 rehabilitation event at IRZ-27.

Date	Approximate IRZ Systemwide Downtime (days)	Operations and Maintenance Log	Notes
7/1/2025		Ethanol dosing occurred in southern IRZ.	
7/2/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.	
7/2/2025 through 7/3/2025		Reinjected conditioned water into injection wells.	
7/3/2025		Collected manual water level readings at IRZ injection well IRZ-29 (lower). Transducer replacement at IRZ-29 (lower).	IRZ-29 (lower) transducer producing inaccurate water level data.
7/7/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.	
7/9/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.	
7/15/2025		Ethanol dosing occurred.	
7/16/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.	
7/16/2025 through 7/17/2025 7/17/2025		Reinjected conditioned water into injection wells. Collected manual water level readings at IRZ injection wells IRZ-16 (upper), IRZ-20 (upper), IRZ-29, and IRZ-33 (upper). Offset adjustments made at IRZ-16 (upper) and IRZ-29 (upper).	Confirm accurate water level data.
7/18/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.	
7/21/2025 through 9/30/2025		PTI-1D shutdown.	PTI-1D pilot extraction completed; post-extraction test monitoring underway.
7/21/2025 through 8/17/2025		IRZ-31 cycled off.	
7/21/2025 through 9/30/2025		IRZ-29, IRZ-33, and IRZ-35 cycled off.	Select southern injection wells cycled off for a rest period.
7/21/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
7/22/2025		Ethanol dosing occurred in southern IRZ.	
7/23/2025 through 7/31/2025 7/23/2025 through 7/25/2025		Well rehabilitation at IRZ-33. Reinjected conditioned water into injection wells.	
		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and	
7/23/2025		IRZ-39. Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and	**
7/25/2025		IRZ-39.	
7/26/2025 through 7/28/25	1.7	IRZ system offline.	Leak detection alarm in IRZ-35 and IRZ-37 vaults.
7/26/2025 through 8/7/2025 7/28/2025 through 7/30/2025		Well rehabilitation at IRZ-35. Reinjected conditioned water into injection wells.	
7/29/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
7/29/2025		Collected manual water level reading at IRZ injection well IRZ-37.	Collected reading to confirm transducer reading. Offset adjustment at IRZ-37.
7/30/2025		Ethanol dosing occurred.	
7/31/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/5/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/6/2025		Ethanol dosing occurred in southern IRZ.	Collected readings to confirm transducer readings. Offset adjustment at
8/7/2025		Collected manual water level readings at IRZ injection well IRZ-16.	IRZ-16 (upper) only.
8/7/2025 through 8/24/2025		IRZ-17 offline for well rehabilitation.	
8/8/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/11/2025		Carbon filter replacement at TCS.	Hydrogen sulfide monitoring system alarmed and shut down the filter system.
8/11/2025 through 8/26/2025		Well rehabilitation at IRZ-29.	
8/12/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/12/2025 through 8/14/2025 8/13/2025		Reinjected conditioned water into injection wells. Ethanol dosing occurred.	
8/15/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/18/2025		IRZ-31 cycled on.	IRZ-31 cycled on to maintain at least 60 gpm injection capacity during rehabilitation of northern injection wells.
8/18/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.	
8/19/2025 8/20/2025		Ethanol dosing occurred in southern IRZ. IRZ-31 (lower) transducer replaced.	Transmitter faulting. Replaced with 0-100 psi transducer.
8/20/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	<u> </u>
8/21/2025 through 8/22/2025		Reinjected conditioned water into injection wells.	
8/22/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	
8/25/2025 through 8/27/2025		IRZ-18 offline for approximately 54 hours for planned well rehabilitation.	Team did not have time to implement rehabilitation prior to long weekend, and well was brought back online.
8/25/2025		Ethanol dosing occurred.	
8/25/2025	0.1	IRZ system offline.	Rain infiltration at multiple well vaults.
8/26/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.	
8/28/2025		Collected manual water level readings at IRZ injection well IRZ-16 (upper).	Collected readings to confirm transducer readings.
8/28/2025 through 8/29/2025 8/28/2025 through 8/29/2025	0.3	Reinjected conditioned water into injection wells. IRZ system offline.	 Rain infiltration at well vaults.
8/29/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, and IRZ-27.	Southern wells were offline for low float alarm installations at Node 2. A secondary warning float alarm was added to each injection well to reduce system-wide shutdowns caused by rain infiltration.

Arcadis Page 1 of 2

Date	Approximate IRZ Systemwide Downtime (days)	Operations and Maintenance Log	Notes		
8/29/2025 through 9/2/2025		Switched from running extraction well IRZ-23 to IRZ-13 (upper and lower).	Transducer alarm then high high pressure alarm occurred and could not be reset remotely over the long weekend. Turned on IRZ-13 to keep the system online.		
9/2/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-31, IRZ-37, and IRZ-39.			
9/2/2025 through 9/5/2025		Reinjected conditioned water into injection wells.			
9/3/2025		Ethanol dosing occurred in southern IRZ.			
9/4/2025		IRZ-31 (lower) cycled off.	IRZ-31 (lower) cycled off due to low injection rate.		
9/4/2025 through 9/6/2025		IRZ-18 offline for approximately 55 hours for planned well rehabilitation.	Team did not have time to implement rehabilitation prior to weekend. Rehabilitation commenced the following week.		
9/5/2025		Pumped approximately 30 gallons of rain water from IRZ-33, IRZ-35, and IRZ-37 metering vaults and 15 gallons from the IRZ-37 well vault.	Rain infiltration.		
9/5/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-27, IRZ-31 (upper), IRZ-37, and IRZ-39.			
9/6/2025 through 9/21/2025		IRZ-18 offline for well rehabilitation.			
9/8/2025		Replaced influent 2 pH probe.	Deviation from manual readings.		
9/8/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-20, IRZ-27 (upper), IRZ-31 (upper), IRZ-37, and IRZ-39.			
9/10/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.			
9/10/2025		IRZ-27 (lower) transducer replaced.	Transducer producing inaccurate water level data.		
9/10/2025 through 9/11/2025		Reinjected conditioned water into injection wells.			
9/11/2025		Ethanol dosing occurred.			
9/11/2025		Collected manual water level readings at IRZ injection well IRZ-16 (upper) and IRZ-25.	Collected readings to confirm transducer readings. Offset adjustments at IRZ-25 (upper and lower).		
9/12/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31 (upper), IRZ-37, and IRZ-39.			
9/16/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-31 (upper), IRZ-37, and IRZ-39.			
9/16/2025		Replaced sump pump at IRZ-25 well vault.	Sump pump tripped motor circuit protector when tested.		
9/17/2025		Ethanol dosing occurred in southern IRZ.			
9/17/2025 through 9/18/2025		Reinjected conditioned water into injection wells.			
9/19/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.			
9/20/2025 through 10/7/2025		IRZ-31 offline for well rehabilitation.			
9/22/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.			
9/23/2025		Ethanol dosing occurred.	-		
9/24/2025 through 9/25/2025		Reinjected conditioned water into injection wells.			
9/24/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.			
9/25/2025		Collected manual water level readings at IRZ injection well IRZ-20 (upper).	Collected readings to confirm transducer readings. Offset adjustment at IRZ-20 (upper).		
9/26/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-20, IRZ-27, IRZ-37, and IRZ-39.			
9/29/2025		Backwashed IRZ injection wells IRZ-15, IRZ-16, IRZ-17, IRZ-18, IRZ-27, IRZ-37, and IRZ-39.			
9/30/2025 through 10/9/2025		IRZ-20 offline for well rehabilitation.			
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Note:
1. Injection wells in the northern IRZ include IRZ-15, IRZ-16, IRZ-17, IRZ-18, and IRZ-20. Injection wells in the southern IRZ include IRZ-27, IRZ-29, IRZ-31, IRZ-33, IRZ-35, IRZ-37, and IRZ-39.

Acronyms and Abbreviations:

-- = not applicable gpm = gallon per minute IRZ = In Situ Reactive Zone NTH = National Trails Highway psi = pound per square inch TCS = Topock Compressor Station

> Page 2 of 2 Arcadis

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
Extraction Wells	5									
IRZ-09-100	07/14/2025	nm	6.51	10,560	4.10	1.76	27.6	nm	nm	203.3
IRZ-09-100	08/14/2025	nm	7.75	6,565	0.00	2.20	32.7	nm	nm	11.5
IRZ-13D-210	08/14/2025	nm	7.69	7,984	3.50	1.49	31.2	nm	nm	19.7
IRZ-13S-095	08/14/2025	nm	7.64	6,257	0.20	1.03	28.9	nm	nm	9.1
IRZ-23-143	08/14/2025	nm	6.70	5,911	6.00	2.11	31.2	nm	nm	184.8
PTI-1D	07/24/2025	nm	6.66	9,895	3.90	0.96	23.5	nm	nm	76.1
PTI-1D	08/14/2025	nm	7.43	6,981	0.10	0.65	27.5	nm	nm	13.1
PTI-1D	09/04/2025	nm	6.87	3,717	0.00	2.04	25.4	nm	nm	120.1
Monitoring Well	S									
IRZ-21-065	08/14/2025	nm	7.18	6,161	1.20	0.90	38.8	nm	nm	28.8
IRZ-21-157	08/14/2025	nm	7.21	6,164	0.60	13.10	38.3	nm	nm	20.2
IRZ-25-100	08/14/2025	nm	7.10	6,029	2.60	0.79	30.3	nm	nm	46.8
IRZ-25-166	08/14/2025	nm	7.16	6,516	0.20	2.40	30.3	nm	nm	71.0
MW-09	08/27/2025	80.7	7.93	3,782	13.00	2.95	30.2	1.79	2,233	63.1
MW-10	08/27/2025	75.11	7.84	1,862	7.00	4.97	30.1	0.88	1,093	67.9
MW-15	08/27/2025	185.78	7.62	2,384	4.00	3.82	29.2	1.21	1,350	69.6
MW-20-070	07/17/2025	44.32	7.01	2,332	10.00	7.24	28.6	1.19	1,510	21.6
MW-20-070	08/13/2025	44.51	6.81	2,491	10.00	6.35	30.4	1.27	1,620	-19.4
MW-20-070	09/09/2025	44.95	6.55	2,501	4.00	6.33	29.5	1.28	1,620	107.8
MW-20-100	07/17/2025	44.7	7.00	6,157	9.00	4.32	29.2	3.33	4,000	21.6
MW-20-100	08/13/2025	44.4	6.81	5,058	9.00	1.70	32.4	2.69	3,290	-17.6
MW-20-100	09/09/2025	44.73	6.75	4,839	8.00	3.27	30.3	2.57	3,140	104.6

Arcadis Page 1 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-20-130	07/17/2025	45.08	6.98	10,634	6.00	0.24	29.0	5.98	6,910	13.6
MW-20-130	08/13/2025	44.62	6.83	9,255	8.00	0.40	34.7	5.11	6,020	-30.2
MW-20-130	09/09/2025	45.23	6.65	10,081	4.00	0.28	29.9	5.64	6,550	99.7
MW-21	07/17/2025	48.22	6.96	14,701	12.00	0.38	30.7	8.47	9,560	-91.4
MW-21	08/14/2025	49.25	7.00	13,028	9.00	1.08	36.8	7.38	8,470	-129.1
MW-21	09/11/2025	50.07	7.22	12,687	32.00	0.71	27.9	7.25	8,250	5.0
MW-22	08/21/2025	4.7	6.95	39,853	9.00	0.06	35.2	20.41	22,530	41.1
MW-26	07/17/2025	45.48	7.32	10,553	15.00	0.54	29.2	5.49	6,342	96.7
MW-26	08/14/2025	46.9	7.70	11,511	7.00	2.43	34.1	5.41	6,332	81.5
MW-26	09/11/2025	46.91	7.24	8,043	21.00	1.28	29.5	4.43	5,230	42.9
MW-27-020	08/26/2025	5.7	6.88	961	9.00	0.17	21.9	0.47	620	-37.3
MW-27-060	08/26/2025	6.37	6.84	5,273	8.00	1.38	21.2	2.83	3,400	-101.5
MW-27-085	08/26/2025	6.18	6.84	11,533	6.00	0.70	21.0	6.58	7,490	-58.3
MW-28-025	08/20/2025	12.4	7.55	2,409	12.00	0.34	28.3	1.22	1,475	78.1
MW-28-090	08/20/2025	13.25	7.65	9,047	12.00	0.49	26.3	4.92	5,762	74.3
MW-29	08/27/2025	30.52	7.01	4,762	9.00	0.64	27.7	2.53	3,100	-85.8
MW-30-030R	08/12/2025	11.92	8.04	1,732	14.00	0.23	33.1	0.72	975	68.3
MW-30-050	08/12/2025	11.63	7.60	5,621	7.00	0.57	31.3	2.62	3,255	82.4
MW-31-060	07/14/2025	38.7	8.02	11,115	14.00	0.63	31.7	5.52	6,415	92.1
MW-31-060	08/13/2025	39.27	6.89	7,790	7.00	0.64	30.5	4.27	5,060	-182.2
MW-31-060	09/11/2025	40	7.71	10,845	13.00	0.80	28.7	5.73	6,601	23.9
MW-31-135	07/14/2025	39.62	7.87	12,615	10.00	1.43	32.5	6.23	7,193	112.1
MW-31-135	08/13/2025	40.36	6.95	9,117	4.00	0.45	32.6	5.04	5,920	-27.8

Arcadis Page 2 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-31-135	09/08/2025	40.93	7.89	12,694	15.00	2.85	32.3	6.22	7,233	46.4
MW-32-020	08/21/2025	7.1	7.16	39,175	13.00	1.23	30.1	22.37	23,250	24.2
MW-32-035	08/21/2025	7.43	7.05	15,014	14.00	3.32	28.1	8.13	9,161	5.3
MW-33-040	08/28/2025	32.98	7.97	11,472	5.00	0.73	28.1	6.50	7,450	40.9
MW-33-090	08/28/2025	33.13	7.99	9,169	5.00	0.20	27.3	5.10	5,950	6.5
MW-33-150	08/28/2025	33.51	7.91	18,382	4.00	0.41	27.6	10.82	11,930	54.8
MW-33-210	08/28/2025	32.41	8.04	11,419	4.00	0.21	27.3	6.47	7,420	-92.9
MW-34-055	08/12/2025	5.98	6.93	911	3.00	0.15	30.6	0.44	590	-26.2
MW-34-055	09/10/2025	6.23	6.85	1,120	7.00	0.16	21.2	0.55	720	5.8
MW-34-080	08/12/2025	5.83	6.92	8,843	5.00	0.09	31.2	4.89	5,750	-65.9
MW-34-100	07/15/2025	5.91	7.99	15,310	7.00	1.95	28.4	9.17	9,205	96.9
MW-34-100	08/12/2025	5.92	6.94	12,724	4.00	0.11	30.3	7.24	8,260	-62.1
MW-34-100	09/10/2025	6.45	6.80	12,605	6.00	0.31	20.9	7.25	8,190	1.2
MW-35-060	08/28/2025	27.85	7.92	7,594	8.00	0.82	27.7	4.17	4,940	11.1
MW-35-135	08/25/2025	26.5	7.74	13,562	12.00	0.53	28.2	7.29	8,323	55.4
MW-36-020	08/26/2025	13.16	7.75	1,965	10.00	0.34	38.3	0.73	1,002	51.1
MW-36-040	08/26/2025	14.85	7.72	2,302	15.00	0.23	40.5	0.35	1,151	44.9
MW-36-050	08/26/2025	14.76	7.70	1,667	12.00	0.37	34.2	0.71	916	53.4
MW-36-070	08/26/2025	14.16	7.75	3,513	14.00	0.02	41.4	1.31	1,731	50.2
MW-36-090	08/26/2025	14.75	7.79	6,031	5.00	0.34	37.2	2.52	3,165	47.5
MW-36-100	07/15/2025	14.4	7.49	13,964	13.00	0.33	37.3	6.23	7,313	89.9
MW-36-100	08/12/2025	14.72	7.08	9,097	6.00	0.11	35.5	5.02	5,920	-72.8
MW-36-100	09/09/2025	15.2	7.58	13,773	10.00	1.46	36.8	6.32	7,320	44.9

Arcadis Page 3 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-38D	08/27/2025	71	11.33	23,635	12.00	0.54	30.4	12.71	13,830	41.3
MW-38S	08/27/2025	69.34	8.63	2,636	12.00	5.22	29.3	1.25	1,572	68.3
MW-39-040	08/12/2025	12.9	8.02	1,269	8.00	0.14	26.5	0.67	903	45.6
MW-39-050	08/12/2025	12.86	7.54	3,003	12.00	0.25	27.5	1.49	1,852	76.9
MW-39-060	08/12/2025	12.82	7.56	3,182	12.00	0.74	24.1	1.74	2,093	73.9
MW-39-070	07/15/2025	12.73	7.69	3,285	15.00	0.53	26.1	1.64	2,020	97.1
MW-39-070	08/12/2025	13.04	7.64	3,412	15.00	0.32	26.5	1.72	2,146	94.1
MW-39-070	09/09/2025	13.71	7.52	2,374	10.00	0.05	25.3	1.21	1,532	59.1
MW-39-080	07/15/2025	12.94	7.54	9,622	11.00	1.21	27.4	5.12	6,003	93.4
MW-39-080	08/12/2025	13.04	7.73	4,873	13.00	0.25	28.1	2.43	3,065	87.4
MW-39-080	09/09/2025	13.73	7.52	8,683	17.00	0.32	28.5	4.51	5,293	60.0
MW-39-100	07/14/2025	12.32	7.08	14,628	7.00	0.07	25.0	8.48	9,500	25.2
MW-39-100	08/12/2025	13.2	7.52	10,632	10.00	3.74	23.6	6.45	7,226	86.0
MW-39-100	09/09/2025	13.7	7.58	13,773	16.00	1.47	36.8	6.32	7,320	44.9
MW-42-030	08/26/2025	8.98	6.82	1,013	4.00	0.10	24.3	0.50	650	-85.3
MW-42-055	08/26/2025	9.05	6.86	3,237	7.00	0.19	23.3	1.71	2,120	-72.5
MW-42-065	08/26/2025	8.45	6.90	9,224	10.00	0.39	23.4	5.17	5,910	-37.8
MW-43-025	08/21/2025	8.7	7.45	3,065	11.00	0.77	24.5	1.65	1,998	44.9
MW-43-075	08/21/2025	9.1	7.72	15,161	10.00	5.02	26.7	8.51	9,534	61.9
MW-43-090	08/21/2025	9.1	7.85	21,459	18.00	0.09	23.0	12.53	13,510	72.4
MW-44-070	08/12/2025	16.72	6.87	5,620	5.00	0.06	25.0	3.03	3,650	-118.2
MW-44-115	07/16/2025	16.91	6.92	16,482	11.00	0.13	27.5	9.63	10,720	-11.2
MW-44-115	08/12/2025	16.99	6.98	14,871	6.00	0.61	26.8	8.62	9,670	-51.2

Arcadis Page 4 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-44-115	09/08/2025	17.97	7.36	14,922	6.00	0.98	32.2	8.59	9,690	105.2
MW-44-125	07/16/2025	16.76	6.93	15,040	8.00	0.10	27.4	8.73	9,780	-101.8
MW-44-125	08/12/2025	16.98	6.91	14,380	7.00	0.11	27.5	8.29	9,330	-139.1
MW-44-125	09/08/2025	17.9	7.34	14,921	3.00	0.10	31.0	8.60	9,690	94.8
MW-45-095a	08/14/2025	12.95	6.76	8,616	3.00	0.74	25.2	4.78	5,590	-41.9
MW-46-175	07/16/2025	27.29	6.98	19,863	13.00	0.31	29.0	11.78	12,920	-18.6
MW-46-175	08/14/2025	27.51	7.00	17,727	12.00	0.58	30.0	10.42	11,550	-32.1
MW-46-175	09/10/2025	28.1	7.10	17,705	5.00	0.30	28.5	10.40	11,510	23.1
MW-46-205	08/20/2025	28.4	7.82	21,276	4.00	1.03	27.7	12.60	13,820	-4.5
MW-47-055	08/28/2025	29.25	7.84	4,641	7.00	1.81	28.4	2.46	3,000	46.5
MW-47-115	08/25/2025	29.1	7.41	16,133	17.00	0.55	30.1	8.53	9,584	49.9
MW-49-135	08/27/2025	30.01	7.25	14,127	8.00	0.23	25.6	8.18	9,190	-51.1
MW-49-275	08/27/2025	30.55	7.78	24,035	4.00	0.35	25.8	14.53	15,590	30.9
MW-49-365	08/27/2025	32.15	7.76	36,238	5.00	0.61	26.9	22.86	23,580	-8.8
MW-51	07/17/2025	45.34	7.05	5,305	8.00	0.61	28.8	2.57	3,249	100.9
MW-51	08/14/2025	46.24	7.13	2,841	16.00	2.99	35.6	2.94	1,541	80.6
MW-51	09/11/2025	46.7	7.21	7,907	8.00	2.88	28.8	4.36	5,140	50.7
MW-52D	08/19/2025	16.3	6.73	33,529	19.00	0.20	43.1	14.69	16,010	27.2
MW-52M	08/19/2025	13.64	6.68	23,242	15.00	0.52	38.3	11.10	12,310	-7.5
MW-52S	08/19/2025	10.2	6.71	28,085	7.00	0.32	45.2	11.71	13,150	-28.7
MW-53D	08/19/2025	7.78	6.82	28,501	12.00	1.41	24.3	17.93	18,870	37.1
MW-53M	08/19/2025	11.71	7.01	18,179	10.00	0.52	22.1	12.66	13,510	40.2
MW-53S	08/19/2025	13.68	6.92	2,108	10.00	1.65	22.1	1.12	1,456	2.1

Arcadis Page 5 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-53S	09/10/2025	13.6	6.91	1,798	10.00	0.56	21.7	0.91	1,160	-14.8
MW-57-070	08/27/2025	53.34	7.58	2,424	13.00	2.72	28.1	1.16	1,482	62.4
MW-58BR	08/26/2025	67.28	7.36	8,449	5.00	0.65	29.9	4.64	5,490	41.7
MW-60-125	08/27/2025	99.73	7.85	10,252	14.00	3.53	27.5	5.47	6,373	51.9
MW-62-065	08/26/2025	48.78	7.77	7,512	7.00	4.58	27.1	3.96	4,700	52.9
MW-63-065	08/26/2025	49.92	7.49	8,214	8.00	1.93	27.5	4.29	5,074	55.2
MW-64BR	08/28/2025	120.44	7.12	11,698	5.00	3.68	30.2	6.62	7,600	-72.6
MW-65-160	08/28/2025	140.98	6.86	4,000	11.00	1.48	29.8	2.10	2,600	-29.6
MW-65-225	08/28/2025	140.75	6.86	8,121	9.00	1.74	31.2	4.47	5,280	-29.9
MW-67-185	08/28/2025	170.39	6.88	4,781	19.00	0.64	30.9	2.53	3,100	-33.7
MW-68-180	08/28/2025	165.35	6.94	3,418	21.00	4.09	30.7	1.78	2,220	-21.0
MW-69-195	08/28/2025	175.22	7.96	3,312	33.00	0.61	29.8	1.72	2,150	54.7
MW-70BR-225	08/26/2025	80.68	7.37	12,910	7.00	1.02	29.6	7.31	8,380	45.1
MW-71-035	07/17/2025	26.65	7.00	6,512	31.00	2.97	30.3	3.51	4,220	19.6
MW-71-035	08/14/2025	27.53	6.94	5,705	30.00	1.21	34.2	3.05	3,700	-24.2
MW-71-035	09/11/2025	28.23	7.24	5,202	35.00	2.70	28.8	2.77	3,330	51.1
MW-72-080	08/28/2025	59.25	7.06	15,414	46.00	0.24	27.4	9.09	10,150	-37.3
MW-75-033	08/18/2025	17.81	6.86	4,310	8.00	1.01	29.3	2.28	2,800	-23.9
MW-75-117	08/18/2025	17.9	6.90	11,610	9.00	0.15	30.0	6.57	7,550	-28.7
MW-75-202	08/18/2025	18	6.91	16,375	7.00	0.37	31.0	9.51	10,630	-43.8
MW-75-267	08/18/2025	17.68	6.83	21,219	6.00	2.75	32.0	12.62	13,800	-50.1
MW-75-337	08/18/2025	20.35	7.00	27,640	5.00	0.15	33.8	16.82	17,880	-81.0
MW-76-039	07/16/2025	25.74	7.33	11,862	16.00	0.62	36.4	5.36	6,304	96.7

Arcadis Page 6 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-76-039	08/13/2025	26	7.41	5,034	11.00	1.17	30.3	2.31	2,893	76.9
MW-76-039	09/10/2025	26.51	7.48	10,645	10.00	0.02	29.4	5.49	6,378	50.1
MW-76-156	07/16/2025	25.38	7.25	10,628	19.00	0.34	30.6	5.35	6,232	98.9
MW-76-156	08/13/2025	26.3	7.23	5,096	8.00	0.41	32.8	2.33	2,872	58.1
MW-76-156	09/10/2025	26.84	7.39	10,675	14.00	0.89	30.1	5.35	6,301	47.9
MW-76-181	07/16/2025	25.4	7.34	10,311	14.00	0.49	29.2	5.34	6,225	95.7
MW-76-181	08/13/2025	26.3	7.39	4,943	22.00	0.93	31.1	2.20	2,763	73.4
MW-76-181	09/10/2025	26.03	7.35	10,443	13.00	0.03	29.3	5.41	6,325	47.4
MW-76-218	07/16/2025	25.1	7.35	11,474	13.00	1.09	34.3	5.35	6,283	94.1
MW-76-218	08/13/2025	25.9	7.49	4,787	13.00	2.01	34.3	2.24	2,722	87.4
MW-76-218	09/10/2025	25.92	7.54	10,753	7.00	2.51	29.5	5.49	6,382	46.7
MW-77-046	08/13/2025	23.6	7.62	6,195	15.00	0.92	33.0	2.83	3,425	80.3
MW-77-102	08/13/2025	23.66	7.59	6,272	12.00	0.41	32.9	2.92	3,550	79.9
MW-77-158	08/13/2025	23.25	7.46	5,245	11.00	0.44	31.6	2.45	3,046	81.2
MW-77-187	07/16/2025	24	7.32	9,364	22.00	0.47	40.6	5.13	6,090	-3.5
MW-77-187	08/13/2025	23.12	7.82	6,268	16.00	0.35	39.2	2.54	3,161	65.6
MW-77-187	09/11/2025	23.4	8.01	11,032	12.00	2.43	30.8	5.52	6,450	42.9
MW-78-070	07/15/2025	45.42	6.87	8,679	36.00	2.04	30.0	4.80	5,640	17.0
MW-78-070	08/14/2025	46.1	7.45	10,622	10.00	0.03	31.1	5.20	6,163	81.9
MW-78-070	09/11/2025	46.65	7.35	10,374	12.00	0.52	29.6	5.28	6,163	45.5
MW-78-142	07/15/2025	46.11	6.89	9,707	9.00	0.70	31.6	5.39	6,290	15.6
MW-78-142	08/14/2025	46.12	6.92	8,762	11.00	0.72	31.2	4.88	5,730	-28.0
MW-78-142	09/11/2025	46.86	7.53	11,671	13.00	0.65	29.2	6.04	6,955	44.2

Arcadis Page 7 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-79-058	07/17/2025	44.72	7.24	10,144	19.00	1.38	29.4	5.28	6,119	93.9
MW-79-058	08/14/2025	45.95	7.42	10,660	13.00	0.05	31.9	5.24	6,131	81.9
MW-79-058	09/11/2025	46.1	7.25	10,053	11.00	0.39	29.4	5.17	6,035	50.1
MW-79-102	07/17/2025	44.73	7.23	9,789	7.00	1.89	28.1	5.11	5,999	80.4
MW-79-102	08/14/2025	45.6	6.77	2,923	16.00	0.03	33.3	1.27	1,675	83.1
MW-79-102	09/11/2025	46	7.15	9,703	8.00	0.33	30.2	4.84	5,706	45.1
MW-80-057	07/17/2025	46.58	7.25	10,319	16.00	0.43	30.2	6.25	6,134	101.9
MW-80-057	08/14/2025	48.03	7.28	11,195	7.00	0.83	35.2	5.13	6,033	75.5
MW-80-057	09/10/2025	48.5	7.24	10,682	14.00	0.55	31.3	5.23	6,133	55.4
MW-80-082	07/17/2025	46.53	7.27	10,162	10.00	1.63	31.0	5.03	5,906	102.7
MW-80-082	08/14/2025	47.96	7.33	10,781	17.00	0.61	32.3	6.31	6,223	74.1
MW-80-082	09/10/2025	48.4	7.31	10,664	15.00	0.71	30.6	5.34	6,236	52.4
MW-81-043	07/16/2025	22.56	7.24	9,025	9.00	0.60	30.6	5.01	5,870	1.4
MW-81-043	08/14/2025	22.83	6.82	7,981	7.00	0.47	30.2	4.39	5,190	-40.4
MW-81-043	09/09/2025	23.34	7.45	10,681	16.00	0.56	30.3	5.46	6,332	54.6
MW-81-098	07/16/2025	22.73	7.17	9,281	4.00	1.09	30.1	5.16	6,030	1.2
MW-81-098	08/14/2025	22.73	6.86	8,519	6.00	0.95	30.9	4.70	5,540	-27.1
MW-81-098	09/09/2025	23.47	7.54	11,703	13.00	1.81	33.3	5.62	6,566	54.7
MW-82-046	08/18/2025	29.09	6.96	13,892	41.00	1.56	33.6	7.94	9,030	-129.8
MW-82-112	08/18/2025	28.93	7.22	12,485	5.00	0.35	32.4	6.13	7,075	44.6
MW-82-168	08/18/2025	28	7.65	11,221	7.00	0.60	33.3	5.35	6,262	63.5
MW-82-198	08/18/2025	27.8	7.63	11,113	12.00	1.25	31.2	5.55	6,463	62.1
MW-86-030	08/20/2025	13.2	6.03	2,269	7.00	0.05	41.3	0.83	1,126	53.2

Arcadis Page 8 of 10

Table 3.3
Third Quarter 2025 Water Quality Field Parameters
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
MW-86-066	08/20/2025	13.03	7.71	11,075	11.00	0.05	36.1	5.05	5,982	33.3
MW-86-120	08/20/2025	13.35	7.72	18,222	10.00	0.03	49.1	6.89	8,092	60.5
MW-86-140	08/20/2025	14.24	6.91	22,919	8.00	0.05	45.3	9.45	10,780	48.1
MW-88-107	08/27/2025	90.84	7.82	2,903	10.00	3.66	30.0	1.31	1,723	69.1
MW-90-031	08/21/2025	5.22	7.15	19,522	19.00	0.36	29.8	10.52	11,620	53.4
MW-96-045	08/21/2025	29.37	7.93	14,342	9.00	0.63	30.6	6.17	7,230	-15.5
MW-96-217	08/21/2025	29.64	7.76	20,211	8.00	0.81	29.4	11.88	13,120	-40.2
MW-97-042	08/25/2025	26.9	7.73	4,239	15.00	2.33	28.1	2.12	2,622	50.1
MW-97-202	08/25/2025	26.24	6.81	20,886	10.00	3.12	26.5	11.95	13,070	-43.6
PT5D	07/15/2025	18.31	7.84	18,873	13.00	0.23	35.3	9.04	10,230	93.8
PT5D	08/11/2025	18.9	7.89	19,283	19.00	0.22	39.5	8.65	9,851	84.9
PT5D	09/10/2025	19.8	7.01	11,044	8.00	0.13	26.8	6.25	7,170	24.4
PT5M	08/11/2025	18.74	7.37	10,717	10.00	0.31	36.5	4.82	5,693	78.9
PT5S	08/11/2025	18.55	7.77	1,765	14.00	0.73	37.9	0.70	925	68.6
PT6D	07/14/2025	20.14	6.90	7,489	13.00	0.25	24.7	4.13	4,870	18.4
PT6D	08/11/2025	20.9	7.90	12,472	5.00	2.50	33.8	5.95	6,943	67.4
PT6D	09/10/2025	21.42	6.91	7,418	5.00	0.30	24.4	4.09	4,820	13.7
TW-02D	07/15/2025	38.54	6.93	9,145	7.00	0.06	28.9	5.09	5,940	18.1
TW-02D	08/13/2025	38.32	6.82	8,116	3.00	0.12	29.1	4.47	5,270	-46.1
TW-02D	09/09/2025	38.85	7.37	8,060	4.00	0.23	28.5	4.44	5,240	95.4
TW-02S	07/15/2025	38.3	6.93	8,766	8.00	0.74	28.8	4.86	5,700	22.6
TW-02S	08/13/2025	38.72	6.83	7,819	6.00	0.59	29.1	4.30	5,080	-36.3
TW-02S	09/09/2025	39.1	7.39	7,782	5.00	0.43	28.5	4.28	5,060	95.7

Arcadis Page 9 of 10

Table 3.3

Third Quarter 2025 Water Quality Field Parameters

Third Quarter 2025 Well Performance Report

Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Sample Date	Depth to Water (ft bTOC)	рН	Specific Conductance (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (deg C)	Salinity (ppt)	Total Dissolved Solids (mg/L)	ORP (mV)
TW-03D	07/15/2025	38.43	6.89	8,888	5.00	0.10	28.8	4.94	5,780	17.7
TW-03D	08/13/2025	38.1	6.79	7,777	7.00	0.12	29.3	4.27	5,060	-40.9
TW-03D	09/09/2025	38.55	7.35	7,766	7.00	0.15	28.9	4.27	5,050	94.8
TW-04	08/28/2025	29.91	7.04	19,139	8.00	0.33	28.5	11.32	12,440	-34.0

Acronyms and Abbreviations:

μS/cm = microsiemen per centimeter

deg C = degree Celsius

ID = identification

ft bTOC = feet below the top of casing

mg/L = milligram per liter

mV = millivolt

nm = parameter was not measured

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

ppt = part per thousand

Arcadis Page 10 of 10

Table 4.1
Monitoring Well Inspection Results
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-09	08-27-2025	Yes	Yes	Good		
MW-10	08-27-2025	Yes	Yes	Good		
MW-15	08-27-2025	Yes	Yes	Good		
MW-20-070	07-17-2025	Yes	Yes	Good		
MW-20-070	08-13-2025	Yes	Yes	Good		
MW-20-070	09-09-2025	Yes	Yes	Good		
MW-20-100	07-17-2025	Yes	Yes	Good		
MW-20-100	08-13-2025	Yes	Yes	Good		
MW-20-100	09-09-2025	Yes	Yes	Good		
MW-20-130	07-17-2025	Yes	Yes	Good		
MW-20-130	08-13-2025	Yes	Yes	Good		
MW-20-130	09-09-2025	Yes	Yes	Good		
MW-21	07-17-2025	Yes	Yes	Good		
MW-21	08-14-2025	Yes	Yes	Good		
MW-21	09-11-2025	Yes	Yes	Good		
MW-22	08-21-2025	Yes	Yes	Good		
MW-26	07-17-2025	Yes	Yes	Good		
MW-26	08-14-2025	Yes	Yes	Good		
MW-26	09-11-2025	Yes	Yes	Good		
MW-27-020	08-26-2025	Yes	Yes	Good		
MW-27-060	08-26-2025	Yes	Yes	Good		
MW-27-085	08-26-2025	Yes	Yes	Good		
MW-28-025	08-20-2025	Yes	Yes	Good		
MW-28-090	08-20-2025	Yes	Yes	Good		
MW-29	08-27-2025	Yes	Yes	Good		
MW-30-030R	08-12-2025	Yes	Yes	Good		
MW-30-050	08-12-2025	Yes	Yes	Good	<u></u>	
MW-31-060	07-14-2025	Yes	Yes	Good		
MW-31-060	08-13-2025	Yes	Yes	Good		
MW-31-060	09-11-2025	Yes	Yes	Good		
MW-31-135	07-14-2025	Yes	Yes	Good		
MW-31-135	08-13-2025	Yes	Yes	Good		
MW-31-135	09-08-2025	Yes	Yes	Good		
MW-32-020	08-21-2025	Yes	Yes	Good		
MW-32-035	08-21-2025	Yes	Yes	Good		
MW-33-040	08-28-2025	Yes	Yes	Good	 	
MW-33-040	08-28-2025	Yes	Yes	Good		
MW-33-150	08-28-2025	Yes	Yes	Good		
MW-33-150	08-28-2025	Yes	Yes	Good		
MW-34-055	08-28-2025	Yes	Yes	Good		
	+					
MW-34-055	09-10-2025	Yes	Yes	Good		
MW-34-080	08-12-2025	Yes	Yes	Good		
MW-34-100	07-15-2025	Yes	Yes	Good		
MW-34-100	08-12-2025	Yes	Yes	Good		
MW-34-100	09-10-2025	Yes	Yes	Good		
MW-35-060	08-28-2025	Yes	Yes	Good		
MW-35-060	08-28-2025	Yes	Yes	Good		
MW-35-135	08-25-2025	Yes	Yes	Good		
MW-36-020	08-26-2025	Yes	Yes	Good		

Arcadis Page 1 of 5

Table 4.1
Monitoring Well Inspection Results
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-36-040	08-26-2025	Yes	Yes	Good		
MW-36-050	08-26-2025	Yes	Yes	Good		
MW-36-070	08-26-2025	Yes	Yes	Good		
MW-36-090	08-26-2025	Yes	Yes	Good		
MW-36-100	07-15-2025	Yes	Yes	Good		
MW-36-100	08-12-2025	Yes	Yes	Good		
MW-36-100	09-09-2025	Yes	Yes	Good		
MW-38D	08-27-2025	Yes	Yes	Good		
MW-38S	08-27-2025	Yes	Yes	Good		
MW-39-040	08-12-2025	Yes	Yes	Good		
MW-39-050	08-12-2025	Yes	Yes	Good		
MW-39-060	08-12-2025	Yes	Yes	Good		
MW-39-070	07-15-2025	Yes	Yes	Good		
MW-39-070	08-12-2025	Yes	Yes	Good		
MW-39-070	09-09-2025	Yes	Yes	Good		
MW-39-080	07-15-2025	Yes	Yes	Good		
MW-39-080	08-12-2025	Yes	Yes	Good		
MW-39-080	09-09-2025	Yes	Yes	Good		
MW-39-100	07-14-2025	Yes	Yes	Good		
MW-39-100	08-12-2025	Yes	Yes	Good		
MW-39-100	09-09-2025	Yes	Yes	Good		
MW-39-100	09-09-2025	Yes	Yes	Good		
MW-42-030	08-26-2025	Yes	Yes	Good		
MW-42-055	08-26-2025	Yes	Yes	Good		
MW-42-065	08-26-2025	Yes	Yes	Good		
MW-43-025	08-21-2025	Yes	Yes	Good		
MW-43-075	08-21-2025	Yes	Yes	Good	<u></u>	
MW-43-090	08-21-2025	Yes	Yes	Good		
MW-44-070	08-12-2025	Yes	Yes	Good		
MW-44-115	07-16-2025	Yes	Yes	Good		
MW-44-115	08-12-2025	Yes	Yes	Good		
MW-44-115	09-08-2025	Yes	Yes	Good		
MW-44-125	07-16-2025	Yes	Yes	Good		
MW-44-125	08-12-2025	Yes	Yes	Good		
MW-44-125	09-08-2025	Yes	Yes	Good		
MW-45-095a	08-14-2025	Yes	Yes	Good		
MW-46-175	07-16-2025	Yes	Yes	Good		
MW-46-175	08-14-2025	Yes	Yes	Good		
MW-46-175	09-10-2025	Yes	Yes	Good		
MW-46-205	08-20-2025	Yes	Yes	Good	 	
MW-47-055	08-20-2025	Yes	Yes	Good		
MW-47-055	08-28-2025		Yes	Good		
MW-47-115	08-25-2025	Yes Yes	Yes	Good		
	+		1			
MW-49-135	08-27-2025	Yes	Yes	Good		
MW-49-275	08-27-2025	Yes	Yes	Good		
MW-49-365	08-27-2025	Yes	Yes	Good		
MW-51	07-17-2025	Yes	Yes	Good		
MW-51	08-14-2025	Yes	Yes	Good		
MW-51	09-11-2025	Yes	Yes	Good		

Arcadis Page 2 of 5

Table 4.1
Monitoring Well Inspection Results
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-52D	08-19-2025	Yes	Yes	Good		
MW-52M	08-19-2025	Yes	Yes	Good		
MW-52S	08-19-2025	Yes	Yes	Good		
MW-53D	08-19-2025	Yes	Yes	Good		
MW-53M	08-19-2025	Yes	Yes	Good		
MW-53S	08-19-2025	Yes	Yes	Good		
MW-53S	09-10-2025	Yes	Yes	Good		
MW-57-070	08-27-2025	Yes	Yes	Good		
MW-58BR	08-26-2025	Yes	Yes	Good		
MW-60-125	08-27-2025	Yes	Yes	Good		
MW-62-065	08-26-2025	Yes	Yes	Good		
MW-63-065	08-26-2025	Yes	Yes	Good		
MW-64BR	08-28-2025	Yes	Yes	Good		
MW-65-160	08-28-2025	Yes	Yes	Good		
MW-65-225	08-28-2025	Yes	Yes	Good		
MW-67-185	08-28-2025	Yes	Yes	Good		
MW-68-180	08-28-2025	Yes	Yes	Good		
MW-69-195	08-28-2025	Yes	Yes	Good		
MW-70BR-225	08-26-2025	Yes	Yes	Good		
MW-71-035	07-17-2025	Yes	Yes	Good		
MW-71-035	08-14-2025	Yes	Yes	Good		
MW-71-035	09-11-2025	Yes	Yes	Good		
MW-72-080	08-28-2025	Yes	Yes	Good		
MW-75-033	08-18-2025	Yes	Yes	Good		
MW-75-117	08-18-2025	Yes	Yes	Good		
MW-75-202	08-18-2025	Yes	Yes	Good		
MW-75-267	08-18-2025	Yes	Yes	Good	<u></u>	
MW-75-337	08-18-2025	Yes	Yes	Good		
MW-76-039	07-16-2025	Yes	Yes	Good		
MW-76-039	08-13-2025	Yes	Yes	Good		
MW-76-039	09-10-2025	Yes	Yes	Good		
MW-76-156	07-16-2025	Yes	Yes	Good		
MW-76-156	08-13-2025	Yes	Yes	Good		
MW-76-156	09-10-2025	Yes	Yes	Good		
MW-76-181	07-16-2025	Yes	Yes	Good		
MW-76-181	08-13-2025	Yes	Yes	Good		
MW-76-181	09-10-2025	Yes	Yes	Good		
MW-76-218	09-10-2025	Yes	Yes	Good		
MW-76-218	08-13-2025	Yes	Yes	Good		
MW-76-218	09-10-2025	Yes	Yes	Good		
MW-77-046	09-10-2025	Yes	Yes	Good		
MW-77-102	08-13-2025	Yes	Yes	Good		
MW-77-158	08-13-2025	Yes	Yes	Good		
MW-77-187	07-16-2025	Yes	Yes	Good		
MW-77-187	07-16-2025	Yes	Yes	Good		
	08-13-2025		Yes	Good		
MW-77-187 MW-78-070		Yes				
	07-15-2025	Yes	Yes	Good		
MW-78-070	08-14-2025	Yes	Yes	Good		
MW-78-070	09-11-2025	Yes	Yes	Good		

Arcadis Page 3 of 5

Table 4.1
Monitoring Well Inspection Results
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
MW-78-142	07-15-2025	Yes	Yes	Good		
MW-78-142	08-14-2025	Yes	Yes	Good		
MW-78-142	09-11-2025	Yes	Yes	Good		
MW-79-058	07-17-2025	Yes	Yes	Good		
MW-79-058	08-14-2025	Yes	Yes	Good		
MW-79-058	09-11-2025	Yes	Yes	Good		
MW-79-102	07-17-2025	Yes	Yes	Good		
MW-79-102	08-14-2025	Yes	Yes	Good		
MW-79-102	09-11-2025	Yes	Yes	Good		
MW-80-057	07-17-2025	Yes	Yes	Good		
MW-80-057	08-14-2025	Yes	Yes	Good		
MW-80-057	09-10-2025	Yes	Yes	Good		
MW-80-082	07-17-2025	Yes	Yes	Good		
MW-80-082	08-14-2025	Yes	Yes	Good		
MW-80-082	09-10-2025	Yes	Yes	Good		
MW-81-043	07-16-2025	Yes	Yes	Good		
MW-81-043	08-14-2025	Yes	Yes	Good		
MW-81-043	09-09-2025	Yes	Yes	Good		
MW-81-098	07-16-2025	Yes	Yes	Good		
MW-81-098	08-14-2025	Yes	Yes	Good		
MW-81-098	09-09-2025	Yes	Yes	Good		
MW-82-046	08-18-2025	Yes	Yes	Good		
MW-82-112	08-18-2025	Yes	Yes	Good		
MW-82-168	08-18-2025	Yes	Yes	Good		
MW-82-198	08-18-2025	Yes	Yes	Good		
MW-86-030	08-20-2025	Yes	Yes	Good		
MW-86-066	08-20-2025	Yes	Yes	Good		
MW-86-120	08-20-2025	Yes	Yes	Good		
MW-86-140	08-20-2025	Yes	Yes	Good		
MW-88-107	08-27-2025	Yes	Yes	Good		
MW-90-031	08-21-2025	Yes	Yes	Good		
MW-94-030	08-20-2025	Yes	Yes	Good		
MW-94-100	08-20-2025	Yes	Yes	Good		
MW-94-175	08-20-2025	Yes	Yes	Good		
MW-96-045	08-21-2025	Yes	Yes	Good		
MW-96-217	08-21-2025	Yes	Yes	Good		
MW-97-042	08-25-2025	Yes	Yes	Good		
MW-97-202	08-25-2025	Yes	Yes	Good		
MW-99-060	08-19-2025	Yes	Yes	Good		
MW-99-140	08-19-2025	Yes	Yes	Good		
PGE-09N	08-19-2025	Yes	Yes	Good		
PGE-09S	08-19-2025	Yes	Yes	Good		
PT5D	07-15-2025	Yes	Yes	Good		
PT5D	08-11-2025	Yes	Yes	Good		
PT5D	09-10-2025	Yes	Yes	Good		
PT5M	09-10-2025	Yes	Yes	Good		
PT5N PT5S	08-11-2025	Yes	Yes	Good	 	
PT6D	08-11-2025	Yes	Yes	Good		
	+		1			
PT6D	08-11-2025	Yes	Yes	Good		

Arcadis Page 4 of 5

Table 4.1
Monitoring Well Inspection Results
Third Quarter 2025 Well Performance Report
Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Location	Date	Well Inspection Completed?	Is the Well Labeled Properly?	Is the Well in Good Condition?	Description of Deficiencies (if noted)	Well Inspection Comments
PT6D	09-10-2025	Yes	Yes	Good		
TW-02D	07-15-2025	Yes	Yes	Good		
TW-02D	08-13-2025	Yes	Yes	Good		
TW-02D	09-09-2025	Yes	Yes	Good		
TW-02S	07-15-2025	Yes	Yes	Good		
TW-02S	08-13-2025	Yes	Yes	Good		
TW-02S	09-09-2025	Yes	Yes	Good		
TW-03D	07-15-2025	Yes	Yes	Good		
TW-03D	08-13-2025	Yes	Yes	Good		
TW-03D	09-09-2025	Yes	Yes	Good		
TW-04	08-28-2025	Yes	Yes	Good		

Acronyms and Abbreviations:

-- = no comment

Arcadis Page 5 of 5

Table 4.2

Monitoring Well Water Levels and Specific Capacities

Third Quarter 2025 Well Performance Report

Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth	Measured Well Depth	Difference in Constructed and Measured Well	Screen Start Depth	Screen End Depth	Pre-Purge Depth to Water	to Water	Purging	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater Than	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
			(ft bTOC)	(ft bTOC)	Depth (feet)	(ft bTOC)	(ft bTOC)	(ft bTOC)	(ft bTOC)	(feet)	` ′		20% of Screen?			·		<u> </u>
MW-09 MW-10	Alluvial Alluvial	08/27/2025 08/27/2025	89.82 95.73	96.86	N/A -1.13	77.82 74.73	87.82 94.73	80.70 75.11	80.76 75.18	0.06 0.07	300 300	1.32 1.13	N/A No	No No	No No	No No	N/A N/A	9/25/2024 N/A
MW-15	Alluvial	08/27/2025	204.90	200.50	4.40	182.40	202.40	185.78	185.83	0.07	500	2.64	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	07/17/2025	69.69	68.40	1.29	49.69	69.69	44.32	44.35	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	08/13/2025	69.69	68.40	1.29	49.69	69.69	44.51	44.54	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-20-070	Alluvial	09/09/2025	69.69	68.40	1.29	49.69	69.69	44.95	44.97	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-20-100	Alluvial	07/17/2025	100.49	98.08	2.41	88.59	98.59	44.70	44.74	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-20-100	Alluvial	08/13/2025	100.49	98.08	2.41	88.59	98.59	44.40	44.42	0.02	500	6.60	No	No	No	No No	N/A	N/A
MW-20-100 MW-20-130	Alluvial Alluvial	09/09/2025 07/17/2025	100.49 131.49	98.10 129.55	2.39 1.94	88.59 120.15	98.59 130.15	44.73 45.08	44.75 45.10	0.02	500 500	6.60 6.60	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-20-130	Alluvial	08/13/2025	131.49	129.57	1.92	120.15	130.15	44.62	44.65	0.02	500	4.40	No	No	No	No	N/A	N/A
MW-20-130	Alluvial	09/09/2025	131.49	129.55	1.94	120.15	130.15	45.23	45.25	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-21	Alluvial	07/17/2025	58.95	58.30	0.65	38.45	58.45	48.22	48.95	0.73	100	0.04	No	No	No	No	N/A	N/A
MW-21	Alluvial	08/14/2025	58.95	58.33	0.62	38.45	58.45	49.25	49.95	0.70	100	0.04	No	No	No	No	N/A	N/A
MW-21	Alluvial	09/11/2025	58.95	58.37	0.58	38.45	58.45	50.07	50.70	0.63	100	0.04	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-22	Fluvial	08/21/2025	12.05	11.04	1.01	5.15	10.15	4.70	4.78	0.08	300	0.99	No	No	No	No	N/A	N/A
MW-26	Alluvial	07/17/2025	70.82	69.17	1.65	50.82	70.82	45.48	45.50	0.02	400	5.28	No	No	No	No	N/A	N/A
MW-26 MW-26	Alluvial	08/14/2025	70.82	69.14	1.68	50.82	70.82	46.90 46.91	46.96	0.06	300	1.32	No No	No	No	No No	N/A	N/A
MVV-26	Alluvial	09/11/2025	70.82	69.24	1.58	50.82	70.82	46.91	46.93	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-27-020	Fluvial	08/26/2025	18.92	13.25	5.67	8.92	18.92	5.70	5.72	0.02	500	6.60	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because well is screened in fluvial sediments.	N/A
MW-27-060	Fluvial	08/26/2025	60.52	58.82	1.70	50.32	60.32	6.37	6.39	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-27-085	Fluvial	08/26/2025	100.05	100.41	-0.36	80.05	90.05	6.18	6.20	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-28-025	Fluvial	08/20/2025	25.10	23.24	1.86	15.10	25.10	12.40	12.46	0.06	300	1.32	No	No	No	No	N/A	5/16/2023
MW-28-090 MW-29	Fluvial Fluvial	08/20/2025 08/27/2025	101.46 43.73	97.75 40.71	3.71 3.02	73.10 31.71	93.10 41.71	13.25 30.52	13.29 30.60	0.04	300 500	1.98 1.65	No No	No No	No	No No	N/A N/A	N/A N/A
MW-30-030R	Fluvial	08/12/2025	32.43	32.11	0.32	12.03	32.03	11.92	11.96	0.08	300	1.98	No	No	No No	No	N/A	N/A N/A
MW-30-050	Fluvial	08/12/2025	55.01	50.01	5.00	42.41	52.41	11.63	11.65	0.02	300	3.96	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because well is screened in fluvial sediments.	N/A
MW-31-060	Alluvial	07/14/2025	65.71	61.48	4.23	43.21	63.21	38.70	38.75	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-31-060	Alluvial	08/13/2025	65.71	61.30	4.41	43.21	63.21	39.27	39.30	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-31-060	Alluvial	09/11/2025	65.71	61.35	4.36	43.21	63.21	40.00	40.06	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-31-135	Alluvial	07/14/2025	133.16	130.73	2.43 3.14	112.86	132.86	39.62 40.36	39.64	0.02	300	3.96	No No	No	No	No No	N/A	N/A
MW-31-135 MW-31-135	Alluvial Alluvial	08/13/2025 09/08/2025	133.16 133.16	130.02 130.05	3.14	112.86 112.86	132.86 132.86	40.93	40.39 40.97	0.03 0.04	500 300	4.40 1.98	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-32-020	Fluvial	08/21/2025	22.41	19.21	3.20	12.41	22.41	7.10	7.16	0.06	300	1.32	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because well is screened in fluvial sediments.	N/A
MW-32-035	Fluvial	08/21/2025	39.58	37.04	2.54	29.93	37.43	7.43	7.49	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-33-040	Fluvial	08/28/2025	44.64	40.99	3.65	31.80	41.80	32.98	33.02	0.04	500	3.30	No No	No	No	No No	N/A	N/A
MW-33-090 MW-33-150	Alluvial Alluvial	08/28/2025 08/28/2025	91.83 158.15	88.15 155.03	3.68 3.12	71.83 134.77	91.11 154.77	33.13 33.51	33.17 33.59	0.04 0.08	500 500	3.30 1.65	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-33-210	Alluvial	08/28/2025	225.64	222.07	3.57	192.64	212.64	32.41	32.41	0.00	500	N/A	No	No	No	No	N/A	N/A
MW-34-055	Fluvial	08/12/2025	58.81	56.72	2.09	47.21	57.21	5.98	6.00	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-055	Fluvial	09/10/2025	58.81	56.30	2.51	47.21	57.21	6.23	6.25	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-080	Fluvial	08/12/2025	86.56	84.33	2.23	75.26	85.26	5.83	5.85	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-34-100	Fluvial	07/15/2025	116.44	115.76	0.68	91.44	101.44	5.91	5.96	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-34-100	Fluvial	08/12/2025	116.44	115.70	0.74	91.44	101.44	5.92	5.95	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-34-100 MW-35-060	Fluvial Alluvial	09/10/2025 08/28/2025	116.44 61.63	115.72 57.80	0.72 3.83	91.44 41.33	101.44 61.33	6.45 27.85	6.48 27.90	0.03 0.05	500 500	4.40 2.64	No No	No No	No No	No No	N/A N/A	N/A 5/9/2023
MW-35-135	Alluvial	08/25/2025	158.98	154.35	4.63	116.28	136.28	26.50	26.55	0.05	300	1.59	No No	No No	No	No No	N/A N/A	5/9/2023 N/A
MW-36-020	Fluvial	08/26/2025	23.08	22.35	0.73	12.78	22.78	13.16	13.19	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-36-040	Fluvial	08/26/2025	43.15	41.98	1.17	32.85	42.85	14.85	14.88	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-36-050	Fluvial	08/26/2025	55.79	52.91	2.88	48.79	53.79	14.76	14.79	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-36-070	Fluvial	08/26/2025	73.02	72.24	0.78	62.72	72.72	14.16	14.21	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-36-090	Fluvial	08/26/2025	93.34	92.31	1.03	83.04	93.04	14.75	14.80	0.05	300	1.59	No	No	No	No No	N/A	N/A
MW-36-100 MW-36-100	Fluvial Fluvial	07/15/2025 08/12/2025	111.36 111.36	109.74 109.75	1.62 1.61	91.36 91.36	101.36 101.36	14.40 14.72	14.45 14.77	0.05 0.05	300 500	1.59 2.64	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-36-100	Fluvial	09/09/2025	111.36	NM	N/A	91.36	101.36	15.20	15.26	0.06	300	1.32	N/A	No	No	No	N/A	N/A
MW-38D	Alluvial	08/27/2025	186.58	184.80	1.78	166.28	186.28	71.00	71.05	0.05	300	1.59	No	No	No	No	N/A	8/19/2022

Arcadis Page 1 of 4

Table 4.2

Monitoring Well Water Levels and Specific Capacities

Third Quarter 2025 Well Performance Report

Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (ft bTOC)	Measured Well Depth (ft bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (ft bTOC)	Screen End Depth (ft bTOC)	Pre-Purge Depth to Water (ft bTOC)	Post-Purge Depth to Water (ft bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater Than 20% of Screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
MW-38S	Alluvial	08/27/2025	97.77	97.05	0.72	77.47	97.47	69.34	69.38	0.04	300	1.98	No	No	No	No	N/A	7/25/2022
MW-39-040	Fluvial	08/12/2025	43.33	37.45	5.88	33.03	43.03	12.90	12.92	0.02	300	3.96	Yes	Yes	No	No	Second Quarter 2023 redevelopment with Waterra pump did not improve siltation. Well will not be considered for future redevelopment.	5/14/2023
MW-39-050	Fluvial	08/12/2025	57.43	54.39	3.04	49.83	54.83	12.86	12.88	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-39-060	Alluvial	08/12/2025	69.00	59.84	9.16	51.70	61.70	12.82	12.85	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-39-070 MW-39-070	Alluvial Alluvial	07/15/2025 08/12/2025	74.51 74.51	71.40 71.12	3.11 3.39	62.82 62.82	72.82 72.82	12.73 13.04	12.76 13.09	0.03 0.05	300 300	2.64 1.59	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-39-070	Alluvial	09/09/2025	74.51	71.12	3.35	62.82	72.82	13.71	13.75	0.03	300	1.98	No	No	No	No	N/A N/A	N/A N/A
MW-39-080	Alluvial	07/15/2025	85.37	81.95	3.42	72.82	82.82	12.94	12.98	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-39-080	Alluvial	08/12/2025	85.37	81.91	3.46	72.82	82.82	13.04	13.06	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-39-080	Alluvial	09/09/2025	85.37	81.95	3.42	72.82	82.82	13.73	13.76	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-39-100	Alluvial	07/14/2025	120.53	116.60	3.93	82.82	102.82	12.32	12.34	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-39-100	Alluvial	08/12/2025	120.53	116.63	3.90	82.82	102.82	13.20	13.26	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-39-100 MW-42-030	Alluvial Fluvial	09/09/2025 08/26/2025	120.53 32.55	116.58 31.03	3.95 1.52	82.82 12.25	102.82 32.25	13.70 8.98	13.76 9.00	0.06 0.02	300 500	1.32 6.60	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-42-055	Fluvial	08/26/2025	55.29	55.20	0.09	44.99	54.99	9.05	9.06	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-42-065	Fluvial	08/26/2025	83.47	83.72	-0.25	58.47	68.47	8.45	8.46	0.01	500	13.21	No	No	No	No	N/A	N/A
MW-43-025	Fluvial	08/21/2025	27.52	26.50	1.02	17.52	27.52	8.70	8.72	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-43-075	Fluvial	08/21/2025	77.79	77.57	0.22	67.79	77.79	9.10	9.15	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-43-090	Fluvial	08/21/2025	99.82	96.11	3.71	82.82	92.82	9.10	9.12	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-44-070	Fluvial	08/12/2025	72.10 114.52	72.27 114.35	-0.17	62.10 106.52	72.10	16.72 16.91	16.75 16.93	0.03	500	4.40 6.60	No No	No No	No	No No	N/A N/A	N/A N/A
MW-44-115 MW-44-115	Alluvial Alluvial	07/16/2025 08/12/2025	114.52	114.35	0.17 0.22	106.52	114.52 114.52	16.99	17.00	0.02	500 500	13.21	No No	No	No No	No No	N/A N/A	N/A N/A
MW-44-115	Alluvial	09/08/2025	114.52	114.27	0.25	106.52	114.52	17.97	17.99	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	07/16/2025	130.35	128.60	1.75	117.55	126.55	16.76	16.78	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	08/12/2025	130.35	128.55	1.80	117.55	126.55	16.98	17.00	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-44-125	Alluvial	09/08/2025	130.35	128.63	1.72	117.55	126.55	17.90	17.92	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-45-095a	Fluvial	08/14/2025	96.90	93.88	3.02	86.40	96.40	12.95	12.98	0.03	500	4.40	Yes	Yes	No	No	Siltation. Not recommended for redevelopment based on low turbidity measurement during sampling and well being screened in fluvial sediments.	N/A
MW-46-175	Alluvial	07/16/2025	176.84	176.08	0.76	166.34	176.34	27.26	27.32	0.06	500	2.20	No	No	No	No	N/A	N/A
MW-46-175	Alluvial	08/14/2025	176.84	176.08	0.76	166.34	176.34	27.51	27.55	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-46-175 MW-46-205	Alluvial Alluvial	09/10/2025 08/20/2025	176.84 209.49	176.10 218.73	0.74 -9.24	166.34 199.49	176.34 209.49	28.10 28.40	28.12 28.45	0.02 0.05	500 500	6.60 2.64	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-47-055	Alluvial	08/28/2025	56.94	56.44	0.50	46.94	56.94	29.25	29.28	0.03	500	4.40	No	No	No	No	N/A	N/A
MW-47-115	Alluvial	08/25/2025	116.58	115.47	1.11	106.58	116.58	29.10	29.12	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-49-135	Alluvial	08/27/2025	136.52	136.30	0.22	126.52	136.52	30.01	30.09	0.08	500	1.65	No	No	No	No	N/A	N/A
MW-49-275	Alluvial	08/27/2025	276.45	274.73	1.72	256.45	276.45	30.55	30.59	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-49-365 MW-51	Alluvial	08/27/2025	368.86 112.94	367.30	1.56	347.51 96.69	367.51	32.15 45.34	32.22 45.36	0.07 0.02	500 400	1.89 5.28	No No	No	No	No No	N/A	N/A
MW-51	Alluvial Alluvial	07/17/2025 08/14/2025	112.94	112.96 112.95	-0.02 -0.01	96.69	111.69 111.69	46.24	46.27	0.02	300	2.64	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-51	Alluvial	09/11/2025	112.94	113.00	-0.06	96.69	111.69	46.70	46.72	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-57-070	Bedrock	08/27/2025	70.40	68.56	1.84	55.40	70.40	53.34	53.37	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-58BR	Bedrock	08/26/2025	209.13	204.20	4.93	69.13	209.13	67.28	67.30	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-60-125	Bedrock	08/27/2025	122.69	121.80	0.89	102.69	122.69	99.73	99.76	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-62-065 MW-63-065	Bedrock Bedrock	08/26/2025 08/26/2025	67.40 65.47	63.70 63.17	3.70 2.30	44.50 45.47	64.50 65.47	48.78 49.92	48.80 49.97	0.02 0.05	300 300	3.96 1.59	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-64BR	Bedrock	08/28/2025	260.02	258.00	2.02	2.02	258.02	120.44	120.46	0.05	500	6.60	No	No	No	No	N/A N/A	N/A N/A
MW-65-160	Alluvial	08/28/2025	159.70	160.44	-0.74	149.60	159.60	140.98	141.00	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-65-225	Alluvial	08/28/2025	224.68	225.33	-0.65	214.59	224.59	140.75	140.77	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-67-185	Alluvial	08/28/2025	186.73	186.72	0.01	176.73	186.73	170.39	170.41	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-68-180 MW-69-195	Alluvial Bedrock	08/28/2025 08/28/2025	179.68	180.02	-0.34	164.59 175.27	179.59 195.27	165.35 175.22	165.36 175.30	0.01	500	13.21	No No	No Yes	No No	No No	N/A Consecutive high turbidity readings. Not recommended for redevelopment given it is a bedrock well that does not have siltation and specific capacity indicates good yield.	N/A N/A
MW-70BR-225	Bedrock	08/26/2025	228.89	221.58	7.31	119.61	226.61	80.68	80.73	0.05	500	2.64	No	No	No	No	N/A	5/7/2022

Arcadis Page 2 of 4

Table 4.2

Monitoring Well Water Levels and Specific Capacities

Third Quarter 2025 Well Performance Report

Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

	Well Screen		Constructed Well	Measured Well	Difference in Constructed and	Screen Start	Screen End	Pre-Purge Depth	Post-Purge Depth	Drawdown During	Purging Rate	Specific Capacity	Measured Depth	Flagged for	Planned for	Planned for		Date of Last
Well ID	Lithology	Sample Date	Depth (ft bTOC)	Depth (ft bTOC)	Measured Well Depth (feet)	Depth (ft bTOC)	Depth (ft bTOC)	to Water (ft bTOC)	to Water (ft bTOC)	Purging (feet)	(mL/min)	(gpm/foot)	Covering Greater Than 20% of Screen?	Evaluation	Resurvey	Redevelopment	Notes	Redevelopment
MW-71-035	Alluvial	07/17/2025	35.90	35.60	0.30	25.70	35.70	26.65	27.10	0.45	100	0.06	No	Yes	No	No	High turbidity. Turbidity improved during subsequent sampling event.	N/A
MW-71-035	Alluvial	08/14/2025	35.90	35.33	0.57	25.70	35.70	27.53	28.10	0.57	100	0.05	No	No	No	No	N/A	N/A
MW-71-035	Alluvial	09/11/2025	35.90	35.33	0.57	25.70	35.70	28.23	28.90	0.67	100	0.04	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-72-080	Bedrock	08/28/2025	79.88	79.12	0.76	59.79	79.79	59.25	59.28	0.03	500	4.40	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	N/A
MW-75-033	Alluvial	08/18/2025	35.48	34.70	0.78	18.08	33.08	17.81	17.83	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-75-117	Alluvial	08/18/2025	119.45	118.07	1.38	97.15	117.15	17.90	NM	N/A	500	N/A	No	No	No	No	N/A	N/A
MW-75-202 MW-75-267	Alluvial Alluvial	08/18/2025 08/18/2025	204.49 269.50	204.30 268.47	0.19 1.03	182.49 247.20	202.49 267.20	18.00 17.68	18.02 17.70	0.02 0.02	500 500	6.60 6.60	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-75-337	Alluvial	08/18/2025	339.79	338.38	1.41	317.49	337.49	20.35	20.37	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	07/16/2025	39.10	36.67	2.43	23.60	38.60	25.74	25.79	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	08/13/2025	39.10	36.64	2.46	23.60	38.60	26.00	26.05	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-76-039	Alluvial	09/10/2025	39.10	36.59	2.51	23.60	38.60	26.51 25.38	26.55	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-76-156 MW-76-156	Alluvial Alluvial	07/16/2025 08/13/2025	158.01 158.01	156.97 156.91	1.04 1.10	135.71 135.71	155.71 155.71	26.30	25.42 26.34	0.04 0.04	300 300	1.98 1.98	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-76-156	Alluvial	09/10/2025	158.01	156.99	1.02	135.71	155.71	26.84	26.86	0.02	300	3.96	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	07/16/2025	183.12	182.75	0.37	170.82	180.82	25.40	25.43	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	08/13/2025	183.12	182.71	0.41	170.82	180.82	26.30	26.36	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-76-181	Alluvial	09/10/2025	183.12	182.65	0.47	170.82	180.82	26.03	26.06	0.03	300	2.64	No No	No	No	No	N/A	N/A
MW-76-218 MW-76-218	Alluvial Alluvial	07/16/2025 08/13/2025	220.05 220.05	219.75 219.73	0.30 0.32	197.75 197.75	217.75 217.75	25.10 25.90	25.14 25.96	0.04 0.06	300 300	1.98 1.32	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-76-218	Alluvial	09/10/2025	220.05	219.68	0.37	197.75	217.75	25.92	25.96	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-77-046	Alluvial	08/13/2025	48.15	40.03	8.12	25.85	45.85	23.60	23.65	0.05	300	1.59	Yes	Yes	No	No	Siltation. Redevelopment occurred in October 2024. Minimal drawdown occurred	10/16/2024
MW-77-102	Alluvial	08/13/2025	104.21	104.18	0.03	81.91	101.91	23.66	23.72	0.06	300	1.32	No	No	No	No	during purging. Continue to monitor. N/A	N/A
MW-77-158	Alluvial	08/13/2025	160.14	159.95	0.19	137.64	157.74	23.25	23.29	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	07/16/2025	189.21	189.08	0.13	166.71	186.81	24.00	24.05	0.05	500	2.64	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	08/13/2025	189.21	189.01	0.20	166.71	186.81	23.12	23.17	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-77-187	Alluvial	09/11/2025	189.21	188.90	0.31	166.71	186.81	23.40	23.44	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-78-070	Alluvial	07/15/2025	71.85	72.04	-0.19	49.55	69.55	45.42	45.45	0.03	500	4.40	No	Yes	No	No	High turbidity. Turbidity improved during subsequent sampling event.	N/A
MW-78-070	Alluvial	08/14/2025	71.85	72.00	-0.15	49.55	69.55	46.10	46.17	0.07	300	1.13	No	No	No	No	N/A	N/A
MW-78-070	Alluvial	09/11/2025	71.85	72.05	-0.20	49.55	69.55	46.65	46.68	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-78-142 MW-78-142	Alluvial Alluvial	07/15/2025 08/14/2025	141.76 141.76	142.00 142.00	-0.24 -0.24	121.46 121.46	141.46 141.46	46.11 46.12	46.14 46.15	0.03	500 500	4.40 4.40	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-78-142	Alluvial	09/11/2025	141.76	142.05	-0.29	121.46	141.46	46.86	46.91	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	07/17/2025	60.05	60.15	-0.10	47.55	57.55	44.72	44.75	0.03	400	3.52	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	08/14/2025	60.05	60.10	-0.05	47.55	57.55	45.95	45.96	0.01	300	7.93	No	No	No	No	N/A	N/A
MW-79-058	Alluvial	09/11/2025	60.05	60.05	0.00	47.55	57.55	46.10	46.16	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-79-102 MW-79-102	Alluvial Alluvial	07/17/2025 08/14/2025	104.23 104.23	104.11 104.08	0.12 0.15	91.43 91.43	101.43 101.43	44.73 45.60	44.75 45.60	0.02 0.00	400 300	5.28 N/A	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-79-102	Alluvial	09/11/2025	104.23	104.00	0.13	91.43	101.43	46.00	46.06	0.06	300	1.32	No	No	No	No	N/A	N/A N/A
MW-80-057	Alluvial	07/17/2025	59.46	59.23	0.23	46.96	56.96	46.58	46.59	0.01	300	7.93	No	No	No	No	N/A	N/A
MW-80-057	Alluvial	08/14/2025	59.46	59.19	0.27	46.96	56.96	48.03	48.08	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-80-057	Alluvial	09/10/2025	59.46	59.25	0.21	46.96	56.96	48.50	48.56	0.06	300	1.32	No No	No	No	No No	N/A	N/A
MW-80-082 MW-80-082	Alluvial Alluvial	07/17/2025 08/14/2025	84.00 84.00	83.70 83.64	0.30 0.36	66.50 66.50	81.50 81.50	46.53 47.96	46.56 48.01	0.03 0.05	300 300	2.64 1.59	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-80-082	Alluvial	09/10/2025	84.00	83.57	0.36	66.50	81.50	48.40	48.42	0.05	300	3.96	No	No	No	No	N/A N/A	N/A N/A
MW-81-043	Alluvial	07/16/2025	44.73	44.59	0.14	22.43	42.43	22.56	22.63	0.07	500	1.89	No	No	No	No	N/A	N/A
MW-81-043	Alluvial	08/14/2025	44.73	44.53	0.20	22.43	42.43	22.83	22.85	0.02	500	6.60	No	No	No	No	N/A	N/A
MW-81-043	Alluvial	09/09/2025	44.73	44.49	0.24	22.43	42.43	23.34	23.34	0.00	300	N/A	No	No	No	No	N/A	N/A
MW-81-098 MW-81-098	Alluvial	07/16/2025 08/14/2025	99.82 99.82	99.39 99.00	0.43 0.82	77.52 77.52	97.52 97.52	22.73 22.73	22.75 22.75	0.02	500 500	6.60	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-81-098 MW-81-098	Alluvial Alluvial	08/14/2025	99.82	99.00	0.82	77.52	97.52	23.47	22.75	0.02 0.04	300	6.60 1.98	No No	No No	No No	No No	N/A N/A	N/A N/A
MW-82-046	Alluvial	08/18/2025	48.87	45.90	2.97	26.57	46.57	29.09	29.11	0.02	500	6.60	No	Yes	No	No	High turbidity. Continue to monitor for consecutive high turbidity readings.	5/11/2023
MW-82-112	Alluvial	08/18/2025	114.78	114.10	0.68	92.48	112.48	28.93	28.98	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-82-168	Alluvial	08/18/2025	170.34	169.90	0.44	148.04	168.04	28.00	28.07	0.07	300	1.13	No	No	No	No	N/A	N/A

Arcadis Page 3 of 4

Table 4.2 Monitoring Well Water Levels and Specific Capacities Third Quarter 2025 Well Performance Report Pacific Gas and Electric Company, Topock Compressor Station, Needles, California

Well ID	Well Screen Lithology	Sample Date	Constructed Well Depth (ft bTOC)	Measured Well Depth (ft bTOC)	Difference in Constructed and Measured Well Depth (feet)	Screen Start Depth (ft bTOC)	Screen End Depth (ft bTOC)	Pre-Purge Depth to Water (ft bTOC)	Post-Purge Depth to Water (ft bTOC)	Drawdown During Purging (feet)	Purging Rate (mL/min)	Specific Capacity (gpm/foot)	Measured Depth Covering Greater Than 20% of Screen?	Flagged for Evaluation	Planned for Resurvey	Planned for Redevelopment	Notes	Date of Last Redevelopment
MW-82-198	Alluvial	08/18/2025	200.25	199.40	0.85	177.95	197.95	27.80	27.86	0.06	300	1.32	No	No	No	No	N/A	N/A
MW-86-030	Alluvial	08/20/2025	34.51	31.63	2.88	12.21	32.21	13.20	13.23	0.03	300	2.64	No	No	No	No	N/A	N/A
MW-86-066	Alluvial	08/20/2025	70.40	69.25	1.15	48.10	68.10	13.03	13.07	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-86-120	Alluvial	08/20/2025	124.67	123.25	1.42	102.37	122.37	13.30	13.35	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-86-140	Alluvial	08/20/2025	144.53	143.21	1.32	132.23	142.23	14.24	14.28	0.04	300	1.98	No	No	No	No	N/A	N/A
MW-88-107	Bedrock	08/27/2025	109.06	108.80	0.26	86.76	106.76	90.84	90.89	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-90-031	Alluvial	08/21/2025	33.60	31.28	2.32	21.30	31.30	5.22	5.27	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-96-045	Alluvial	08/21/2025	47.52	46.77	0.75	25.22	45.22	29.37	29.41	0.04	500	3.30	No	No	No	No	N/A	N/A
MW-96-217	Alluvial	08/21/2025	219.33	218.49	0.84	197.03	217.03	29.64	29.71	0.07	500	1.89	No	No	No	No	N/A	N/A
MW-97-042	Alluvial	08/25/2025	42.63	41.90	0.73	22.13	42.13	26.90	26.95	0.05	300	1.59	No	No	No	No	N/A	N/A
MW-97-202	Alluvial	08/25/2025	201.47	200.91	0.56	190.97	200.97	26.24	26.28	0.04	300	1.98	No	No	No	No	N/A	N/A
PT5D	Alluvial	07/15/2025	107.37	105.01	2.36	97.37	107.37	18.31	18.35	0.04	300	1.98	Yes	Yes	No	No	Siltation. Not recommended for redevelopment because low turbidity was measured during sampling, minimal drawdown occurred, and specific capacity indicated good yield. Continue to monitor.	9/6/2025
PT5D	Alluvial	08/11/2025	107.37	104.98	2.39	97.37	107.37	18.90	18.94	0.04	300	1.98	Yes	Yes	No	Yes	Siltation increased during consecutive monitoring events. Scheduled for redevelopment in September 2025.	9/6/2025
PT5D	Alluvial	09/10/2025	107.37	107.22	0.15	97.37	107.37	19.80	19.80	0.00	500	N/A	No	No	No	No	N/A	9/6/2025
PT5M	Fluvial	08/11/2025	N/A	71.93	N/A	62.37	72.37	18.74	18.78	0.04	300	1.98	N/A	No	No	No	N/A	N/A
PT5S	Fluvial	08/11/2025	N/A	47.61	N/A	37.35	47.35	18.55	18.59	0.04	300	1.98	N/A	No	No	No	N/A	N/A
TW-02D	Alluvial	07/15/2025	148.96	149.61	-0.65	108.96	143.96	38.54	38.55	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-02D	Alluvial	08/13/2025	148.96	149.61	-0.65	108.96	143.96	38.32	38.33	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-02D	Alluvial	09/09/2025	148.96	149.60	-0.64	108.96	143.96	38.85	38.90	0.05	5,300	28.00	No	No	No	No	N/A	N/A
TW-02S	Alluvial	07/15/2025	94.39	96.27	-1.88	39.39	89.39	38.30	38.20	-0.10	5,300	-14.00	No	No	No	No	N/A	N/A
TW-02S	Alluvial	08/13/2025	94.39	96.27	-1.88	39.39	89.39	38.72	38.80	0.08	5,300	17.50	No	No	No	No	N/A	N/A
TW-02S	Alluvial	09/09/2025	94.39	96.27	-1.88	39.39	89.39	39.10	39.20	0.10	5,300	14.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	07/15/2025	151.22	152.32	-1.10	106.22	151.22	38.43	38.44	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	08/13/2025	151.22	152.32	-1.10	106.22	151.22	38.10	38.11	0.01	5,300	140.00	No	No	No	No	N/A	N/A
TW-03D	Alluvial	09/09/2025	151.22	152.32	-1.10	106.22	151.22	38.55	38.55	0.00	5,300	N/A	No	No	No	No	N/A	N/A
TW-04	Alluvial	08/28/2025	256.49	253.96	2.53	211.49	251.49	29.91	29.93	0.02	500	6.60	No	No	No	No	N/A	N/A

- Notes:
 1. Slant wells (MW-52D, MW-52M, MW-52S, MW-53D, MW-53M, and MW-53S) are not included in this evaluation.
 2. Specific capacity is evaluated for alluvial and fluvial wells. Bedrock wells are not included in this evaluation.

Acronyms and Abbreviations:

ft bTOC = feet below top of casing

gpm/foot = gallon per minute per foot

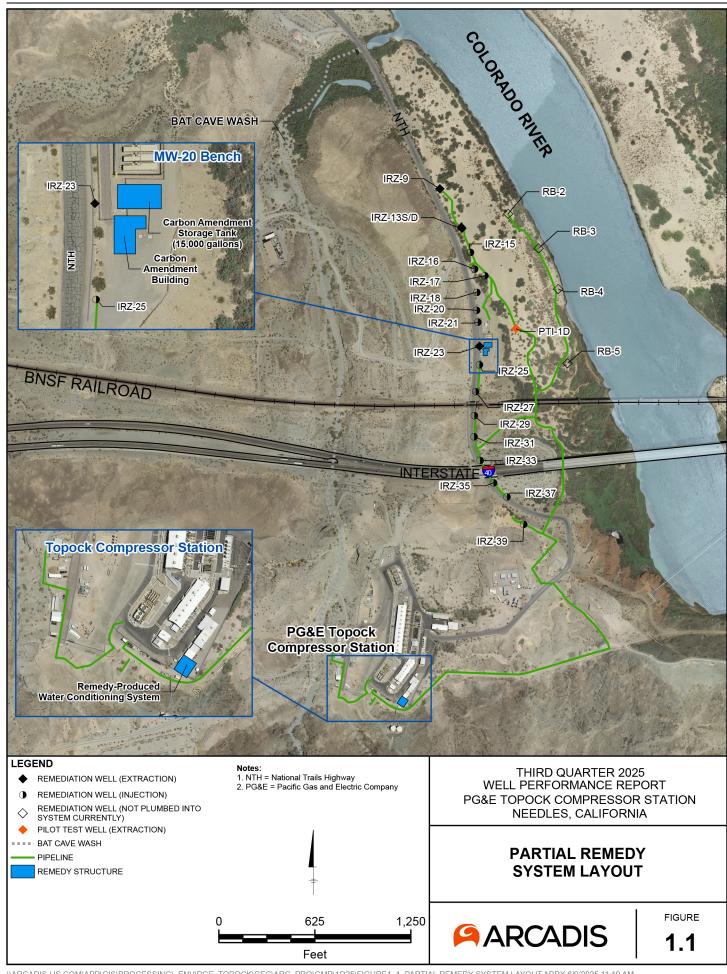
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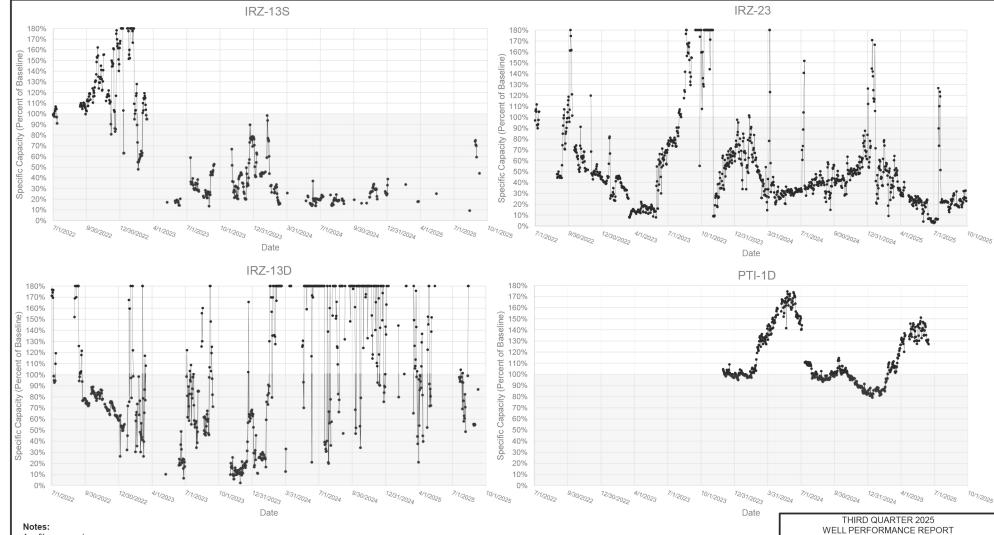
NM = Not Measured

mL/min = milliliter per minute N/A = not applicable

> Arcadis Page 4 of 4

Figures



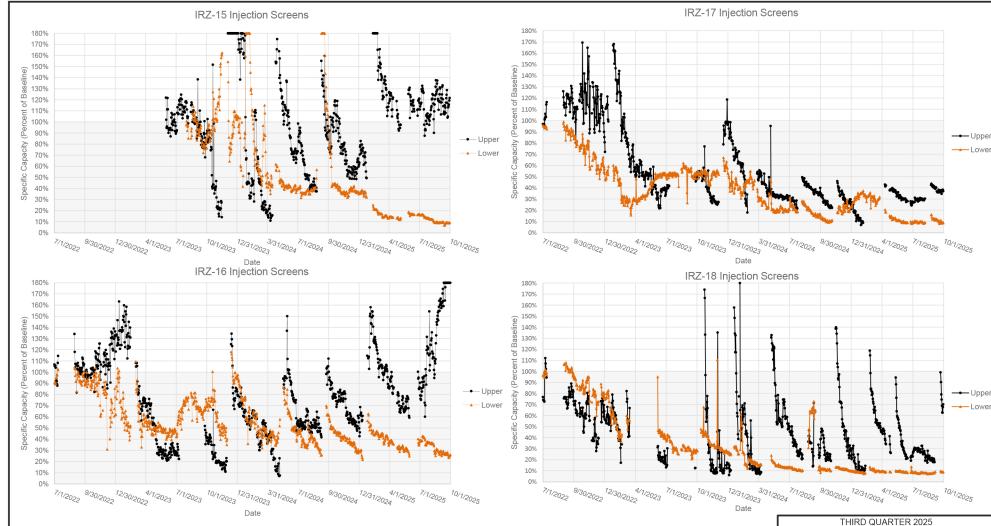


- % = percer
- 2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
- 3. Baseline specific capacity has not been established for IRZ-9 due to limited operation. Therefore, a graph of IRZ-9 is not included.
- 4. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
- PTI-1D began operation in November 2023. A baseline specific capacity was established for this well in December 2023. The graph excludes data collected prior to the baseline specific capacity being established.
- 6. Displayed notes pertain exclusively to data from the current quarter.

PG&E TOPOCK COMPRESSOR STATION NEEDLES, CALIFORNIA

EXTRACTION WELL SPECIFIC CAPACITY TRENDS





Notes:

1. % = percent

2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.

3. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.

4. IRZ-15 (upper) began operation in March 2023. IRZ-15 (lower) began operation in April 2023. Baseline specific capacities were established for these wells in June and August 2023, respectively. The graphs exclude data collected prior to the baseline specific capacity being established.

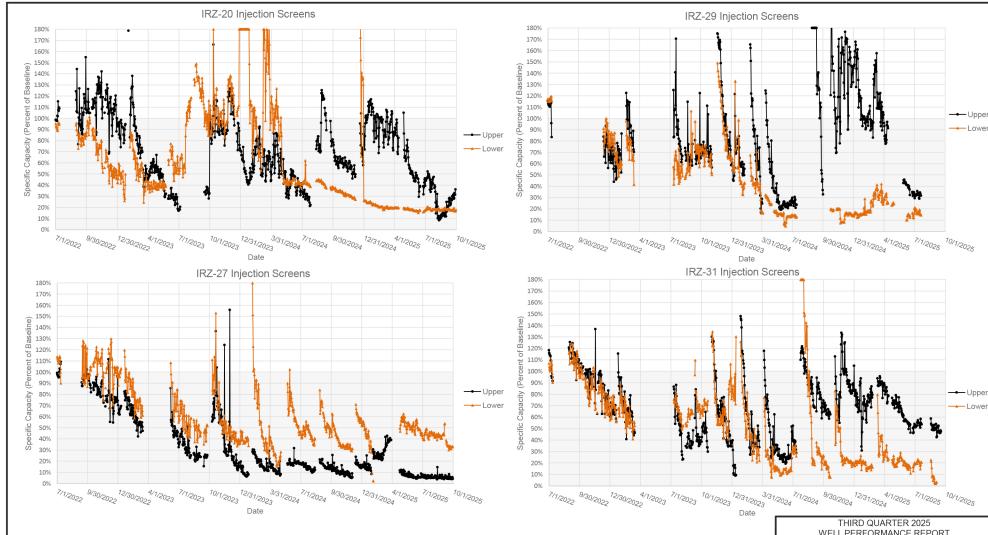
5. Displayed notes pertain exclusively to data from the current quarter.

WELL PERFORMANCE REPORT

PG&E TOPOCK COMPRESSOR STATION NEEDLES, CALIFORNIA

INJECTION WELL SPECIFIC CAPACITY TRENDS PART 1





Notes:

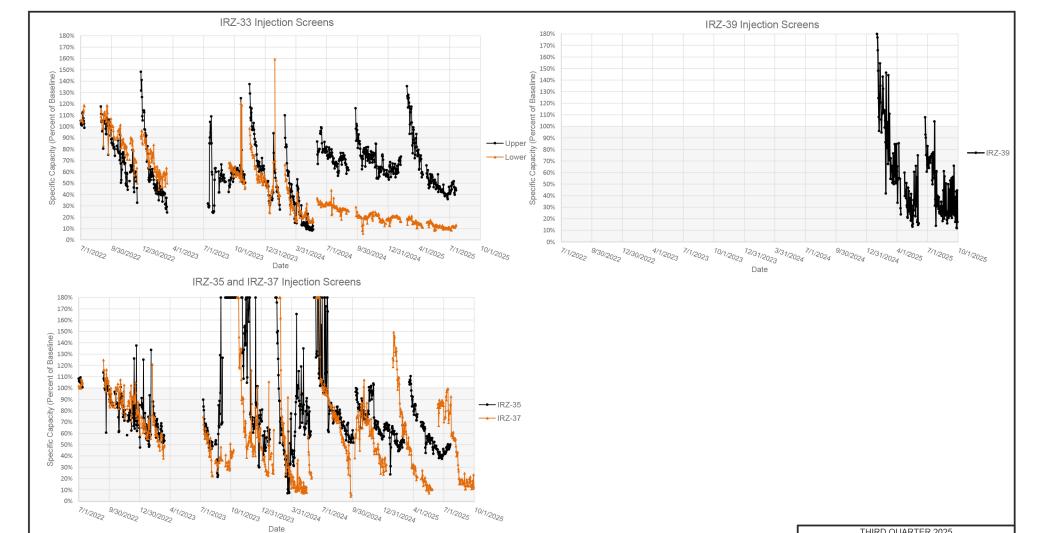
- % = percent
- Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
- Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
- Displayed notes pertain exclusively to data from the current quarter.

WELL PERFORMANCE REPORT

PG&E TOPOCK COMPRESSOR STATION NEEDLES, CALIFORNIA

INJECTION WELL SPECIFIC CAPACITY TRENDS PART 2





Notes:

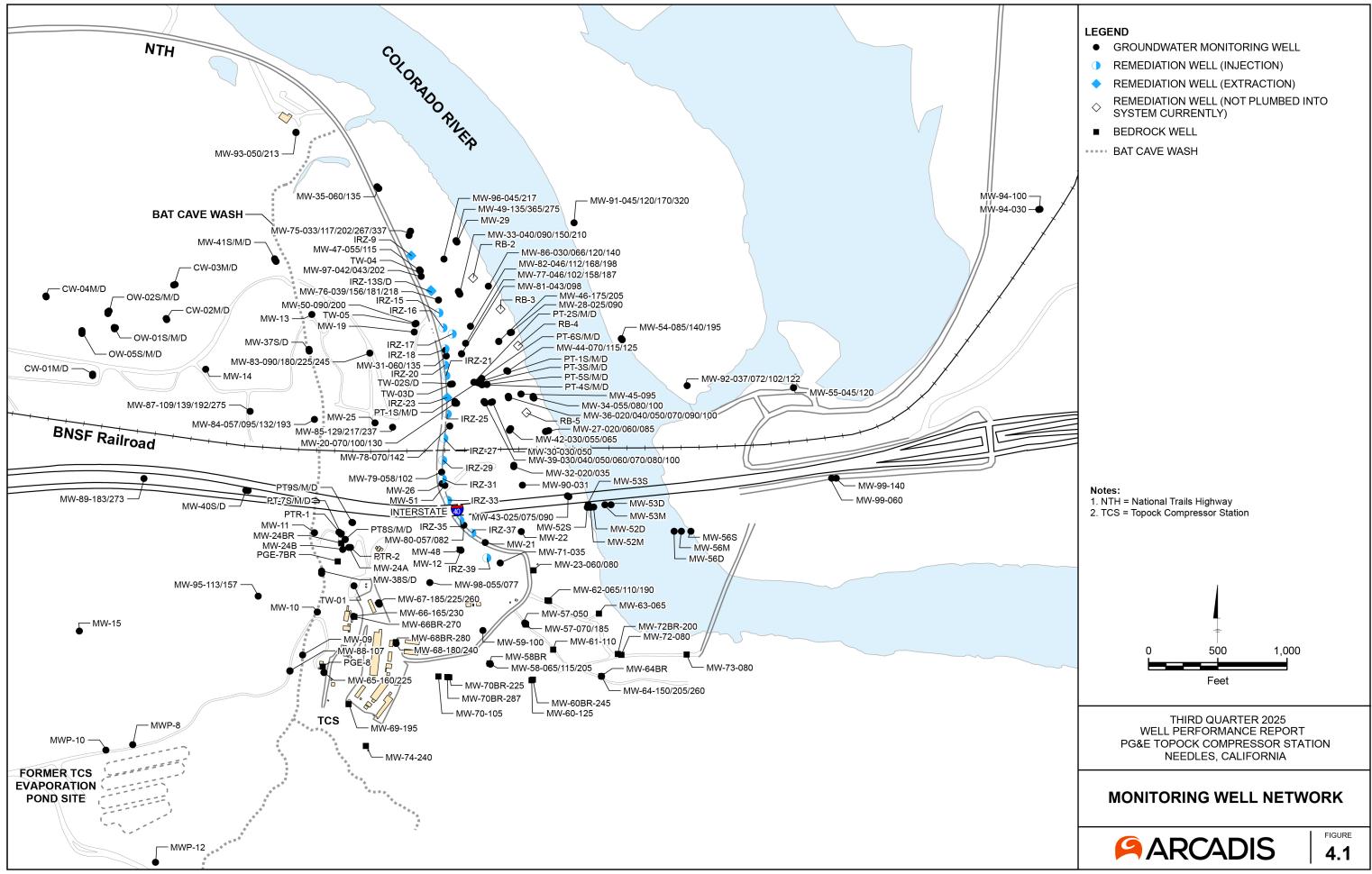
- 1. % = percent
- 2. Baseline specific capacity for each screen interval is represented as 100% on the y-axis. Specific capacity values greater than 100% indicate performance exceeding baseline. Values less than 100% are shaded gray.
- 3. Specific capacities greater than or equal to 180% are shown as 180% to indicate well was operational at a high specific capacity.
- 4. IRZ-39 began operation again in December 2024. A baseline specific capacity was established for this well in February 2025. The graph excludes data collected prior to the baseline specific capacity being established.
- . Displayed notes pertain exclusively to data from the current quarter.

THIRD QUARTER 2025 WELL PERFORMANCE REPORT

PG&E TOPOCK COMPRESSOR STATION NEEDLES, CALIFORNIA

INJECTION WELL SPECIFIC CAPACITY TRENDS PART 3





Appendix A

PT5D Redevelopment Log

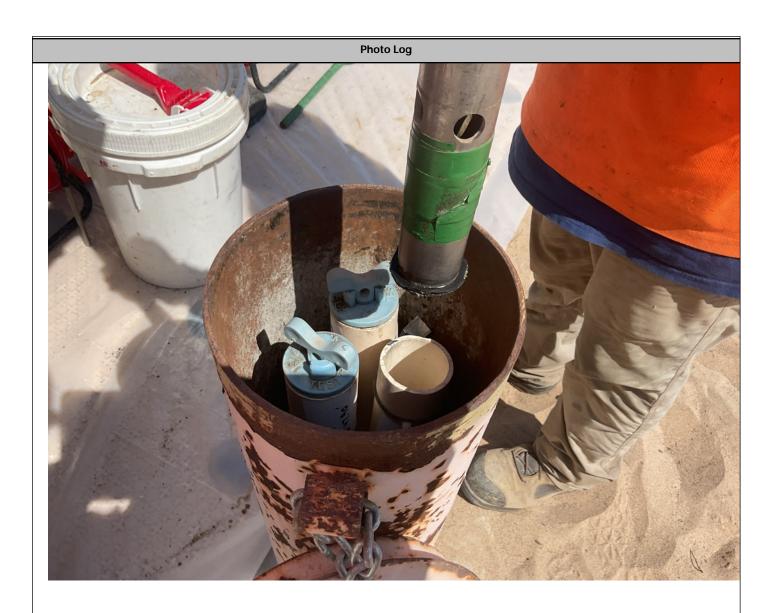
For additional help with the information provided in Appendix A, please contact Erin Somers, Arcadis Report Lead, at 905-807-6126.

CLIENT NAME: PG&E Arcadis PROJECT NO: 30243807	DAILY QUALITY ASSURANCE REPORT	REPORT DATE: 9/5/ REVISION NO: 1 REVISION DATE: 9/6	
PG&E FIELD REPRESENTATIVE: Colton Garrard	PROJECT NAME: Final Groundwater Remedy Phase 2B, PG&E T	opock Compressor Sta	ation
PG&E CONSTRUCTION MANAGER: David Diaz	PROJECT ACTIVITY: PT5D well redevelopment	·	
PROJECT MANAGER: Brian Prowd	CONSTRUCTION TASK MANAGER: Melissa Cartwright	QA Manager(s): Sean McGrane	
FIELD CONSTRUCTION/SAFETY MANAGER: Daniel Bernasconi	WEATHER: With AM stormsSunny	TEMPERATURE : 77-95 F	WIND: 5-11 mph
PERS	SONNEL AND HOURS WORKED		
Arcadis (5 hours total) • Daniel Bernasconi - 5 hrs			
Cascade (6 hours total) • Javi Duarte - 3 hrs			
Ricardo Peña - 3 hrs			
TOTAL HOURS - 11 personnel hours			
	EQUIPMENT ONSITE		
 2024 Jeep Grand Cherokee (293 HP) - 1 hours total 2019 Ford F250 (450 HP) - 1 hours total Pulstar P12000 - 3 hours total 	ll		
SUMMA	RY OF WORK PERFORMED TODAY		
Pull transducer and sample tubing from well and gau Conducted the initial bail, collect Imhoff cones from Surged screen interval from approximately 95 to 105 Post surging SWL: 19.79 and TD: 107.19, approximate Conducted second round of bailing, collected Imhoff	first and last bailers, and removed approximate feet bgs for approximately 50 minutes. ely 0.32 feet of sediment pulled into the well du	iring first round of sur	
	HEALTH AND SAFETY		
Was A Job Safety Meeting Held This Date?			□ No
Have all workers confirmed that they are Fit For Duty?			☐ No
Were there any lost-time accidents this date? (If Yes, attach co	opy of completed OSHA report)	☐ Yes	⊠ No
Was a Confined Space Entry Permit Administered This Date? (If Yes, attach copy of each permit)	☐ Yes	⊠ No
Was Crane/Manlift/Trenching/Scaffold/HV Electrical/High Worstatement or checklist showing inspection performed)	k/Hazmat Work Done? (If Yes, attach	☐ Yes	⊠ No
Was Hazardous Material/Waste Released into the Environmen proposed action)	t? (If Yes, attach description of incident and	⊠ Yes	□ No
TAILGATE MEETING/SAFETY DISCUSSIONS: Equipment inspection			
Stop Work Authority			
Work to be done for the day			

	(OPERATIONS / PI	RODUCTION REPORT		
PLANNED WORK/TEST TH	S WEEK:				
Complete well devel	opment.				
No Visitors					
		QUALITY CO	NTROL REPORT		
No Materials Reported					
No Samples Reported					
No Testing Reported					
QUALITY AND/OR PRODUC	CTION ISSUES AND RESO	LUTIONS: None			
		REGULATORY CO	OMPLIANCE REPORT		
PERMIT CONDITIONS THA	T ARE OUT OF COMPLIAN	ICE: None			
	WASTE A	CCUMULATION/	STOCKPILE AREA INSPEC	TION	
Inspection Performed By:	N/A		Accumulation /Stockpile Area Inspected:		
		STORMWAT	ER INSPECTION		
Inspection Performed By:		Deficiencies/Cor N/A	rective Actions Required	?	
Required BMPs in Place: Yes		Comments?			
		General	Comments		
No comments					
Daily Report Signature:		Domáx Bernascon	5		



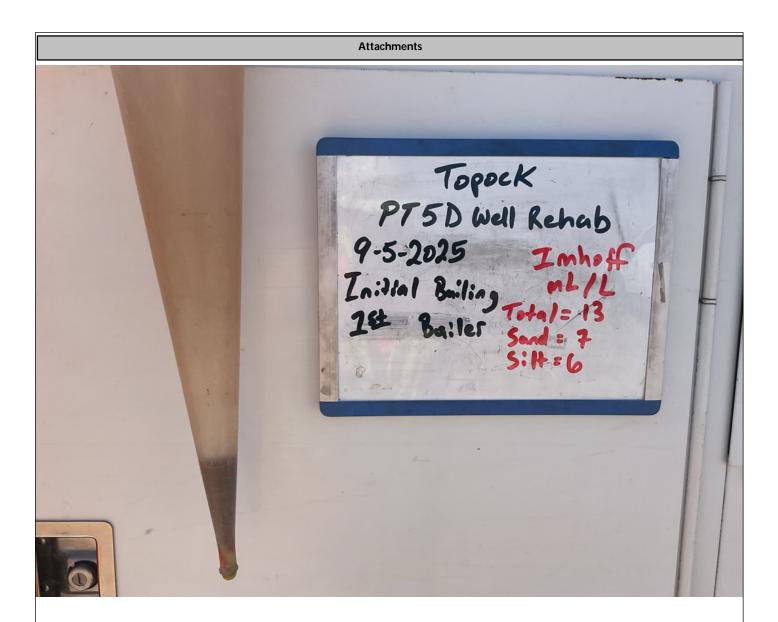
Bailing sediment from bottom of well.



Surging well with surge block and new wiper.



First bailer after first round of surging.



First bailer from initial bailing.

Attachments

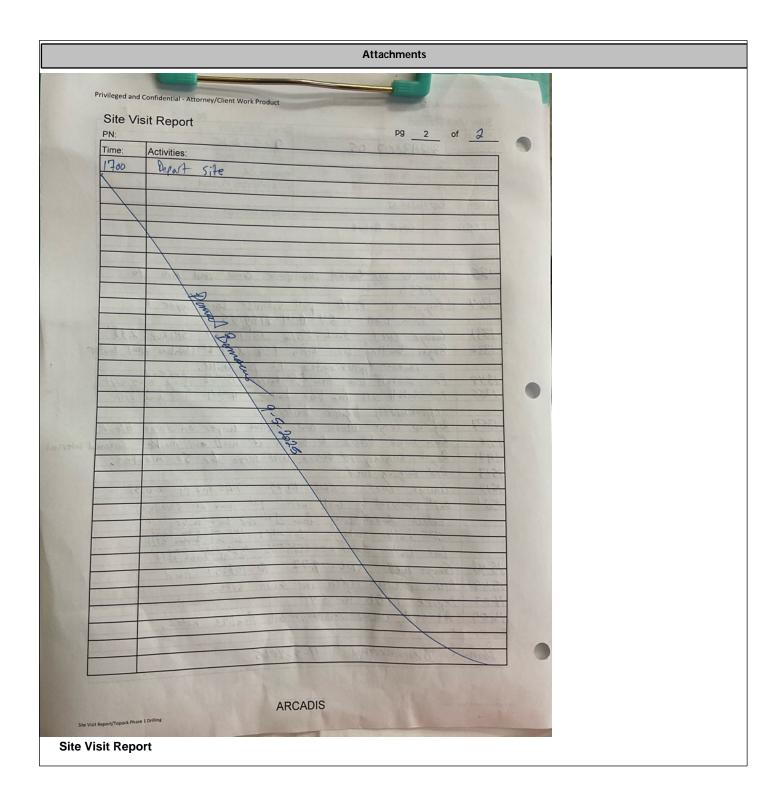


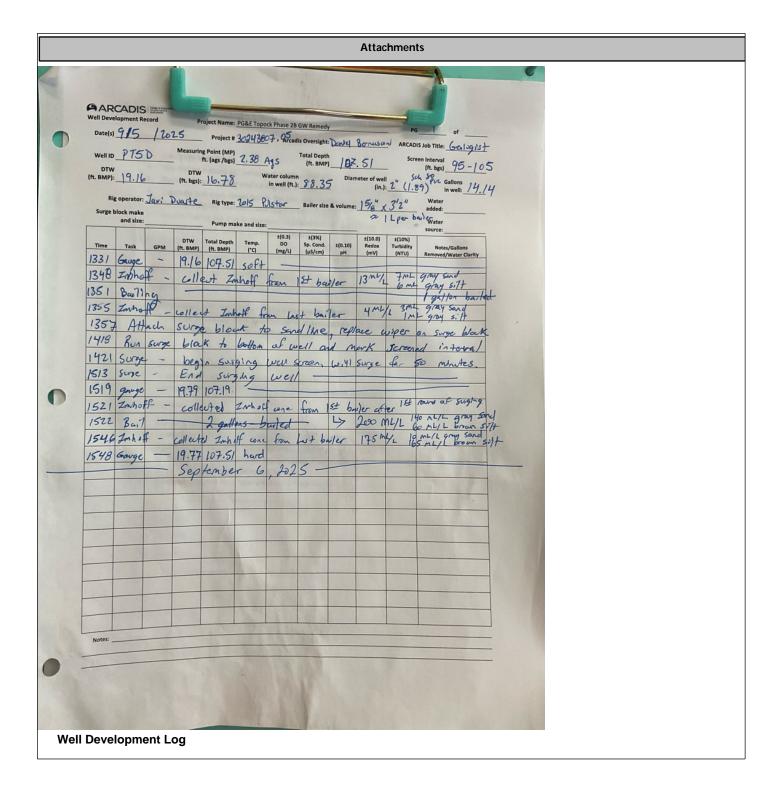
Last bailer after first round of surging.



Last bailer from initial bailing.

	Attachments	
Privileged and Confidential - Attorney/Client Work Product Site Visit Report		
Arcadis Project Number: 30278044 302 43807.05 Arcadis Project Name: PG&E Topock Phase 2B GW Remedy Arcadis Personnel Present: Daniel Bernascen; Borehole ID P75D Well Rehab	Dates of Site Visit: 9 - 5 - 2025 Location of Project: Needles, CA Other Persons Present:	
1331 Grange (Well SWL: 19 1336 Beyen bailing well wi 1348 Pull Imhoff cone from 1 1355 Pull Imhoff cone from Last upproximately I gallan be 1357 Rig up surge block an 1418 Run surge block to 1 1421 Begin Surging 10' Screen 1513 End surging well 1531 Bail matorial in Well a wallest Imhoff cones for	11 Solonist Loud logger 5 104-2189155 1.16 TD! 107-51 SHOKUP 12.38' The 15/8" X 3'2" Stahless Steel buller 1 L per bailer. 1 L per bailer.	wengel
Last bailer Imhat! 1548 Gauge well SWL: 19. 1549 Crean up Work area as 1603 Depart PT50 for SY 1609 At SYP, unload equipme Signature & Date: Domail Bernoscon 9.	at and finalize notes.	





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