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Interim Measure No. 3 Preparation for Lay-up Completion Report

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Pacific Gas and Electric Company TPK_IM3 Prep for Layup Rpt_[JUNE 1,2022]

Topock Compressor Station, Needles California June 1, 2022



Jacobs

Interim Measure No. 3 Preparation for Lay-up Completion Report

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Project name:	Topock Compressor Station, Needles California		
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155 Grand Avenue Suite 800 Oakland, CA 94612 United States T +1.510.251.2426 F +1.510.451.5507 www.jacobs.com

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Acronyms and Abbreviations

AOC	area of concern
CIP	Clean In Place
DOI	U.S. Department of the Interior
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
Final Remedy	final groundwater remedy
IM	Interim Measure
IM-3	Interim Measure No. 3
мсс	Motor Control Center
PG&E	Pacific Gas and Electric Company
РМО	Program Management Office
RO	reverse osmosis
TCS	Topock Compressor Station
Work Plan	Interim Measure No. 3 Decommissioning, Removal, and Restoration Work Plan

1. Introduction

1.1 Purpose and Scope

Pacific Gas and Electric Company (PG&E) has begun operating a final groundwater remedy (Final Remedy) to address chromium in groundwater at Solid Waste Management Unit (SWMU) 1/Areas of Concern (AOCs) 1 and 10 located near PG&E's Topock Compressor Station (TCS) in San Bernardino County, California.

To minimize interference with the Final Remedy start-up, pursuant to the *Interim Measure No.* 3 *Decommissioning, Removal, and Restoration Work Plan* (Work Plan; CH2M, 2014) and with approvals from the California Department of Toxic Substances Control (DTSC) and U.S. Department of the Interior (DOI), PG&E shut down the Interim Measure No. 3 (IM-3) extraction system on December 22, 2021 and started to prepare for lay-up. Groundwater treatment at IM-3 was terminated on December 28, 2021. The preparation for lay-up was completed on March 21, 2022. See Appendix A for records of agencies notifications and communications.

This Preparation for Lay-Up Completion Report documents completed cleaning activities from December 22, 2021 to March 21, 2022 for the IM-3 system as described in Section 2 of the Work Plan.

1.2 Background

PG&E began implementing interim remedy measures at the Topock site in March of 2004. Initially, PG&E commenced pumping, transport, and disposal of groundwater from the MW-20 Bench location in March 2004 (IM-2). Batch treatment on the MW-20 Bench was added later in 2004. Because of space and treatment capacity limitations to manage the desired higher groundwater extraction flows at the MW-20 Bench, the IM-3 system includes a groundwater in July 2005; in 2005, IM-2 was turned off, and in 2009, it was decommissioned. During decommissioning of IM-2, the IM-3 brine storage and loading facilities were relocated and upgraded on the MW-20 Bench.

The IM-3 brine and loading facilities have been incorporated into, and are now being operated as part of, the Final Remedy.

2. Reporting Requirements

This Preparation for Lay-Up Completion Report was prepared at the request of DTSC and DOI.

3. IM-3 Cleanup

3.1 Completed Tasks

This section describes the tasks completed in preparation for lay-up of IM-3. Table 3-1 contains the detailed schedule of completed cleaning and disconnecting activities. Appendix B contains pertinent process and instrumentation diagrams with red boxes indicating the locations of blind flange installations. Appendix C, which contains the photo log, documents system dismantling and cleaning.

IM-3 Clean-up Tasks	Date Work Began	Date Finished
Notify PG&E and PMO via email that the IM-3 system (extraction, treatment, and injection) is ready to be shut down and prepared for layup	12/21/2021	12/21/2021
Extraction Wells		•
Turn off the extraction system	12/21/2021	12/21/2021
Isolate extraction wells from IM-3 treatment plant	12/29/2021	12/29/2021
Prepare the extraction well system equipment and instrumentation for long- term storage	1/8/2022	1/20/2022
Injection Wells		
Treat as much process water within the IM-3 treatment plant as possible; inject treated water into the aquifer	12/21/2021	12/28/2021
Turn off the injection well system	12/28/2021	12/28/2021
Isolate the injection wells from the IM-3 Treatment Plant	12/30/2021	12/30/2021
Disconnect each injection pipeline from each injection well head	1/18/2022	1/22/2022
Remove the conduit from IM-3 Treatment Plant to the injection wells	12/30/2021	1/22/2022
Process Facility		•
Clear chemical lines and collect chemical waste for treatment or proper disposal	1/25/2022	2/22/2022
Isolate chemical storage totes or day tanks	1/25/2022	2/25/2022
Remove and return totes with any unused chemicals, including laboratory chemicals, to the chemical supplier.	3/1/2022	3/1/2022
Remove flammable liquids from the flammable liquid storage cabinet located at the IM-3 Treatment Plant	3/2/2022	3/21/2022
Remove and drain all wastes from the system and flush lines	12/27/2021	2/25/2022
Transport brine, sludge, and RO membranes to permitted offsite facility(ies)	1/25/2022	3/21/2022
Return rental equipment including the emergency diesel generator	12/27/2021	3/17/2022
Recycle diesel at TCS tank	N/A	12/21/2021
Install a new auto-dialer to enable notification in the event of a high-level alarm in the septic tank	11/20/2021	11/20/2021
Turn off the HMI and PLCs and lights	3/21/2022	3/21/2022
Notify PG&E and PMO via email that the IM-3 system is ready for layup	3/21/2022	3/21/2022
Put the system in layup and lock the gate	3/21/2022	3/21/2022

Table 3-1. IM-3 Cleaning Tasks Schedule as Completed

HMI = human-machine interface; PLC = programmable logic controller; PMO = Program Management Office; RO = reverse osmosis

3.1.1 Extraction Shutdown and Isolation

All IM-3 extraction wells (TW-2S, TW-2D, and TW-3D) were shut down on December 21, 2021 at 14:20. Cleanup and dismantling work began on January 8, 2022 and was completed January 20, 2022. Extraction pumps and drop pipes were removed from the wells. All instrumentation was removed from well vaults. Well caps with blind flanges were reinstalled on the wellheads to prevent objects from falling into the wells. Extraction piping was removed from the wellhead to the well vault wall penetration. Extraction piping from the well vaults to Valve Vault #1 was evacuated using a vacuum truck and the water transported to IM-3 for processing. Blind flanges were installed at the well vault wall penetrations. Valve Vault #1 lay-up preparation work began January 8, 2022 and was completed January 20, 2022. The extraction well piping for TW-2S, TW-2D, and TW-3D was removed between all wall penetrations and blind flanges installed at all open locations. All extraction well instrumentation was removed from the valve vault. The extraction piping from Valve Vault #1 to IM-3 was evacuated using a vacuum truck and the water transported to IM-3 for processing.

IM-3 extraction line isolation work began January 8, 2022 and was completed by January 20, 2022. The extraction piping Valve Vault #1 to IM-3 was evacuated using the vacuum truck and the water transported to IM-3 for processing. The extraction line was taken apart at the point where it entered the IM-3 containment structure and a blind flange was installed a t the end of the dual containment pipe.

Extraction pump Motor Control Center (MCC) breakers layup work began and was completed on December 29, 2021. TW-2S, TW-2D, and TW-3D extraction pump MCC breakers were disabled by removing the load side electrical leads from the breaker and tagging the breaker in the closed position.

3.1.2 Treatment and Injection Shutdown and Isolation

All waste was drained from the treatment system and lines flushed starting December 27, 2021 and concluding on February 25, 2022. This process included pressure washing the inside of the process tanks, flushing all pipelines with clean water, flushing all chemical lines with clean water followed by pH neutralizer, and disposing of microfilter modules and reverse osmosis (RO) membranes.

Treated water injection was completed on December 28, 2021. Injection wells were isolated from the IM-3 treatment plant on December 30, 2021. The injection line was taken apart downstream of P-700 and rerouted so that it can no longer be reconnected to the injection wells. Blind flanges were then installed on the injection line just before it entered the ground at IM-3.

The off-spec water line work began and was completed on December 30, 2021. The line to the MW-20 bench was taken apart downstream of P-700 and a blind flange installed just before the line entered the ground at IM-3.

Work began and was completed to isolate the brine line from IM-3 to the MW-20 bench on December 30, 2021. A section of piping was removed from the brine line just before it entered the ground at the IM-3 and blind flanges were installed on both sides of the removed section.

Removal of the aboveground control system conduit from the IM-3 treatment plant to the injection wells began on December 30, 2021 and was finished on January 22, 2022. The exposed ends of the conduit were sealed to keep out foreign material.

Each injection pipeline was disconnected from each injection well head on January 22, 2022 with work beginning on January 18, 2022. Blind flanges were installed on the injection wellheads and all instrumentation was removed from the well vaults. The P-900 discharge line was disconnected from T-100 and rerouted to T-402.

The entire aboveground control system for the injection wells was removed March 4, 2022. This includes the security fence and traffic control bollards.

3.1.3 Emergency Generator Return and Chemicals

On December 27, 2021 the backup generator was disconnected from the IM-3 electrical system; all diesel fuel was removed from the backup generator and put into the project truck bulk tank for use in the project back-hoe, forklift, and pick-up truck. The backup generator was removed from the site on March 17, 2022.

Isolation of the chemical storage totes and day tanks began January 25, 2022 and was completed by February 25, 2022. There were no waste chemicals to be disposed. All unused chemicals, including laboratory chemicals, were returned to the supplier, Thatcher Chemical in Henderson, Nevada.

3.2 Remaining Materials and Facility Turnover

As of March 21, 2022 several process tanks still contain the following materials:

- T-100 contains 2.34 feet of solid material.
- T-600 contains 3,960 gallons of treated microfilter effluent water.
- T-700 contains 15,837 gallons of treated RO permeate.
- T-900 contains 1,538 gallons of treated washdown water.

All sludge inside T-100 could not be removed with approximately 2.34 feet (about 4,171.28 gallons) of solid material remaining in the bottom of the tank. Sludge within this tank is expected to contain hazardous levels of hexavalent chromium. Cutting open one end of the tank will be required to finish sludge removal. This would render the tank unusable and will be left until decommission.

Water from the microfilter and RO permeate were retained with the intent to continue to use it during layup operations. T-900 is a floor drain accumulation tank and will retain a small amount of water until facility decommissioning.

On March 21, 2022, PG&E was notified that clean-up was complete. PG&E representatives (Curt Russell and David Diaz) toured the site on March 22, 2022 and received all keys and lock combinations.

4. Waste Generation and Waste Management

All treatment-generated waste was processed through the plant. The solid portion was disposed of through the phase separators. Fifty-six cubic yards of dewatered solids, microfilter modules, and RO membranes were shipped to US Ecology, Beatty Nevada using US Ecology WS# 070304177-0. Phase separators were removed from the site on March 21, 2022.

Flammable liquid waste from the flammable liquid storage cabinet at IM-3 were sent offsite on March 3, 2022 with the routine phase separator disposal.

All brine was sent to Liquid Environmental Solutions (LES) in Phoenix, Arizona for treatment and disposal.

See Appendix D for waste disposal documentation.

5. References

CH2M Engineers Inc. (CH2M). 2014. Interim Measure No. 3 Decommissioning, Removal, and Restoration Work Plan, Topock Compressor Station, Needles, California. September 3.

Appendix A Agencies Approvals and Notifications

Mullin, Kevin/HEI

From:	Mullin, Kevin/HEI
Sent:	Tuesday, December 21, 2021 3:56 PM
То:	'Baxter, Jonathan'; Russell, Curt; Diaz, David; Bonnett, Kristina; Hong, Christina/LAC; Bush, Dan
Cc:	Prowd, Brian; Richard Orens; Gentile, Margaret; Lenzo, Frank; mbloes@pivox.com; Newman, Janet; Lisa Kellogg; Talbot, Daniel; Goodrich, Chris/CVO
Subject:	RE: Topock IRZ Recirculation Initiated

Hello All,

I talked to Jon at about 14:15 this afternoon and confirmed the information in the email below. Per the email correspondence from DTSC yesterday and DOI this morning, now that the IRZ is scheduled to begin carbon dosing tomorrow, it is time to shut down IM-3.

IM-3 extraction was shut down at 14:20.

Thank you,

Kevin Mullin Jacobs Operations Specialist 208-278-3515 kevin.mullin@jacobs.com

www.jacobs.com

From: Baxter, Jonathan <Jonathan.Baxter@arcadis.com>

Sent: Tuesday, December 21, 2021 3:10 PM

To: Russell, Curt <gcr4@pge.com>; Diaz, David <D3D6@pge.com>; Bonnett, Kristina <KABY@pge.com>; Mullin, Kevin/HEI <Kevin.Mullin@jacobs.com>; Hong, Christina/LAC <Christina.Hong@jacobs.com>; Bush, Dan <Dan.Bush@arcadis.com>

Cc: Prowd, Brian <Brian.Prowd@arcadis.com>; Richard Orens <richard.orens@arcadis.com>; Gentile, Margaret <Margaret.Gentile@arcadis.com>; Lenzo, Frank <Frank.Lenzo@arcadis.com>; mbloes@pivox.com; Newman, Janet <Janet.Newman@arcadis.com>; Lisa Kellogg <lisa.kellogg@arcadis.com>; Talbot, Daniel <Daniel.Talbot@arcadis.com> Subject: [EXTERNAL] Topock IRZ Recirculation Initiated

Good Afternoon,

We've begun recirculation using the node 3 wells for the IRZ system at approximately 90 gpm. IRZ-23 is operating as the extraction well and IRZ-16, -17, -18, -20, and -27 operating as injection wells. This afternoon we will continue operating those wells, balance flow distribution based on the initial targets provided by Margy, and testing the carbon dosing system using water (no ethanol injection today) in order to prepare for carbon dosing tomorrow. Recirculation flow rates will vary a bit today as we continue working through that configuration, testing and tracking down bugs in some of the controls. We do not plan to operate overnight at this point in time.

The plan for tomorrow is to bring the control system and wells online after fueling the generator, rebalance flows to meet align with the targets and start carbon dosing as soon as possible in the morning. Brian will have the lead for Arcadis onsite tomorrow.

Thank you, Jon

Jonathan Baxter PE Principal Environmental Engineer Arcadis U.S., Inc. 126 N Jefferson St Suite 400 | Milwaukee, WI | 53202 | USA T +1 414 277 6257 M +1 414 477 9243 www.arcadis.com





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Curt Russell Topock Project Manager Environmental Remediation Topock Compressor Station 145453 National Trails Hwy Needles, CA 92363

Mailing Address P.O. Box 337 Needles, CA 92363

760.326.5582 Fax: 760.326.5542 Email: gcr4@pge.com

January 31, 2022

Mr. Mark Bechel Hazardous Materials Specialist/RMP Coordinator San Bernardino County Fire Department, Office of the Fire Marshal, Hazardous Materials Division 620 South E Street San Bernardino, CA 92415-0153

Subject: Notification of Termination of Hazardous Waste Treatment at IM-3, Conditional Authorization Tier for Hazardous Waste Treatment Facility ID No. FA36001

Dear Mr. Bechel:

This letter serves as a notification to the CUPA that Pacific Gas and Electric (PG&E) terminated treatment of wastewater at IM-3 on December 28, 2021.

Pursuant to Section 7.3.3 (Implementation of Transition Plan) of the approved *Basis of Design Report for the Final Groundwater Remedy*, on December 20, 2021, Pacific Gas and Electric (PG&E) requested approvals from the California Department of Toxic Substances Control (DTSC) and the U.S. Department of the Interior (DOI) to shut down IM-3 as the groundwater remedy equipment and systems were in place and ready to begin start-up. PG&E received approval from DTSC on December 20, 2021, and DOI on December 21, 2021.

After receipt of the agencies' approvals, PG&E shut down IM-3 extraction wells on December 21, 2021 and terminated treatment of wastewater at IM-3 on December 28, 2021.

PG&E is in the process of preparing IM-3 for layup which is anticipated to last about 3 months. Once the preparation is complete, PG&E will notify DTSC and DOI that IM-3 is ready for lay-up. When the IM-3 system is in a lay-up condition, the system will be left in a safe, secure, and preserved state and will not operate again until agency approval is received for decommissioning and removal of the system.

Please note that per Section 9.4 of the approved IM-3 Decommissioning Work Plan, the hazardous waste treatment facility closure requirements will be fulfilled after receipt of agency approval to decommission and removal of IM-3.

Please contact me at (760) 791-5884 or Valeri Hirst at (760) 577-4642 if you have any questions or comments regarding this submittal.

Sincerely,

Schwoell

Curt Russell Topock Project Manager C: Valeri Hirst, Kevin Mullin

From:	Hong, Christina/LAC
То:	<u>Aaron Yue; Innis, Pamela S</u>
Cc:	<u>Russell, Curt; Diaz, David; Baker, Iain</u>
Subject:	Request for Agencies" Approval/Concurrence for IM-3 Shutdown by December 21, 2021
Date:	Monday, December 20, 2021 11:11:00 AM
Importance:	High

Mr. Yue and Ms. Innis,

On behalf of PG&E and pursuant to Section 7.3.3 (Implementation of Transition Plan) of the approved *Basis of Design Report for the Final Groundwater Remedy*, the IM system (also called IM No. 3) will be turned off after the first phase of construction, when groundwater remedy equipment and systems are in place and ready to begin start-up. The current start-up date is December 22, 2021.

Therefore, PG&E plans to shut down the IM No. 3 extraction wells (TW-2D and TW-3D) on December 22, 2021. In compliance with Section 2.1 (IM-3 Layup Preparation) of the approved *IM-3 Decommissioning, Removal, and Restoration Work Plan,* this email notifies DTSC and DOI of the planned shut down and requests the agencies' approval/concurrence by December 21, 2021. We also have notified the FMIT of this request.

After receipt of the agencies' approval/concurrence, PG&E will shut down the IM No. 3 extraction wells and prepare for lay-up. The preparation for lay-up is anticipated to last about 3 months. Once the preparation is complete, PG&E will notify the agencies that IM No. 3 is ready for lay-up. When the IM-3 system is in a lay-up condition, the system will be left in a safe, secure, and preserved state and will not operate again until agency approval is received for decommissioning and removal of the system.

Regards, Christina Hong

From:	Aaron Yue
To:	Hong, Christina/LAC; Russell, Curt
Cc:	Diaz, David; Innis, Pamela S; Baker, Iain; Adam Cochran, BLM; Amelia Flores, CRIT; Abbott, Aurora/STL; Baker,
	Karen@DTSC; Beahta Davis, Regional Parks; Betty Kuo Brinton, MWD; Bryan Etsitty, CRIT; Buddingh,
	Katharine@Waterboards; Chauvel, Tim@DTSC; Cortez, Jose@Waterboards; CourtCoyle@aol.com; Bush, Dan;
	Danielle Starring, PG&E Vigil, David@Wildlife; dbonamici@critdoj.com; Doug Bonamici 2, CRITs; Edgardo
	Castillo; Edwin Sparks, USFWS; Eichelberger, James@DTSC; Eli Ludwig, Groundwater Partners; Eric Putnam,
	ARCADIS; Eric Fordham; Funk, Alexander@Wildlife; yolanda.garza; Gloria Benson, BLM; Guerre,
	Christopher@DTSC; Hare, Lori@DTSC; Jim Colmer; Janet Newman, Arcadis; Jason R. West, BLM; Jeff Howland,
	USFWS; Smith, Jeffery B; Darcangelo, Jennifer; Jessica Neuwerth, CRB; Jill C. Teraoka, MWD;
	historicpreservation; John Krause, BIA; Kelly, Colin@DTSC; Kevin Sullivan; Bonnett, Kristina; Lisa Kellogg;
	Lisa.MichelettiCope@arcadis-us.com; Lindia Liu; Lleonhart@hargis.com; Marcos, Jose@DTSC; Margy Gentile,
	Aracis; Martina Dawley, Hualapai; mbloes@pivox.com; Matt Dudley, PG&E Santos, Mauricio J; Middleton,
	Greg@Waterboards; Mike Boyles, USBOR; Cavaliere, Mike/BAO; Mike Meek, Mohave County DPH; Morgan O"Connor, ADEO; Lopez, Maria T; Nathalie Doherty, USDOI; Nichole Osuch, ADEO; Nora McDowell, FMIT; Owens,
	Zakary@Waterboards; Paul Rochelle, MWD; PGEFile; Rasmussen, Paula@Waterboards; RG Keith Sheets
	(keith.sheets@ch2m.com); Rich Juricich, CRB; Richard Meyers, USFWS; Richard Orens, Arcadis; Robert Cheng,
	Coachella Valley Water District; Ron Escobar, Chemehuevi; Ronald Balsamo, Mohave Co; Roy-Semmen,
	Shukla@DTSC; Shakeel Jogia; Sierra Pencille; smcdonald@spmcdonaldlaw.com; Steven Escobar, Chemehuevi;
	Perry, Steven; Stormo, Scot@Waterboards; Anthony Rossi; vincent.garcia@ihs.gov; Strohl, Virginia; William
	Mack, BLM; Aaron Yue; Adrienne LaPierre; Brian Schroth, Jacobs; Frank Lenzo, Arcadis; Greg Foote, Arcadis;
	Piper, Jav/LAS; Joev Pace, ADEO; Sheets, Keith/PDX; Vigil, David@Wildlife; ericrosenblum; meggers; Monica
	Ruth, PGEFile, prucha, Walt McNab, Jr., Anthony Madrigal, Jr., 29 Palms, Antoinette Flora, CRIT; Arlene Kingery,
	<u>Fort Yuma-Quechan; Blake Watahomigie, Hualapai; calisay17@hotmail.com; Carrie Imus, Hualapai; Chase</u>
	Choate, Quechan ; cocotcsec@cocopah.com; Johnson "JD" Fisher, CRITs; Jolene Marshall, Hualapai; Justin
	Brundin, Cocopah; LindaOtero@FortMojave.com; Lyndee Hornell, Hualapai; Manfred Scott, Quechan; Sullivan,
	Michael J; Rena Van Fleet, CRIT; Richard Powskey, Hualapai, rloudbear@critdoj.com; Roland Ferrer, Torres-
	<u>Martinez; ShanLewis@fortmojave.com; Williams, Timothy@CDSS-Import; Toni Carlyle, CRIT</u>
Subject:	[EXTERNAL] RE: Request for Agencies" Approval/Concurrence for IM-3 Shutdown by December 21, 2021
Date:	Monday, December 20, 2021 11:58:17 AM
Attachments:	image002.jpg

Ms. Hong and Mr. Russell,

Thank you for your notification and request to shut down the Interim Measure 3 (IM3) groundwater extraction and treatment system in preparation of the Groundwater Remedy start-up. DTSC concurs with the request to terminate the Interim Measure extraction and treatment to control the hexavalent chromium groundwater plume which was proposed and approved by DTSC on June 30, 2004.

Pursuant to the formal agreement between DTSC, PG&E and the Fort Mojave Indian Tribe, DTSC also concurs with PG&E that the IM3 system shall begin the layup process and be maintained but not operated until a functional determination of the groundwater remedy prior to decommissioning.

If you have any questions regarding this concurrence, please feel free to contact me.

Sincerely,



Aaron Yue

Senior Hazardous Substances Engineer Office of Geology (714) 484-5439

<u>Aaron.Yue@dtsc.ca.gov</u>

Department of Toxic Substances Control 5796 Corporate Avenue Cypress, California 90630 From: Hong, Christina/LAC <Christina.Hong@jacobs.com>
Sent: Monday, December 20, 2021 11:12 AM
To: Yue, Aaron@DTSC <Aaron.Yue@dtsc.ca.gov>; Innis, Pamela S <Pamela_Innis@ios.doi.gov>
Cc: Russell, Curt <gcr4@pge.com>; Diaz, David <D3D6@pge.com>; Baker, Iain <IxBj@pge.com>
Subject: Request for Agencies' Approval/Concurrence for IM-3 Shutdown by December 21, 2021
Importance: High

EXTERNAL:

Mr. Yue and Ms. Innis,

On behalf of PG&E and pursuant to Section 7.3.3 (Implementation of Transition Plan) of the approved *Basis of Design Report for the Final Groundwater Remedy*, the IM system (also called IM No. 3) will be turned off after the first phase of construction, when groundwater remedy equipment and systems are in place and ready to begin start-up. The current start-up date is December 22, 2021.

Therefore, PG&E plans to shut down the IM No. 3 extraction wells (TW-2D and TW-3D) on December 22, 2021. In compliance with Section 2.1 (IM-3 Layup Preparation) of the approved *IM-3 Decommissioning, Removal, and Restoration Work Plan,* this email notifies DTSC and DOI of the planned shut down and requests the agencies' approval/concurrence by December 21, 2021. We also have notified the FMIT of this request.

After receipt of the agencies' approval/concurrence, PG&E will shut down the IM No. 3 extraction wells and prepare for lay-up. The preparation for lay-up is anticipated to last about 3 months. Once the preparation is complete, PG&E will notify the agencies that IM No. 3 is ready for lay-up. When the IM-3 system is in a lay-up condition, the system will be left in a safe, secure, and preserved state and will not operate again until agency approval is received for decommissioning and removal of the system.

Regards, Christina Hong

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Mr. Yue and Ms. Innis,

This email notifies the agencies that the preparation for IM No. 3 lay-up, which began on December 22, 2022, was completed on March 21, 2022. IM No. 3 is now in lay-up mode and will not operate again until agency approval is received for decommissioning and removal of the system.

As directed, a completion report will be prepared and submitted to the agencies that summarizes work completed as part of the preparation for layup.

Regards, Christina Hong

From: Hong, Christina/LAC
Sent: Monday, December 20, 2021 11:12 AM
To: Yue, Aaron@DTSC <Aaron.Yue@dtsc.ca.gov>; Innis, Pamela S <Pamela_Innis@ios.doi.gov>
Cc: gcr4@pge.com; Diaz, David <D3D6@pge.com>; Baker, Iain <IxBj@pge.com>
Subject: Request for Agencies' Approval/Concurrence for IM-3 Shutdown by December 21, 2021
Importance: High

Mr. Yue and Ms. Innis,

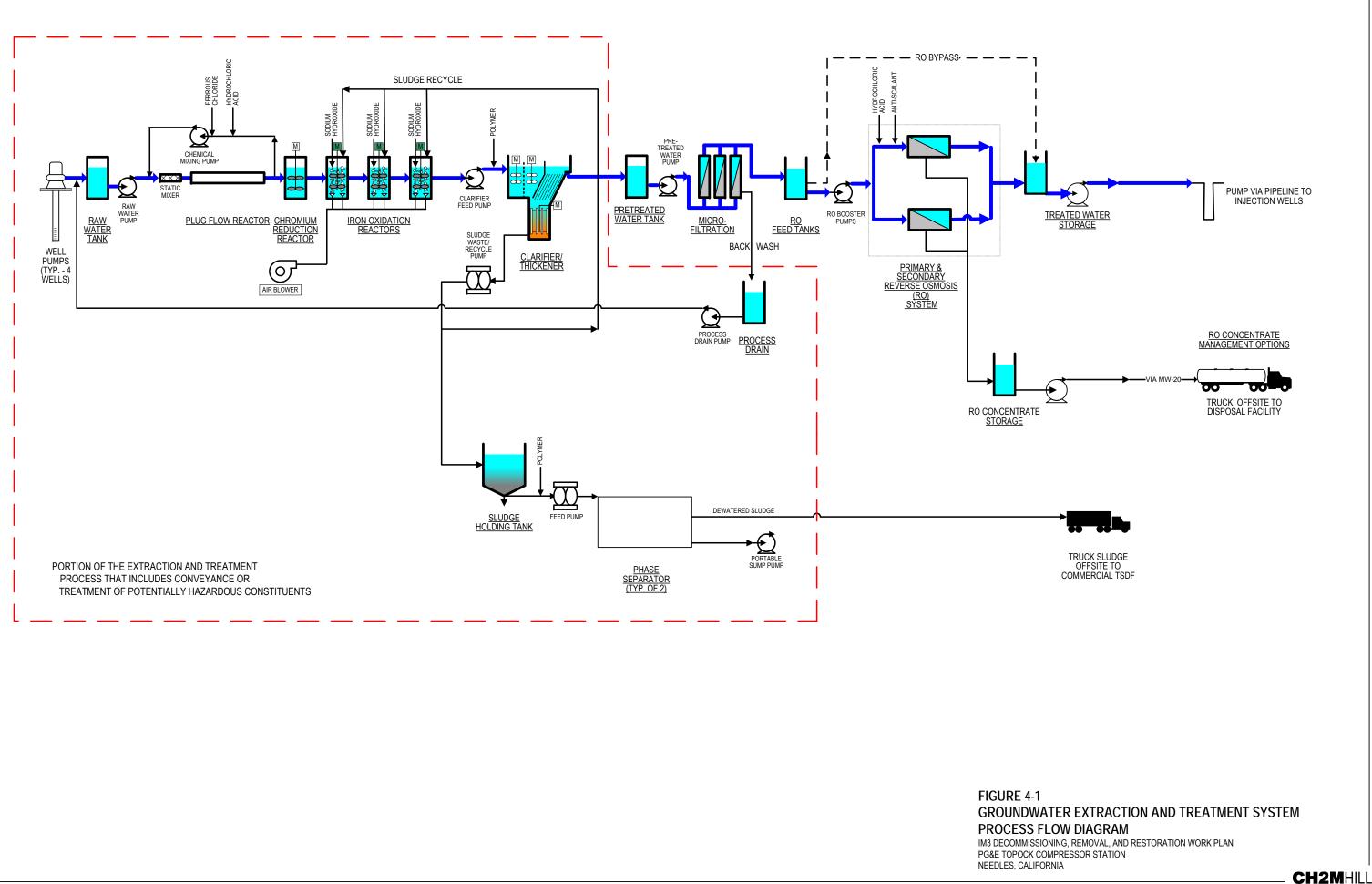
On behalf of PG&E and pursuant to Section 7.3.3 (Implementation of Transition Plan) of the approved *Basis of Design Report for the Final Groundwater Remedy*, the IM system (also called IM No. 3) will be turned off after the first phase of construction, when groundwater remedy equipment and systems are in place and ready to begin start-up. The current start-up date is December 22, 2021.

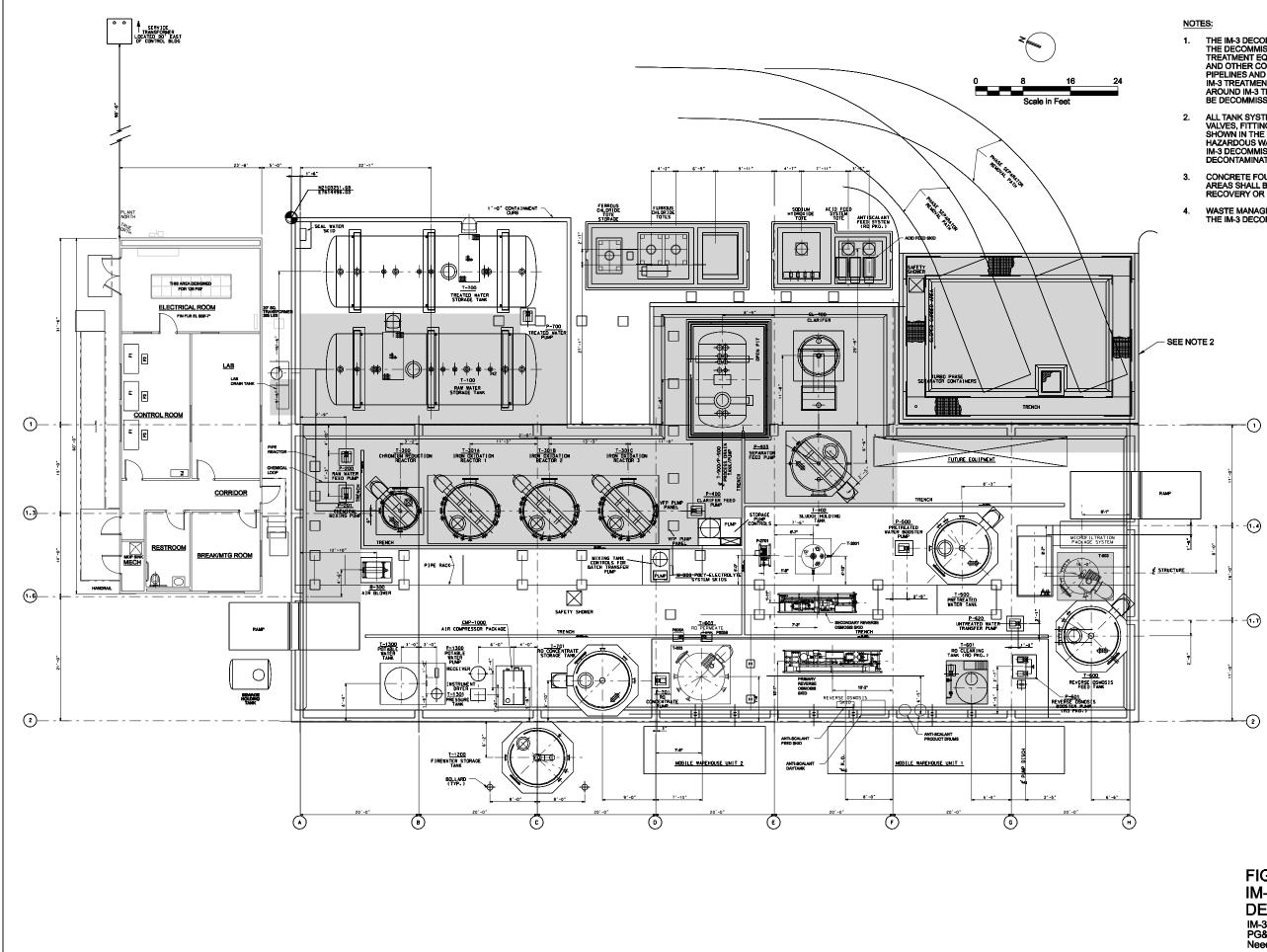
Therefore, PG&E plans to shut down the IM No. 3 extraction wells (TW-2D and TW-3D) on December 22, 2021. In compliance with Section 2.1 (IM-3 Layup Preparation) of the approved *IM-3 Decommissioning, Removal, and Restoration Work Plan,* this email notifies DTSC and DOI of the planned shut down and requests the agencies' approval/concurrence by December 21, 2021. We also have notified the FMIT of this request.

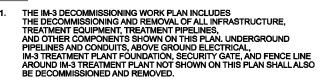
After receipt of the agencies' approval/concurrence, PG&E will shut down the IM No. 3 extraction wells and prepare for lay-up. The preparation for lay-up is anticipated to last about 3 months. Once the preparation is complete, PG&E will notify the agencies that IM No. 3 is ready for lay-up. When the IM-3 system is in a lay-up condition, the system will be left in a safe, secure, and preserved state and will not operate again until agency approval is received for decommissioning and removal of the system.

Regards, Christina Hong

Appendix B Process and Instrumentation Diagrams







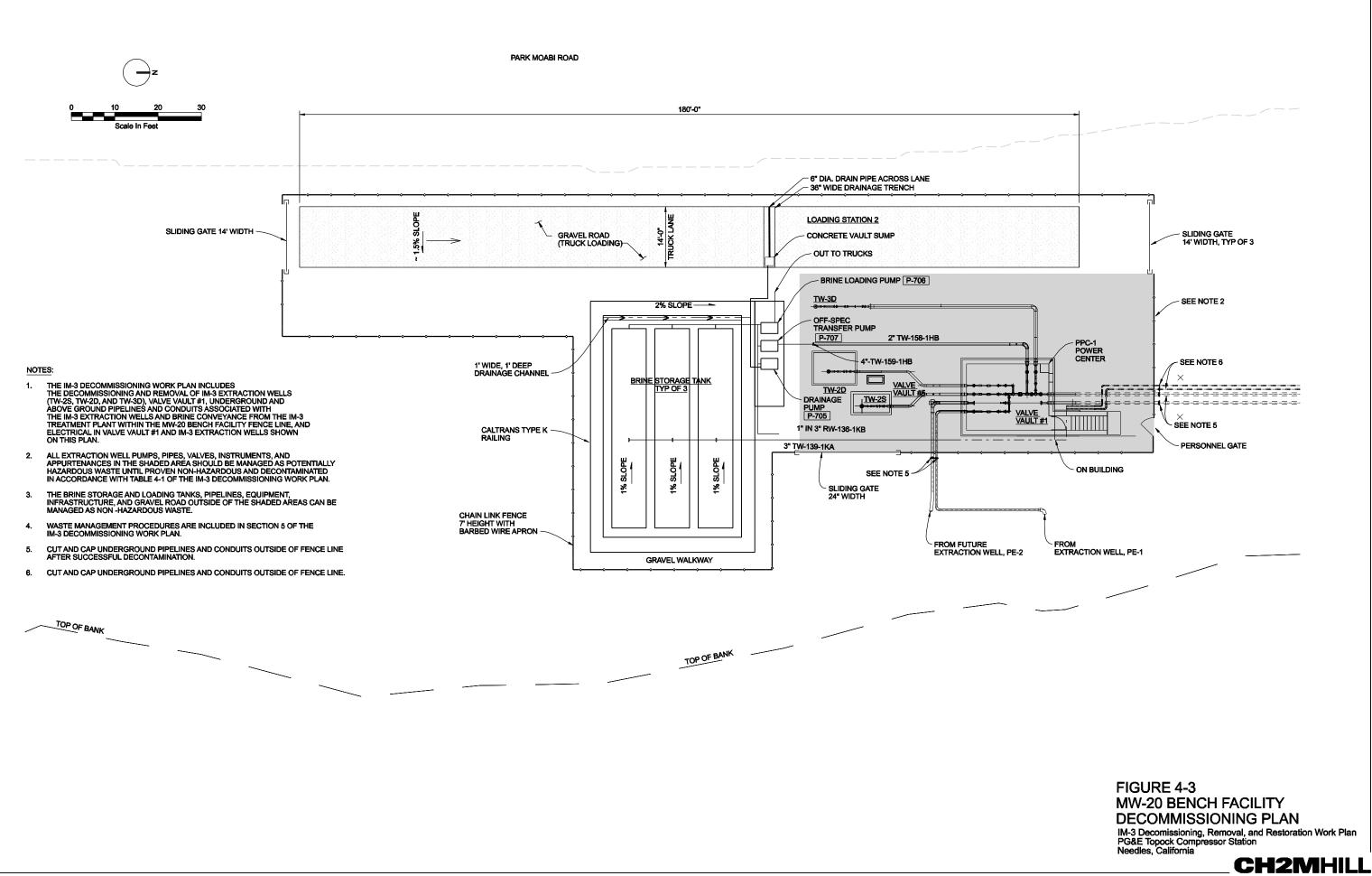
2. ALL TANK SYSTEMS, TREATMENT EQUIPMENT, TREATMENT PIPELINES, VALVES, FITTINGS, APPURTENANCES AND INFRASTRUCTURE MATERIALS SHOWN IN THE SHADED AREAS SHOULD BE MANAGED AS POTENTIALLY HAZARDOUS WASTE UNTIL PROVEN NON-HAZARDOUS. TABLE 4-1 OF THE IM-3 DECOMMISSIONING WORK PLAN INDICATES WHETHER OR NOT DECONTAMINATION IS REQUIRED.

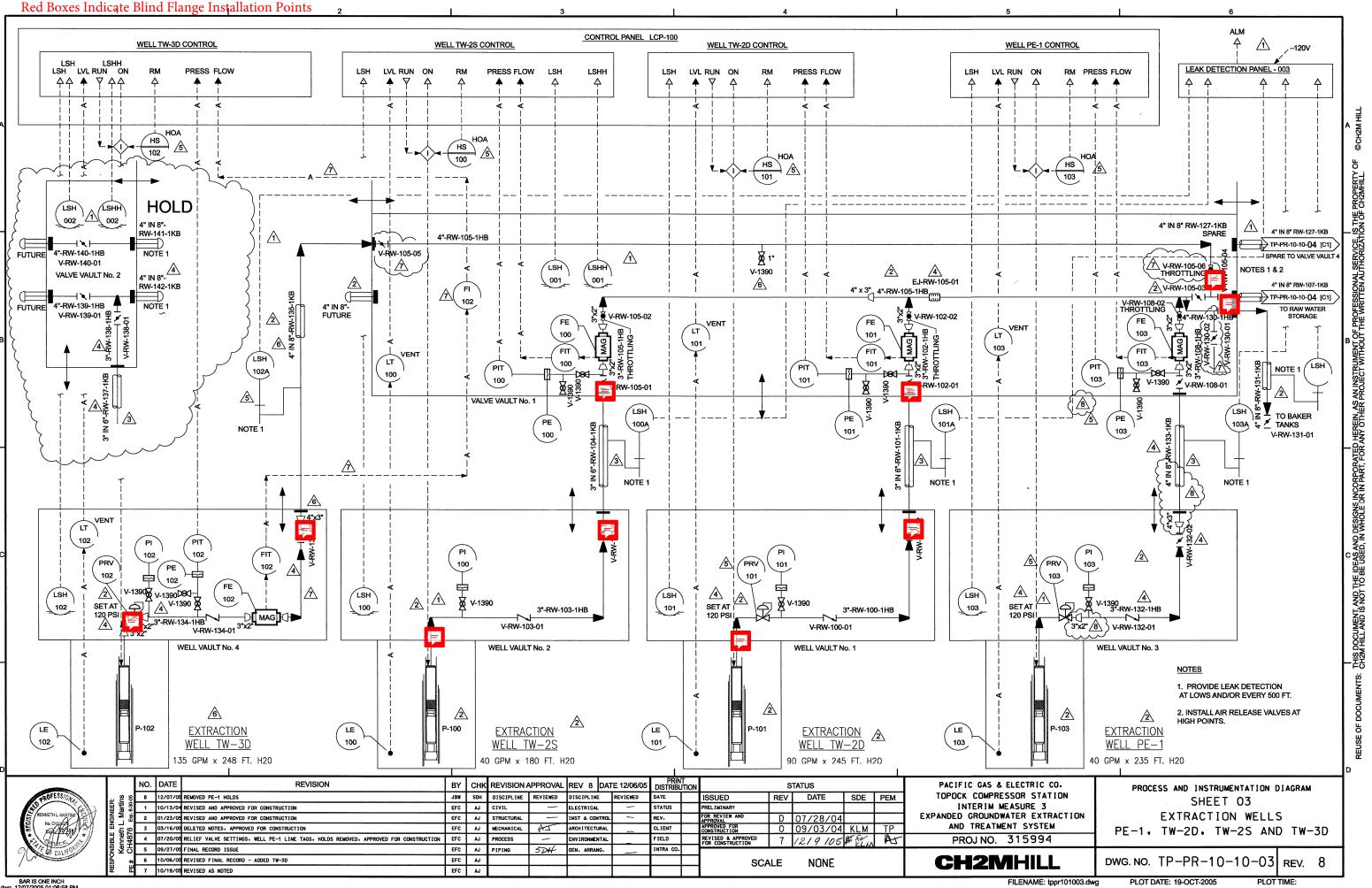
3. CONCRETE FOUNDATION AND CONCRETE SECONDARY CONTAINMENT AREAS SHALL BE SAMPLED AND CHARACTERIZED PRIOR TO RECOVERY OR DISPOSAL.

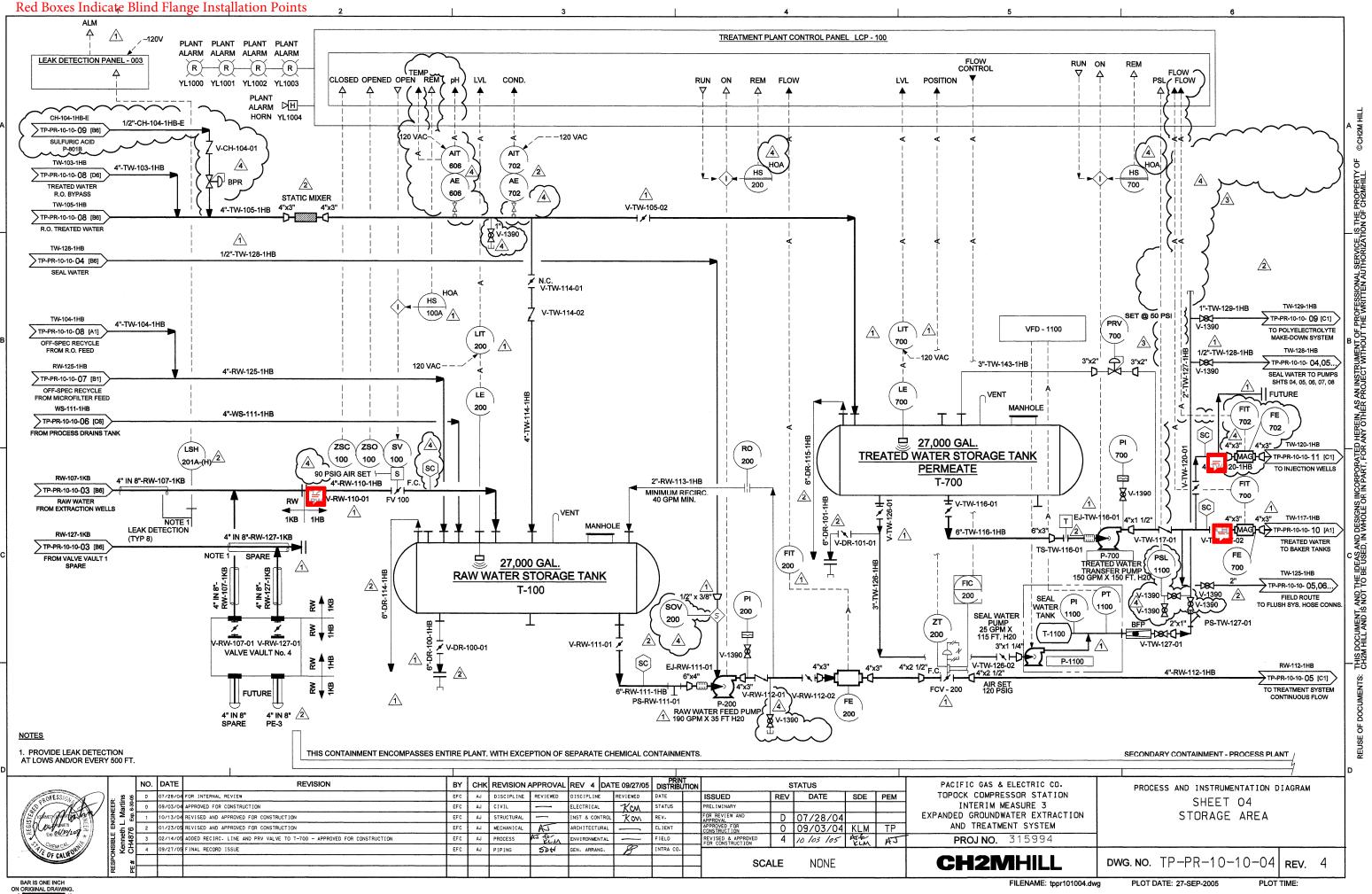
4. WASTE MANAGEMENT PROCEDURES ARE INCLUDED IN SECTION 5 OF THE IM-3 DECOMMISSIONING WORK PLAN.

FIGURE 4-2 **IM-3 TREATMENT PLANT DECOMMISSIONING PLAN** IM-3 Decomissioning, Removal, and Restoration Work Plan PG&E Topock Compressor Station Needles, California

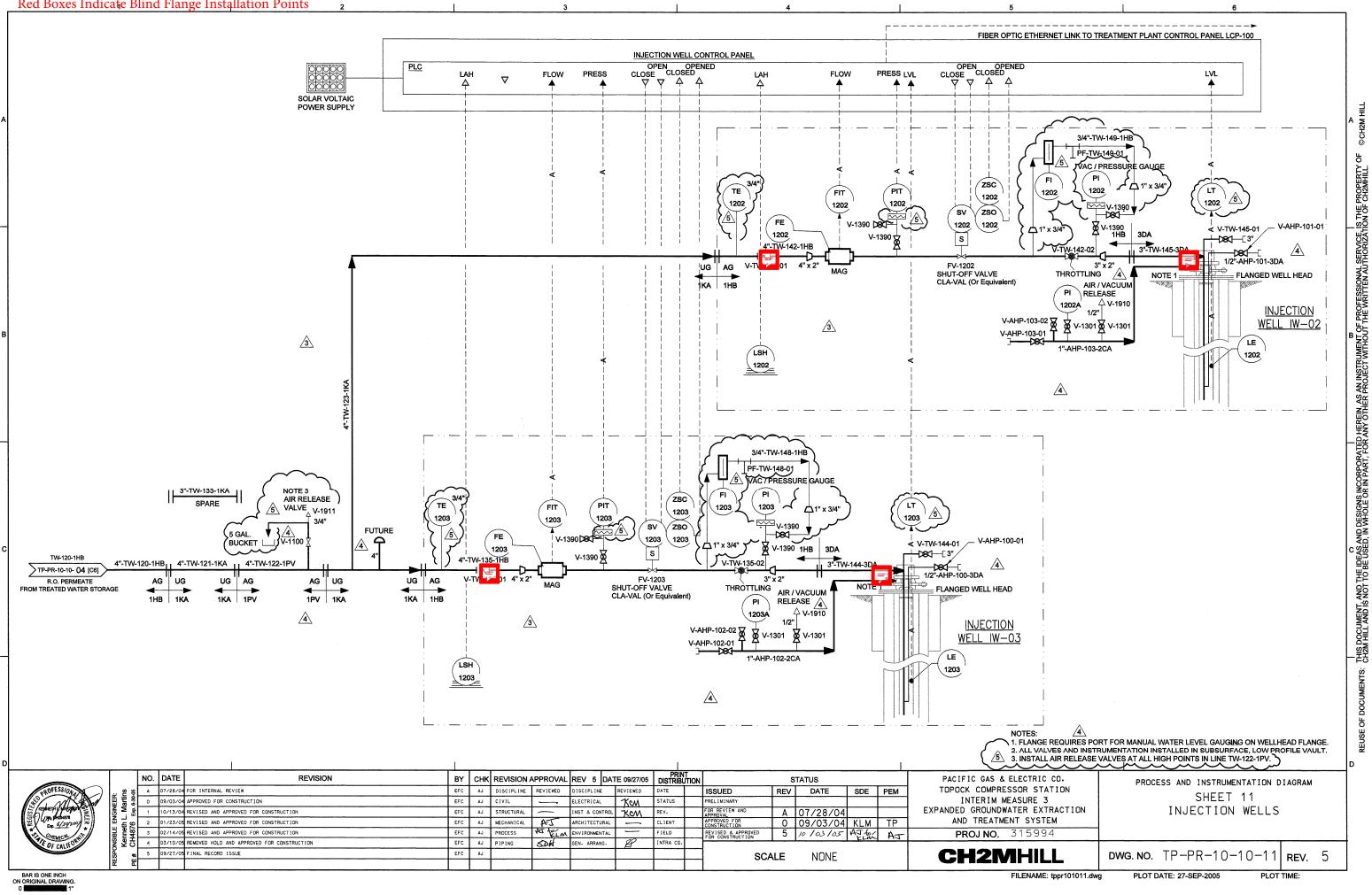


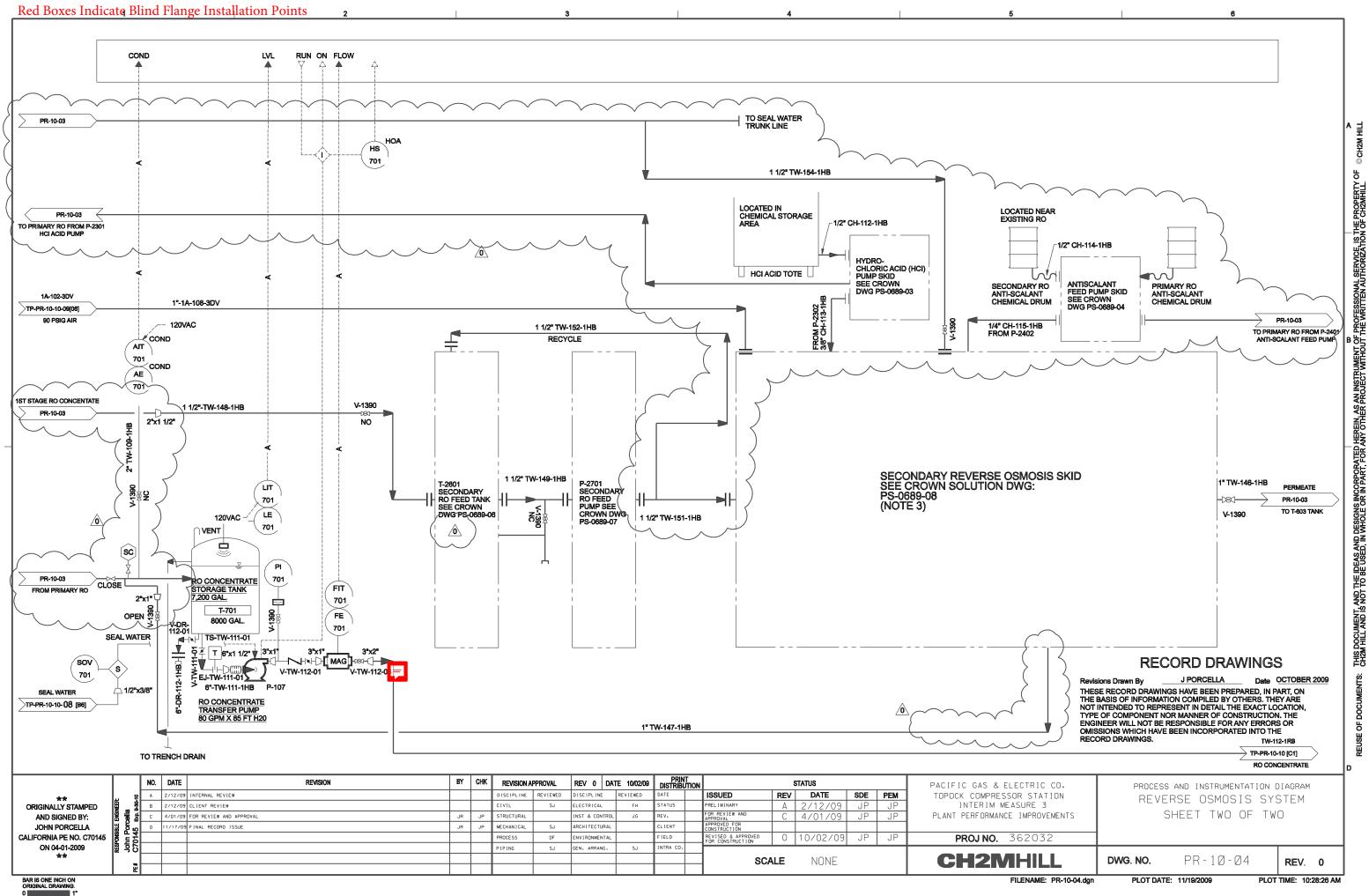












Appendix C Photo Documentation Log

Appendix C. Photo Documentation Log

This photo log documents the clean-up process including pictures from before, during, and after clean-up activities, as well as pictures of disconnection points. Photographs documenting conditions prior to the clean-up activities are taken from Appendix A of the *Interim Measure No. 3 Decommissioning, Removal, and Restoration Work Plan* (CH2M, 2014). Dismantling and cleaning photos were taken from 12/30/2021 through 3/21/2022.

Photograph 1: Extraction Well Vault interior prior to dismantling and cleaning (CH2M, 2014).





Photograph 2: TW-2S Well Vault after dismantling and cleaning.

Photograph 3: TW-2D Well Vault after dismantling and cleaning.





Photograph 4: TW-3D Well Vault after dismantling and cleaning.

Photograph 5: Valve Vault #1 interior prior to dismantling and cleaning [facing southwest] (CH2M, 2014).





Photograph 6: Valve Vault #1 after dismantling and cleaning [facing south].

Photograph 7: Valve Vault #1 after dismantling and cleaning [facing north].



Interim Measure No. 3 Preparation for Lay-up Completion Report



Photograph 8: Extraction Line isolation at IM-3 after dismantling and cleaning [facing west].



Photograph 9: Extraction Well MCC tagout.



Photograph 10: Injection line isolation at IM-3 after dismantling and cleaning [facing southeast].

Photograph 11: Off-spec water line isolation at IM-3 after dismantling and cleaning [facing east].





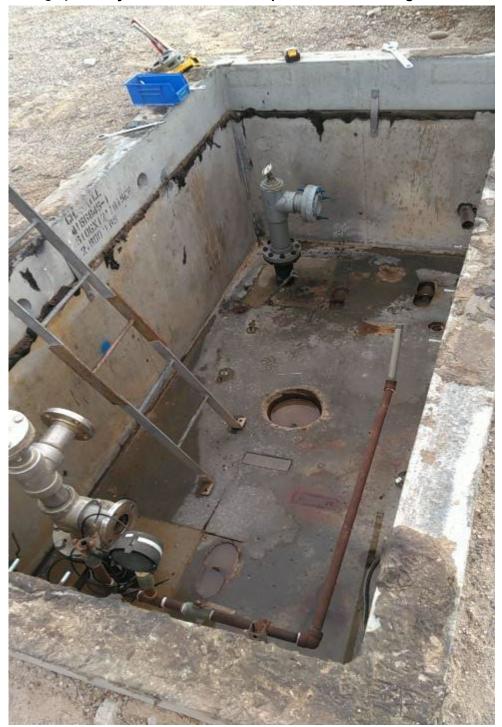
Photograph 12: Brine line isolation at IM-3 after dismantling and cleaning [facing southwest].



Photograph 13: Injection well control conduit removal example.

Photograph 14: Injection well vault example before dismantling and cleaning (CH2M, 2014).





Photograph 15: Injection well vault example after line blinding and vault cleaning.



Photograph 16: P-900 rerouting to T-402 [facing west].

Photograph 17: P-900 rerouting to T-402 [facing northeast].





Photograph 18: Emergency diesel generator pad after generator removal.

Photograph 19: Example of a 301 Tank being cleaned.





Photograph 20: Example of a 301 Tank being cleaned (interior view).



Photograph 21: Example of a 301 Tank being cleaned (view from above).

Photograph 22: Example of a 301 Tank after cleaning, side and floor view.

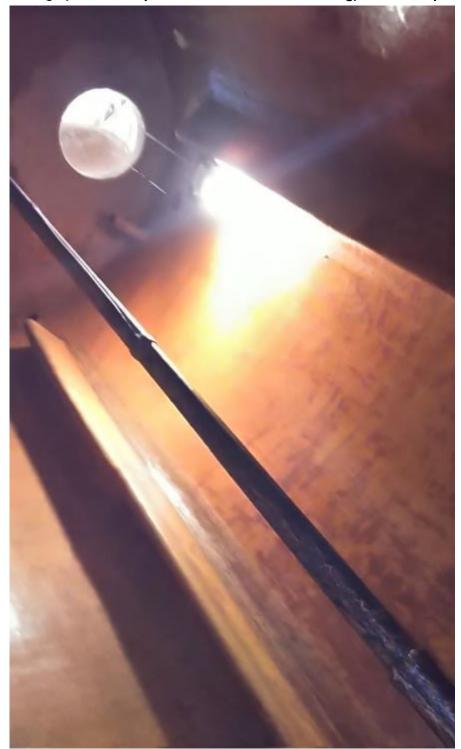




Photograph 23: Example of a 301 Tank after cleaning, upward view.



Photograph 24: Example of a 301 Tank after cleaning, interior detail view.



Photograph 25: Example of a 301 Tank after cleaning, alternate upward view.



Photograph 26: Chemical storage area prior to dismantling and cleaning (CH2M, 2014).

Photograph 27: Ferrous Chloride Storage Area after dismantling and cleaning.





Photograph 28: Caustic Storage Area 1 after dismantling and cleaning.

Photograph 29: Caustic Storage Area 1 after dismantling and cleaning.





Photograph 30: Hydrochloric Acid Storage Area after dismantling and cleaning.

Photograph 31: Microfilter CIP Chemical Storage Area after dismantling and cleaning.

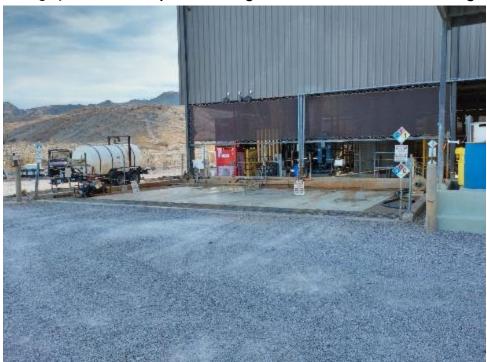


Photograph 32: RO Antiscalant Storage Area prior to dismantling and cleaning, frontal view (CH2M, 2014).



Photograph 33: RO Antiscalant Storage Area after dismantling and cleaning, side view.





Photograph 34: Phase Separator storage area after removal and cleaning.

Photograph 35: Injection Well control skid exterior prior to dismantling and removal (CH2M, 2014).



Photograph 36: Injection Well Control system area after removal.





Photograph 37: Injection Well Control system bollards after removal.

Appendix D Records, Manifests, Receipts

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	14. 8	14. Special Handling Instructions and Additional Information 1) 9b1) #070304177-0 Clarifier Sludge Return) Additional Information														
		BIN#5637-5631 Return Weight Ticket with TDSF Copy Back to Generator Wear Proper PPE and Eyewear														
									and the second second							
	1	GENERATOR'S/OFFEROF marked and labeled/placard Exporter, I certify that the or	ieu, ano are in all respec	is in proper condition for	transport acco	rding to applic	cable inter	national and nat	escribed above ional governm	by the proper sh ental regulations.	hipping name . If export shi	, and are clas oment and I a	sified, packa am the Prima	aged, ary		
		I certify that the waste minir	mization statement identit	ied in 40 CFR 262.27(a)) (if I am a large	quantity gen	erator) or	(b) (ifI am a sma	all quantity ger	nerator) is true.						
Ļ	Gene	Valesi H	irst			Sigi	nature	alui	Hive	+		Mon		Year		
INT'L	16. lr	ternational Shipments	Import to U.S.			Export from U	10.212 Markens	Port of en		अ			2111	122		
		sporter signature (for export ransporter Acknowledgment						Date leavi	•					· · ·		
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	108.1	Discrepancy Indication Spac	e Quantity	L	Туре		L	Residue		Partial Reje	ection		Full Reje	ction		
I ≻	18b. A	Alternate Facility (or General	tor)				Ma	nifest Reference	Number:							
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DFA		iy's Phone: Signature of Alternate Facility	u (an Cananatar)													
DESIGNATED FACILITY	100. 0	signature of Alternate Pacility	y (or Generator)									Mon	ith • Day	Year		
SIGN	19. Ha	azardous Waste Report Mar	nagement Method Codes	(i.e., codes for hazardou	us waste treatm	ient, disposal,	and recy	cling systems)					<u>, </u>	<u> </u>		
	1.		2.			3.				4.			٤			
	20. De	esignated Facility Owner or	Operator: Certification of	receipt of hazardous ma	aterials covered	by the manife	est except	as noted in Item	n 18a							
	Printe	d/Typed Name					ature				•••••••••••••••••••••••••••••••••••••••	Mon	th Day	Year		
PA	Form	8700-22 (Rev. 12-17) F	Previous editions are of	bsolete.				DES	IGNATED	FACILITY	TO EDA	S O. MAN	IFECT O	VOTER		
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Ticket: 22615

US Ecology Nevada 11 Miles South of Beatty Beatty, NV 89003

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14001

Manifest #:019381296JJK Date: 1/25/2022 Time In: 01:07 PM Time Out: 01:55 PM In: 43460 lb Out: 32020 lb Net: 11440 lb

Net Tons: 5.72 tons Net Kg: 5189 kilograms

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24

Ticket: 22856

US Ecology Nevada 11 Miles South of Beatty Beatty, NV 89003

Vehicle:	14001
venire.	14001

Manifest #:019381297JJK 2/1/2022 Date:

Time	In:	02:55	PM
Time	Out:	04:17	PM

In:	70340	lb
Out:	46760	lb
Net:	23580	lb

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Net Tons:11.79 tons Net¹Kg: 10696 kilograms

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	Ticket: 23329	and the second	Y	
	US Ecology Nevada 11 Miles South of B Beatty, NV 89003	eatty		
	Vehicle: 14001	a construction of the second se		
	Manifest #:019381399JJK			
	Date: 2/18/2022 Time In: 07:22 AM Time Out: 09:15 AM	1.1 S		
	In: 80640 lb Out: 47120 lb Net: 33520 lb			
	Net Tons:16.76 tons Net Kg: 15204 kilograms			
			14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	2 2



Ticket: 23957

US Ecology Nevada 11 Miles South of Beatty Beatty, NV 89003

Vehicle: 14001

Manifest #:021783881JJK

Date:	3/22/2022
Time In:	07:29 AM
Time Out:	09:22 AM

In:	73460	lb
Out:	46520	lb
Net:	26940	lb

Net Tons:13.47 tons Net Kg: 12220 kilograms US Ecology Nevada, Inc. P.O Box 578 Beatty, Nevada 89003 Phone: (800) 239-3943 (775) 553 2203 Fax: (775) 553 2125

US Ecology Nevada, Inc.

a US Ecology Inc. company

April 22, 2021

MP ENVIRONMENTAL		
3045 S. 51ST AVE.		
PHOENIX, AZ 85043		
RE: Generator	:	PG & E GROUNDWATER EXTRACT SITE
Site Address	:	HWY I-40 & PARK MOABI ROAD, NEEDLES, CA 92363
US Ecology WS #	:	070304177-0
Waste Stream Nam	e :	CLARIFIER SLUDGE W/CHROMIUM, TRACE HEAVY METALS
Expiration Date	:	04/22/2022
Process	:	DIRECT LANDFILL

Dear Susan Song,

US Ecology recently received approval from the Nevada EPA for the disposal of the subject waste stream at our fully permitted RCRA, TSCA and CERCLA approved landfill facility at Beatty, Nevada. US Ecology appreciates the opportunity to manage this waste stream for you and looks forward to working with you for all your disposal needs.

The Uniform Hazardous Waste Manifest and Truck Inventory Sheet must accompany each shipment. If the shipment is lab waste, drum inventories must accompany the manifest. Also, the drum number is to be placed on top of the corresponding drum.

Please notify the Beatty disposal facility at least 48 hours prior to shipment and provide the facility with the following information:

- Date of Arrival
- U.S EPA Generator ID Number
- Waste Stream Number(s) and Total Quantity of each waste stream shipped
- Indicate if the waste is for Stabilization, Debris Treatment, or Direct Landfill
- Indicate if the waste is being shipped in bulk or in containers

The following is required when the load is received at US Ecology.

- A manifest
- A Truck inventory
- A Land Disposal Restriction Form (LDR), if applicable
- The driver is required to have all necessary p.p.e., including an appropriate respirator, in order to offload the waste.

Under conditions of our operating permit, US Ecology is required to inform you that we have all the appropriate permits in order to manage your waste stream.

Should you have any questions, Please contact your US Ecology Technical Sales Representative or Beatty customer service at (800) 239-3943. Please refer to the US Ecology Waste Stream Number above when making inquiries.

It is important that each shipment be scheduled at least 48 hours in advance. Unscheduled loads will be offloaded as time permits but may be subject to delay or rejection.

Sincerely,

Plea	ase pi	int or type.				" I ' •	Form	Approved.	OMB No	. 2050-0039		
Î	<u>v</u>	FORM HAZARDOUS 1. Generator ID Number /ASTE MANIFEST C A R D D 1 5 1 1 8	1	3. Emergericy Respon 877-577-2689		4. Manifest 1	938	8 <u>112</u>	<u> </u>	JK		
	5. Generator's Name and Mailing Address Att. Susan Song Generator's Site Address (If different than mailing address) PG&E - MANIFESTS TOPOCK GROUND WATER EXTRA SITE P.O. BOX 7540 HWY I-40 & PARK MOABI RD SAN FRANCISCO CA 94120 NEEDLES CA 92363 Generator's Phone: 9 2 5 4 1 5 - 6 3 3 1											
	6. Tr	ansporter 1 Company Name IP Environmental Services		· · · · · · · ·	U.S. EPAID N) 6 2 -	42 <	1 7			
	7. Tr	ansporter 2 Company Name		U.S. EPAID Number					·			
	H B	asignated Facility Name and Site Address S ECOLOGY - BEATTY WY 95, 11 MILES SOUTH OF BEATTY EATTY NV 89003		U.S. EPATD Number								
	Faci	ity's Phone: 775 553 . 2203	1 ·	· · · · · ·) 0 1	00						
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID N and Packing Group (if any))	10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Co	des			
		NON-RCRA HAZARDOUS WASTE, SOUD (CLAR SLUDGE WITH CHROMIUM, TRACE HEAVY MET,			СМ		Y	491				
GENERATOR		2.	<u></u>									
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		3.										
		4.	• .									
	14.	Special Handling Instructions and Additional Information 1) 961) #070; Return Weigh Wear Proper I		DSF Copy Back	to Genera	itor		•				
		IN#	-									
	15.	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the content marked and labeled/placarded, and are in all respects in proper condition for trans Exporter, I certify that the contents of this consignment conform to the terms of the	port according to app attached EPA Acknow	licable international and I wledgment of Consent.	national governm	ental regulations	hipping nam . If export si	e, and are cla hipment and l	am the P	ickaged, i rimary		
	Gen	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I a erator's/Offeror's Printed/Typed Name	, , , , , , , , , , , , , , , , , , ,	nerator) or (b) (if I am a s gnature	small quantity ger	nerator) is true.		Mo	nth D	ay Year		
NT'I	16.	International Shipments	Export from	U.S. Port of	f entry/exit:				I			
-		nsporter signature (for exports only): Transporter Acknowledgment of Receipt of Materials		Date le	eaving U.S.;							
ORTFI	Trar	Isporter 1 Printed/Typed Name	Si I	gnature				Mc	nth C	ay Year		
TRANSPORTER	Trai	nsporter 2 Printed/Typed Name	I Si	gnature				Ma	nth (Day Year		
⊨ ↑		Discrepancy	<u> </u>							I.		
	18a	Discrepancy Indication Space Quantity	уре	Residue		Partial Re	ection		Full	Rejection		
I ≧	18b	Alternate Facility (or Generator)		Manifest Refere	ence Number:	U.S. EPA ID	Number					
EACI	Fac	ility's Phone:			,	1						
DESIGNATED FACILITY	180	Signature of Alternate Facility (or Generator)						N	lonth	Day Year		
	19.	Hazardous Waste Report Management Method Codes (i.e., codes for hazardous w	vaste treatment, dispo	sai, and recycling system	ns)							
	<u>ة ا</u> ٦.	2.				4						
		Designated Facility Owner or Operator: Certification of receipt of hazardous materi ted/Typed Name	-	nifest except as noted in Signature	item 18a				lonth	Day Year		
		· · · · · · · · · · · · · · · · · · ·	1									
EF	PA Fo	rm 8700-22 (Rev. 12-17) Previous editions are obsolete.		ם	ESIGNATE	D FACILITY		A's e-MA	NIFES	T SYSTEM		

AND PARK MOABI RD Needles,CA 92363 SC PPW 8/1/2021 WORK ORDER NOED 2107338118 DOCUMENT NO. 1544035 STRAIGHT BILL OF LADING 83082 TRANSPORTER 1 _____ Clean Harbors Environmental Services, Inc._____ VEHICLE ID # EPA ID # VEHICLE ID #

TRANS. 2 PHONE _____

TOPOCK GW EXTRACTION SITE HWY I-40

EPA ID #

Site Address :

TRANSPORTER 2

DESIGNATED Clean H	DESIGNATED FACILITY Clean Harbors Buttonwillow LLC				SHIPPER ATTN:Susan Song Pachic Gas & Electric Co - TOPOCK GW EXTRACT SITE				
FACILITY EPA	ID # 806752	7.6			SHIPPER EPA ID # CAROOO151118				
ADDRESS 2500 West Lokern Road				ADDRESS Pacific Gas & Electric	Co-Man				
CITY Button	Nillow		STATE	ZIP 93206	CITY San Francisco			^{ZI} B4120	
CONTAINERS NO. & SIZE					TOTAL QUANTITY	UNIT WT/VOL			
2X BAGS	BA		A. NON HA	A. NON HAZARDOUS, NON D.O.T. REGULATED MATERIAL, (DEBRIS,			280	P	
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SPECIAL HAN A.CH1146839	DLING INS	TRUCT	IONS EM	ERGENCY PHONE (: Pachic Gas & EXTRACT SITE	Electric Co-	

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	DAVID DIAZ	SIGN Ward Qiz	DATE 03-03-2022
	PRINT	SIGN	DATE 03:03.22
TRANSPORTER 1	TELESD LEUNG WU	T USW	0.3.03.22
	PRINT	SIGN	DATE
TRANSPORTER 2			
•	PRINT	SIGN	DATE
RECEIVED BY			

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material. CHI 107

ase print or type.erator ack											
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number			3. Emergency R			4. Manifest		1119	a	FIF
5. Generator's Name and Maili	G A R 0 0 0 1 5	da da da C	- 1 4000	(800) 4 Generator's Site						10	
Pacific Gas & El	ectric Co - TOPOCK ectric Co-Manifest F A 94120 415-6331 ATT		TE,		GW E	KTRACT	IÓN SITE I U.S. EPAIDI	HWY H4	IO AND	PAR	
	invironmental Servi	ces, inc.					1		322	0 R A	
7. Transporter 2 Company Nar							U.S. EPA ID N		' C' thi thi	<u>200</u>	
8. Designated Facility Name a	nd Site Address						U.S. EPA ID N	Number			
Clean Harbors 8 2500 West Loke Buttonwillow, CA Facility's Phone:	im Road		т.				CAD	980	675	276	
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14, Special Handling Instruction			Ruck Boorders on ope				Contract	reteined	by gener	ator con	fors egger
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Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material. Please print or type. Form Approved. OMB No. 2050-0039

1		ORM HAZARDOUS STE MANIFEST	1. Generator ID Nu GAROO	imber 0151118	2. Page 1 of		gency Response		4. Manifest T	racking Nu	1212	F	
	5. Gen	erator's Name and Mailing	g Address	POCK GW EXTRACT S	:me	Generato	r's Site Address	(if different tha	an mailing addres		ada kan uka kan		
	(2)		ctric Co-Mai	nifest PO BOX 7640 ATTN:Susen Song	• 1 ¥ Im		óck gw e dies,CA 9:		TON SITE I	WY 1-4	io and pai	R	œ
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	НМ	and Packing Group (if a	ny))	1			No.	Туре	Quantity	Wt./Vol.	13. Wast	e Codes	
GENERATOR -		GLYCOL, POL	AZARDOUS VETHYLENE	WASTE, LIQUIDS, (P(EGLYCOL TERT-OCTYL)lvethvlene .Phenyl ethe	ER)	01	DM	400	P	881		
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	autho	xity on Initial trans	porter to add r	or substitute additional tra	nsporters on ger	uerator	s bahalf for c	umoses c	Contract n	eleined l	by generator	conlen	
	15. G m	ENERATOR'S/OFFEROR arked and labeled/placard	R'S CERTIFICATIO ded, and are in all r	ON: I hereby declare that the conter espects in proper condition for trans	nts of this consignment sport according to appli	are fully an cable inter	nd accurately des national and natio	scribed above	by the proper shi ental regulations.	pping name If export sh	e, and are classified	d, packag e Primar	ied, v
	E	xporter, I certify that the c	ontents of this cons	ignment conform to the terms of the identified in 40 CFR 262.27(a) (if I a	e attached EPA Acknow	ledament	of Consent.		-				, I
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DESIGNATED FACILITY		ardous Waste Report Ma	nagement Method	Codes (i.e., codes for hazardous wa	aste treatment, disposa	l, and recy	cling systems)						
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	_	-	Operator: Certificat	tion of receipt of hazardous materia	Is covered by the manif	fest except	as noted in Item	18a	I				
	Printed/	Typed Name			Sig	nature					Month	Day	Year
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Facility Rep.

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(prease print)

LIQUID ENVIRONMENTAL SOLUTIONS

P 5496

NON-HAZARDOUS WASTE MANIFEST

	TIONS							And the second second	
								Profile Number	
								15712	
Generator Name	E: Phone	opock Groundwa straction Site : (760) 326-3326 cy: (800) 833-76	5	Generator Address		Hwy I4(Nee) & Park dles, CA	15713 of Needles Moabi Rd. 92363	
Waste		- <u></u>	502		EPA ID#: CAR000151118				
Туре		Non Hazar	rdous Waste,	Liquid (Brine	Water)				
I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.									
Generator Rep. Name (please print)	PGEE (IM-3)			Generator Rep. Signature	MAL.				
Transporter Name	r MP Environmental Services			Transporter Address	· 3045 S. 51st Ave. Phoenix, AZ 85043				
Truck #		V	ehicle Int	formation					
Waste	82	Tank#	3346			Inspection P	aperwor	k Verified By:	
Removed (Gallons)	5500	Totalizer Readings	<u>Start</u>	Fin	ish	Date		Time	
		(Gallons)				2-1-0	2022	07:15	
the servicing	the information above vehicle. I am aware th	is accurate, and at falsification o	l that only the of this manife	e waste certified est may result in	for ren	noval by the oution	Generato	r is contained in	
Driver mus	t comply with proper P	PE requiremen	ts. Including	r glovos sofoto	F= 0.0000				
Driver Name		1		Driver	vest, ha	rd hat, steel t	oes shoe	s & safety glasses	
please print)	Manuel	Aven	9	Signature					
Disposal Facility	Liquid Environment	al Solutions of	Arizona	Address		5159 West Phoeni	Van Bur x, AZ 85		
Vaste Received				Date		Т	ime		
Gallons)									

 WHITE - Transporter
 YELLOW - Second Generator
 GOLDENROD - Disposal Facility
 PINK - Generator

 Liquid Environmental Solutions of Arizona

 5159 West Van Buren Street
 Phoenix, AZ 85043
 (602) 278-3442
 www.liquidenviro.com

Facility Rep.

Signature



LIQUID ENVIRONMENTAL SOLUTIONS

P 5497

NON-HAZARDOUS WASTE MANIFEST

SOLU	TIONS							
								Profile Number
								15713
Generator Name	Ex Phone:	ppock Grour traction Site (760) 326-3 cy: (800) 83	9 3326	Generator Address		Hwy	fi Southwest of 140 & Park M Needles, CA 9 1D#: CAR00	of Needles Moabi Rd. 92363
Waste Type			azardous Waste					
I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.								
Generator Rep. Name (please print)				Generator Rep. Signature	-	7/4-		
Transporter Name	MP Enviro	nmental Se	prvices	Transporter Address	r	3045 S. 51st Ave. Phoenix, AZ 85043		
Truck #			A THE REAL PROPERTY OF THE REA	nformation				
	182	Tan	3340	-		Inspection Paperwork Verified By:		
Waste Removed	5500	Totalizer Readings	Start	F	inish	Date		Time
(Gallons)		(Gallons)	MA			2.7	'Lodd	09.30
	the information above i vehicle. I am aware that		and the second second	icst may result.	III prosec	moval by a	the Generato	r is contained in
Driver mus	t comply with proper P	PE require	ments. Includir	ıg; gloves, safet	v vest, h	ard hat, st	eel toes shoes	& safety also
Driver Name (please print)	st comply with proper PPE requirements. Includi Manuel Avence			Driver Signature	In the first sectros shoes & safety glasses			
Disposal Facility	Liquid Environment	al Solution	s of Arizona	Address		5159 West Van Buren Street Phoenix, AZ 85043		
Waste				Date			Time	
Received Gallons)							Time	

Facility Rep. ne (please print)		Facility Rep. Signature
WHITE - Transporter	YELLOW - Second Generator	GOLDENROD - Disposal Facility PINK Communic

 Figure Fieldow - Second Generator
 GOLDENROD - Disposal Facility
 PINK - Generator

 Liquid Environmental Solutions of Arizona
 5159 West Van Buren Street
 Phoenix, AZ 85043
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 www.liquidenviro.com



LIQUID ENVIRONMENTAL SOLUTIONS

P 5498

NON-HAZARDOUS WASTE MANIFEST

SOLUTI	ONS			Profile Number					
				15713					
Generator Name	PG&E Topock Groundwater Extraction Site Phone: (760) 326-3326 Emergency: (800) 833-7602	est of Needles ark Moabi Rd. CA 92363 R000151118							
Waste Type	Waste								
material ("Exc solvent or oil a Compensation rule, whether e any costs incur expressly agree	he waste material removed from the above premises does luded Waste"). The term "hazardous material" is defin s defined in or pusuant to the Resource Conservation and and Liability Act, the Federal Clean Water Act, or any of existing as of the date of this agreement or subsequently even red by the Transporter or Disposal Facility in handling of es to defend, indemnify and hold harmless the Transport or arising out of any such hazardous waste.	ed as any one or d Recovery Act, other federal, sta enacted. I also ac or proper dispos	more pollutant, toxic substa the Comprehensive Environ te or local environmental lay cknowledge that the Generat al of any hazardous waste an	nce, hazardous substance, mental Response v, regulation, ordinance, or or shall be responsible for d that the Generator					
Generator Rep. Name (please print)	Generator Rep.								
Transporter Name	erMP Environmental ServicesTransporter Address3045 S. 51st Ave. Phoenix, AZ 85043								

Vehicle Information								
Truck #					Inspection Paperwork Verified By:			
Waste Removed (Gallons)	4.600	Totalizer Readings (Gallons)	<u>Start</u>	<u>Finish</u>	Date 3 - 9-2	Time 2 \2.24		
I certify that	the information above	is accurate, a	nd that only the w	aste certified for r	emovel by the Cone	rator is contained in		

the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver mus	Driver must comply with proper PPE requirements. Including; gloves, safety vest, hard hat, steel toes shoes & safety glasses								
Driver Name (please print)	HECTORLINARES	Driver Signature	L.	A Q					

Disposal Facility	Liquid Environmental Solutions of Arizona	Address	5159 West Van Buren Street Phoenix, AZ 85043
Waste Received (Gallons)		Date	Time
Facility Rep. Name (please print)		Facility Rep. Signature	

 WHITE - Transporter
 YELLOW - Second Generator
 GOLDENROD - Disposal Facility
 PINK - Generator

 Liquid Environmental Solutions of Arizona

 5159 West Van Buren Street
 Phoenix, AZ 85043
 (602) 278-3442
 www.liquidenviro.com



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

<u>E009727</u>

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: AUGUST 2022

OWNER OR OPERATOR (Co.#15)

Pacific Gas & Electric/Air Permits 3401 Crow Canyon Road San Ramon, CA 94583

EQUIPMENT LOCATION (Fac. #2998)

PG&E - IM3 Remediation Site I-40 and Park Moabi Rd/5 miles E of Needles, CA 92363

Descriptions:

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: Year of Mfg. 2000, USEPA engine family YKLXL15.2EC1, CARB E.O. #U-R-005-0040, with no exhaust after-treatment device installed:

One Komatsu, Diesel fired internal combustion engine Model No. SA6D140 and Serial No. 28865, After Cooled, Compression-Ignited, Direct Injected, Turbo Charged, producing 478 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 34 gal/hr with a heat input rating of 0 MMBTUH. This equipment powers a 300 KW Komatsu Generator Model No. DF-4400K and Serial No. 612558, rated at 300KW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.23	gm/bhp-hr
NOx	5.7	gm/bhp-hr
PM10	0.1	gm/bhp-hr
SOx	0.007	gm/bhp-hr
VOC	0.2	gm/bhp-hr

CONDITIONS

1. This certified stationary compression-ignited internal combustion engine shall be installed, operated and maintained in strict

Eas Schodula: 7 (a)	Poting: 1 dovice	NAICS: 221210	SCC: 20100102	Location/Coordinates:
Fee Schedule: 7 (g)	Rating: 1 device	NAICS. 221210	300.20100102	+34.72134, -114.49560

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Pacific Gas & Electric/Air Permits PO Box 7640 San Francisco, CA 94120

Brad Poiriez

Air Pollution Control Officer

accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR 60.4211(a), District Rule 1302]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.

[17 CCR 93115.10(d)]

3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:

a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,

b. A cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or, (ii) A maximum aromatic content of 35 volume percent.

Note: Using CARB certified ULSD satisfies the requirements of Condition 3.b [17 CCR 93115.5(a) and 40 CFR 60.4207(b)]

4. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:

a. Date of each use and duration of each use (in hours);

b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);

c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and/or total hours;

d. Fuel sulfur concentration and cetane index, as required by condition #3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log); and,

e. Maintenance performed on this equipment.

[17 CCR 93115.10(f)]

5. This equipment may operate in response to an impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time. The engine may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(a)(2)]

6. This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [17 CCR 93115.6(c)(1)(C)]

7. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and this ATCM or NSPS, the more stringent requirement shall govern.

[District Rule 1302]

8. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance.

[17 CCR 93115.6(a)(3)(1)(c)]

9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request. [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A] MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD

Request to cancel a permit

(ATC or PTO)



PERMIT ISSUED TO:	CONTA	CT NAME:	PHONE:		
EQUIPMENT PHYSICAL ADDRESS:	CITY:		STATE:	ZIP:	
OWNER OR OPERATOR (DISTRICT COMPANY NUMBER):		EQUIPMENT LOCATIO	N (DISTRICT	FACILITY NUMBER):	
		1			
PERMIT NUMBER(S) TO CANCEL: CORRESPONE	DING EQU	JIPMENT DESCRIPTION:			
1					
2					
3					
4			_		
5					
If applying to cancel more than 5 permits, use additional forms or	r attach a	list of additional permit nu	mbers and co	prresponding equipment descriptions.	
Concellation of the normalit described o	I		had fan t		

Cancellation of the permit described above is hereby requested for the following reason:											
Equipment has been:	sold	replaced	destroyed	removed from premises.							
Equipment will no longer be used.											
Equipment is exempt from permit requirement by Rule 219 Section											
Replaced by statewide permit. (Please attach copies of statewide permits.)											
Other:											

IT IS UNDERSTOOD THAT ANY FUTURE USE OF THIS EQUIPMENT MAY REQUIRE A NEW PERMIT APPLICATION AND THAT OPERATION OF THIS EQUIPMENT WITHOUT A VALID PERMIT MAY CONSTITUTE LEGAL ACTION AND PENALITIES OF UP TO \$25,000 FOR EACH DAY OF VIOLATION.

SIGNATURE OF RESPONSIBLE MEMBER OF ORGANIZATION	TITLE		DATE					
PRINTED NAME PHONE NO.	EMAIL ADDRESS							
-For District use or	ıly-							
	•							
SIGNATURE OF ENGINEERING SUPERVISOR		DATE SIGNED						

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STRAIGHT	BILL OF LA	DING – Sł	HORT FO	RM	Date	5/2	26/22	Bill of	Lading N	lo			
coporise telepit	one number under	"Emergency R	iter 24-nour e esponse Phon	mergency e Number.				Shippe	Shipper No				
Original—No	t Negotiable		1	600	Q								
TO:				livame	of Califier)								
Consignee V	nonave	McJle.	dum	2	FROM		+E						
Street E	1 Rindon	PL		7			3 Ple	mt					
Destination	Nohave 1 Rodeo Bullbead	AZ	Zin Code	1111/80				Zip	Code C	1236	3		
Route:	of the factor	1.0	Vehicle N		or ca or ign	SCAC		En	nergency F one Numb	Respunse			
No. Shipping +HM Kind of Packaging, Description of Articles Commodities requiring strawing must be so marked						s to ensure safe tr	ansportation with	Weight (Subject to	e or Class	CHARGES			
	Im 3		ordinar	y care. See Section 2	(e) of National M	otor Freight Classi	fication, Item 360	5,140	2				
	Jmo	o cinc	rete					011-11					
				0									
carrier by water,	moves between two po the law requires that t	he bill of lading C	EMIT 2.0.D. TO:		C.O.D.	C.O.D. FEE: PREPAID			TOTAL				
state whether we	ight is "carrier's or shi	pper's weight".	DDRESS		Amt. \$			\$	CHARGE				
state specifically	in writing the agreed of	or declared value	of the property.	recourse on the	consignor, the	consignor shall	sign the followi			Charl	EIGHT CHARGES		
The agreed or de by the shipper to	clared value of the pro be not exceeding	perty is hereby sp	ecifically stated	The carrier shall charges.	not make del	livery of this sh	ipment without	payment of freig	nt and all o	ther	reight prepaid		
	per					(Signati	ire of Consignor)						
RECEIVED, s	subject to the classifica	tions and lawfully	filed tariffs in effe	ect on the date of	the issue of th	his Bill of Lading	, the property of	described above in	apparent go	od order, exc	ept as noted (contents		
or corporation in p destination. It is n erty, that every ser the date bereof if	ossession of the prope nutually agreed as to e vvice to be performed this is a rail or a rail	ach carrier of all hereunder shall be water shipment of	tract) agrees to or any of, said p subject to all the (2) in the appli	carry to its usual roperty over all or le terms and cond cable motor carried	place of deliver any portion of itions of the U	y at said destin said route to niform Domestic or tariff if this	e word carrier nation, if on its destination and Straight Bill of	being understood l route, otherwise to as to each party a f Lading set forth	throughout to deliver to at any time 1) in Unifor	his contract a another carrie interested in m Freight Cla	ept as noted (contents is meaning any person in on the route to said all or any of said prop- sofications in effect on t he is familiar with all areby agreed to by the		
the terms and con shipper and accepte	ditions of the said bill ed for himself and his as	of lading, set fort signs.	h in the classific	ation or tariff whic	h governs the	transportation	of this shipment	t, and the said ter	ms and cor	ditions are h	ereby agreed to by the		
Transportation Regula an optional method fo Code of Federal Regul	propriate to designate Hi titions governing the transp in identifying hazardous ma lations. Also when shipping 172-204(a) of the Federa	portation of hazardo aterials on Bills of La g hazardous materia	us materials. The u iding per 172.201(s, the shipper's cer	se of this column is a)(1) (iii) of Title 49 tification statement	The format and content of hazardous item list is the responsibility of individual com- pany interpretation of requirements as described in 49 Code of Federal Regulations 172, Subpart C-Shipping Papers. Such description consists of the following per Sec- tions 172 200 (Hazardous Materia) and Sections 173 000 and 172 200					lity limitation for loss e in this shipment applicable. See 49 tes Code, Sections			
uniess a specific exce		t is provided in the F	egulation for a part	icular material.	and subsidiary	Class(es).				14706(c (1)(A) and (B).		
SHIPPER	and the	Dan	2 2.4.)	CARRIER		nd we		thers				
This is t marked,	to certify that the abov and labeled, and are in	e named material	are properly cla for transportatio	assified, packaged, n according to the	Carrier ackn tion was ma	owledges receipt	/ or carrier has t	d any required place	t of leansnor	certifies emer	gency response informa- ncy response guidebook		
applicab	le regulations of the U.S	6. Department of T	ransportation.	-	or equivalent	t documentation	in the vehicle. P	Property described a	bove is rece	ived in good or	ncy response guidebook der, except as noted.		

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STRAI(GHT B	ILL OF LADING - f hazardous materials mu	- SHORT FO	RM	Date5	5-24	- 22			-			
response 1	telephone	e number under "Emerger	icy Response Phon	e Number.				Shipper No.					
Original	—Not I	Negotiable		61	of Carrier)			Car	rier N	10			
TO: Consignee		Mala	11 4	the second se	FROM:	26	18						
Street	<u> </u>	Nohave Va Rodeo Rd Buthead A	alley C	ump	Shipper	10	+E 3- 76	int					
Destinatio		Bullbuck A	7 Zin Code	1111/86		LYVIS		Z	Zip Co		236	3	
Route:		and the A	Vehicle N	10. #12		SCAC				gency Resp Number	ionse		
No Shipping Units	+HM	Kind of Packaging, Descrip Special Marks and E	etroan	on must be an marker	pecial or additional car I and packaged as to a I(e) of National Motor F	nsure safe trans	portation with	Weigh (Subject Correctio	to	Rate or	Class	CHARGES	
1		Im3 c						4,06	0				
* If the ship carrier by v state wheth	water, the laner weight	es between two ports by a aw requires that the bill of lad is "carrier's or shipper's weigh	REMIT C.O.D. TO: ADDRESS		C.O.D. C.O.D. FEE: TOTAL PREPAID Amt. \$ COLLECT \$ CHARGES: \$								
Note-Whe	re the rate	e is dependent on value, ship riting the agreed or declared v	pers are required to value of the property.	Subject to Sectio recourse on the	n 7 of the condition consignor, the cons	is, if this shipr	nent is to be o	delivered to the	e consi	ignee without		IGHT CHARGES	
The agreed	d or declare	ed value of the property is here		The carrier shall charges.	consignor, the consignor shall sign the following statement. Il not make delivery of this shipment without payment of freight and all other								
		per			(Signature of Consignor)								
				ect on the date of	the issue of this B	(Signature ill of Lading, t	of Consignor) he property d	escribed above	a in an	parent good		Dilect	
and condition or corporatio destination. erty, that eve the date here the terms an shipper and a	n of content in in posses It is mutua ery service eof, if this nd condition iccepted for	ct to the classifications and law ts of packages unknown), mar- ssion of the property under th illy agreed as to each carrier to be performed hereunder sh is a rail or a rail-water shipm is of the said bill of lading, se himself and his assigns.	ked, consigned, and d e contract) agrees to of all or any of, said p nall be subject to all th ent or (2) in the appli tt forth in the classific	estined as indicate carry to its usual property over all or te terms and cond cable motor carrie ation or tariff whic	d above which said place of delivery at any portion of sain litions of the Unifor classification or t doverns the tran	carrier (the said destinati d route to des m Domestic S ariff, if this is sportation of	word carrier to on, if on its r stination and a traight Bill of a motor car this shipment,	being understo route, otherwis as to each par Lading set for rrier shipment , and the said	iod thro se to d rty at a rth (1) . Shipp I terms	bughout this eliver to anot any time inter in Uniform F er hereby ce and condition	contract as ther carrier rested in a reight Clas rtifies that ons are he	meaning any person on the route to said II or any of said prop- sifications in effect on he is familiar with all reby agreed to by the	
Transportation an optional met Code of Federa prescribed in si	Regulations thod for iden I Regulations ection 172 2	ate to designate Hazardous Mata governing the transportation of ha triving hazardous materials on Bills : Also when shipping hazardous m 204(a) of the Federal Regulations, rom the requirement is provided in	zardous materials. The us of Lading per 172.201(aterials, the shipper's cer as indicated on the Bill o	se of this column is a)(1) (iii) of Title 49 tification statement Lading does apply,	The format and com pany interpretation 172, Subpart C-Shi tions 172 2D1 (Ha Proper shipping na and subsidiary class	of requirements pping Papers. So zardous Materia me, hazardous \$(es).	as described in uch description al Table) and Se class, UN ident	49 Code of Fed consists of the fo ections 172.202 ification number	leral Rej ollowing 2 and 1 ; packin	gulations or per Sec- 72.203: ma g group, Ur 14	damage ay be a nited Stat	ty limitation for loss in this shipment pplicable. See 49 es Code, Sections)(A) and (B).	
PER	Jav	al Que, (DA	TAID DIAT		PER	K	- As	her y		rens	See 1	140	
G Th	arked, and	rtify that the above named ma labeled, and re in proper con	terials are properly cla	assified, packaged,	Carrier acknowle	dges receipt of	packages and	l any required p	lacarde	a. Carrier cert	Sin .		
Ц ар	plicable reg	ulations of the U.S. Departmen	t of Transportation.	coor any to the		allable and/or	' carrier has tr	e li S Llenarti	ment of	Trancnortoti	00 000000	ency response informa- ncy response guidebook der, except as noted.	

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NUTILE: Sh	ippers o	ILL OF LADIN f hazardous material		04		Dat	e	5/12	12-	2			0		
Coporido de	repriorie	number under "Eme Negotiable	rgency Re	sponse Phone	Number.										
	14001				<u>GWP</u>	ne of Carrie	rì				Car	rrier N	0		
TO: Consignee	W		1				FROM:		6+	5					
Street	61	Rodeo R2	steep	cump)		Shipper								
Destination		KOCLO ILC	AZ	7: 0.1			Street	Imi	5	TIC		Zip Co			······
Route:		Minenc	AL	Zip Code Vehicle N			Origin	SCAC					gency Re	esponse	
No. Shipping		Kind of Packaging, D	escription o				dditional ca		in handlin	io or	Weig	ht	<u>Numbe</u>		
Units	+HM	Special Marks	and Exception	one stowin	g must be so mar y care See Sectio	ked and packs	aged as to	ensure sate tra	ansportatio	on with	(Subjec	t to ion)*	Rate	or Class	CHARGES
		Im 3	Cer	nercte							9,0	40			
											•				
										-					
carrier by w	ater, the	es between two ports by law requires that the bill is "carrier's or shipper's	of lading C.	emit .0.d. to: Ddress			C.O.D. C.O.D. FEE: TOTAL PREPAID Amt. \$ COLLECT \$ CHARGES: \$								
Note-When	re the rat	e is dependent on value riting the agreed or dec	, shippers a	are required to	Subject to Sec recourse on t	ction 7 of th	ne conditio	ons, if this sh	ipment i	is to be d	lelivered to t	he cons	ignee with	nout F	REIGHT CHARGES
The agreed	or declar	ed value of the property			The carrier s								and all ot	uner	ck Appropriate Box:
by the ship \$	per to be	not exceeding			charges.									1	Freight prepaid
-	VED suble				ect on the date	of the issu	e of this	(Signature of Consignor) Collect this Bill of Lading, the property described above in apparent good order, except as noted (contents a said carrier (the word carrier being understood throughout this contract as meaning any person ry at said destination, if on its route, otherwise to deliver to another carrier on the route to said of said route to destination and as to each party at any time interested in all or any of said prop- Juniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on or tariff, if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all a transportation of this shipment, and the said terms and conditions are hereby agreed to by the							
and condition or corporatio destination erty, that even the date here the terms an shipper and a	of conter n in posse It is mutu ery service eof, if this id conditio ccepted fo	ts of packages unknown sssion of the property un ally agreed as to each c to be performed hereur is a rail or a rail-water ns of the said bill of lad r himself and his assigns), marked, c ider the cont arrier of all in ider shall be shipment or ing, set forth	onsigned, and de tract) agrees to or any of, said p subject to all th [2] in the applic h in the classifica	estined as indic carry to its us iroperty over al ie terms and c cable motor ca ation or tariff v	ated above ual place of onditions of rrier classifi which govern	which sa delivery a rtion of s the Unifo ication or ns the tra	d carrier (th at said destin aid route to orm Domestic tariff, if this ansportation	nation, if destination c Straigh is a m of this s	carrier to on its r ion and a nt Bill of notor car shipment	escribed abo being unders oute, otherv as to each p Lading set mier shipme , and the sa	tood thr vise to d party at forth (1) nt. Shipp aid terms	parent gu oughout t leliver to a any time i in Unifor ber hereby s and con	his contract another carr interested in m Freight C y certifies th inditions are	as meaning any person rier on the route to said n all or any of said prop- lassifications in effect on hat he is familiar with all hereby agreed to by the
Transportation an optional met Code of Federa prescribed in s	Regulations thod for ide I Regulation ection 172 c exception	nate to designate Hazardou governing the transportation ntifying hazardous materials is Also when shipping hazar 204(a) of the Federal Requi from the requirement is pro-	on of hazardou on Bills of Lac dous materials ations, as ind	is materials. The us ding per 172 201(s, the shippen's cen sated on the Bill of	se of this column a)(1) (iii) of Title (the stron statement that ing does app	49 172, S ent tions 1 ply, Proper	iterpretatio Subpart C-S 172 201 (1	ontent of hazar n of requirement hipping Papers lazardous Mat hame, hazardo iss(es).	ents as de s. Such de terial Tabl	escribed in escription le} and Se	49 Code of F consists of the ctions 172 2	ederal Re e following 02 and 1	gulations per Sec- 72 203:	or dama may be United S	bility limitation for loss ge in this shipment applicable. See 49 tates Code, Sections (1)(A) and (B).
SHIPPER		PG & E	6	1 14	`	CARR	IER	Grou			ser Z				
PER TI		ertify that the over name a labeled, and are in prop	ed materials	are property et	assified, packag	PER ged, Carrie	er acknow	tedges receip						certifies em	ergency response informa-
A at	arked, and oplicable re	d labeled, and are in prop igulations of the U.S. Depa	er condition artment of Tr	for transpo rtatio ansportation.	n according to		vas made	available and	/or carri	ier has t	ne U.S. Depa	intment o	of Transpor	rtation emer	gency response guidebook order, except as noted.