DOCKETED	
Docket Number:	06-AFC-09C
Project Title:	Colusa Generating Station - Compliance
TN #:	262801
Document Title:	ANNUAL COMPLIANCE REPORT- 2024
Description:	ANNUAL COMPLIANCE REPORT- 2024
Filer:	Anwar Ali
Organization:	PG&E
Submitter Role:	Commission Staff
Submission Date:	4/25/2025 10:14:22 AM
Docketed Date:	4/25/2025

Pacific Gas and Electric Company®

Mailing Address
Pacific Gas and Electric Company
Colusa Generating Station
P.O. Box 398
Maxwell, CA 95955

530.934.9061
Fax: 530.934.9024

CGS2025-L-003

February 26, 2025

Dr. Anwar Ali
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS 2000
Sacramento, California 95814

Reference: **Colusa Generating Station**

Subject: **Colusa Generating Station (06-AFC-9)**
Condition of Certification COM-7 (BIO-2; HAZ-1; Noise-8; Soil and Water 2, 7, 8, 9; TLSN-3; VIS-1, 3; Waste-5 – Annual Operating Report

Dear Mr. Ali:

Please find the attached, pursuant to Colusa Generating Station (CGS) Conditions of Certification COM-7. This is the Annual Compliance Report for CGS and represents the operational period of January 1, 2024 through December 31, 2024. Within this report you will find the following information.

1. Attachment A: an updated compliance matrix showing the status of all Conditions of Certification (with exception to fully satisfied conditions as they do not need to be included after they have been reported as completed);

2. Attachment B: a summary of the current project operating status with explanations of any significant changes to facility operations during the reporting year;

3. Attachment C: documents required by specific conditions to be submitted along with the Annual Compliance Report.

4. Attachment D: a cumulative listing of all post-certification changes approved by the California Energy Commission or cleared by the CPM;

5. Attachment E: an explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided;

6. Attachment F: a listing of filings submitted to, or permits issued by, other governmental agencies during the year;

7. Attachment G: a projection of project compliance activities scheduled during the next year;

8. Attachment H: a listing of the year's additions to the on-site compliance files;

9. Attachment I: an evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions necessary for bringing the plan up to update;

10. Attachment J: a listing of complaints, notices of violations, official warnings, and citations received during the year, a description of the resolution of any resolved matters, and the status of any unresolved matters.

11. Attachment K: verification of funding to the Maxwell Fire Department

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

TJ Gomez
Sr. Environmental Field Specialist
Colusa Generating Station

Enclosure

cc: Josh Harris, PG&E (electronic)
Sam Garcia, PG&E (electronic)

Attachment A
Compliance Matrix

COLUSA GENERATING STATION COMPLIANCE MATRIX BASED ON CEC FINAL DECISION

Color code key:	Construction Item	Commissioning Item	Operations Item	Submitted to CEC or Agency	Approved by CEC/No Longer Applicable

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Lead Respons. Party	Date sent to CEC, CBO or agency	Log Number	Status	Comments
AQ-01	COMM	All facility operating staff shall be advised of and familiar with these permit conditions.	Provide CPM and APCO with signed records of facility operating staff indicating review of permit conditions and maintain training and records documenting this training at the site.	30 days prior to first fire	PG&E	**On file in Environmental Managers Office**		**Ongoing with New Hires**	
AQ-02	CONS	Right of entry shall be provided at all times.	Project Owner shall make site available to reps of the District, ARB and CEC for inspection, etc.	As required	PG&E			Ongoing	
AQ-03	OPS	In the case of shutdown or restart of air pollution control equipment for necessary scheduled maintenance, notify CPM and APCO of such shutdown 24 hours prior.	Notify the CPM and APCO 24 hours in advance of planned shutdowns for maintenance.	As required	PG&E			Ongoing	
AQ-04	OPS	If any upset or breakdown occurs with permitted equipment that causes excess emissions of air contaminants, the APCO shall be notified with 24 hours or by 9:00am by the following work day.	In addition to phone call, also submit a written statement of full disclosure to the APCO within 72 hours, including date, time, duration, estimated emissions, cause and remedy.	As required	PG&E			Ongoing	
AQ-05	OPS	Fugitive emissions, including dust and odors, shall be controlled at all times such that a nuisance is not created at any point beyond the facility's property lines.	Project Owner shall document any complaints received from the public in the Quarterly Operation Reports (QORs) required by AQ-22 and make site available to APCO, ARB, and CEC representatives.	Quarterly after COD	PG&E			Ongoing	
AQ-07.2	COMM	A source test protocol will be submitted to the APCD for approval.	Submit source test protocol to the APCD for approval by the APCO.	45 days prior to conducting annual source tests	PG&E			Annual Requirement	
AQ-07.3	COMM	Notify the CPM and District 10 days prior to actual source test.	Notify the CPM and APCD prior to any compliance source test.	10 days prior to conducting any compliance source test	PG&E			Annual Requirement	
AQ-08	COMM	**CONDITION MODIFIED BY CEC ORDER 7-15-09:** Stack gas testing shall be required on an annual basis for NOx, VOC, and CO on the HRSG stacks. The HRSG stacks shall also be tested for SOx and PM10 emissions during the first year and in subsequent years if requested by APCO. The natural gas water bath heater shall be tested for NOx, SOx, VOC, CO, and PM10 during the first year and thereafter only as requested by APCO.	The results and field data colleced during source tests shall be submitted to the CPM and the District within 60 days of testing.	Within 60 days of testing	PG&E			Annual Requirement	
AQ-09	COMM	Annual testing of the HRSG stacks shall include quantification of formaldehyde and NH3 emissions for compliance with permit limits.Verify by continuous recording the ammonia injection rate to the system. The ammonia source test shall be conducted over the expected operating rate of the turbine as set forth in the Condition.	Provide results and field data collected during source tests to CPM and APCD. Submit proposed ammonia injection/emission rate correlation to the APCD and CPM for approval with the ammonia source test report.	Within 60 days of testing	PG&E			Annual Requirement	
AQ-10	OPS	**CONDITION MODIFIED BY CEC ORDER 7-15-09:** The gas turbines, duct burners, and natural gas water heater shall be fired exclusively on pipeline quality natural gas.	Submit information on the quality and type of fuel used for the gas turbines, duct burners, and natural gas water bath heater to the CPM/APCO in the QORs.	Quarterly after COD	PG&E			Ongoing	

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Lead Respons. Party	Date sent to CEC, CBO or agency	Log Number	Status	Comments
AQ-11	OPS	The average annual sulfur content in the natural gas shall be less than or equal to 0.3 grains per 100 SCF. Conduct monthly testing at the site using approved methods to determine sulfur content. Natural gas testing info from Burney will also be reviewed and provided to the APCD.	Compile the required data on the sulfur content of the natural gas and submit to the CPM and APCO in the QORs.	Quarterly after COD	PG&E			Ongoing	
AQ-13a	OPS	All applicable federal standards and test procedures of Subpart KKKK shall be met.	Provide copies of all correspondence with EPA regarding compliance with Subpart KKKK to the APCD and CEC.	Quarterly after COD	PG&E			Ongoing	
AQ-14	OPS	CTGs shall meet a VOC limit of 2.0 ppmvd w/ duct burner firing and 1.38 ppmvd w/o duct firing at 15% O2 averaged over 1 hour. Maximum hourly steady state VOC emission limits for each CTG are 7.2 pounds with duct firing and 3.4 pounds w/o duct firing	Submit to the CPM and APCO CTG source test emissions data demonstrating compliance with this condition as required by condition AQ-8 and provide operating data that establishes ongoing compliance as part of AQ-22.	Within 60 days of testing	PG&E			Ongoing	
AQ-15	OPS	The CTGs shall meet a NOx limit of 2.0 ppmvd @15% O2 averaged over one hour except during commissioning. Maximum hourly steady state NOx emission limits for each CTG are 20.7 pounds with duct firing and 15.3 pounds without duct firing.	Submit to the CPM and APCO CTG continuous emissions data demonstrating compliance with this condition as part of the QORs.	Quarterly after COD	PG&E			Ongoing	
AQ-16	OPS	The CTGs shall meet a CO limit of 3.0 ppmvd @15% O2 over a three-hour rolling average except during commissioning. Maximum hourly steady state CO emission limits for each CTG are 18.9 pounds with duct firing and 14.0 pounds without duct firing.	Submit to the CPM and APCO CTG continuous emissions data demonstrating compliance with this condition as part of the QORs.	Quarterly after COD	PG&E			Ongoing	
AQ-18	OPS	Ammonia slip shall be limited to 5.0 pmvd @15% O2 over one hour. Formaldehyde emissions will be limited to 0.917 lbs per MMscf of natural gas. Maximum hourly steady state NH3 emission limits for each CTG are 19.2 pounds with duct firing and 14.2 pounds without duct firing.	Submit to the CPM and APCO CTG source test emissions data demonstrating compliance with this condition a part of the QOR. Provide to the CPM and APCO for approval a calculation method to determine the ammonia slip emissions, using source test data, based on the NOx concentration and the ammonia injection rate; this calculation shall be revised for approval as necessary after each source test performed under AQ-9.	Within 60 days of testing	PG&E			Annual Requirement	
AQ-19a	OPS	CEMS shall be installed to sample, analyze, and record NOx, CO, and O2 concentration in the exhaust gas of both HRSG stacks.	Make the site available for inspection by the APCD, ARB, and CEC to verify CEMS is properly installed and operational.	As required	PG&E			Ongoing	
AQ-19b	OPS	CEMS will generate reports of emissions data in accordance with permit requirements and will send alarm signals to the plant DCS control room when emissions levels approach or exceed pre-selected limits.	Submit emissions data generated by the CEMS to the CPM and APCO as part of the QORs.	Quarterly after COD	PG&E			Ongoing	
AQ-19c	OPS	RATA tests will be conducted annually to verify performance of the CEMS.	Provide RATA test results along with annual source test report as required under AQ-8.	Annually	PG&E			Ongoing	
AQ-22	OPS	Quarterly reports of CEMS and process data, including startup info, shall be submitted to the District within 30 days after the end of each quarter.	Provide information as part of QORs. (Format will be determined by the District and may include both electronic spreadsheet and hard copy files.)	Quarterly after COD	PG&E			Ongoing	
AQ-25	OPS	**CONDITION MODIFIED BY CEC ORDER 7-15-09:** The total emissions from the CTGs and HRSGs shall not exceed those established in the Condition for hourly and daily operations (see emission limits set forth in table in condition).	Submit CTG and HRSG emissions data to CEC CPM and APCO demonstrating compliance with the condition as part of QORs.	Quarterly after COD	PG&E			Ongoing	

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Lead Respons. Party	Date sent to CEC, CBO or agency	Log Number	Status	Comments
AQ-26	OPS	**CONDITION MODIFIED BY CEC ORDER 7-15-09:** The total emissions from the Colusa Power Plant shall not exceed the quarterly and annual combustion emission limits established in the Condition [all numbers have been revised from original Final Decision]	Submit to the CPM and APCO the plant emissions data demonstrating compliance with this condition.	Quarterly after COD	PG&E			Ongoing	
AQ-29	OPS	Total facility emissions of Hazardous Air Pollutants shall not exceed 10 tons/year for any single pollutant except ammonia, formaldehyde, and propylene.		Annually	PG&E			Ongoing	
AQ-SC6	OPS	Submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. Project Owner shall submit to the CPM any modification to any permit proposed by the District of EPA and any revised permit issued by the District of EPA.	Submit any proposed air permit modification to the CPM.	Within 5 working days of its submittal	PG&E			Ongoing	
AQ-SC9	OPS	Submit to the CPM Quarterly Operation Reports following the end of each calendar quarter and containing the info required by Condition AQ-19.	Submit QORs to the CPM and APCO no later than 30 days following the end of each calendar quarter.	Quarterly after COD	PG&E			Ongoing	
AQ-SC11	OPS	**NEW CONDITION PER CEC ORDER 7-15-09:** The wet surface air cooler spray water shall be tested for total dissolved solids and that data shall be used to determine and report the particulate matter emissions from the wet surface air cooler. The wet surface air cooler spray water shall be tested at least once annually during the anticipated summer operation peak period (July through September).	The project owner shall provide the water quality test results and the wet surface air cooler particulate (PMl *0/PM2.5)* emissions estimates to the CPM as part of the fourth quarter's quarterly operational report (AQ-SC9).	At least once annually during summer peak period				Ongoing	
BIO-07	OPS	Incorporate biological mitigation measures into the BRMIMP and permanent or unexpected permanent closure plans.	Address all biological resource related issues associated with facility closure and provide final measures in a biological resources element of the final closure plan.	12 months prior to start of closure activities	PG&E			Ongoing	
COM-01	OPS	Unrestricted Access		Ongoing	PG&E			Ongoing access provided during construction	
COM-02	OPS	Compliance Record--The files are to contain copies of all "as-built" drawings, all documents submitted as verification for conditions, and all other project-related documents.		Ongoing	PG&E			Ongoing	
COM-05	OPS	Compliance Matrix	Submit a compliance matrix with each MCR and also in ACR	Include in MCR and in ACR	PG&E			Ongoing	
COM-07	OPS	Annual Compliance Report	Submit to CPM on an annual basis	Annually	PG&E			Ongoing	
COM-09	OPS	Annual Energy Facility Compliance Fee	Submit annual compliance fee to CEC	During life of project	PG&E			Ongoing	
COM-10	OPS	Reporting of Complaints, Notices and Citations	Report to the CPM all notices, complaints, and citations within 10 days of receipt.	As required	PG&E			Ongoing	
COM-11	OPS	Planned Facility Closure	Submit a closure plan to the CPM at least 12 months prior to commencement of a planned closure	12 months prior to start of closure activities	PG&E				

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Lead Respons. Party	Date sent to CEC, CBO or agency	Log Number	Status	Comments
COM-13	OPS	Unplanned Permanent Facility Closure	The on-site contingency plan required for unplanned temporary closure shall also cover unplanned permanent facility closure. All of the requirements specified for unplanned temporary closure shall also apply to unplanned permanent closure.	Within 90 days of permanent closure	PG&E	9/29/2010	CGS10-L-0111	Approved via email 10/15/10	
COM-14	CONS	Post-Certification Changes to the Decision		As required	PG&E			Amendments are discussed in MCR	
CUL-04	CONS	Prepare the Cultural Resources Report (CRR) in ARMR format. Include all information specified in Condition.	Submit CRR within 90 days after completion of ground disturbance (including landscaping).	Within 90 days after completion of landscaping	PG&E	7/28/2011	CGS11-L-0026	Approved 4/9/13	
GEN-01c	OPS	Once the certificate of occupancy has been issued, inform the CPM of any construction, addition, alterations, moving, demolition, repair, or maintenance to be performed on any portions of the completed facility for the purpose of complying with the above stated codes.	Submit required info to the CPM.	At least 30 days prior to such work	PG&E				
GEN-08	CONS	Obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. The Project Owner shall request the CBO to inspect the completed structure and review the submitted documents. The Project Owner shall retain one set of approved engineering plans, specifications, and calculations at the project site or other accessible location during the operation of the project.	Submit to the CBO a written notice that the completed work is ready for inspection and a signed statement that the work conforms to the final approved plans.	Within 15 days of completion of any work	PG&E/CBO				
HAZ-01	OPS	Do not use any hazardous material in any quantity or strength not listed in Appendix C unless approved in advance by the CEC CPM.	Report to the CPM a list of hazardous materials and storage quantities contained at the facility	Include in Annual Compliance Report	PG&E			Ongoing	
NOISE-02	OPS	Throughout the construction and operation of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints. Noise Complaint Resolution process will be used.	File a Noise Complaint Resolution Form with the City and the CPM documenting resolution of the compliant.	Within 5 days of receiving a noise compliant	PG&E				
NOISE-08	OPS	In the event legitimate noise complaints are made by owners or occupants at the two residences locate at ML1, ML2, or RC1 during operation of the CGS, the Project Owner shall offer to pay for the following noise attenuating upgrades (see list in Condition).	Upgrades shall be installed (unless impossible due to circumstances beyond Project Owner's control) within six months of the receipt of the compliance. Provide documentation certifying the items listed in the Condition.	As required	PG&E			Ongoing	
PAL-06	OPS	Through the designated PRS, shall ensure that all components of the PRMMP are adequately performed including collection of fossil materials, preparation of fossil materials for analysis, analysis of fossils, identification and inventory of fossils, the preparation of fossils for curation, and the delivery for curation of all significant paleontological resource materials encountered and collected during project construction .	Maintain in compliance file copies of signed contracts or agreements with the designated PRS and other qualified research specialists. Maintain these files for a period of three years after completion and approval of the CPM-approved Paleontological Resources Report.	As required					
SOIL & WATER-04b	OPS	Notify the CEC of any violations of the agreement requirements, limits or amounts.	Provide copies of any NOVs from the GCID. Fully explain corrective actions in next MCR.	Within 10 days of NOV	PG&E			Ongoing	
SOIL & WATER-07b	OPS	Submit any required monitoring information to the CPM in the annual compliance report.	Submit requested information.	Include in ACR	PG&E			Ongoing	

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Lead Respons. Party	Date sent to CEC, CBO or agency	Log Number	Status	Comments
SOIL & WATER-07c	OPS	Submit copies of an NOVs to the CPM.	Submit requested info to CPM.	Within 10 days of receipt of NOV; explain correction actions in ACR	PG&E			Ongoing	
SOIL & WATER-08b	OPS	Prepare an annual water use summary which includes the monthly range and monthly average of daily raw water usage in gpd and total water used by the project on a monthly and annual basis in acre-feet. Potable water use on the site shall be recorded on a monthly basis. (See additional details for annual water use summary in Condition)	Submit requested info to CPM.	Annually	PG&E			Ongoing	
SOIL & WATER-09c	OPS	Monitor the waste water system following the general standards adopted in the SWRCB's onsite wastewater treatment system regs or the procedures outlined in the CPM-approved O&M manual. Provide testing results.	Provide requested into to CPM.	Include in ACR	PG&E			Ongoing	
TLSN-03	OPS	Take reasonable steps to resolve any complaints of interference with radio or TV signals from operation of the proposed lines.	Provide reports of line-related complaints along with related mitigation measures in the annual report for the first five year.	Include in ACR	PG&E			Ongoing	
VIS-01b	OPS	Notify the CPM that the surface treatment of all listed structures and buildings has been completed and is ready for inspection and submit electronic color photographs taken from the same KOPs	Set up an inspection appointment.	Within 90 days of start of commercial ops	PG&E	3/24/2011	CGS11-L-0014	4/11/2011	
VIS-02b	COMM	Notify the CPM that the lighting has been completed and is ready for inspection.	Set up an inspection appointment.	Prior to start of commercial operation	Gemma	9/19/2011	CGS11-L-0036	Approved 9/29/2011	
VIS-02c	OPS	Notify the CPM of any complaints re: lighting.	Submit a complaint resolution form to the CPM record each lighting complaint and document resolution of that complaint.	Within 48 hours after receiving a complaint	PG&E			Ongoing	
VIS-03	CONS	Provide landscaping that reduces the visibility of the power plant structures and complies with local policies and ordinances. Trees shall be strategically placed along the southern, eastern, and northern facility boundaries as appropriate and of sufficient density and height to screen the plant structures to the greatest feasible extent within the shortest feasible time.	Prepare and submit a landscaping plan (see Condition for details on info to include in plan) to the CPM for review and approval and to the County for review and comment.Notify the CPM and County within 7 days after completing installation of landscaping. Report on landscape maintenance activities in ACR.	At least 90 days prior to installation of landscaping -	PG&E			Submitted 8/25/2010 Approved 9/14/2010 Ongoing for Annual Report	
WASTE-04	CONS	Upon becoming aware of any impending waste management-related enforcement action by any local, state, or federal authority, the Project Owner shall notify the CPM of any such action taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action. The CPM shall notify the project owner of any changes that will be required in the manner in which project-related wastes are managed.	As required	PG&E			Ongoing	
WASTE-05b	OPS	Prepare an Operations Waste Management Plan for all wastes generated during construction of the facility.	Submit plan to the CPM for review and approval. See Final Decision WASTE-5 for plan requirements.	Provide training sign-in sheets in first MCR Report in Annual Report	PG&E	9/23/2010	CGS10-L-0109	Approved on 10/18/10	

Attachment B
Project Operating Status Summary

Per Com-7 Item 2 we are to provide; "A Summary of the current project operating status and an explanation of any significant changes to the facility operations during the year"

There were no significant changes to the facility and the plant is operating normally.

Attachment C
Accompanying Documents

CEC 2017 Annual Compliance Report		
Reporting Conditions, per COM-7, Item 3		
Condition of Certification	**Reporting**	**Comments**
BIO-2	Designated Biologist Record Summaries	See attached documentation, Appendix 1
HAZ-1	List of chemicals onsite	See attached documentation, Appendix 2
Noise-8	Noise Complaints	See attached documentation, Appendix 3
SOIL & WATER-2	SWPPP Monitoring and Maintenance Activities	See attached documentation, Appendix 4
SOIL & WATER-7	GCID Monitoring Requirements / Violations	See attached documentation, Appendix 5
SOIL & WATER-8	Annual Water Use Summary	See attached documentation, Appendix 6
SOIL & WATER-9	Septic Tank	See attached documentation, Appendix 7
TLSN-3	Electro Magnetic Interference Complaints	See attached documentation, Appendix 8
VIS-1	Surface Treatment Report	See attached documentation, Appendix 9
VIS-3	Landscape Report	See attached documentation, Appendix 10
WASTE-5	Waste Management Plan	See attached documentation, Appendix 11

Appendix 1, BIO-2

During project operation, the Designated Biologist shall submit record summaries in the annual compliance report unless their duties are ceased as approved by the CPM.

Colusa Generating Station
4780 Dirks Road
Pacific Gas and Electric Company
Maxwell, California, 95955

Colusa Generating Station (06-AFC-09C), California Energy Commission Annual Compliance Report Biology Section 2024

Date:	February 13, 2025
Project Name:	Colusa Generating Station 2024 Environmental On-call Support Project
Project No:	D31321EE
Attention:	TJ Gomez, Compliance Manager (PG&E)
Company:	Pacific Gas and Electric (PG&E)
Prepared By:	Scott Lindemann/CGS Designated Biologist and Danny Rivas/Biologist
Document No:	1.0
Copies To:	Dean Linville and Joshua Harris (PG&E), Jerry Salamy (Jacobs)

1. Introduction

The California Energy Commission's (CEC's) Condition of Certification (COC) for the Colusa Generating Station (CGS) 2024 Environmental On-call Support Project (the Project) requires Pacific Gas and Electric Company (PG&E) to designate a biologist to supervise compliance with mitigation measures outlined in the CEC-approved Biological Resources Mitigation, Implementation, and Monitoring Plan (BRMIMP) during CGS's operations phase. This report fulfills CEC COC BIO-2, Subsection 8 (BRMIMP 2010). PG&E has complied with the CEC's COC by directing the Designated Biologist (DB) to perform pre-disturbance surveys, perform wildlife relocation when dangerous animals (such as rattlesnakes) are encountered onsite, and coordinate with CGS staff to avoid or minimize impacts to the environment. This report covers the reporting period from January 1, 2024, to December 31, 2024 (the Reporting Period).

1.1 Project Location

The CGS is located approximately 4 miles west of Interstate 5, 7.1 miles northwest of the city of Maxwell, in Colusa County, California. The power plant is immediately west of PG&E's Delevan Natural Gas Compressor Station on Dirks Road. It is in the eastern half of Section 35, Township 18 North, Range 4 West, and is in the "Sites" United States Geological Survey 7.5-minute quadrangle.

1.2 Background

The CGS was built in 2010 and began commercial operation on December 22, 2010. The CGS was designed to avoid biological resources to the greatest extent through the development of mitigation and protection measures in consultation with the U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, California Department of Fish and Wildlife (CDFW), Central Valley Regional Water Quality Control Board, and the CEC. PG&E complied with all applicable COCs during construction and continues to implement applicable COCs during CGS operations, including routine maintenance and outage events.

1.2.1 Bat Mortality

Bat fatalities were first discovered at CGS beneath the air-cooled condenser (ACC) in 2016. In the summer of 2016, PG&E enlisted Garcia and Associates (GANDA, now Kleinfelder) wildlife biologist Heather Johnson to survey the ACC and make recommendations for minimizing bat mortalities, many of which have been implemented (see more below).

It is not currently understood why bats are attracted to the ACC now when they weren't previously, but theories include: (1) an orchard planted adjacent to CGS in 2012 provides bat roosting and foraging habitat and (2) the ACC may resemble suitable roosting and foraging habitat for bats utilizing the adjacent orchard. It is also not currently understood how bats are entering the ACC.

In 2019, CGS staff installed screening to cover an 11-inch gap between the ACC grating and the bottom of the fan plenum, which eliminated raptors and passerines from entering the ACC. However, it did not prevent bats from entering the ACC, as carcasses continue to be detected within and below the ACC.

Two acoustic and visual surveys performed in September 2019 were inconclusive on how the bats are entering the ACC. The surveys recorded 15 visual observations of flying bats foraging in the air surrounding the ACC; however, no bats were recorded visually flying into the cells from underneath the ACC or through any gaps.

In the fall of 2020, per the recommendations for minimizing bat mortalities, CGS staff installed new light-emitting diode lighting inside and outside of the ACC, in part to deter bats from the ACC. During 2021, CGS operated the lighting inside the ACC and on the walkway 24 hours per day, which may have contributed to lower bat mortality in and under the ACC in 2021.

CDFW has installed a year-round bat acoustic detector in a field outside of but immediately adjacent to the CGS to help understand the level of bat activity in the area. Results of this monitoring are pending.

2. Methods

The CEC-approved DB or Biological Monitor (BM) performed pre-disturbance surveys; captured and relocated wildlife encountered onsite that were in harm's way or could potentially be harmful to facility employees; and coordinated with CGS staff to avoid or minimize impacts to the environment. The DB remained on call throughout the Reporting Period.

All new CGS employees and contract workers received the CEC-approved Worker Environmental Awareness Program training via video, an illustrated pamphlet, as well as lecture and daily tailgate trainings with the DB or the PG&E CGS Compliance Manager.

During the active season for rattlesnakes (defined for this document as approximately March to October), the DB or BM conducted surveys of the CGS approximately weekly to detect and relocate rattlesnakes before they entered the plant and posed a danger to operations staff. CGS management has requested the DB/BM and CGS Compliance Manager maintain staff safety by humanely reducing the population of rattlesnakes in the following areas: along the switchyard perimeter, the stormwater detention pond

slopes, and a backup water supply pump at the Glenn-Colusa Canal (GCC) (which is owned and maintained by PG&E in case the water in the Tehama-Colusa Canal is not available or usable). These areas are surveyed because they are part of the power plant infrastructure and, historically, have high rattlesnake activity. All rattlesnakes captured in 2024 were released unharmed offsite.

The DB or BM also conducted surveys to collect bat carcasses observed beneath the ACC throughout the bat migration and breeding season (defined for this document as approximately May through October).

3. Results and Discussion

The CGS complied with all biological resources conditions of certification, mitigation, and protection measures covered in the BRMIMP applicable to this operating facility during the Reporting Period. Monitoring and compliance for the Reporting Period are documented in chronological order in Appendix A. Site photographs are presented in Appendix B.

3.1 Rattlesnakes

Northern Pacific rattlesnakes (*Crotalus oreganus oreganus*) continued to occur in the project area during the 2024 Reporting Period. A total of 28 rattlesnakes were relocated on or adjacent to the project site, which was an increase of 21.7 percent from the number detected in the 2023 Reporting Period (23 rattlesnakes), and about equal to the median number of 29 rattlesnakes per year from years 2011 to 2023. Five rattlesnakes were detected inside the CGS in 2024, which was equal to the number detected inside the CGS during the 2023 Reporting Period. The remaining 23 rattlesnakes in the 2024 Reporting Period were detected outside of, but adjacent to, the CGS (Table 1 and Appendix C). All rattlesnake observations during the Reporting Period occurred within the PG&E CGS parcel (which is approximately 100 acres in size).

Table 1. Rattlesnakes Detected in 2024

	Outside Plant	Inside Plant	Total
Rattlesnakes	23	5	**28**

3.2 Bats

As described in Section 1.2.1, bat mortality remains a concern at the CGS.

3.2.1 Bat Carcass Survey Results

A total of 266 bat carcasses were detected on the CGS site in the Reporting Period (Table 2 and Table D-1 in Appendix D). Bat species detected in the 2024 Reporting Period include: Myotis species [little brown bat (*Myotis lucifugus*) or Yuma myotis (*M. yumanesis*)], Mexican free-tailed bat (*Tadarida brasiliensis*), one big brown bat (*Eptesicus fuscus*), and one western red bat (*Lasiurus blossevillii*, a CDFW Species of Special Concern).

In the Reporting Period, bat fatalities were mainly from Myotis species observed immediately beneath the ACC structure (Table 2). Of the 19 bat carcasses collected in areas other than immediately beneath the ACC, a majority were found along the fence immediately west of the ACC or in the CGS warehouse building.

Table 2. Bat Carcasses by Species and Location

Bat Species Observed	Under ACC	Outside ACC	Totals
Myotis (little brown bat or Yuma myotis)	237	15	252
Mexican free-tailed bat	8	0	8
Western red bat	1	0	1
Big brown bat	1	1	2
Hoary bat	0	0	0
Pallid bat	0	0	0
Unidentified	0	3	3
Totals:	**247**	**19**	**266**

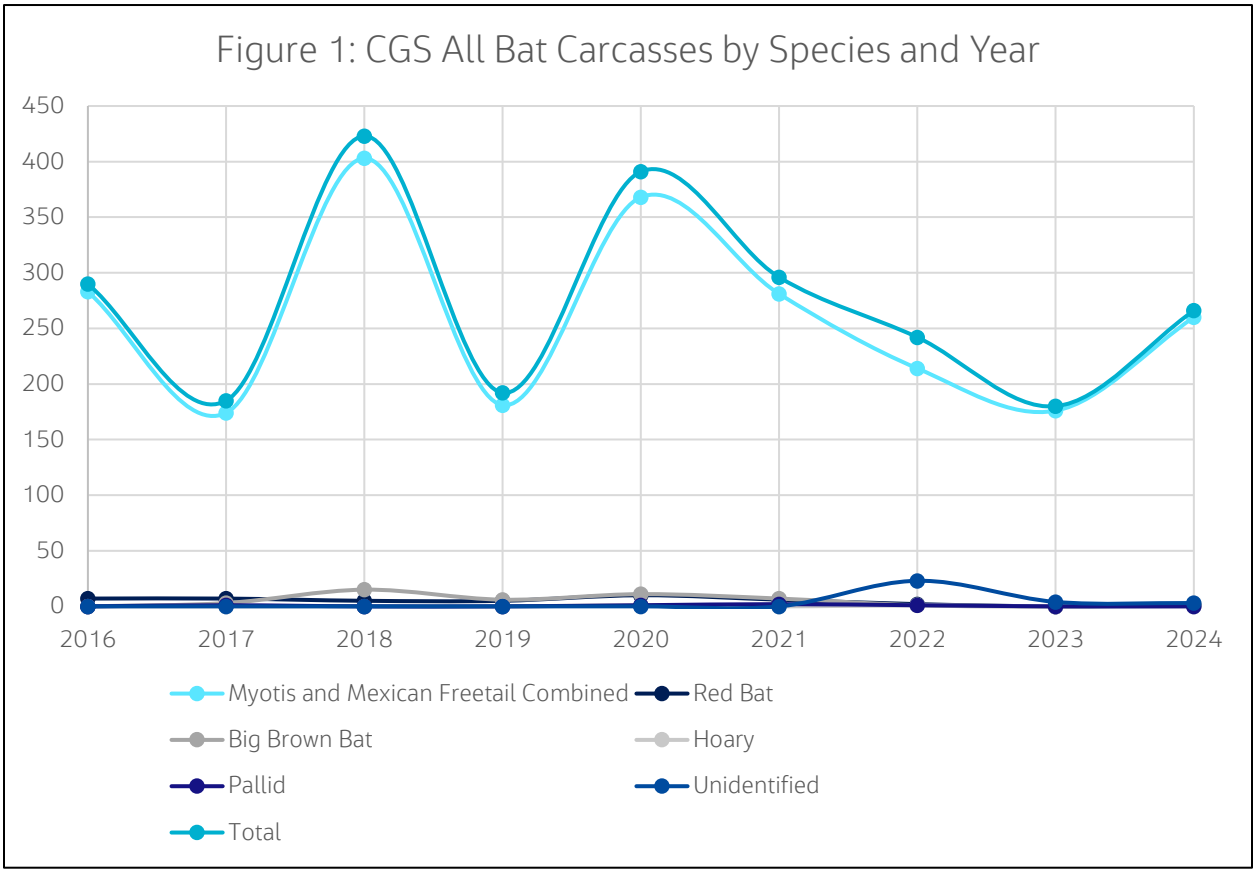
Two live Myotis species bats were encountered during the 2024 Reporting Period and were relocated outside the facility (Appendix B, Photos 43 and 58, Appendix D).

Table 3: Bat Carcass Totals by Species and Year

Year	Myotis	Mexican Free-tail	Myotis and Mexican Free-tail Combined	Western Red Bat	Big Brown Bat	Hoary	Pallid	Unidentified	Totals
2024	252	8	260	1	2	0	0	3	**266**
2023	171	5	176	0	0	0	0	4	**180**
2022	198	16	214	2	1	1	1	23	**242**
2021	271	10	281	6	7	0	2	0	**296**
2020	359	9	368	10	11	1	1	0	**391**
2019	174	7	181	5	6	0	0	0	**192**
2018	-	-	403	5	15	0	0	0	**423**
2017	-	-	174	7	3	0	1	0	**185**
2016	-	-	283	7	0	0	0	0	**290**

Table 3 and Figure 1 present bat carcass totals collected from 2016 to 2024. The 2024 Reporting Period was slightly below the average of 275 bat carcasses a year from 2016 to 2023. In comparison, during the 2023 Reporting Period, 180 bat carcasses were detected, a majority of which were Myotis species and Mexican free-tailed bats (Table 3).

Figure 1. CGS All Bat Carcasses by Species and Year



Tables 4 and 5 present the location of bat carcasses under the ACC, by referencing the fan number above each carcass detection location.

The ACC is oriented such that Street 6, Row 7 is the northwest corner, and Street 1, Row 1, is the southeast corner.

Table 4. Bat Carcasses by Fan Location Under the ACC 2024

	Street #6	Street #5	Street #4	Street #3	Street #2	Street #1	**Totals**
Row #7	6	9	5	2	2	1	**25**
Row #6	9	10	12	7	4	1	**43**
Row #5	7	14	10	9	4	0	**44**
Row #4	6	17	10	10	4	2	**49**
Row #3	6	8	12	8	3	1	**38**
Row #2	1	9	10	10	4	4	**38**
Row #1	0	2	2	1	3	2	**10**
Totals	**35**	**69**	**61**	**47**	**24**	**11**	**247**

Based on the locations of bat carcasses recorded under the ACC in 2024 Reporting Period, Streets #4 and #5 recorded the most bat carcasses (Table 4). A majority of bat carcasses were typically found slightly west from the center of the ACC.

Table 5: Cumulative Bat Carcasses by Fan Location Under the ACC 2022–2024

	Street #6	Street #5	Street #4	Street #3	Street #2	Street #1	**Totals**
Row #7	10	15	7	6	6	1	**45**
Row #6	12	17	17	16	5	3	**70**
Row #5	14	24	13	15	9	1	**76**
Row #4	10	23	17	19	7	6	**82**
Row #3	8	13	18	16	6	1	**62**
Row #2	4	15	15	13	10	5	**62**
Row #1	0	2	7	2	5	3	**19**
Totals	**58**	**109**	**94**	**87**	**48**	**20**	**416**

The correlation between 2024 bat carcass totals and totals for years 2022 and 2023 was moderate to strong with a coefficient of 0.688. Street #5 continued to show the highest recorded bat carcasses under the ACC. Bat carcass locations were concentrated between Streets #3 to #5 and Rows #3 and #6 (Table 5).

Figure 2. Cumulative Bat Carcasses by Fan Location Under the ACC 2022–2024

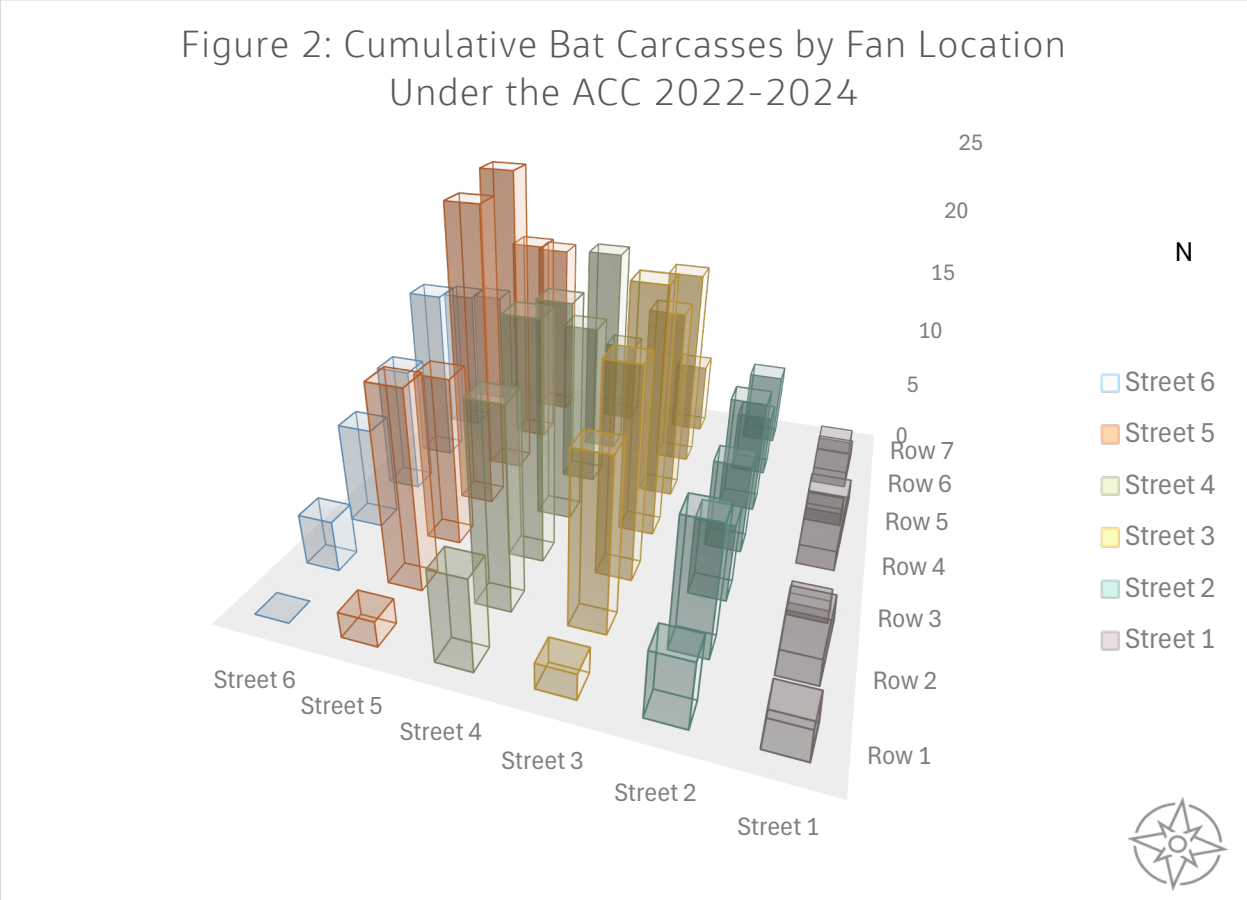


Figure 2 shows a three-dimensional representation of the cumulative bat carcass locations from 2022 to 2024 under each ACC cell, facing north. The DB and BM will continue to monitor and report onsite bat fatalities during the 2025 Reporting Period.

3.2.2 Technical Equipment Issues

On April 15, 2024, the BM discovered that the bat acoustic detector was not functioning; this was reported to CDFW for maintenance that same day. Additionally, the CGS warehouse freezer that is used to preserve bat carcasses from 2022 to 2024 stopped operation during the summer of 2024, causing the loss of bat carcasses. The BM first noticed this issue on June 11, 2024, when the freezer was not functioning, and was able to turn the freezer back on that day. The DB reported this issue to CDFW on June 12, 2024, with an offer to CDFW to come collect the carcasses. The BM found the freezer was not functioning again during a heatwave on June 19, 2024, and the bat carcasses stored in the freezer were thawed and degraded upon inspection. This was reported to CDFW on June 19. CDFW did not collect the bat carcasses, and both the bat carcasses and the malfunctioned freezer were removed from the site on October 2, 2024.

3.2.3 Other Bat Mortality Results and Discussion

PG&E purchased additional netting to cover a portion of the ACC below the fans. The netting is anticipated to be installed during the 2026 Reporting Period.

An onsite visit with CDFW representatives to discuss bat fatalities was held on November 25, 2024. Attendees included TJ Gomez, PG&E Senior Environmental Field Specialist; Sam Garcia, PG&E Manager of Environmental Compliance Fossil, Hydroelectric, Solar, Battery Generation Facilities; Katrina Smith, CDFW Statewide Coordinator for Small Mammal Conservation, Amelia Tauber, CDFW Bats and White-nose Syndrome Environmental Services Intern; and DB Scott Lindemann. The meeting was held for CDFW to observe the site conditions and discuss bat mortality concerns. The use of treatments including ultrasonic deterrents, brighter lighting, and additional netting of the ACC were discussed. CDFW and the DB recommended further analysis to attempt to determine the methods that bats are using to enter the ACC (and therefore best options for bat exclusion methods), any potential correspondence of bat mortality with ACC fan run times, and bat carcass detection location trends over time. The carcass detection location trend analysis was completed in winter 2024 following this meeting and is presented in Section 3.2.1.

The BM checked the status of the bat acoustic detector on April 15, 2024, and sent the acoustic data to CDFW for analysis. During the November 25, 2024, site visit, CDFW disclosed that the acoustic detector data has not yet been fully analyzed.

3.3 Other Special-status Species Encountered in or Near the Colusa Generating Station

Two giant garter snakes (*Thamnophis gigas*) were encountered on May 9, 2024, in the rock slope protection at the GCC bridge approximately 0.7 mile east of the CGS (Appendix B, Photos 30 and 31). Giant garter snakes were also detected at this location in the 2023 and 2022 Reporting Period. A CDFW California Natural Diversity Database occurrence was submitted for CGS occurrences in May 2022.

3.4 Rock Pigeon Abatement

Rock pigeon (*Columba livia*), a non-native bird that was introduced from Europe in the 1600s, has become established at the CGS, with dozens of birds nesting and perching among the CGS infrastructure. This species is not protected by the Migratory Bird

Treaty Act (MBTA), California Fish and Game Code (FGC), or any other federal, state, or local laws. Therefore, rock pigeon abatement began in early 2023 because pigeon droppings potentially pose a human health hazard (through the transmission of disease as well as creating a slipping hazard) and were causing the corrosion of metal surfaces at CGS, decreasing operational readiness.

The use of commercial falconry and trapping for pest control and abatement was approved by the CEC in email on March 10, 2023. CGS contracted Hawk Force during the spring season of the Reporting Period to perform nuisance bird (rock pigeon) abatement via commercial falconry and trapping at the facility.

On October 25, 2023, a meeting was held to discuss the use of commercial falconry at CGS, with attendance by CGS staff (Maintenance Supervisor Dean Linville and Environmental Compliance Manager TJ Gomez), other PG&E staff (including PG&E Senior Biologist Amy Krisch and Environmental Compliance Manager Sam Garcia), DB Scott Lindemann and BM Danny Rivas, and Hawk Force owner Chris Starr. During the meeting, it was confirmed that licenses and permits held by Hawk Force permitted the commercial use of falconry for nuisance bird abatement, with sections allowing for the accidental incidental take (under MBTA and FGC Section 3513) of non-target species of birds by falconry. It was also confirmed that the traps employed by Hawk Force could not feasibly capture other species of birds besides rock pigeon because of the design of the trap. Capture of native species would similarly be categorized as “take” under the MBTA and FGC Section 3513.

In the year 2024 at the CGS, Hawk Force removed in total 328 rock pigeons and 4 Eurasian collared doves (*Streptopelia decaocto*) during the Reporting Period through falconry and trapping (Appendix B, Photo 62). The use of Hawk Force is expected to continue in 2025.

Appendix A
Biological Monitoring Site Visit Logs

Table A-1. Biological Monitoring Site Visit Log

Date	Biologist	Description
2/7/2024	BM Danny Rivas	BM was onsite to perform a visual survey inside the ACC to determine the number of carcasses inside the ACC cells. A total of 34 bat carcasses were counted inside the ACC. No bat carcasses were retrieved while inside the ACC as the fans were on during the count. The bat carcasses observed inside the ACC were smaller in size consistent with Myotis sp. bats and Mexican free-tailed bats. There were no visual indications of other bat species being present such as big brown bat, pallid bat, western red bat, or hoary bat based on the body length and fur color. Visual counts of bat carcasses inside the ACC were included into the 2023 bat carcass totals. Two Myotis sp. and one Mexican free-tail bat carcasses were found under the ACC (Appendix B, Photo 2).
3/26/2024	BM Sean O'Neil	BM was onsite to conduct an inside survey at CGS for rattlesnakes. No rattlesnakes, bat carcasses, or bird nests were observed during the survey.
4/1/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No outside survey of the facility was performed. No nesting birds were detected. Rattlesnake #1 was found 100 feet west of the warehouse, next to a wooden crate inside the fence (Appendix B, Photo 4). The rattlesnake was safely contained and relocated outside the site. One Myotis sp. bat carcass and one old, desiccated, and unidentified bat carcass were found inside the warehouse and fabrication building (Appendix B, Photo 3). The carcasses were stored inside the warehouse freezer.
4/3/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or nesting birds were detected during the site survey. One Myotis sp. bat carcass was found inside the fabrication building near the contractor radio sign-in area (Appendix B, Photo 5). The bat carcass was stored inside the warehouse freezer. Wooden boards for rattlesnakes were installed on the outside of the fence line and pit trap covers were removed during the outside survey. A gap in the wire mesh on the western gate near the ACC was visible and large enough for rattlesnakes and rodents to enter (Appendix B, Photo 10). Two live deer mice were found under plywood boards southwest of the ACC near the fence, and one deer mouse carcass was found at the northeast corner of the fence
4/5/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the survey was not performed because of recent rain. No rattlesnakes or bird nests were detected during the site survey. One fresh Mexican free-tailed bat carcass was found under the ACC (Appendix B, Photo 6). The bat carcass was stored inside the warehouse freezer. A small gap in the wire mesh of the fence north of the ACC was found and filled.
4/8/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or bird nests were detected during the site survey. One big brown bat carcass was found under the ACC (Appendix B, Photo 7). The bat carcass was stored inside the warehouse freezer. Four mice were found in one pit trap next to the western gate.
4/10/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the survey was not performed. No rattlesnakes, bird nests, or bat carcasses were detected.
4/12/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the survey was not performed. No rattlesnakes, bird nests, or bat carcasses were detected. The rock pigeon traps west of the ACC contained 13 rock pigeons (Appendix B, Photo 8). One deer mouse was removed from a pit trap at the main entrance.

Date	Biologist	Description
4/15/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the survey was not performed because of recent rain. No rattlesnakes, bird nests, or bat carcasses were detected during the survey. The rock pigeon traps west of the ACC contained approximately 23 rock pigeons. While checking the bat recorder outside the site, a barn owl carcass was found nearby the bat acoustic recorder box (Appendix B, Photo 9).
4/17/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the site survey was not performed. No rattlesnakes were detected during the inside survey. The BM and CGS Compliance Manager went inside the ACC to collect the old bat carcasses detected on 2/7/24. In total, 18 Myotis sp. bats, 2 Mexican free-tailed bats, and 7 unidentified bat carcasses were collected from inside the ACC (Appendix B, Photo 10). Bat carcasses collected from inside the survey were included in the initial visual count total taken on 2/7/25. No additional bat carcasses were detected outside. The rock pigeon traps west of the ACC were emptied. While retrieving the SD cards from the bat recorder outside the site, a young barn owl was grounded before flushed from the area.
4/19/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No additional bat carcasses were detected outside the ACC (Appendix B, Photo 9). No bat carcasses were observed during the site survey. The BM retrieved both the SD cards from the bat recorder later sent for data analysis by CDFW.
4/22/2024	BM Danny Rivas	BM was onsite to monitor the mowing and clearing of vegetation surrounding CGS. No bird nests were encountered. Three adult rattlesnakes were detected and contained outside the fence. Rattlesnake #2 was found under a board northeast of the site, rattlesnake #3 was found near a culvert northwest of the detention pond, and rattlesnake #4 was found near a pit trap by the gate west of the ACC (Appendix B, Photos 12, 13, and 14). Rattlesnakes #2 and #3 were relocated outside the site while Rattlesnake #4 will be relocated on 4/23/24.
4/23/2024	BM Danny Rivas	BM was onsite to monitor the last mowing and disking at CGS. The vegetation crew targeted the back road west of the ACC, Dirks Road, and the grasslands east of CGS. During vegetation clearing activities, five rattlesnakes were detected with three being contained and later relocated offsite. Rattlesnakes #5 and #6, both juveniles, were detected next to the fence west of Delevan switchyard (Appendix B, Photos 15 and 16). One adult rattlesnake was detected atop of riprap near a culvert east of Delevan switchyard that eluded capture (Appendix B, Photo 18). Rattlesnake # 7 was found atop of riprap near a culvert east of CGS near the barbed fence (Appendix B, Photo 17). An active mallard nest was detected north of Dirks Road within the tall grass (Appendix B, Photo 19). The nest was marked with flagging tape for the vegetation crew to avoid.
4/24/2024	BM Danny Rivas	BM was onsite to monitor the last mowing and disking at CGS and to conduct an inside survey of the site, The vegetation crew finished clearing the remaining grass areas at Dirks Road, Stonyford Road, around the detention pond, and surrounding riprap areas. No rattlesnakes were detected during the remaining vegetation work. Three rattlesnakes were detected during the perimeter walk. Rattlesnakes #8, a juvenile was found outside the fence under a snake board south of CGS (Appendix B, Photo 20). Rattlesnake #9, a deceased juvenile was found along the fence line south of CGS (Appendix B, Photo 22). Rattlesnake #10, a juvenile was found outside the fence under a snake board north of the ACC (Appendix B, Photo 23). Rattlesnakes #8 and #10 were later relocated offsite. During the perimeter survey, a feral cat was observed in the southwest portion of the site. The BM was unable to flush the cat (Appendix B, Photo 21).
4/29/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No bat carcasses were detected during the site survey. Three rattlesnakes were detected outside the fence. Rattlesnake #11 was found by the GCC bridge under a K-rail barrier (Appendix B, Photo 24). Rattlesnake #12 was found along the Delevan Substation under a placed board, and rattlesnake #13 was found in riprap at a drain east of the Delevan Substation (Appendix B, Photos 25 and 26). The mallard nest flagged next to Dirks Road remained active and the rock pigeon traps contained several pigeons.

Date	Biologist	Description
5/1/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or bat carcasses were detected during the site survey. The mallard nest flagged next to Dirks Road was active and the rock pigeon traps were emptied. An active rock pigeon nest was detected under the CT#1 building atop a bundle of wires. The rock pigeon was observed on top of the nest. Multiple mice were removed from the pit traps near the back gate west of the ACC. An uncovered trash bin near the contractor break area was recommended to be emptied.
5/7/2024	BM Danny Rivas	No rattlesnakes or bat carcasses were detected during the site survey. The outside portion of the survey was not performed. The mallard nest flagged next to Dirks Road was empty (Appendix B, Photo 29). The BM went ahead and removed the flagging that surrounded the inactive nest. The pigeon nest under the CT#1 Phaser Data Concentrator (PDC) building atop a bundle of wires remained active (Appendix B, Photo 27). An active black phoebe nest was found under the 4160V PDC building with three chicks (Appendix B, Photo 28).
5/9/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or bat carcasses were detected during the site survey. During the outside survey, two giant garter snakes were observed near the GCC bridge during the outside survey (Appendix B, Photos 30 and 31). The pigeon nest under the CT#1 PDC building atop of a bundle of wires remains active as well as the black phoebe nest under the 4160V PDC building with the three chicks. The gap in the western gate was repaired on 5/8/2024.
5/13/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. Rattlesnake #14, an adult female, was found under a K-rail barrier near the GCC bridge and was relocated (Appendix B, Photo 34). An additional adult rattlesnake was spotted under another K-rail barrier but avoided capture (Appendix B, Photo 33). One old Mexican free-tailed bat carcass was found under the ACC. Both the pigeon nest under the CT#1 PDC building and the black phoebe nest under the 4160V PDC building remained active. A garter snake was found inside the control room and was removed by CGS staff. Another garter snake was spotted next to the back gate by CGS staff around noon and was promptly returned back outside the fence (Appendix B, Photo 32).
5/15/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. Rattlesnake #15 was found inside the fence north of the Zero Liquid Discharge (ZLD) by CGS staff and contained (Appendix B, Photo 33). Rattlesnakes #16, #17, and #18 were found outside the fence under wooden boards north of the ACC (Appendix B, Photos 36 and 37). All four rattlesnakes were relocated offsite. No bat carcasses were detected during the site survey. The pigeon nest under the CT#1 PDC building on top of a bundle of wires was being incubated and the black phoebe nest under the 4160V PDC building remained active. A fledging kestrel was observed at the laydown area west of the warehouse and a fledging Brewer's blackbird was observed east of the ACC.
5/20/2024	BM Danny Rivas	The outside portion of the survey was not performed. No rattlesnakes or bat carcasses were detected during the site survey. The young kestrel observed the prior week was again detected with an adult pair south of the ACC. The pigeon nest under the CT#1 PDC building atop of a bundle of wires remains active along with the black phoebe nest under the 4160V PDC building. Three young Brewer's blackbird carcasses were found east of the ACC. All three carcasses were disposed of offsite.
5/22/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the survey was not performed. No rattlesnakes or bat carcasses were detected during the site survey. The adult kestrel pair were again observed south of the ACC. The pigeon nest under the CT#1 PDC building atop of a bundle of wires remains active along with the black phoebe nest under the 4160V PDC building. Two Brewer blackbird fledglings were observed, one east of the ACC and one near the gas tank north of the administration building. The pigeon traps outside the fence remain open.

Date	Biologist	Description
5/29/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. The outside portion of the site survey was not performed. No rattlesnakes or bat carcasses were detected inside CGS. The pigeon nest under the CT#1 PDC building atop of a bundle of wires remained active and the black phoebe nest under the 4160V PDC had fledged. The pigeon traps outside the fence contained approximately 15 rock pigeons before being emptied by Hawk Force earlier in the day.
6/4/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No bat carcasses were detected during the site survey. Rattlesnake #19 was found under a k-barrier rail near the GCC bridge (Appendix B, Photo 38). The rattlesnake was contained and later relocated outside of CGS. A gopher snake was found under an empty water tank in the southwest corner of the site (Appendix B, Photo 39). The gopher snake was released west offsite. The pigeon nest under the CT#1 PDC building atop of a bundle of wires remained active. The pigeon traps outside the fence were empty during the survey.
6/11/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or active bird nests were detected during the survey. One desiccated Myotis sp. bat carcass was found under the ACC (Appendix B, Photo 40). The pigeon nest under the CT#1 PDC building was empty and inactive. The pigeon traps outside the fence were also empty.
6/19/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or active bird nests were detected during the survey. Two desiccated bat carcasses were found under the ACC, one unidentified bat and one Mexican free-tail bat (Appendix B, Photo 41). The bat storage freezer giving off a strong stench from the bat carcasses thawing after being off for an unknown amount of time. Bat carcasses were stored in a bucket next to the freezer until further direction on collection and storage of bat carcasses was provided.
6/24/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No bat carcasses or active bird nests were detected during the survey. Rattlesnake #20 was found deceased outside the fence south of the warehouse. The carcass was removed from the area. The rock pigeon trap outside the fence was empty.
7/3/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes, bat carcasses, or active bird nests were detected during the survey. The outside portion of the site survey was not performed (Appendix B, Photo 42). The rock pigeon traps outside the fence were empty.
7/9/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnakes and bat carcasses survey at CGS. No rattlesnakes or active bird nests were detected during the survey. The outside portion of the site survey was not performed. One desiccated Myotis sp. bat carcass was found inside the warehouse. Two live Myotis sp. bats were found under a piece of folded carboard in the southwest corner of the site (Appendix B, Photo 43). Both bats fled into a pallet pile upon being found (Appendix B, Photo 44). While surveying under the ACC, two fresh and four desiccated Myotis sp. bat carcasses were found and collected (Appendix B, Photo 45). All seven bat carcasses were stored in the black bucket next to the warehouse freezer. The warehouse freezer appears to be off again with a pool of water at the bottom. The freezer was last working on 6/19/24. The rock pigeon trap outside the fence was empty. Two Brewer's blackbird fledglings were observed at the fence west of the ACC.
7/16/2024	BM Danny Rivas	BM was onsite to survey for rattlesnakes and bat carcasses at CGS. No rattlesnakes or active bird nests were detected during the survey. A recent adult rattlesnake shed was found by CGS staff near the ammonium tank north of the wet surface air cooler. The BM performed two separate sweeps of the area north of the administration building but could not locate the adult rattlesnake. While surveying under the ACC, eight fresh and four desiccated Myotis sp. bat carcasses were found (Appendix B, Photo 46).

Date	Biologist	Description
7/19/2024	BM Danny Rivas	BM was called to locate and capture an adult rattlesnake observed moving between Heat Recovery Steam Generator (HRSG) #1 and #2 by CGS night staff. The BM arrived onsite and searched the immediate area where the rattlesnake was last observed. BM was not able to locate the rattlesnake and left the site.
7/22/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No rattlesnakes or active bird nests were detected during the inside survey. A rattlesnake was observed inside the fence between HRSG #1 and #2 the previous Friday night on 7/19/2024. The BM performed multiple sweeps of the HRSG area but could not locate the adult rattlesnake. While surveying under the ACC, one fresh and four desiccated Myotis sp. bat carcasses were found. One desiccated Myotis sp. bat carcass was found near the entrance to the warehouse (Appendix B, Photo 47). The week prior, a barn owl was found inside the warehouse by staff. The overhead doors were left open to allow the barn owl to leave the warehouse. The barn owl was not observed during the inside survey. While walking the perimeter of the fence, a feral cat was observed under the wooden crates south of the ACC.
7/30/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No active bird nests were detected during the inside survey. Rattlesnake #21 desiccated carcass was observed inside the north pit trap next to the main gate (Appendix B, Photo 48). No additional rattlesnakes were observed during the inside site survey. While surveying under the ACC, 4 fresh and 18 desiccated Myotis sp. bat carcasses were found.
8/7/2024	BM Sean O'Neal	BM was onsite to conduct a rattlesnake and bat carcass survey at CGS. No active bird nests were detected during the inside survey. Rattlesnake #22 was found between the southern fence line and the warehouse (Appendix B, Photo 48). No additional rattlesnakes were observed during the inside survey. During the inside survey, one Myotis carcass was found inside the warehouse. While surveying under the ACC, 71 Myotis sp. bat carcasses were found as well as 1 Mexican free-tailed bat and 1 western red bat (Appendix B, Photo 49).
8/14/2024	BM Danny Rivas	BM was onsite to survey for rattlesnakes, bat carcasses, and bird nests at CGS. Rattlesnake #23 carcass was observed outside the fence line west of the ACC near the back gate (Appendix B, Photo 53). The carcass was removed from the area. No additional rattlesnakes were observed during the inside site survey. While surveying under the ACC, 12 desiccated Myotis sp. bat carcasses were found (Appendix B, Photo 54). One desiccated Myotis sp. bat carcass was found east of the ACC. The pigeon traps west of the ACC contained approximately 16 rock pigeons before being collected by Hawk Force. The feral cat was not detected during the inside survey.
8/21/2024	BM Danny Rivas	BM was onsite to survey for rattlesnakes, bat carcasses, and bird nests at CGS. No active bird nests or rattlesnakes were detected during the survey. While surveying under the ACC, 15 desiccated Myotis sp. and 2 Mexican free-tailed bat carcasses were found (Appendix B, Photo 55). Two desiccated Myotis sp. bat carcasses were found east of the ACC, one near the oil/water separator compact pre-treatment system (CPL) and the other near the CEMS 1 building. One fresh Myotis sp. bat carcass was found inside the warehouse. The pigeon traps west of the ACC contained two rock pigeons.
8/28/2024	BM Danny Rivas	BM was onsite to survey CGS for rattlesnakes, bat carcasses, and bird nests at CGS. No active bird nests were observed during the survey. Rattlesnake #24, a juvenile, was found outside the fence north of Delevan switchyard under a wooden board (Appendix B, Photo 56). The rattlesnake was later relocated offsite after the outside survey was completed. While surveying under the ACC, seven desiccated and two Myotis sp. bat carcasses were found (Appendix B, Photo 57). Two desiccated Myotis sp. bat carcasses were found outside of the ACC, one inside the warehouse and one inside the fabrication building near the administration building door. One live Myotis sp. bat was netted inside the warehouse and relocated outside the facility at the orchards on Dirks Road (Appendix B, Photo 58). The pigeon traps west of the ACC were empty.

Date	Biologist	Description
9/4/2024	BM Danny Rivas	BM was onsite to survey CGS for rattlesnakes and bat carcasses at CGS. No rattlesnakes were detected during the inside survey. While surveying under the ACC, 15 desiccated and 3 fresh Myotis sp. bat carcasses were found (Appendix B, Photo 59). The bat carcasses collected were disposed of in a trash bin under the ACC. The pigeon traps west of the ACC contained 13 individuals during the survey.
9/11/2024	BM Danny Rivas	BM was onsite to survey CGS for rattlesnakes and bat carcasses at CGS. No rattlesnakes were detected. While surveying under the ACC, 21 desiccated and 3 fresh Myotis sp. bat carcasses were found (Appendix B, Photo 60). One desiccated bat carcass was found near the Denim water tank by the contractor bench. Two fresh Myotis sp. bat carcasses and one live Myotis sp. bat were found inside the warehouse (Appendix B, Photo 61). The live Myotis bat was relocated to the orchards adjacent to Dirks Road. The bat carcasses collected were disposed of in a trash bin under the ACC. Additional pigeon traps were placed near the Wet Surface Air Cooler (WSAC) A (Appendix B, Photo 62).
9/18/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass inside survey at CGS. No rattlesnakes were detected. While surveying under the ACC, seven desiccated Myotis sp. bat carcasses were found (Appendix B, Photo 63). The bat carcasses collected were disposed of in a trash bin under the ACC. The pigeon traps west of the ACC contained 12 rock pigeons and 5 in the traps near the WSAC A. Pigeon traps were emptied by Hawk Force.
9/25/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass inside survey at CGS. No rattlesnakes were detected. Three desiccated Myotis sp. bat carcasses were found, two under the ACC and one inside the warehouse (Appendix B, Photo 65). The bat carcasses collected were disposed of in a trash bin inside the warehouse. The pigeon traps west of the ACC contained five rock pigeons. Both inside and outside pigeon traps were emptied by Hawk Force.
10/2/2024	BM Danny Rivas	BM was onsite to survey CGS for rattlesnakes and bat carcasses. No rattlesnakes were detected during the inside survey. Twelve desiccated and one fresh Myotis sp. bat carcasses were found under the ACC (Appendix B, Photo 66). One fresh Myotis sp. bat carcass was found inside the warehouse. The bat carcasses collected were disposed of in a trash bin inside the warehouse. Both inside and outside pigeon traps were emptied by Hawk Force.
10/7/2024	BM Danny Rivas	BM was onsite to conduct a rattlesnake and bat carcass inside survey at CGS. Rattlesnakes #26 and #27, both juveniles, were found inside the fence. Rattlesnake #26 was found west of the warehouse under a tarp near the fence and #27 was found by CGS staff at the steam turbine generator east of the ACC (Appendix B, Photos 68 and 69). Both rattlesnakes were contained and relocated outside of the site. Seven desiccated and one fresh Myotis sp. bat carcasses were found under the ACC (Appendix B, Photo 65). One partially unidentified bat carcass was found east of the ACC. The bat carcasses collected were disposed of in a trash bin inside the warehouse.
10/18/2024	BM Sean O'Neal	BM was onsite to conduct a rattlesnake and bat carcass inside survey at CGS. The inside survey was negative for rattlesnakes. One big brown bat, one Mexican free-tailed bat, and five desiccated Myotis sp. bat carcasses were found under the ACC (Appendix B, Photo 70). The bat carcasses collected were disposed of onsite. Pigeon traps outside and inside were empty during the survey.
10/24/2024	BM Danny Rivas	BM was onsite to survey the inside of CGS for rattlesnakes and bat carcasses. The inside survey was negative for rattlesnakes. Four Myotis sp. bat carcasses were found in total, three under the ACC and one inside the storage room next to the fabrication building (Appendix B, Photo 71). The bat carcasses collected were disposed of onsite. Snake boards outside the fence were removed and pit traps next to the main entrance gate and back gate closed. Weekly scheduled rattlesnake surveys at CGS concluded for 2024.

Date	Biologist	Description
11/25/2024	DB Scott Lindeman n	DB was onsite to meet with CDFW representatives on bat fatalities at the CGS site with CGS Compliance Manager TJ Gomez in attendance. The purpose of the meeting was for the agencies to see the ACC and decide whether additional surveying efforts are needed to determine where and how the bats are accessing the ACC. The use of ultrasonic deterrents, brighter lighting, and additional netting of the ACC was also discussed. Further analysis of bat fatalities to ACC fan run times and carcass locations to identify trends were recommended.
12/15/2024	BM Danny Rivas	BM was onsite to relocate rattlesnake #28, found outside the western gate by CGS staff. The rattlesnake was successfully relocated outside of the facility (Appendix B, Photo 72).

Appendix B
Site Photos

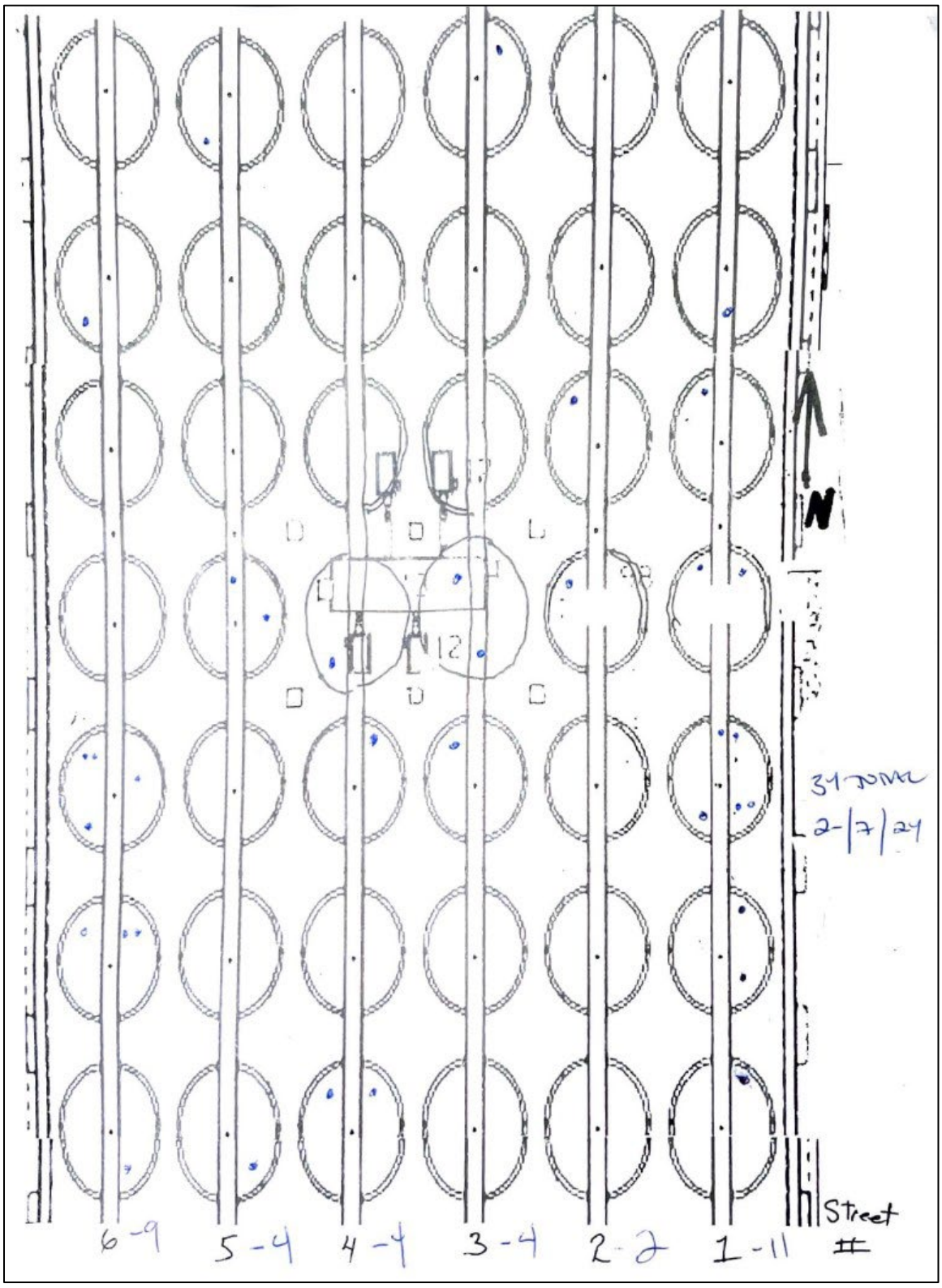


Photo 1. Visual count of bat carcasses inside the cells of the ACC, totaling 34 bat carcasses, a majority of which were Myotis sp. on February 7, 2024.

Photo 2. Two Myotis sp. and one Mexican free-tailed bat carcasses found under the ACC after the visual survey inside the ACC on February 7, 2024.

Photo 3. One old Myotis sp. bat carcass was found inside the warehouse and one old, desiccated bat carcass inside the fabrication building.

Photo 4. Rattlesnake #1 found 100 feet west of the warehouse next to a wooden crate inside the fence. The rattlesnake was safety contained and relocated outside the site on April 1, 2024.

Photo 5. One Myotis sp. bat carcass was found inside fabrication building near the contractor radio sign-in area on April 3, 2024.

Photo 6. One fresh Mexican free-tailed bat carcass found under the ACC on April 5, 2024.

Photo 7. One desiccated big brown bat carcass found under the ACC on April 8, 2024.

Photo 8. Rock pigeon traps installed by Hawk Force containing 13 rock pigeons on April 12, 2024.

Photo 9. A barn owl carcass observed near the bat acoustic recorder in the grassland area south of CGS on April 15, 2024.

Photo 10. Gap in the wire mesh at the western gate west of the ACC, first observed on April 15, 2024.

Photo 11. Eighteen Myotis sp. bats, two Mexican free-tailed bats, and seven unidentified bat carcasses were collected from inside the ACC. No additional bat carcasses were detected outside during the inside survey on April 17, 2024.

Photo 12. Rattlesnake #2, an adult male, was found under a board northeast of the site during vegetation removal operations on April 22, 2024.

Photo 13. Rattlesnake #3, an adult male, was found near a culvert northwest of the detention pond staff during vegetation removal operations on April 22, 2024.

Photo 14. Rattlesnake #4, an adult male, was found near a pit trap by the gate west of the ACC during vegetation removal operations on April 22, 2024.

Photo 15. Rattlesnake #5, a juvenile, was found outside west of the Delevan switchyard next to the perimeter fence on April 23, 2024.

Photo 16. Rattlesnake #6, a juvenile, was found outside west of the Delevan switchyard during vegetation removal operations on April 23, 2024.

Photo 17. Rattlesnake #7, an adult male, was found atop of riprap near a culvert east of CGS near the barbed fence during vegetation removal operations on April 23, 2024.

Photo 18. An adult rattlesnake was found atop of riprap near a culvert east of Delevan switchyard that eluded capture during vegetation removal operations on April 23, 2024.

Photo 19. An active mallard nest was detected north of Dirks Road within the grass during vegetation removal activities on April 23, 2024. Marking tape delineating an active mallard nest was placed.

Photo 20. Rattlesnake #8, a juvenile, was found outside the fence under a snake board south of CGS perimeter fence during the site survey on April 24, 2024.

Photo 21. During the site survey, a feral cat was observed climbing over and under the barbed wire into the southwest portion of the site. The BM was unable to flush the cat found under staged materials on April 24, 2024.

Photo 22. Rattlesnake #9, a deceased juvenile, found outside the perimeter fence south of the warehouse during the site survey on April 24, 2024.

Photo 23. Rattlesnake #10, a juvenile, was found outside the fence under a snake board north of the ACC during the site survey on April 24, 2024.

Photo 24. Rattlesnake #11, a juvenile, was found by the GCC bridge under a K-rail barrier during the site survey on April 24, 2024.

Photo 25. Rattlesnake #12, a juvenile, was found along the Delevan Sub under a placed board during the outside survey of CGS on April 29, 2024.

Photo 26. Rattlesnake #13, an adult, was found in riprap at a drain east of the Delevan Substation during the site outside survey of CGS on April 29, 2024.

Photo 27. A rock pigeon nest being incubated was found under the CT#1 PDC building atop of a bundle of wires during the inside survey on May 7, 2024.

Photo 28: An active black phoebe nest was found under the 4160V PDC building with three hatchlings during the inside survey on May 7, 2024.

Photo 29. Empty mallard nest first observed on April 23, 2024, with eggs during outside survey on May 7, 2024.

Photo 30. First giant garter snake (CGS) observed near the riprap of the GCC bridge during the outside survey on May 9, 2024.

Photo 31. A second giant garter snake (CGS) observed in a tall grass patch near the GCC bridge during the outside survey on May 9, 2024.

Photo 32. A garter snake was found next to the western gate by CGS staff during the inside survey and was promptly relocated outside the fence by the BM. A second garter snake was found inside the control room and was removed by CGS staff earlier in the day on May 13, 2024.

Photo 33. An adult rattlesnake found under another K-rail barrier that eluded capture during the outside survey on May 13, 2024.

Photo 34. Rattlesnake #14, an adult female, was found under a K-rail barrier near the GCC bridge during the outside survey on May 13, 2024.

Photo 35. Rattlesnake #15, a juvenile, was found and contained inside the fence north of the ZLD by CGS staff and later relocated by the BM on May 15, 2024.

Photo 36. Rattlesnake #16 and #17, found outside the fence together under a snake board north of the ACC on May 15, 2024.

Photo 37. Rattlesnake #18, found outside the fence under a snake board north of the ACC on May 15, 2024.

Photo 38. Rattlesnake #19 was found under a k-barrier rail near the GCC bridge during the outside survey on June 4, 2024.

Photo 39. One adult gopher snake was found inside the fence under a water tank south of the ACC on June 4, 2024.

Photo 40. One desiccated Myotis sp. bat carcass found under the ACC on June 11, 2024.

Photo 41. One desiccated Mexican free-tailed bat carcass and one unidentified carcass found under the ACC on June 19, 2024.

Photo 42. Rattlesnake #20 was found deceased outside the fence south of the warehouse on June 24, 2024. The carcass was relocated away from the fence.

Photo 43. Two live Myotis sp. bats were found under a piece of folded carboard in the southwest corner of the site. Both bats fled into a wood pallet pile upon being discovered on July 9, 2024.

Photo 44. One of the two live Myotis sp. bats found southwest of the ACC during the side survey on July 9, 2024.

Photo 45 One desiccated Myotis sp. bat carcass was found inside the warehouse. Six Myotis sp. bat carcasses were found under the ACC, two fresh and four desiccated on July 9, 2024.

Photo 46. Twelve Myotis sp. bat carcasses were found under the ACC, eight fresh and four desiccated on July 16, 2024.

Photo 47. Four desiccated and one fresh Myotis sp. carcasses were found under the ACC. One desiccated Myotis sp. carcass was found near the entrance of the warehouse on July 22, 2024.

Photo 48. Rattlesnake #21, a desiccated carcass, was found inside the north pit fall trap at the main entrance gate on July 30, 2024.

Photo 49. Four fresh and 18 desiccated Myotis sp. bat carcasses found under the ACC on July 30, 2024.

Photo 50. Rattlesnake #22 was found inside the fence behind the warehouse, similar in appearance to the rattlesnake observed inside the site on August 7, 2024.

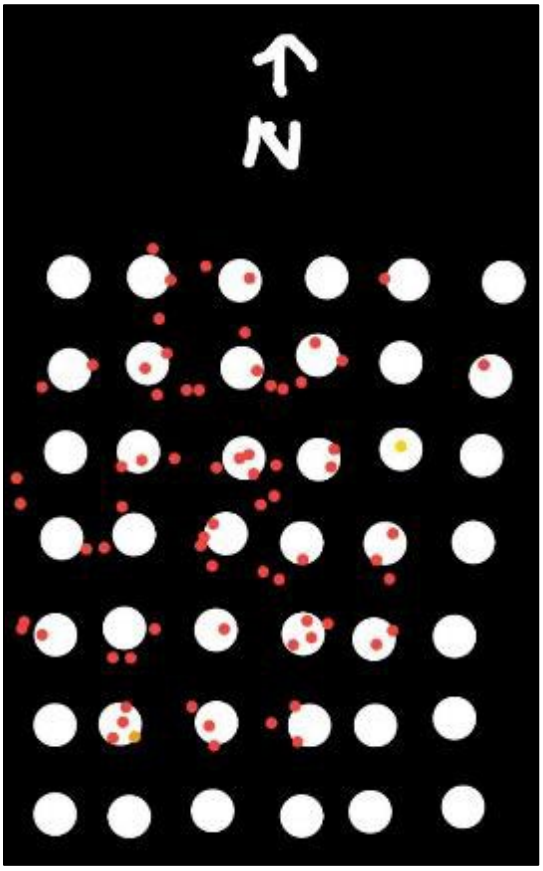


Photo 51. Drawn map of 73 bat carcasses found under the ACC: Seventy-one Myotis sp. bat carcasses, one Mexican free-tailed bat carcass, and one western red bat carcass were found under the ACC unit on August 7, 2024.

Photo 52. One Western red bat carcass found under the ACC on August 7, 2024.

Photo 53. Rattlesnake #23 carcass was found outside the fence west of the ACC near the back gate on August 14, 2024.

Photo 54. Twelve desiccated Myotis sp. bat carcasses were found under the ACC one desiccated Myotis sp. bat carcass found east of the ACC in the gravel area on August 18, 2024.

Photo 55. In total, 20 bat carcasses were found at CGS on August 21, 2024. Fifteen desiccated Myotis sp. and two Mexican free-tailed bat carcasses were found under the ACC. Two desiccated Myotis sp. bat carcasses were found east of the ACC, one near the oil/water separator CPL and the other near the CEMS 1 enclosure. One fresh Myotis sp. bat carcass was found inside the warehouse.

Photo 56. Rattlesnake #24, a juvenile, was found outside the fence north of Delevan switchyard under snake board on August 28, 2024.

Photo 57. Seven desiccated and two Myotis sp. bat carcasses were found under the ACC. Two desiccated Myotis sp. bat carcasses were found outside of the ACC, one inside the warehouse and one inside the fabrication building near the administration building door on August 28, 2024.

Photo 58. A live Myotis sp. bat was netted inside the warehouse and relocated outside the facility at the orchards on Dirks Rd on August 28, 2024.

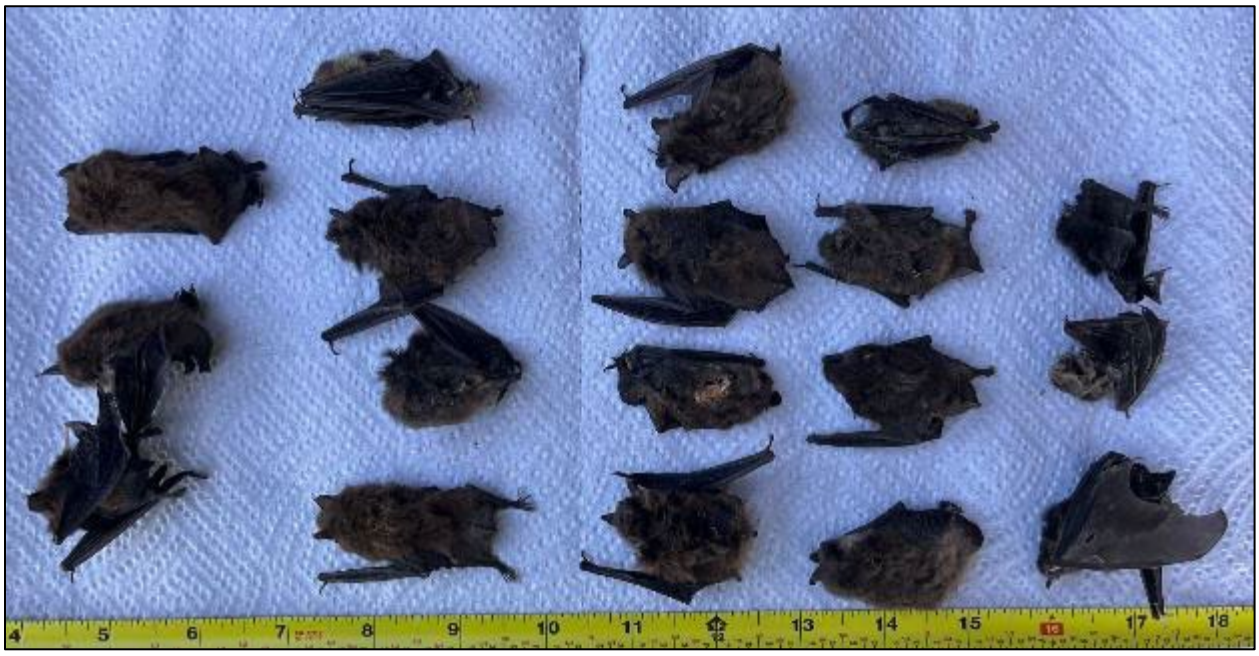


Photo 59. Three fresh and 15 desiccated Myotis sp. bat carcasses were found under the ACC on September 4, 2024.

Photo 60. Twenty-one desiccated and three fresh Myotis sp. bat carcasses were found under the ACC. One desiccated bat carcass was found near the Denim water tank by the contractor bench. Two fresh Myotis sp. bat carcasses and one live Myotis sp. bat were found inside the warehouse on September 11, 2024.

Photo 61. A live Myotis sp. bat was netted inside the warehouse and relocated outside the facility at the orchards on Dirks Road on September 11, 2024.

Photo 62. Additional pigeon traps were placed by near the WSAC A by Hawk Force for pigeon abatement on September 11, 2024.

Photo 63. Seven desiccated Myotis sp. bat carcasses were found under the ACC on September 18, 2024.

Photo 64. Rattlesnake #25 desiccated carcass found outside the fence west of the ACC on September 23, 2024.

Photo 65. Three desiccated Myotis sp. bat carcasses were found, two under the ACC and one inside the warehouse on September 25, 2024.

Photo 66. Twelve desiccated and one fresh Myotis sp. bat carcasses were found under the ACC. One fresh Myotis sp. bat carcass was found inside the warehouse on October 2, 2024.

Photo 67. Seven desiccated and one fresh Myotis sp. bat carcasses were found under the ACC. One unidentified partial bat carcass was found east of the ACC in the gravel area on October 7, 2024.

Photo 68. Rattlesnake #26 was found west of the warehouse under a tarp near the fence on October 7, 2024.

Photo 69. Rattlesnake #27 location, found by CGS staff at the steam turbine generator east of the ACC during the inside survey on October 7, 2024.

Photo 70. One big brown bat, Mexican free-tailed bat, and five desiccated Myotis sp. bat carcasses were found under the ACC on October 18, 2024.

Photo 71. Four desiccated Myotis sp. bat carcasses were found, three under the ACC and one inside the storage room next to the fabrication building on September 24, 2024.

Photo 72. Rattlesnake #28 was found by CGS staff outside the western gate. The snake was contained and later relocated by the BM on December 17, 2024.

Appendix C
Rattlesnake Table

Table C-1. Rattlesnakes Detected in 2023

Date	Total Daily Quantity	Inside Plant	Outside Plant	Notes
4/1/2024	1	1	0	Rattlesnake #1, a female juvenile, was found inside the fence west of the warehouse under debris (Appendix B, Photo 4).
4/3/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/5/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/8/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/10/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/12/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/15/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/17/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/19/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
4/22/2024	3	0	3	Rattlesnake #2 was found under a board northeast of the site, rattlesnake #3 was found near a culvert northwest of the detention pond, and rattlesnake #4 was found near a pit trap by the gate west of the ACC (Appendix B, Photos 12, 13, and 14)
4/23/2024	3	0	3	Rattlesnakes #5 and #6 were detected next to the fence west of Delevan switchyard and rattlesnake #7 was found atop of riprap near a culvert east of CGS near the barbed fence (Appendix B, Photos 15, 16, and 17).
4/24/2024	3	0	3	Rattlesnakes #8, a juvenile was found outside the fence under a snake board south of CGS. Rattlesnake #9, a deceased juvenile was found along the fence line south of CGS. Rattlesnake #10, a juvenile was found outside the fence under a snake board north of the ACC (Appendix B, Photos 20, 22, and 23).
4/29/2024	3	0	3	Rattlesnake #11 was found down by the GCC bridge, #12 was found along the Delevan Sub under a placed board, and #13 was found in some riprap around a drain that comes out of the Delevan Sub (Appendix B, Photos 24, 25, and 26).
5/1/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
5/7/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
5/9/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
5/13/2024	1	0	1	Rattlesnake #14, a pregnant female was found outside the fence near the GCC bridge under a K-rail barrier. Another adult rattlesnake was spotted under a different K-rail barrier but avoided capture (Appendix B, Photos 33 and 34).
5/15/2024	4	1	3	Rattlesnake #15, a juvenile was found inside the fence north of the ZLD by CGS staff. Rattlesnakes #16, 17, and 18 were found outside the fence under placed boards north of the ACC (Appendix B, Photos 35, 36, 37, and 38).

Date	Total Daily Quantity	Inside Plant	Outside Plant	Notes
5/20/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
5/22/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
5/29/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
6/4/2024	1	0	1	Rattlesnake #19 was found under a traffic K-barrier rail near the GCC bridge outside the fence. One gopher snake was found inside the fence under a water tank south of the ACC (Appendix B, Photos 38 and 39).
6/11/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
6/19/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
6/24/2024	1	0	1	Rattlesnake #20 was found deceased outside the fence south of the warehouse (Appendix B, Photo 42).
7/3/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
7/9/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
7/16/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
7/19/2024	0	0	0	One adult rattlesnake was observed inside the site near HRSG#1 at 2100. BM on call was not able to locate the rattlesnake.
7/22/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
7/30/2024	1	0	1	Rattlesnake #21, a desiccated carcass was found inside the north pit fall trap at the front gate (Appendix B, Photo 48)
8/7/2024	1	1	0	Rattlesnake #22, a young adult, was found slithering between the southern fence and the warehouse within the CGS site (Appendix B, Photo 50)
8/14/2024	1	0	1	Rattlesnake #23, an adult carcass, was found east of the ACC near the back gate outside the fence (Appendix B, Photo 53).
8/21/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
8/28/2024	1	0	1	Rattlesnake #24, a juvenile, was found outside the fence north of the Delevan switchyard under a wooden board (Appendix B, Photo 56).
9/4/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
9/11/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
9/18/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
9/23/2024	1	0	1	Rattlesnake #25 carcass was found outside of the fence, west of the ACC (Appendix B, Photo 64).
9/25/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
10/2/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.

Date	Total Daily Quantity	Inside Plant	Outside Plant	Notes
10/7/2024	2	2	0	Rattlesnakes #26 and #27, both juveniles, were found and contained inside the fence. Rattlesnake #26 was found west of the warehouse under a tarp near the fence and #27 was found by the steam turbine generator east of the ACC (Appendix B, Photos 68 and 69).
10/18/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
10/24/2024	0	0	0	No rattlesnakes were observed during the inside and outside survey of CGS.
12/17/2024	1	0	1	Rattlesnake #28, a young adult found earlier this morning outside, next to the west gate by CGS staff (Appendix B, Photo 72).
Totals	***28***	***5***	***23***	--

Appendix D
Bat Table

Table D-1. Bat Species by Date and Condition

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
2/8/2024	34	0	0	0	0	0	0	0	34	34	A total of 34 bat carcasses were counted but not collected inside the ACC. No bat carcasses were retrieved while inside the ACC as the fans were on during the count. 27 of these 34 carcasses were later collected on 04/17/24. The bat carcasses observed inside the ACC were smaller in size consistent with Myotis sp. bats and Mexican free-tailed bats. These 34 carcasses are included in the 2023 Reporting Period carcass count since they are presumed to have entered the ACC during the 2023 Reporting Period.
2/8/2024	3	0	2	1	0	0	0	0	0	0	Two old Myotis sp. bat carcasses and one Mexican free-tailed bat carcass were detected under the ACC.
3/28/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/1/2024	2	0	1	0	0	0	0	0	1	2	One old Myotis sp. bat carcass was found inside the warehouse and one old, desiccated bat carcass inside the fabrication building.
4/3/2024	1	0	1	0	0	0	0	0	0	1	One old Myotis sp. bat carcass was found inside the fabrication building.
4/5/2024	1	0	0	1	0	0	0	0	0	1	One fresh Mexican free-tailed bat carcass was found under the ACC.
4/8/2024	1	0	0	0	0	1	0	0	0	1	One old big brown bat carcass was found under the ACC.
4/10/2024	0	0	0	0	0	0	0	0	0	0	None detected.

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
4/12/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/15/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/17/2024	27	0	18	2	0	0	0	0	7	27	In total 27 bat carcasses from the 2023 active season (for example, Summer 2023) were found and collected inside the ACC: 18 Myotis sp., 2 Mexican free-tailed, and 7 unidentified bat carcasses. These 27 carcasses are not included in the 2024 Reporting Period carcass count because they are presumed to have entered the ACC during the 2023 Reporting Period.
4/19/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/22/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/23/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/24/2024	0	0	0	0	0	0	0	0	0	0	None detected.
4/29/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/1/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/7/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/9/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/13/2024	1	0	0	1	0	0	0	0	0	1	One old Mexican free-tailed bat carcass found under the ACC.
5/15/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/20/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/22/2024	0	0	0	0	0	0	0	0	0	0	None detected.
5/29/2024	0	0	0	0	0	0	0	0	0	0	None detected.
6/4/2024	0	0	0	0	0	0	0	0	0	0	None detected.
6/11/2024	1	0	1	0	0	0	0	0	0	1	One old Myotis sp. bat carcass was found under the ACC.

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
6/19/2024	2	0	0	1	0	0	0	0	1	2	One old Mexican free-tailed bat carcass and one unidentified carcass found under the ACC.
6/24/2024	0	0	0	0	0	0	0	0	0	0	None detected.
7/3/2024	0	0	0	0	0	0	0	0	0	0	None detected.
7/9/2024	7	0	7	0	0	0	0	0	0	7	One desiccated Myotis sp. bat carcass was found inside the warehouse. Six Myotis sp. bat carcasses were found under the ACC, two fresh and four desiccated.
7/16/2024	12	0	12	0	0	0	0	0	0	12	Twelve Myotis sp. bat carcasses were found under the ACC, eight fresh and four desiccated.
7/22/2024	6	0	6	0	0	0	0	0	0	6	One desiccated Myotis sp. bat carcass was found near north entrance of the warehouse. One fresh and three desiccated Myotis sp. bat carcasses were found under the ACC.
7/30/2024	22	0	22	0	0	0	0	0	0	22	Four fresh and 18 desiccated Myotis sp. bat carcasses were found under the ACC.
8/7/2024	74	0	72	1	1	0	0	0	0	74	Seventy-one Myotis sp. bat carcasses, one Mexican free-tailed bat carcass, and one western red bat carcass were found under the ACC unit. One Myotis carcass was found in the warehouse.
8/14/2024	13	0	13	0	0	0	0	0	0	13	Twelve Myotis sp. bat carcasses were found under the ACC and one Myotis sp. bat carcass was found east of the ACC.

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
8/21/2024	20	0	18	2	0	0	0	0	0	20	One fresh Myotis sp. bat carcass was found inside the warehouse. Two desiccated Myotis sp. bat carcasses were found east of the ACC, one near the oil/water separator CPL, and on near the CEMS 1 entrance. Under the ACC 15 desiccated Myotis sp. bat carcasses and two Mexican free-tailed bat carcasses were found under the ACC.
8/28/2024	11	1	11	0	0	0	0	0	0	12	Seven desiccated and two fresh Myotis sp. bat carcasses were found under the ACC. Two desiccated Myotis sp. bat carcasses were found outside the ACC, one inside the warehouse and another inside the fabrication building near the door to the administration building. One live Myotis sp. bat carcass was found inside the warehouse and netted. The live Myotis sp. bat was relocated to the orchards off of Dirks Road.
9/4/2024	18	0	18	0	0	0	0	0	0	18	Three fresh and 15 desiccated Myotis sp. bat carcasses were found under the ACC.

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
9/11/2024	27	1	27	0	0	0	0	0	0	28	Twenty-one desiccated and three fresh Myotis sp. bat carcasses were found under the ACC. One desiccated bat carcass was found near the Denim water tank by the contractor bench. Two fresh Myotis sp. bat carcasses and one live Myotis sp. bat were found inside the warehouse. The live Myotis sp. bat was relocated to the orchards off of Dirks Road.
9/18/2024	7	0	7	0	0	0	0	0	0	7	Seven desiccated Myotis sp. bat carcasses were found under the ACC.
9/25/2024	3	0	3	0	0	0	0	0	0	3	Three desiccated Myotis sp. bat carcasses were found, two under the ACC and one inside the warehouse.
10/2/2024	14	0	14	0	0	0	0	0	0	1	One desiccated Myotis sp. bat carcass was found under the ACC.
10/7/2024	9	0	8	0	0	0	0	0	1	9	Seven desiccated and one fresh Myotis sp. bat carcasses were found under the ACC. One unidentified partial bat carcass was found east of the ACC in the gravel area.

Date	Number of Bat Carcasses Observed	Live Bats Captured and Released	Myotis (little brown bat or Yuma myotis)	Mexican free-tailed bat	Western red bat	Big brown bat	Hoary bat	Pallid bat	Unidentified	Daily Total (dead and living)	Notes
10/18/2024	7	0	5	1	0	1	0	0	0	7	One big brown bat, Mexican free-tailed bat, and five desiccated Myotis sp. bat carcasses were found under the ACC.
10/24/2024	4	0	4	0	0	0	0	0	0	4	Four desiccated Myotis sp. bat carcasses were found, three under the ACC and one inside the storage room next to the fabrication building.
Totals:	**266**	**2**	**252**	**8**	**1**	**2**	**0**	**0**	**3**	**268**	**--**

Pacific Gas and Electric Company®

Appendix 2, HAZ-1

The project owner shall provide to the CPM, in the annual compliance report, a list of hazardous materials and storage quantities at the facility.

Hazardous Materials Appendix C
Colusa Generating Station Onsite Inventory of Hazardous Materials

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
Product #001A0382	Shell Omala Oil HD 220	Gear box/ACC oil	Air Cooled Condenser - Gear Box (E13)	ACC Gear Box	12 gal	gallons	42	504 gal	504	504	365	504.0
	Carbon dioxide, Liquid	Carbon dioxide, Liquid	Carbon Dioxide Bottle Storage Rack at Combustion Turbine-A (Site Feature #59)	Tank	12,000 lb	pounds	1	12,000 lb	12,000	9,000	365	9,000 lb onsite daily
	Carbon dioxide, Liquid	Carbon dioxide, Liquid	Carbon Dioxide Bottle Storage Rack at Combustion Turbine-B (Site Feature #59)	Tank	12,000 lb	pounds	1	12,000 lb	12,000	9,000		9,000 lb onsite daily
	Carbon dioxide, Liquid	Carbon dioxide, Liquid	Carbon Dioxide Bottle Storage Rack at Steam Turbine (Site Feature #59)	Tank	12,000 lb	pounds	1	12,000 lb	12,000	9,000		9,000 lb onsite daily
Nalco TRAC107 PLUS	PSO (1.0 - 5.0%)	Closed Cooling Corrosion/Scale Inhibitor	Closed Cooling Chemical Feed Tank (Site Feature #106)	55-gal Metal or Plastic	55 gal	gallons	4	220 gal	220	165	365	1,010
MSDS #778983	Turbine Oil	lube oil	Combustion Turbine-A (E1)	CT-A Lube Oil	6,150 gal	gallons	1	6,150 gal	6,150	4,613	365	33,671 lb onsite daily
	Hydrogen	Hydrogen / Coolant	Combustion Turbine-A HRSG (G2)	Generator	10,617 cu ft	cubic feet	1	10,617 cu ft	10,617	7,963	365	
MSDS #778984	Turbine Oil	lube oil	Combustion Turbine-B (E2)	CT-B Lube Oil	6,150 gal	gallons	1	6,150 gal	6,150	4,613	365	33,671 lb onsite daily
	Hydrogen	Hydrogen / Coolant	Combustion Turbine-B HRSG (G2)	Generator	10,617 cu ft	cubic feet	1	10,617 cu ft	10,617	7,963	365	
	Oxygen Gas	Oxygen Gas	Continuous Emissions Monitor System Shelters (G4)	Cylinders	200 cu ft	cubic feet	6 (3 per CEMS shelter)	1,200 cu ft	1200	900	365	
	Nitrogen oxide / Nitrogen dioxide (Low Range)	Nitrogen oxide / Nitrogen dioxide (Low Range)	Continuous Emissions Monitor System Shelters (G4)	Cylinders	200 cu ft / 0.062 lb	cubic feet / pounds	6 (3 per CEMS shelter)	1200 cu ft / 0.374 lb	1200	900 cu ft / 0.281 lb	365	0.281 lb onsite daily
	Nitrogen oxide / Nitrogen dioxide (High Range)	Nitrogen oxide / Nitrogen dioxide (High Range)	Continuous Emissions Monitor System Shelters (G4)	Cylinders	200 cu ft / 0.062 lb	cubic feet / pounds	6 (3 per CEMS shelter)	1200 cu ft / 0.374 lb	1200	900 cu ft / 0.281 lb	365	0.281 lb onsite daily
	Carbon monoxide (Low Range)	Carbon monoxide (Low Range)	Continuous Emissions Monitor System Shelters (G4)	Cylinders	200 cu ft	cubic feet	6 (3 per CEMS shelter)	1200 cu ft	1,200	900	365	
	Carbon monoxide (High Range)	Carbon monoxide (High Range)	Continuous Emissions Monitor System Shelters (G4)	Cylinders	200 cu ft	cubic feet	6 (3 per CEMS shelter)	1200 cubic feet	1,200	900	365	

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
5711	Aqueous Ammonia with Monoethanolamine (5 - 12%)	BFW pH Adjustment and Corrosion Control (Ammonia / Amine Blend)	Cycle Chemical Feed Shelter (Boler Feedwater/Condensate) (B1)	Tote	400 gal / 3,338 lb	gallons / pounds	1	400 gal / 3,338 lb	400 gal / 3,338 lb	300 gal / 2,504 lb	365	6,320
BL-153	Ammonium Hydroxide 10-19%	BFW pH Adjustment and Corrosion Control (Ammonia / Amine Blend)	Cycle Chemical Feed Shelter (Boler Feedwater/Condensate) (B1)	Tote	400 gal / 3,338 lb	gallons / pounds	1	400 gal / 3,338 lb	400 gal / 3,338 lb	300 gal / 2,504 lb	365	3,338 lbs on site daily
BL-152	Aqueous Ammonia with Monoethanolamine (5 - 10%)	BFW pH Adjustment and Corrosion Control (Ammonia / Amine Blend)	Cycle Chemical Feed Shelter (Boler Feedwater/Condensate) (B1)	Tote	400 gal / 3,338 lb	gallons / pounds	1	400 gal / 3,338 lb	400 gal / 3,338 lb	300 gal / 2,504 lb	365	3,338 lbs on site daily
ELIMINOX	Carbohydrazide (5 - 10%)	Oxygen Scavenger	Cycle Chemical Feed Shelter (Boler Feedwater/Condensate) (B1)	Drum	55 gal	gallons	1	55 gal	55	41	365	490
BT-3400	Pre-blended Phosphate/Caustic (1.0 - 5.0%)	pH and Corrosion Control (HP & IP Phosphate Feed)	Cycle Chemical Feed Shelter (HRSG A&B) (B1)	Tote	110 gal	gallons	1	110 gal	110	83	365	979
CROSSTRANS 106 and 207	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-A Excitation Transformer (E9)	Transformer	521 gal	gallons	1	521 gal	521	391	365	3,165 lb onsite daily
CROSSTRANS 106 and 206	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-A GSU Transformer (E4)	Transformer	14,950 gal	gallons	1	14,950 gal	14,950	11,213	365	90,821 lb onsite daily
CROSSTRANS 106 and 208	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-A Isolation Transformer (E10)	Transformer	977 gal	gallons	1	977 gal	977	733	365	5,935 lb onsite daily
CROSSTRANS 106 and 207	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-B Excitation Transformer (E9)	Transformer	521 gal	gallons	1	521 gal	521	391	365	3,165 lb onsite daily
CROSSTRANS 106 and 207	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-B GSU Transformer (E5)	Transformer	14,950 gal	gallons	1	14,950 gal	14,950	11,213	365	90,821 lb onsite daily
CROSSTRANS 106 and 208	mineral oil	mineral oil	Electrical Equipment: Combustion Turbine-B Isolation Transformer (E10)	Transformer	977 gal	gallons	1	977 gal	977	733	365	5,935 lb onsite daily
CROSSTRANS 106 and 209	mineral oil	mineral oil	Electrical Equipment: Station Service Transformer (E7)	Transformer	6,510 gal	gallons	1	6,510 gal	6,510	4,883	365	39,548 lb onsite daily
CROSSTRANS 106 and 210	mineral oil	mineral oil	Electrical Equipment: Station Service Transformer (E7)	Transformer	6,510 gal	gallons	1	6,510 gal	6,510	4,883	365	39,548 lb onsite daily
CROSSTRANS 106 and 209	mineral oil	mineral oil	Electrical Equipment: Steam Turbine Excitation Transformer (E11)	Transformer	747 gal	gallons	1	747 gal	747	560	365	4,538 lb onsite daily
CROSSTRANS 106 and 208	mineral oil	mineral oil	Electrical Equipment: Steam Turbine GSU Transformer (E6)	Transformer	19,015 gal	gallons	1	19,015 gal	19,015	14,261	365	115,516 lb onsite daily

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
	Helium	Helium, Compressed	Gas Metering Station (G5)	Cylinders	250 cu ft	cubic feet	5	1250 cu ft	1,250	938	365	
	Methane	Methane Compressed	Gas Metering Station (G5)	Cylinders	59 cu ft	cubic feet	1	59 cu ft	59	44	365	
MSDS #778986	Turbine Oil	lube oil	Hazardous Materials Storage Area (M2)	Drum	55 gal	gallons	4	220 gal	220	165	365	1,205 lb onsite daily
Product #001A0383	Shell Omala Oil HD 221	gear box/ACC oil	Hazardous Materials Storage Area (M2)	Barrels	55 gal	gallons	2	110 gal	110	83	365	606 lb onsite daily
	Hydrogen	Hydrogen	Hydrogen Storage Area (G1)	Tube	44,000 cu ft	cubic feet	1	44,000 cu ft	44,000	33,000	365	53,000
AlphaCELL 195GXL- FT3	Lead Acid Battery	Lead Acid Battery	Packaged Electrical Electronic Control Center (PEECC) (M7)	Electrical Equipment : Battery	100 lb	pounds	116	11,600 lb	11,600	11,600	365	11,600
	Acetylene Gas	Acetylene Gas	Plant Maintenance Area (G3)	Cylinders	143 cu ft	cubic feet	4	572 cu ft	572	429	365	
	Argon Gas	Argon Gas	Plant Maintenance Area (G3)	Cylinders	381 cu ft	cubic feet	2	762 cu ft	762	572	365	
	Oxygen Gas	Oxygen Gas	Plant Maintenance Area (G3)	Cylinders	250 cu ft	cubic feet	6	1500 cu ft	1,500	1,125	365	
	Propane Gas	Propane Gas	Plant Maintenance Area (G3)	Cylinders	20 lb	pounds	16	319 lb	320	240	365	
	Nitrogen Gas	Nitrogen Gas	Plant Maintenance Area (G3), Compressed Cylinder Storage Area (C3)	Cylinders	250 cu ft	cubic feet	48	12,000 cu ft	12,000	12,000	365	
CDID: Stationary SPg - IB	Lead-Antimony Battery	Lead-Antimony Battery	Power Distribution Center in center of site (M6)	Electrical Equipment : Battery	110 lb	pounds	60	6,600 lb	6,600	6,600	365	6,600
CDID: Stationary SPg - IB	Lead-Antimony Battery	Lead-Antimony Battery	Power Distribution Center in Water Treatment Building (M6)	Electrical Equipment : Battery	110 lb	pounds	20	2,200 lb	2,200	2,200	365	2,200
MSDS #778985	Turbine Oil	lube oil	Steam Turbine (E3)	Steam Turbine Lube Oil System (E3)	5,250 gal	gallons	1	5,250 gal	5,250	3,938	365	28,744 lb onsite daily
	Hydrogen	Hydrogen / Coolant	Steam Turbine Generator (G2)	Generator	15,439 cu ft	cubic feet	1	15,439 cu ft	15,439	11,579	365	
	Sulfur Hexafluoride	SF6	Sulfur Hexafluoride Breakers (G4)	Electrical Equipment : Breaker	205 lb	pounds	7	1,432 lb	1,432	1,074	365	1,074 lb onsite daily
C & D Technologies 3DJ-200	Flooded Lead-Calcium Battery	Flooded Lead-Calcium Battery	Switchyard Control House (M7)	Electrical Equipment : Battery	100 lb	pounds	60	6,000 lb	6,000	6,000	365	6,000
7469	Anti-foam	Foam Control (ZLD)	Water Treatment Building (High Efficiency RO and ZLD) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	4,200
FO-321	Anti-foam	Foam Control (ZLD)	Water Treatment Building (High Efficiency RO and ZLD) (Site Feature #15)	Tank	360	gallons	1	360	360	270	365	3013 lbs on site daily

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
Nalco 8131	Coagulant (5 - 20%)	Coagulant (UF and Lamella Clarifier)	Water Treatment Building (Raw Water Pre-Treatment and RO) (B4)	Abovegro und Tank	2,500 gal / 31,295 lb	gallons / pounds	1	2,500 gal / 31,295 lb	2,500 gal / 31,295 lb	1,875 gal / 23,471 lb	365	23,471 lb onsite daily
P-828L	Ferric Sulfate 30-60%	Coagulant (UF and Lamella Clarifier)	Water Treatment Building (Raw Water Pre-Treatment and RO) (B4)	Abovegro und Tank	2,500 gal / 31,295 lb	gallons / pounds	1	2,500 gal / 31,295 lb	2,500 gal / 31,295 lb	1,875 gal / 23,471 lb	365	23,471 lb onsite daily
Cat-Floc 8018 Plus	Flocculant (5 - 20%)	Flocculant (Lamella Clarifier)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	480
7744	Flocculant (5 - 20%)	Flocculant (Lamella Clarifier)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	480
P-817E	Flocculant (5 - 20%)	Flocculant (Lamella Clarifier)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	480
PC-7408	Sodium Bisulfite (30 - 60%)	Water Treatment Feedwater Dechlorinization (Sodium Bisulfite Feed)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	2,399
RL-124	Sodium Bisulfite (30 - 60%)	Water Treatment Feedwater Dechlorinization (Sodium Bisulfite Feed)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tank	360 gal	gallons	1	360 gal	360	270	365	3,600
	Sulfuric Acid 98% (66 degree Baume 93%)	pH Adjustment (Sulfuric Acid for pH Adjustment)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	300 gal	gallons	2	600 gal	600	450	365	9,205
8735	Sodium Hydroxide	pH Adjustment (Caustic for pH Adjustment)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	2,399
BL-1304	Sodium Hydroxide 15-40%; Potassium Hydroxide 10-30%	pH Adjustment (Caustic for pH Adjustment)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tank	360 gal	gallons	1	360 gal	360	270	365	4543 lbs on site daily
PC-191T	Antiscalant	RO Scale Inhibition (Raw Water RO Antiscalant)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tote	400 gal	gallons	1	400 gal	400	300	365	1,200
RL-9008	Antiscalant 2-Phosphono-1,2,4 - butane tricarboxylic acid 5-10%	RO Scale Inhibition (Raw Water RO Antiscalant)	Water Treatment Building (Raw Water Pre-Treatment and RO) (Site Feature #15)	Tank	360 gal	gallons	1	360 gal	360	270	365	3431 lb on site daily
	Sodium Hypochlorite (10 - 12%)	Bacteria Control for UF (Sodium Hypo-chlorite Feed)	Water Treatment Building (Raw Water Pre-Treatment and RO) (B4)	Abovegro und Tank	1000 gal	gallons	1	1,000 gal	1,000	750	365	6,259 lb onsite daily
PERMA-CARE® PC- 98	Sodium Hydroxide (5 - 15%)	High pH Cleaning (RO Cleaning Chemical)	Water Treatment Building (Reverse Osmosis and UF Cleaners) (Site Feature #15)	55-gal Metal or Plastic Drum .56	55 gal	gallons	4	220 gal	220	165	365	940

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
PERMA-CARE® PC- 40	Sodium Percarbonate (5 - 15%)	Surfactant for Cleaning (RO Cleaning Chemical)	Water Treatment Building (Reverse Osmosis and UF Cleaners) (Site Feature #15)	5-gal Pail	5 gal	gallons	2	9 gal / 100 lbs	10	8	365	42
8344	Citric Acid (5 - 15%)	Low pH Cleaning (UF Iron Cleaner)	Water Treatment Building (Reverse Osmosis and UF Cleaners) (Site Feature #15)	55-gal Plastic Drum .56	55 gal	gallons	4	220 gal	220	165	365	575
RL-2016	Citric Acid (10-30%)	Low pH Cleaning (UF Iron Cleaner)	Water Treatment Building (Reverse Osmosis and UF Cleaners) (Site Feature #15)	Drum	55 gal	gallons	4	220 gal	220	165	365	2006 lbs on site Daily
	Soda Ash	Ph control	Water Treatment Building (Site Feature #15)	Drum	500 lbs	lbs	2	1000 lbs	1,000	750	365	750
	Sodium Hypochlorite (10 - 12%)		Water Treatment Building (Site Feature #15)	Tote	300 gal	gallons	1	300 gal	300	225	365	600
RL-1500	Ethylene diamine tetraacetic acid, tetrasodium salt (10-30%)	High pH Cleaning (RO Cleaning Chemical)	Water Treatment Building (Site Feature #15)	Dum	55 gal	gallons	2	110 gal	110	83	365	
CL-2156	5-chloro-2methyl-4-isothiazolin-3-one 1.11%; 2-methyl-4-isothiazolin-3-one .39%; Magnesium Nitrate 1.61%; Magnesium Chloride .96%	Evaporative Cooling Water Biocide	Wet Surface Air Cooled Chemical Feed Shelter (B2)	Tank	150 gal	gallon	1	150 gal	150	113	365	1286 lbs onsite daily
CL-497	Sodium Chlorosulfamate 7-13% Sodium bromosulfamate 7-13% Sodium Hydroxide 1-5% Sodium Sulfamate 1-6%	Evaporative Cooling Water Biocide	Wet Surface Air Cooled Chemical Feed Shelter (B2)	Tank	360 gal	gallon	1	360 gal	360 gallon	200	365	2180 lbs onsite daily
3DTBR06	Bioreporter (1 - 10%)	Tracing Agent (Bioreporter)	Wet Surface Air Cooled Chemical Feed Shelter (B2)	5-gal Pail	5 gal	gallons	2	10 gal	10	8	365	330
Nalco 3DT161	Inhibitor (5 - 10%)	Evaporative Cooling Scale/Corrosion Inhibitor	Wet Surface Air Cooled Chemical Feed Shelter (B2)	Tote	110 gal	gallons	1	110 gal	110	83	365	3,359
CL-1432	Potassium phosphate, tribasic 5- 10%; 1-Hydroxyethylidene-1,1- diphosphonic acid, tetrapotassium salt .5-1.0%; Tetrapotassium pyrophosphate 1-5%; Potassium	Evaporative Cooling Scale/Corrosion Inhibitor	Wet Surface Air Cooled Chemical Feed Shelter (B2)	Tank	150 gal	gallons	1	150 gallons	150	113	365	1674 lbs onsite daily
CT-709	Tetrapotassium pyrophosphate 40 70%	Wet SAC Passivation	Wet Surface Air Cooled Chemical Feed Shelter (B2)	Drum	55 gal	gallons	1	55 gal	55	41	365	792 lbs onsite daily
CROSSTRANS 106 and 208	mineral oil	mineral oil	Electrical Equipment: Alternate Power Transformer (E12)	Transformer	550 gal	gallons	1	550 gal	550	550	365	550 lb onsite daily
MSDS #778984	Turbine Oil	lube oil	Combustion Turbine-A HRSG (G2)	boiler feedwater pump	141 gal	gallons	2	282 gal	282	212	365	2,045 lb onsite daily

Trade Name	Chemical Name	Common Name / Chemical Purpose	Location	Storage Container Type	Capacity of Largest Container	Unit	Number of Items	Total Amount Stored	Maximum Daily Amount	Average Daily Amount	Days on Site	Estimated Pounds Per Year of Chemical
MSDS #778984	Turbine Oil	lube oil	Combustion Turbine-B HRSG (G2)	boiler feedwater pump	141 gal	gallons	2	282 gal	282	212	365	2,045 lb onsite daily
	Sulfuric Acid 98% (66 degree Baume 93%)		Zero Liquid Discharge AreaSite Feature #21)	Tote	325 gal	gallons	1	325 gal	325	244	365	4,986
	Aqueous Ammonia (19%)		Aqueous Ammonia Storage Tank (M5)	Tank	20,000 gal	gallons	1	20,000 gal	20,000	15,000	365	154,971
Shell Turbo Fluid DR 46	Trixyly Phosphate (60-100%)	Steam Turbine Hydraulic Oil	Steam Turbine (E14)	Tank	500 gal	gallons	1	500 gal	500	400	365	
DOWFROST* 30 Heat Transfer Fluid	Propylene Gycol (30%)	propylene gycol in the water bath heater	Water Bath Heater (Site Feature #85)	In water bath heater	16,662 gal	gallons	1	16,662 gal	16,662	12,497	365	
Carbon Dioxide	Carbon Dioxide, Gas (99%)		Near STG	compressed gas cylinder	436 cu ft	cu ft	72	31392 cu ft	31,392	23,544	365	
Gasoline	Gasoline	Gasoline	Hazardous Materials Storage Area (M2)	Drum	55 Gal	gallons	2	110 gallons	110	55	365	3000 gallons
Diesel	Diesel	Diesel	Hazardous Materials Storage Area (M2)	Drum	55 Gal	gallons	2	110 gallons	110	55	365	2200 gallons

Pacific Gas and Electric Company®

Appendix 3, Noise

Per Noise-8, the following is required: "In the first annual compliance report after the receipt of a complaint, the project owner shall include documentation certifying that:

1) the noise-attenuating upgrades were installed on the specified residence at the project owner's expense;

2) the noise attenuating upgrades were already a feature of the residence;

3) installation was offered but refused by the owner; or 4) residential use by the complainant was ceased.

There were no Noise Complaints made by the owners or occupants of any of the existing residences located at ML1, ML2, or RC1 during operation of the CGS in 2024. There have been no noise complaints to date from anyone.

Pacific Gas and Electric Company®

Appendix 4, SOIL & WATER-2

2023-2024

ANNUAL REPORT

FOR STORM WATER DISCHARGES
ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2023 through June 30, 2024

Retain a copy of the completed Annual Report for your records.

Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers, and e-mail addresses of the Regional Board contacts, as well was the Regional Board office addresses, can be found at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml

General Information

A. Facility Information

WDID: 5S06I022929

Business Name: Colusa Generating Station

Physical Address: 4780 Dirks Rd

City: Maxwell

State: CA

Zip: 95955

Contact Person: Joshua Harris

Phone: 530-934-9086

Email: joshua.harris@pge.com

Standard Industrial Classification (SIC) Codes: 4911-Electric Services

B. Facility Owner Information

Business Name: Pacific Gas Electric Co

Mailing Address: PO Box 398

City: Maxwell

State: CA

Zip: 95955

Contact Person: Joshua Harris

Phone: 530-934-9086

Email: joshua.harris@pge.com

C. Facility Billing Information

Business Name: Pacific Gas Electric Co

Mailing Address: PO Box 398

City: Maxwell

State: CA

Zip: 95955

Contact Person: Joshua Harris

Phone: 530-934-9086

Email: joshua.harris@pge.com

Question Information

1. Has the Discharger conducted monthly visual observations (including authorized and unauthorized Non-Storm Water Discharges and Best Management Practices) in accordance with Section XI.A.1?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

2. Has the Discharger conducted sampling event visual observations at each discharge location where a sample was obtained in accordance with Section XI.A.2?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

3. Did you sample the required number of Qualifying Storm Events during the reporting year for all discharge locations, in accordance with Section XI.B?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

4. How many storm water discharge locations are at your facility?

1

5. Has the Discharger chosen to select Alternative Discharge Locations in accordance with Section XI.C.3?

☐ Yes ☒ No

6. Has the Discharger reduced the number of sampling locations within a drainage area in accordance with the Representative Sampling Reduction in Section XI.C.4?

☐ Yes ☒ No

6.1. Has the Discharger reduced the frequency of sampling at the facility area in accordance with the Sample Frequency Reduction in Section XI.C.7?

☐ Yes ☒ No

7. Permitted facilities located within an impaired watershed must assess for potential pollutants that may be present in the facility's industrial storm water discharge. Using the table below, populated based on the facility's location, indicate the presence of the potential pollutant at the facility.

The facility is not located within an impaired HUC 10 watershed. You are not required to select any Industrial Pollutants. Skip Questions 8 and 9.

8. Has the Discharger included the above pollutants in the SWPPP pollutant source assessment and assessed the need for analytical monitoring for the pollutants?

☒ Yes ☐ No

If No, what date will the parameter(s) will be added to the SWPPP and Monitoring Implementation Plan?

9. Were all samples collected in accordance with Section XI.B.5?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

10. Has any contained storm water been discharged from the facility this reporting year?

☐ Yes ☒ No

If Yes, see Attachment 1, Summary of Explanation.

11. Has the Discharger conducted one (1) annual evaluation during the reporting year as required in Section XV?

☒ Yes ☐ No

If Yes, what date was the annual evaluation conducted? 06/04/2024

If No, see Attachment 1, Summary of Explanation.

12. Has the Discharger maintained records on-site for the reporting year in accordance with XXI.J.3?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

If your facility is subject to Effluent Limitation Guidelines in Attachment F of the Industrial General Permit, include your specific requirements as an attachment to the Annual Report (attach as file type: Supporting Documentation).

ANNUAL REPORT CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel propoerly gether and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Joshua Harris

Title: Plant Manager Date: 07/02/2024

2023-2024

Annual Report for WDID 5S06I022929

Summary of Explanations

Explanation Question	Explanation Text

Summary of Attachments

Attachment Type	Attachment Title	Description	Date Uploaded	Part Number	Attachment Hash
Cover/Explanation Letter	ELG Steam Electric Power Generation Facility Applicability		06/20/2024	null/null	5e41a6ac6d59c63e2ca43a8eccb9e3ebc8b66453fa8a718a4d529935763960

2023-2024

Annual Report for WDID 5S06I022929

List of Identified Pollutants within the Impaired Watershed

Parameter	Pollutant	Present at Facility?

*** Does your facility storm water flow to one or more TMDL water bodies or watersheds listed in Attachment E? Not Selected**

Below is the list of NOIs/Adhoc Reports/Annual Reports/NOTs/COIs that were submitted to waterboard. Please take a print out of this page for your reference. Also, go to the respective documents certification tab to see the acknowledgement for corresponding submission. You should also receive emails for the respective submitted documents. Please verify.

Ad Hoc Reports

Event Id	WDID	Event Type	Facility Name & Address	Start Date & Time	End Date & Time
1271685	5S06I022929	Qualifying Storm Event	Colusa Generating Station 4780 Dirks Rd Maxwell CA 95955	07/01/2023 00:00	06/30/2024 00:00
1271659	5S06I022929	Qualifying Storm Event	Colusa Generating Station 4780 Dirks Rd Maxwell CA 95955	07/01/2023 00:00	06/30/2024 00:00

Certifier Name:	**Joshua Harris**
Certified Date:	**02/02/2024**

January 10, 2024

Lab No. : CH 2390716
Customer No. : 7010931

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Stormwater Discharge Point	12/18/2023	12/21/2023	CH 2390716-001	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
EPA 1664A	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 D	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-10

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 10, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2390716-001
Customer No. : 7010931

Sampled On : December 18, 2023 at 16:22
Sampled By : S. Clayton
Received On : December 21, 2023 at 14:21
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Metals, Total													
Iron	0.472	0.05	0.031	mg/L	1	h	12/27/2023	06:22	ejc	EPA 200.7	12/27/2023	15:06	ac
Wet Chemistry													
Oil and Grease	ND	3	1.7	mg/L	1	U	01/03/2024	13:30	amm	EPA 1664A	01/03/2024	20:44	amm
Solids, Total Suspended (TSS)	14.2	1	0.65	mg/L	1		12/23/2023	15:26	sta	SM 2540 D	12/28/2023	16:10	sta

DQF Flags Definition:
h The MS/MSD did not meet QC criteria.
U Constituent results were non-detect.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 10, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2390716-001
Customer No. : 7010931

Sampled On : December 18, 2023 at 16:22
Sampled By : S. Clayton
Received On : December 21, 2023 at 14:21
Matrix : Stormwater

Sample Results - Field Test

Constituent	Result	RL	Units	Note	Sample Preparation		Sample Analysis	
Field Test					Method	Date Time	Method	Date Time
pH (Field)	7.35		units			12/18/2023 16:22	4500HB	12/18/2023 16:22

ND=Non-Detected, RL=Reporting Level

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 10, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2390716
Customer No. : 7010931

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Iron	200.7	12/27/2023:214579EJC	Blank	mg/L		ND	<0.05	
			LCS	mg/L	4.000	107%	85-115	
			MS	mg/L	4.000	680%	75-125	435
		(STK2357494-002)	MSD	mg/L	4.000	719%	75-125	435
			MSRPD	mg/L		5.2%	≤20	
			MS	mg/L	4.000	670%	75-125	435
		(CC 2384631-003)	MSD	mg/L	4.000	693%	75-125	435
			MSRPD	mg/L		3.3%	≤20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 10, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2390716
Customer No. : 7010931

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Oil and Grease	1664A	01/03/2024:200061AMM	Blank	mg/L		ND	<3	
			LCS	mg/L	44.89	105%	78-114	
			MS	mg/L	42.98	100%	78-114	
		(SP 2320692-001)	MSD	mg/L	42.98	96.0%	78-114	
			MSRPD	mg/L		4.5%	≤18	
Solids, Suspended	2540D	12/23/2023:214470STA	LCS	mg/L	50.00	90.0%	60-109	
			LCS	mg/L	50.00	102%	60-109	
		(CC 2384549-001)	Dup	mg/L		6.44%	20	
		(CC 2384547-001)	Dup	mg/L		0%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

Page 5 of 5

2390716

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): _____
2. Temp IR Gun ID #: 192624494
3. Were samples received on ice? (Yes) No Temps: 7.0 / ____ / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
6.	VOAs checked for Headspace?	Yes	No	(N/A)
7.	Were all analyses within holding times at time of receipt?	(Yes)	No	
8.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): SeS

Sample Receipt at SP:

1. Number of ice chests/packages received: 2 Shipping tracking #(s): 560684869
2. Temp IR Gun ID #: 2169
3. Were samples received on ice? (Yes) No Temps: 1 / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	CDA (Yes)	(No)		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	(N/A)	FGL
4.	VOAs checked for Headspace?	Yes	No	(N/A)	
5.	Have rush or project due dates been checked and accepted?	Yes	No	(N/A)	
6.	Were all analyses within holding times at time of receipt?	(Yes)	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): CDA

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: N/A Phone Number: _____
   Initiated By: CDA Date: _____
   Problem: TSS in 32 oz
   Resolution: Cannot resample due to rain event sample
2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____
   Problem:
   Resolution:

(Please use the back of this sheet for additional comments

(7010931)
Pacific Gas & Electric – Colusa Generating
CH 2390716
iv 12/22/2023 06:31:16
CH 2390716

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

Annual

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

74907:11/01/2022

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Pacific Gas & Electric-Colusa Generating**
Address: P.O. Box 398
Maxwell, CA 95955

Phone: (530)934-9007 Fax: (530)934-9024
Contact Person: Anthony Gomez
Project Name: **CPGS - Storm Event #____**
Purchase Order Number:
Quote Number:

Sampler(s)
S. C LAYTON

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **CH 2390716** 7-10931

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Field Test-Field pH !!pH = 15 MINUTE HOLD TIME!!	Field - pH Date	Field - pH Time	Metals, Total-Fe 250ml(P)-HNO3	Wet Chemistry-Oil&Grease-1664 32oz(AGJ)-H2SO4	Wet Chemistry-TSS 32oz(P)				
1	Stormwater Discharge Point	12/18/23	1622	G	STM				7.35	12/18/23	1622	1	1	1				

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
S.CLAYTON	18DEC	1630		12/21/23	1421	GLS	12/22/23	1125
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
	12/18/23	1240	GLS	12/21/23	1421	CDA	1	1

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Calibration of Hydrogen Ion Activity (pH)

Instrument

Make/Model MYRON L ULTRAMETER II 6PSI

Serial # 6201578

Standards: Specify the types of standards used for calibration, the origin of the standards, the value and expiration of the standards, and the date the standards were opened.

	pH	Brand	Expiration Date	Type	Date Opened
Standard A	4.00	HACH	OCT 26	A	
Standard B	7.00	HACH	OCT 24	B	
Standard C	10.00	HACH	OCT 24	C	

Date	Time	Standard (A,B,C)	Standard Value	Instrument Response	Calibrated (Yes / No)	Temp of Standard (F)	Sampler Initials	Comments
18DEC23	1616	A	4	4.03	Y	65	SC	
18DEC23	1617	B	7	7.0	Y	65	SC	
18DEC23	1617	C	10	10.03	Y	65	SC	

Field Measurement of Hydrogen Ion Activity (pH)

Instrument

Make/Model # MYRON L ULTRAMETER II 6PSI

Serial # 6201578

Calibration: *Ensure the instrument has been calibrated before sample analysis proceeds.*

Sample ID	Sample Date	Sample Time (hr:min)	Analysis Date	Analysis within 15 min of sample? Yes, No	Instrument Response	Temp (°C)	Sampler Initials	Comments
	18 DEC 2023	1622	18 DEC 2023	Y	7.35	50	SC	

January 11, 2024

Lab No. : CH 2390899
Customer No. : 7010931

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Stormwater Discharge Point	12/27/2023	12/28/2023	CH 2390899-001	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
EPA 1664A	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 D	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: MKH

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-11

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 11, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2390899-001
Customer No. : 7010931

Sampled On : December 27, 2023 at 15:11
Sampled By : TJ Gomez
Received On : December 28, 2023 at 13:15
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Metals, Total													
Iron	0.257	0.05	0.031	mg/L	1	h	01/02/2024	05:45	ejc	EPA 200.7	01/04/2024	15:50	ac
Wet Chemistry													
Oil and Grease	ND	3	1.7	mg/L	1	U	01/10/2024	14:55	amm	EPA 1664A	01/10/2024	19:45	amm
Solids, Total Suspended (TSS)	9.56	1	0.61	mg/L	1		01/03/2024	07:01	sta	SM 2540 D	01/08/2024	16:52	sta

DQF Flags Definition:
h The MS/MSD did not meet QC criteria.
U Constituent results were non-detect.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 11, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2390899-001
Customer No. : 7010931

Sampled On : December 27, 2023 at 15:11
Sampled By : TJ Gomez
Received On : December 28, 2023 at 13:15
Matrix : Stormwater

Sample Results - Field Test

Constituent	Result	RL	Units	Note	Sample Preparation		Sample Analysis	
Field Test					Method	Date Time	Method	Date Time
pH (Field)	7.65		units			12/27/2023 15:11	4500HB	12/27/2023 15:11

ND=Non-Detected, RL=Reporting Level

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 11, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2390899
Customer No. : 7010931

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Iron	200.7	01/02/2024:200032EJC	Blank	mg/L		ND	<0.05	
			LCS	mg/L	4.000	102%	85-115	
			MS	mg/L	4.000	98.3%	75-125	
		(CH 2390850-001)	MSD	mg/L	4.000	101%	75-125	
			MSRPD	mg/L		1.6%	≤20	
			MS	mg/L	4.000	118%	75-125	
		(CH 2390849-002)	MSD	mg/L	4.000	140%	75-125	435
			MSRPD	mg/L		10.3%	≤20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 11, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2390899
Customer No. : 7010931

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Oil and Grease	1664A	01/10/2024:200329AMM	Blank	mg/L		ND	<3	
			LCS	mg/L	44.89	105%	78-114	
			BS	mg/L	44.89	94.8%	78-114	
			BSD	mg/L	44.89	96.8%	78-114	
			BSRPD	mg/L		2.1%	≤18	
Solids, Suspended	2540D	01/03/2024:200073STA	LCS	mg/L	50.00	92.0%	60-109	
			LCS	mg/L	50.00	84.0%	60-109	
		(VI 2348832-001)	Dup	mg/L		3.39%	20	
		(SP 2321081-002)	Dup	mg/L		3.08%	20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.

BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.

BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

Page 5 of 5

2390899

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC (CH) STK VI

1. Number of ice chests/packages received: OTC Shipping tracking #(s):_____

2. Temp IR Gun ID #: 1 chico
3. Were samples received on ice? (Yes) No Temps: 4.3°C ____ / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
6.	VOAs checked for Headspace?	Yes	No	(N/A)
7.	Were all analyses within holding times at time of receipt?	(Yes)	No	
8.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): MDC

Sample Receipt at SP:

1. Number of ice chests/packages received: 2 Shipping tracking #(s): 6405110767 6

2. Temp IR Gun ID #: TH260
3. Were samples received on ice? (Yes) No Temps: 3c / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	(Yes)	No		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	(Yes)	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	(N/A)	
5.	Have rush or project due dates been checked and accepted?	Yes	No	(N/A)	
6.	Were all analyses within holding times at time of receipt?	(Yes)	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): JAW

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:
   Resolution:

2. Person Contacted:_____ Phone Number:_____
   Initiated By:_____
   Problem:
   Resolution:

(Please use the back of this sheet for additional comments or contac

(7010931)
Pacific Gas & Electric – Colusa Generating
CH 2390899
jaw 12/28/2023 17:30:25
CH 2390899

ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

www.fglinc.com

CHAIN OF CUSTODY
AND ANALYSIS REQUEST DOCUMENT

Client: Pacific Gas and Electric - Colusa Generating
Customer Number: 7-10931
Address: 4780 Dirks Rd
Maxwell CA 95955

Phone: 530-934-9007 Fax: 530-934-9024
Email Address: ajgu@pge.com
Contact Person: TJ Gomez
Project Name: QSE #2
Purchase Order Number:
Quote Number:

Rush Analysis: ☑ 5 Day ☐ 4 Day ☐ 3 Day ☐ 2 Day ☐ 24 hour
Rush pre-approval by lab (initals): _____
Electronic Data Transfer: ☐ No ☐ State ☐ Client Other: _____

Sampler(s): TJ Gomez

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: _____ Time: _____

Lab Number: 2390899

TEST DESCRIPTION AND ANALYSES REQUESTED

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite (C) Grab (G)	Number of Containers	Type of Containers: (G)Glass (P)Plastic (V)VOA (MT)Metal Tube	Potable (P) Non-Potable (NP) Ag Water (AgW)	(SW) Surface Water (MW) Monitoring Well (GW) Ground Water (TB) Travel Blank (WW) Waste Water (DW) Drinking Water	(S) Soil (SLG) Sludge (SLD) Solid (O) Oil	BacT: (Sys) System (SRC) Source (W) Waste	BacT: (ROUT)Routine (RPT)Repeat (OTH)Other (RPL)Replace	(LT) Leaf Tissue (PET) Petiole Tissue (PRD) Produce	Preservative: (1) NaOH + ZnAc, (2) NaOH, (3) HCl (4) H2SO4, (5) HNO3, (6) Na2S2O3, (7) Other_____	Metals - Total-Fe	Wet Chemistry - Oil & Grease - 1664	Wet Chemistry - TSS	Field Test pH	Field pH Date									
1	Stormwater Discharge Point	12/27/2023	1511	G	3	P	P	SW					4,5	1	1	1	7.65	12/[illegible]										

Remarks

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	12/28	1315	[signature]	12-28	1700	GLS	12/29/23	1040
Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
[signature]	12/28	[illegible]	GLS	[illegible]	[illegible]	[signature]	[illegible]	[illegible]

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No.1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

Calibration of Hydrogen Ion Activity (pH)

Instrument

Make/Model ULTRAMETER II

Serial # 6201578

Standards: Specify the types of standards used for calibration, the origin of the standards, the value and expiration of the standards, and the date the standards were opened.

	pH	Brand	Expiration Date	Type	Date Opened
Standard A	4.00	HACH	10/26	A	
Standard B	7.00	HACH	10/24	B	
Standard C	10.00	HACH	1/24	C	

Date	Time	Standard (A,B,C)	Standard Value	Instrument Response	Calibrated (Yes / No)	Temp of Standard (F)	Sampler Initials	Comments
12-27-23	1500	A	4	4.02	YES	68	JM	
12-27-23	1501	B	7	7.01	YES	68	JM	
12-27-23	1502	C	10	10.04	YES	68	JM	

Field Measurement of Hydrogen Ion Activity (pH)

Instrument

Make/Model # ULTRAMETER II

Serial # 6201578

Calibration: *Ensure the instrument has been calibrated before sample analysis proceeds.*

Sample ID	Sample Date	Sample Time (hr:min)	Analysis Date	Analysis within 15 min of sample? Yes, No	Instrument Response	Temp (°C)	Sampler Initials	Comments
	12/27/23	1511	12/27	Y	7.65	56F	YY	

January 31, 2024

Lab No. : CH 2470148
Customer No. : 7010931

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Stormwater Discharge Point	01/03/2024	01/04/2024	CH 2470148-001	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
EPA 1664A	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 D	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Discussion of Analytical Results:

Amended Note - 01-31-24 - Amended, per client request, to change date sampled.

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-31

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 31, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2470148-001
Customer No. : 7010931

Sampled On : January 3, 2024 at 09:15
Sampled By : TJ Gomez
Received On : January 4, 2024 at 15:10
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Metals, Total							Date	Time	Who	Method	Date	Time	Who
Iron	0.358	0.05	mg/L		1		01/08/2024	07:30	ejc	EPA 200.7	01/08/2024	23:37	ac
Wet Chemistry													
Oil and Grease	ND	3	mg/L		1	U	01/22/2024	09:11	amm	EPA 1664A	01/23/2024	14:17	amm
Solids, Total Suspended (TSS)	7.03	1	mg/L		1		01/10/2024	10:08	sta	SM 2540 D	01/15/2024	13:24	sta

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 31, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2470148-001
Customer No. : 7010931

Sampled On : January 3, 2024 at 09:15
Sampled By : TJ Gomez
Received On : January 4, 2024 at 15:10
Matrix : Stormwater

Sample Results - Field Test

Constituent	Result	RL	Units	Note	Sample Preparation	Sample Analysis	
Field Test					Date	Method	Date
pH (Field)	7.2		units		01/03/2024 09:15	4500HB	01/03/2024 09:15

ND=Non-Detected, RL=Reporting Level.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 31, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2470148
Customer No. : 7010931

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Iron	200.7	01/08/2024:200227EJC	Blank	mg/L		ND	<0.05	
			LCS	mg/L	4.000	104%	85-115	
			MS	mg/L	4.000	108%	75-125	
		(CC 2480106-001)	MSD	mg/L	4.000	110%	75-125	
			MSRPD	mg/L		2.4%	≤20	
			MS	mg/L	4.000	113%	75-125	
		(STK2430124-002)	MSD	mg/L	4.000	108%	75-125	
			MSRPD	mg/L		4.0%	≤20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

January 31, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2470148
Customer No. : 7010931

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Oil and Grease	1664A	01/22/2024:200788AMM	Blank	mg/L		ND	<3	
			LCS	mg/L	44.89	95.5%	78-114	
			BS	mg/L	44.89	91.4%	78-114	
			BSD	mg/L	44.89	93.4%	78-114	
			BSRPD	mg/L		2.1%	≤18	
Solids, Suspended	2540D	01/10/2024:200346STA	LCS	mg/L	50.00	90.0%	60-109	
			LCS	mg/L	50.00	82.0%	60-109	
		(SP 2400205-002)	Dup	mg/L		2.67%	20	
		(VI 2440120-001)	Dup	mg/L		3.62%	20	

Definition

Blank	:	Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
BS	:	Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD	:	Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSRPD	:	BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
Dup	:	Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS	:	Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

Annual

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

74907:11/01/2023

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Pacific Gas & Electric-Colusa Generating**
Address: P.O. Box 398
Maxwell, CA 95955

Phone: (530)934-9007 Fax: (530)934-9024
Contact Person: Anthony Gomez
Project Name: **CPGS - Storm Event # 3**
Purchase Order Number:
Quote Number:

Sampler(s)
TJ Gomez

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **CH** 2470148 7-10931

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Field Test-Field pH !!pH = 15 MINUTE HOLD TIME!!	Field - pH Date	Field - pH Time	Metals, Total-Fe 250ml(P)-HNO3	Wet Chemistry-Oil&Grease-1664 32oz(AGJ)-H2SO4	Wet Chemistry-TSS 32oz(P)
1	Stormwater Discharge Point	1/3/23	0915	G	STM				7.2	1/3	0915	1	1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	1/4/23	1500	[signature]	1-4-24	1700	GLS	1/5/24	1158
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
[signature]			GLS			[signature]		

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

2470148

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC (CH) STK VI

1. Number of ice chests/packages received: 0TC Shipping tracking #(s): _____
2. Temp IR Gun ID #: Ichiro
3. Were samples received on ice? (Yes) No Temps: 3.3°C ____ / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	
6.	VOAs checked for Headspace?	Yes	No	(N/A)
7.	Were all analyses within holding times at time of receipt?	(Yes)	No	
8.	Verify sample date, time and sampler name	(Yes)	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): KPD

Sample Receipt at SP:

1. Number of ice chests/packages received: 1 Shipping tracking #(s): 560738882
2. Temp IR Gun ID #: TH2161
3. Were samples received on ice? (Yes) No Temps: 2.1 ____ / ____ / ____ / ____
   Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4.	Do the number of bottles received agree with the COC?	(Yes)	No	N/A
5.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	(Yes)	No	

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	(Yes)	No		
2.	Did bottle labels correspond with the client's ID's?	(Yes)	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	(Yes)	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	(N/A)	
5.	Have rush or project due dates been checked and accepted?	Yes	No	(N/A)	
6.	Were all analyses within holding times at time of receipt?	(Yes)	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDL

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: Heidi O Phone Number: _____
   Initiated By: MDC Date: _____
   Problem: TSS received in 32oz, not 1000ml
   Resolution: Enough volume to proceed. Client notified.
2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

(Please use the back of this sheet for additional comments or cont

(7010931)
Pacific Gas & Electric – Colusa Generating
CH 2470148
iv 01/05/2024 07:48:15
CH 2470148

February 5, 2024

Lab No. : CH 2470148
Customer No. : 7010931

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Stormwater Discharge Point	01/03/2024	01/04/2024	CH 2470148-001	STM

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
EPA 1664A	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 D	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Discussion of Analytical Results:

Amended Note - 02-05-24 - Amended, per client request, to include MDL.

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-02-05

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

February 5, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2470148-001
Customer No. : 7010931

Sampled On : January 3, 2024 at 09:15
Sampled By : TJ Gomez
Received On : January 4, 2024 at 15:10
Matrix : Stormwater

Sample Results - Inorganic

Constituent	Result	RL	MDL	Units	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Metals, Total													
Iron	0.358	0.05	0.031	mg/L	1		01/08/2024	07:30	ejc	EPA 200.7	01/08/2024	23:37	ac
Wet Chemistry													
Oil and Grease	ND	3	1.7	mg/L	1	U	01/22/2024	09:11	amm	EPA 1664A	01/23/2024	14:17	amm
Solids, Total Suspended (TSS)	7.03	1	0.60	mg/L	1		01/10/2024	10:08	sta	SM 2540 D	01/15/2024	13:24	sta

DQF Flags Definition:
U Constituent results were non-detect.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

February 5, 2024

Pacific Gas & Electric-Colusa Generating
P.O. Box 398
Maxwell, CA 95955

Description : Stormwater Discharge Point
Project : Colusa Power Generating Station
WDID# 5S06I022929

Lab No. : CH 2470148-001
Customer No. : 7010931

Sampled On : January 3, 2024 at 09:15
Sampled By : TJ Gomez
Received On : January 4, 2024 at 15:10
Matrix : Stormwater

Sample Results - Field Test

Constituent	Result	RL	Units	Note	Sample Preparation		Sample Analysis	
Field Test					Method	Date Time	Method	Date Time
pH (Field)	7.2		units			01/03/2024 09:15	4500HB	01/03/2024 09:15

ND=Non-Detected, RL=Reporting Level

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

February 5, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2470148
Customer No. : 7010931

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Iron	200.7	01/08/2024:200227EJC	Blank	mg/L		ND	<0.05	
			LCS	mg/L	4.000	104%	85-115	
			MS	mg/L	4.000	108%	75-125	
		(CC 2480106-001)	MSD	mg/L	4.000	110%	75-125	
			MSRPD	mg/L		2.4%	≤20	
			MS	mg/L	4.000	113%	75-125	
		(STK2430124-002)	MSD	mg/L	4.000	108%	75-125	
			MSRPD	mg/L		4.0%	≤20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

February 5, 2024

Pacific Gas & Electric-Colusa Generating

Lab No. : CH 2470148
Customer No. : 7010931

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Oil and Grease	1664A	01/22/2024:200788AMM	Blank	mg/L		ND	<3	
			LCS	mg/L	44.89	95.5%	78-114	
			BS	mg/L	44.89	91.4%	78-114	
			BSD	mg/L	44.89	93.4%	78-114	
			BSRPD	mg/L		2.1%	≤18	
Solids, Suspended	2540D	01/10/2024:200346STA	LCS	mg/L	50.00	90.0%	60-109	
			LCS	mg/L	50.00	82.0%	60-109	
		(SP 2400205-002)	Dup	mg/L		2.67%	20	
		(VI 2440120-001)	Dup	mg/L		3.62%	20	

Definition

Blank	:	Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
BS	:	Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD	:	Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSRPD	:	BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
Dup	:	Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS	:	Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

Annual

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 2)

74907:11/01/2023

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: **Pacific Gas & Electric-Colusa Generating**
Address: P.O. Box 398
Maxwell, CA 95955

Phone: (530)934-9007 Fax: (530)934-9024
Contact Person: Anthony Gomez
Project Name: **CPGS - Storm Event # 3**
Purchase Order Number:
Quote Number:

Sampler(s)
TJ Gomez

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **CH** 2470148 7-10931

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Field Test-Field pH !!pH = 15 MINUTE HOLD TIME!!	Field - pH Date	Field - pH Time	Metals, Total-Fe 250ml(P)-HNO3	Wet Chemistry-Oil&Grease-1664 32oz(AGJ)-H2SO4	Wet Chemistry-TSS 32oz(P)
1	Stormwater Discharge Point	1/3/23	0915	G	STM				7.2	1/3	0915	1	1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	1/4/23	1500	[signature]	1-4-24	1700	GLS	1/5/24	1158
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
[signature]			GLS			[signature]		

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Phone: (805) 783-2940
Fax: (805) 783-2912

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

Pacific Gas and Electric Company®

Appendix 5, SOIL & WATER-7

Per Soil & Water 7 the following is required:" the project owner shall submit any related monitoring required by the agreement to the CPM in the annual compliance report. The project owner shall submit any notice if violations from the Glenn Colusa Irrigation District to the CPM within 10 days of receipt and fully explain the corrective actions taken in the next annual compliance report."

There is no reporting or monitoring requirement in the water agreement with the Glenn Colusa Irrigation District.

No notice of violations issued by GCID in the 2024 year.

Pacific Gas and Electric Company®

Appendix 6, SOIL & WATER-8

Pacific Gas and Electric Company®

Appendix 6, SOIL & WATER-8

All water used during 2024 was supplied by the Glenn Colusa Irrigation District. The total amount of water used during 2024 was 21,902,216 gallons.

Date	Totalized Value	Gallons/Day	Gallons Cumulative Total
31-Dec-23 00:00:00	149613808	0	0
01-Jan-24 00:00:00	149613808	0	0
02-Jan-24 00:00:00	149669968	56160	56160
03-Jan-24 00:00:00	149762560	92592	148752
04-Jan-24 00:00:00	149775728	13168	161920
05-Jan-24 00:00:00	149964032	1	161921
06-Jan-24 00:00:00	150071472	107440	269361
07-Jan-24 00:00:00	150188640	117168	386529
08-Jan-24 00:00:00	150188640	0	386529
09-Jan-24 00:00:00	150225440	36800	423329
10-Jan-24 00:00:00	150225440	2	423331
11-Jan-24 00:00:00	150273840	48400	471731
12-Jan-24 00:00:00	150273840	0	471731
13-Jan-24 00:00:00	150299968	26128	497859
14-Jan-24 00:00:00	150299968	0	497859
15-Jan-24 00:00:00	150377232	3	497862
16-Jan-24 00:00:00	150435152	57920	555782
17-Jan-24 00:00:00	150478688	43536	599318
18-Jan-24 00:00:00	150479712	1024	600342
19-Jan-24 00:00:00	150521456	41744	642086
20-Jan-24 00:00:00	150540864	4	642090
21-Jan-24 00:00:00	150540896	32	642122
22-Jan-24 00:00:00	150540896	0	642122
23-Jan-24 00:00:00	150540896	0	642122
24-Jan-24 00:00:00	150542832	1936	644058
25-Jan-24 00:00:00	150547584	5	644063
26-Jan-24 00:00:00	150561296	13712	657775
27-Jan-24 00:00:00	150565600	4304	662079
28-Jan-24 00:00:00	150568800	3200	665279
29-Jan-24 00:00:00	150571440	2640	667919
30-Jan-24 00:00:00	150585424	6	667925
31-Jan-24 00:00:00	150606368	20944	688869
01-Feb-24 00:00:00	150632784	26416	715285
02-Feb-24 00:00:00	150651200	18416	733701
03-Feb-24 00:00:00	150693168	7	733708
04-Feb-24 00:00:00	150743856	50688	784396
05-Feb-24 00:00:00	150811760	67904	852300
06-Feb-24 00:00:00	150816800	5040	857340
07-Feb-24 00:00:00	150821472	8	857348
08-Feb-24 00:00:00	150827568	6096	863444
09-Feb-24 00:00:00	150845968	18400	881844
10-Feb-24 00:00:00	150849856	3888	885732
11-Feb-24 00:00:00	150854784	9	885741

12-Feb-24 00:00:00	150861952	7168	892909
13-Feb-24 00:00:00	150895584	33632	926541
14-Feb-24 00:00:00	150924912	29328	955869
15-Feb-24 00:00:00	150929984	10	955879
16-Feb-24 00:00:00	150935616	5632	961511
17-Feb-24 00:00:00	150941440	5824	967335
18-Feb-24 00:00:00	150966832	25392	992727
19-Feb-24 00:00:00	150984592	11	992738
20-Feb-24 00:00:00	150991200	6608	999346
21-Feb-24 00:00:00	150994960	3760	1003106
22-Feb-24 00:00:00	151000736	5776	1008882
23-Feb-24 00:00:00	151011904	12	1008894
24-Feb-24 00:00:00	151027312	15408	1024302
25-Feb-24 00:00:00	151086784	59472	1083774
26-Feb-24 00:00:00	151135488	48704	1132478
27-Feb-24 00:00:00	151221344	13	1132491
28-Feb-24 00:00:00	151254320	32976	1165467
29-Feb-24 00:00:00	151317376	63056	1228523
01-Mar-24 00:00:00	151317808	432	1228955
02-Mar-24 00:00:00	151385184	14	1228969
03-Mar-24 00:00:00	151469152	83968	1312937
04-Mar-24 00:00:00	151473248	4096	1317033
05-Mar-24 00:00:00	151513280	40032	1357065
06-Mar-24 00:00:00	151518944	15	1357080
07-Mar-24 00:00:00	151519616	672	1357752
08-Mar-24 00:00:00	151527888	8272	1366024
09-Mar-24 00:00:00	151553696	25808	1391832
10-Mar-24 00:00:00	151594400	16	1391848
11-Mar-24 00:00:00	151602544	8144	1399992
12-Mar-24 00:00:00	151602544	0	1399992
13-Mar-24 00:00:00	151602544	0	1399992
14-Mar-24 00:00:00	151602544	17	1400009
15-Mar-24 00:00:00	151602544	0	1400009
16-Mar-24 00:00:00	151602544	0	1400009
17-Mar-24 00:00:00	151602544	0	1400009
18-Mar-24 00:00:00	151602544	18	1400027
19-Mar-24 00:00:00	151602544	0	1400027
20-Mar-24 00:00:00	151602544	0	1400027
21-Mar-24 00:00:00	151602544	0	1400027
22-Mar-24 00:00:00	151838944	19	1400046
23-Mar-24 00:00:00	151838944	0	1400046
24-Mar-24 00:00:00	151838944	0	1400046
25-Mar-24 00:00:00	151842112	3168	1403214
26-Mar-24 00:00:00	151856032	20	1403234
27-Mar-24 00:00:00	151856032	0	1403234
28-Mar-24 00:00:00	151939648	83616	1486850
29-Mar-24 00:00:00	152058192	118544	1605394

30-Mar-24 00:00:00	152067024	21	1605415
31-Mar-24 00:00:00	152113824	46800	1652215
01-Apr-24 00:00:00	152115600	1776	1653991
02-Apr-24 00:00:00	152115664	22	1654013
03-Apr-24 00:00:00	152117776	2112	1656125
04-Apr-24 00:00:00	152118464	688	1656813
05-Apr-24 00:00:00	152120848	23	1656836
06-Apr-24 00:00:00	152121760	912	1657748
07-Apr-24 00:00:00	152122192	432	1658180
08-Apr-24 00:00:00	152123936	24	1658204
09-Apr-24 00:00:00	152126192	2256	1660460
10-Apr-24 00:00:00	152127728	1536	1661996
11-Apr-24 00:00:00	152153168	25	1662021
12-Apr-24 00:00:00	152186672	33504	1695525
13-Apr-24 00:00:00	152186816	144	1695669
14-Apr-24 00:00:00	152189008	26	1695695
15-Apr-24 00:00:00	152190688	1680	1697375
16-Apr-24 00:00:00	152191600	912	1698287
17-Apr-24 00:00:00	152193328	27	1698314
18-Apr-24 00:00:00	152194480	1152	1699466
19-Apr-24 00:00:00	152195520	1040	1700506
20-Apr-24 00:00:00	152284144	28	1700534
21-Apr-24 00:00:00	152365024	80880	1781414
22-Apr-24 00:00:00	152440000	74976	1856390
23-Apr-24 00:00:00	152442320	29	1856419
24-Apr-24 00:00:00	152461232	18912	1875331
25-Apr-24 00:00:00	152463360	2128	1877459
26-Apr-24 00:00:00	152463360	30	1877489
27-Apr-24 00:00:00	152465296	1936	1879425
28-Apr-24 00:00:00	152466448	1152	1880577
29-Apr-24 00:00:00	152467776	31	1880608
30-Apr-24 00:00:00	152468736	960	1881568
01-May-24 00:00:00	152496752	28016	1909584
02-May-24 00:00:00	152510224	32	1909616
03-May-24 00:00:00	152512512	2288	1911904
04-May-24 00:00:00	152513296	784	1912688
05-May-24 00:00:00	152514368	33	1912721
06-May-24 00:00:00	152515472	1104	1913825
07-May-24 00:00:00	152534688	19216	1933041
08-May-24 00:00:00	152640912	34	1933075
09-May-24 00:00:00	152816464	175552	2108627
10-May-24 00:00:00	152966176	149712	2258339
11-May-24 00:00:00	153046800	35	2258374
12-May-24 00:00:00	153084224	37424	2295798
13-May-24 00:00:00	153113424	29200	2324998
14-May-24 00:00:00	153115504	36	2325034
15-May-24 00:00:00	153123136	7632	2332666

16-May-24 00:00:00	153165616	42480	2375146
17-May-24 00:00:00	153195040	37	2375183
18-May-24 00:00:00	153224144	29104	2404287
19-May-24 00:00:00	153225760	1616	2405903
20-May-24 00:00:00	153226912	38	2405941
21-May-24 00:00:00	153226912	0	2405941
22-May-24 00:00:00	153227808	896	2406837
23-May-24 00:00:00	153284320	39	2406876
24-May-24 00:00:00	153392608	108288	2515164
25-May-24 00:00:00	153501136	108528	2623692
26-May-24 00:00:00	153524720	40	2623732
27-May-24 00:00:00	153529216	4496	2628228
28-May-24 00:00:00	153553456	24240	2652468
29-May-24 00:00:00	153554800	41	2652509
30-May-24 00:00:00	153597280	42480	2694989
31-May-24 00:00:00	153717680	120400	2815389
01-Jun-24 00:00:00	153845728	128048	2943437
02-Jun-24 00:00:00	153996032	42	2943479
03-Jun-24 00:00:00	154050448	54416	2997895
04-Jun-24 00:00:00	154081376	30928	3028823
05-Jun-24 00:00:00	154217184	135808	3164631
06-Jun-24 00:00:00	154357600	43	3164674
07-Jun-24 00:00:00	154514240	156640	3321314
08-Jun-24 00:00:00	154536016	21776	3343090
09-Jun-24 00:00:00	154556640	20624	3363714
10-Jun-24 00:00:00	154613328	44	3363758
11-Jun-24 00:00:00	154672848	59520	3423278
12-Jun-24 00:00:00	154825312	152464	3575742
13-Jun-24 00:00:00	154942368	117056	3692798
14-Jun-24 00:00:00	155012352	45	3692843
15-Jun-24 00:00:00	155027568	15216	3708059
16-Jun-24 00:00:00	155028000	432	3708491
17-Jun-24 00:00:00	155038976	10976	3719467
18-Jun-24 00:00:00	155039312	46	3719513
19-Jun-24 00:00:00	155127872	88560	3808073
20-Jun-24 00:00:00	155176976	49104	3857177
21-Jun-24 00:00:00	155247616	70640	3927817
22-Jun-24 00:00:00	155376176	47	3927864
23-Jun-24 00:00:00	155488112	111936	4039800
24-Jun-24 00:00:00	155550080	61968	4101768
25-Jun-24 00:00:00	155689760	139680	4241448
26-Jun-24 00:00:00	155896816	48	4241496
27-Jun-24 00:00:00	156006928	110112	4351608
28-Jun-24 00:00:00	156038496	31568	4383176
29-Jun-24 00:00:00	156107888	69392	4452568
30-Jun-24 00:00:00	156275744	167856	4620424
01-Jul-24 00:00:00	156429264	153520	4773944

02-Jul-24 00:00:00	156458896	29632	4803576
03-Jul-24 00:00:00	156458896	0	4803576
04-Jul-24 00:00:00	156458896	0	4803576
05-Jul-24 00:00:00	157124880	665984	5469560
06-Jul-24 00:00:00	Bad Input	99056	5568616
07-Jul-24 00:00:00	Bad Input		5568616
08-Jul-24 00:00:00	Bad Input		5568616
09-Jul-24 00:00:00	Bad Input		5568616
10-Jul-24 00:00:00	Bad Input		5568616
11-Jul-24 00:00:00	Bad Input		5568616
12-Jul-24 00:00:00	Bad Input		5568616
13-Jul-24 00:00:00	Bad Input		5568616
14-Jul-24 00:00:00	Bad Input		5568616
15-Jul-24 00:00:00	Bad Input		5568616
16-Jul-24 00:00:00	Bad Input		5568616
17-Jul-24 00:00:00	Bad Input		5568616
18-Jul-24 00:00:00	Bad Input		5568616
19-Jul-24 00:00:00	Bad Input		5568616
20-Jul-24 00:00:00	Bad Input		5568616
21-Jul-24 00:00:00	Bad Input		5568616
22-Jul-24 00:00:00	Bad Input		5568616
23-Jul-24 00:00:00	Bad Input		5568616
24-Jul-24 00:00:00	Bad Input		5568616
25-Jul-24 00:00:00	Bad Input		5568616
26-Jul-24 00:00:00	Bad Input		5568616
27-Jul-24 00:00:00	Bad Input		5568616
28-Jul-24 00:00:00	Bad Input		5568616
29-Jul-24 00:00:00	Bad Input		5568616
30-Jul-24 00:00:00	Bad Input		5568616
31-Jul-24 00:00:00	Bad Input	4135888	9704504
01-Aug-24 00:00:00	Bad Input		9704504
02-Aug-24 00:00:00	Bad Input		9704504
03-Aug-24 00:00:00	Bad Input		9704504
04-Aug-24 00:00:00	Bad Input		9704504
05-Aug-24 00:00:00	Bad Input		9704504
06-Aug-24 00:00:00	Bad Input		9704504
07-Aug-24 00:00:00	Bad Input		9704504
08-Aug-24 00:00:00	Bad Input		9704504
09-Aug-24 00:00:00	Bad Input		9704504
10-Aug-24 00:00:00	Bad Input		9704504
11-Aug-24 00:00:00	Bad Input		9704504
12-Aug-24 00:00:00	Bad Input		9704504
13-Aug-24 00:00:00	Bad Input		9704504
14-Aug-24 00:00:00	Bad Input		9704504
15-Aug-24 00:00:00	Bad Input		9704504
16-Aug-24 00:00:00	Bad Input		9704504
17-Aug-24 00:00:00	Bad Input		9704504

18-Aug-24 00:00:00	Bad Input		9704504
19-Aug-24 00:00:00	Bad Input		9704504
20-Aug-24 00:00:00	Bad Input		9704504
21-Aug-24 00:00:00	Bad Input		9704504
22-Aug-24 00:00:00	Bad Input		9704504
23-Aug-24 00:00:00	Bad Input		9704504
24-Aug-24 00:00:00	Bad Input		9704504
25-Aug-24 00:00:00	Bad Input		9704504
26-Aug-24 00:00:00	Bad Input		9704504
27-Aug-24 00:00:00	Bad Input		9704504
28-Aug-24 00:00:00	Bad Input		9704504
29-Aug-24 00:00:00	Bad Input		9704504
30-Aug-24 00:00:00	Bad Input		9704504
31-Aug-24 00:00:00	Bad Input	4056032	13760536
01-Sep-24 00:00:00	Bad Input		13760536
02-Sep-24 00:00:00	Bad Input		13760536
03-Sep-24 00:00:00	Bad Input		13760536
04-Sep-24 00:00:00	Bad Input		13760536
05-Sep-24 00:00:00	Bad Input		13760536
06-Sep-24 00:00:00	Bad Input		13760536
07-Sep-24 00:00:00	Bad Input		13760536
08-Sep-24 00:00:00	Bad Input		13760536
09-Sep-24 00:00:00	Bad Input		13760536
10-Sep-24 00:00:00	Bad Input		13760536
11-Sep-24 00:00:00	Bad Input		13760536
12-Sep-24 00:00:00	Bad Input		13760536
13-Sep-24 00:00:00	Bad Input		13760536
14-Sep-24 00:00:00	Bad Input		13760536
15-Sep-24 00:00:00	Bad Input		13760536
16-Sep-24 00:00:00	Bad Input		13760536
17-Sep-24 00:00:00	Bad Input		13760536
18-Sep-24 00:00:00	Bad Input		13760536
19-Sep-24 00:00:00	Bad Input		13760536
20-Sep-24 00:00:00	Bad Input		13760536
21-Sep-24 00:00:00	Bad Input		13760536
22-Sep-24 00:00:00	Bad Input		13760536
23-Sep-24 00:00:00	Bad Input		13760536
24-Sep-24 00:00:00	Bad Input		13760536
25-Sep-24 00:00:00	168370608	2954752	16715288
26-Sep-24 00:00:00	168517696	147088	16862376
27-Sep-24 00:00:00	168568288	50592	16912968
28-Sep-24 00:00:00	168667744	99456	17012424
29-Sep-24 00:00:00	168773152	105408	17117832
30-Sep-24 00:00:00	168835680	62528	17180360
01-Oct-24 00:00:00	169072688	237008	17417368
02-Oct-24 00:00:00	169304240	231552	17648920
03-Oct-24 00:00:00	169544576	240336	17889256

04-Oct-24 00:00:00	169784208	239632	18128888
05-Oct-24 00:00:00	169892160	107952	18236840
06-Oct-24 00:00:00	170065792	173632	18410472
07-Oct-24 00:00:00	170265392	199600	18610072
08-Oct-24 00:00:00	170509904	244512	18854584
09-Oct-24 00:00:00	170703856	193952	19048536
10-Oct-24 00:00:00	170871056	167200	19215736
11-Oct-24 00:00:00	171006816	135760	19351496
12-Oct-24 00:00:00	171090544	83728	19435224
13-Oct-24 00:00:00	171141024	50480	19485704
14-Oct-24 00:00:00	171143200	2176	19487880
15-Oct-24 00:00:00	171212096	68896	19556776
16-Oct-24 00:00:00	171425808	213712	19770488
17-Oct-24 00:00:00	171437840	12032	19782520
18-Oct-24 00:00:00	171478528	40688	19823208
19-Oct-24 00:00:00	171495712	17184	19840392
20-Oct-24 00:00:00	171539952	44240	19884632
21-Oct-24 00:00:00	171541184	1232	19885864
22-Oct-24 00:00:00	171619040	77856	19963720
23-Oct-24 00:00:00	171716976	97936	20061656
24-Oct-24 00:00:00	171838016	121040	20182696
25-Oct-24 00:00:00	171976176	138160	20320856
26-Oct-24 00:00:00	172121376	145200	20466056
27-Oct-24 00:00:00	172208832	87456	20553512
28-Oct-24 00:00:00	172284720	75888	20629400
29-Oct-24 00:00:00	172314592	29872	20659272
30-Oct-24 00:00:00	172326080	11488	20670760
31-Oct-24 00:00:00	172369152	43072	20713832
01-Nov-24 00:00:00	172431264	62112	20775944
02-Nov-24 00:00:00	172447728	16464	20792408
03-Nov-24 00:00:00	172448448	720	20793128
04-Nov-24 00:00:00	172450960	2512	20795640
05-Nov-24 00:00:00	172495984	45024	20840664
06-Nov-24 00:00:00	172547328	51344	20892008
07-Nov-24 00:00:00	172588192	40864	20932872
08-Nov-24 00:00:00	172629312	41120	20973992
09-Nov-24 00:00:00	172660544	31232	21005224
10-Nov-24 00:00:00	172690208	29664	21034888
11-Nov-24 00:00:00	172704464	14256	21049144
12-Nov-24 00:00:00	172719792	15328	21064472
13-Nov-24 00:00:00	172724624	4832	21069304
14-Nov-24 00:00:00	172726560	1936	21071240
15-Nov-24 00:00:00	172727488	928	21072168
16-Nov-24 00:00:00	172729552	2064	21074232
17-Nov-24 00:00:00	172750976	21424	21095656
18-Nov-24 00:00:00	172769728	18752	21114408
19-Nov-24 00:00:00	172771408	1680	21116088

20-Nov-24 00:00:00	172771408	0	21116088
21-Nov-24 00:00:00	172771408	0	21116088
22-Nov-24 00:00:00	172858800	87392	21203480
23-Nov-24 00:00:00	172911440	52640	21256120
24-Nov-24 00:00:00	172912416	976	21257096
25-Nov-24 00:00:00	172913840	1424	21258520
26-Nov-24 00:00:00	172913840	0	21258520
27-Nov-24 00:00:00	172917008	3168	21261688
28-Nov-24 00:00:00	172917008	0	21261688
29-Nov-24 00:00:00	172939760	22752	21284440
30-Nov-24 00:00:00	172942912	3152	21287592
01-Dec-24 00:00:00	172947088	4176	21291768
02-Dec-24 00:00:00	172948848	1760	21293528
03-Dec-24 00:00:00	172948848	0	21293528
04-Dec-24 00:00:00	172968080	19232	21312760
05-Dec-24 00:00:00	172968080	0	21312760
06-Dec-24 00:00:00	172985584	17504	21330264
07-Dec-24 00:00:00	173005872	20288	21350552
08-Dec-24 00:00:00	173061328	55456	21406008
09-Dec-24 00:00:00	173061328	0	21406008
10-Dec-24 00:00:00	173108944	47616	21453624
11-Dec-24 00:00:00	173110896	1952	21455576
12-Dec-24 00:00:00	173112512	1616	21457192
13-Dec-24 00:00:00	173123408	10896	21468088
14-Dec-24 00:00:00	173152592	29184	21497272
15-Dec-24 00:00:00	173152592	0	21497272
16-Dec-24 00:00:00	173174832	22240	21519512
17-Dec-24 00:00:00	173174832	0	21519512
18-Dec-24 00:00:00	173265648	90816	21610328
19-Dec-24 00:00:00	173289312	23664	21633992
20-Dec-24 00:00:00	173302800	13488	21647480
21-Dec-24 00:00:00	173315584	12784	21660264
22-Dec-24 00:00:00	173343056	27472	21687736
23-Dec-24 00:00:00	173344976	1920	21689656
24-Dec-24 00:00:00	173347888	2912	21692568
25-Dec-24 00:00:00	173349744	1856	21694424
26-Dec-24 00:00:00	173353696	3952	21698376
27-Dec-24 00:00:00	173385904	32208	21730584
28-Dec-24 00:00:00	173470752	84848	21815432
29-Dec-24 00:00:00	173524640	53888	21869320
30-Dec-24 00:00:00	173533008	8368	21877688
31-Dec-24 00:00:00	173557536	24528	21902216

21902216

Pacific Gas and Electric Company®

Appendix 7, SOIL & WATER-9

Per Soil &Water 9, in regard to the Septic System, the following is required: "Any testing results or correspondence exchanged between the project owner and the California Department of Health Services or the Colusa County Environmental Health Division."

There is no testing required for the Septic System at the Colusa Generating Station and there was no formal correspondence with the Colusa County Department of Environmental Health. In 2012 we signed a maintenance contract with Hydrotec Solutions Inc., to provide quarterly maintenance of our septic system in accordance with our O&M manual. This company was recommended to us by the Colusa County Department of Environmental Health. They began their quarterly maintenance in the third quarter of 2012 and have continued thought the present.

Attached is their 2024 report.

PGE Colusa Generating Station

1ST QUARTER 2024

COMPLETED: **5/11/24**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

2024 PG&E Colusa Generating Station

New Control Panel

	Date	# days	STEP Tank EC	Net Cycles	ADC	ETM	Net Run Time	ADRT	HLA	HLA UP	LLA	LLA UP	OVR	OVR UP	POWER FAULT	TIMER FLOAT EVENT	TIME IN SERVICE
1st	3/27/24		888			9:52:00			9		18		1		10	179	4338:56:00
2nd																	
3rd																	
4th																	

KEY:	
ADC	Ave. Daily Cycle
EC	Event Counter
NET	Month Total

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

PIEZOMETER MEASUREMENTS

3/27/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	**2.10'**	**DRY**
Piez #2	**2.35'**	**DRY**
Piez #3	**2.10'**	**DRY**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

SCUM & SLUDGE MEASUREMENTS

3/27/24	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	6"	0"	0"	0"
SLUDGE	8"	10"	3"	2"

PGE Colusa Generating Station

2ND QUARTER 2024

COMPLETED: **6/24/24**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

2024 PG&E Colusa Generating Station

New Control Panel

	Date	# days	STEP Tank EC	Net Cycles	ADC	ETM	Net Run Time	ADRT	HLA	HLA UP	LLA	LLA UP	OVR	OVR UP	TIMER FLOAT EVENT
1st	3/27/24		888			9:52:00			9		18		1		179
2nd	6/19/24	84	1393	505	6.01	15:30:00	5:38:00	0:04:01	10	1	21	3	2	1	281
3rd															
4th															

KEY:	
ADC	Ave. Daily Cycle
EC	Event Counter
NET	Month Total

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

PIEZOMETER MEASUREMENTS

3/27/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	2.10'	DRY
Piez #2	2.35'	DRY
Piez #3	2.10'	DRY

6/19/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	**2.10'**	**DRY**
Piez #2	**2.35'**	**DRY**
Piez #3	**2.10'**	**DRY**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

SCUM & SLUDGE MEASUREMENTS

3/27/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	6"	0"	0"	0"
SLUDGE	8"	10"	3"	2"

6/19/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	0"	0"	0"	0"
SLUDGE	9"	11"	3"	4"

PGE Colusa Generating Station

3RD QUARTER 2024

COMPLETED: **10/15/24**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

2024 PG&E Colusa Generating Station

New Control Panel

	Date	# days	STEP Tank EC	Net Cycles	ADC	ETM	Net Run Time	ADRT	HLA	HLA UP	LLA	LLA UP	OVR	OVR UP	TIMER FLOAT EVENT
1st	3/27/24		888			9:52:00			9		18		1		179
2nd	6/19/24	84	1393	505	6.01	15:30:00	5:38:00	0:04:01	10	1	21	3	2	1	281
3rd	9/25/24	98	1908	515	5.26	21:14:00	5:44:00	0:03:31	10	0	21	0	2	0	373
4th															

KEY:	
ADC	Ave. Daily Cycle
EC	Event Counter
NET	Month Total

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

PIEZOMETER MEASUREMENTS

3/27/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	2.10'	DRY
Piez #2	2.35'	DRY
Piez #3	2.10'	DRY

6/19/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	2.10'	DRY
Piez #2	2.35'	DRY
Piez #3	2.10'	DRY

9/25/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1		
Piez #2		
Piez #3		

****Could not read because sponsor was busy.**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

SCUM & SLUDGE MEASUREMENTS

3/27/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	6"	0"	0"	0"
SLUDGE	8"	10"	3"	2"

6/19/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	0"	0"	0"	0"
SLUDGE	9"	11"	3"	4"

9/25/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	1"	1"	0"	0"
SLUDGE	12"	13"	7"	8"

PGE Colusa Generating Station

4TH QUARTER 2024

COMPLETED: **1/3/25**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

2024 PG&E Colusa Generating Station

New Control Panel

	Date	# days	STEP Tank EC	Net Cycles	ADC	ETM	Net Run Time	ADRT	HLA	HLA UP	LLA	LLA UP	OVR	OVR UP	TIMER FLOAT EVENT
1st	3/27/24		888			9:52:00			9		18		1		179
2nd	6/19/24	84	1393	505	6.01	15:30:00	5:38:00	0:04:01	10	1	21	3	2	1	281
3rd	9/25/24	98	1908	515	5.26	21:14:00	5:44:00	0:03:31	10	0	21	0	2	0	373
4th	12/17/24	83	2757	849	10.23	30:42:00	9:28:00	0:06:51	11	1	23	2	3	1	448

KEY:	
ADC	Ave. Daily Cycle
EC	Event Counter
NET	Month Total

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

PIEZOMETER MEASUREMENTS

3/27/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	2.10'	DRY
Piez #2	2.35'	DRY
Piez #3	2.10'	DRY

6/19/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	2.10'	DRY
Piez #2	2.35'	DRY
Piez #3	2.10'	DRY

9/25/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	N/A	
Piez #2	N/A	
Piez #3	N/A	

**Could not read because sponsor was busy.

12/17/24	TOTAL DEPTH	DEPTH TO H2O
Piez #1	**2.10'**	**1.50'**
Piez #2	**2.35'**	**1.50'**
Piez #3	**2.10'**	**1.80'**

PGE Colusa Generating Station

Hydrotec Solutions, Inc.
P.O. Box 7908
Chico, CA 95927
(530) 891-4420

SCUM & SLUDGE MEASUREMENTS

3/27/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	6"	0"	0"	0"
SLUDGE	8"	10"	3"	2"

6/19/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	0"	0"	0"	0"
SLUDGE	9"	11"	3"	4"

9/25/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	1"	1"	0"	0"
SLUDGE	12"	13"	7"	8"

12/17/24

	SEPTIC		DOSING	
	INLET	OUTLET	INLET	OUTLET
SCUM	**1"**	**1"**	**0"**	**0"**
SLUDGE	**10"**	**6"**	**6"**	**4"**

Pacific Gas and Electric Company®

Appendix 8, TLSN-3

Per TLSN-3, the following is required: "Any reports of line-related complaints shall be summarized along with related mitigation measures for the first five years and provided in an annual report to the CPM."

There were no line related complaints in 2024.

Pacific Gas and Electric Company®

Appendix 9, VIS-1

Per VIS-1, the following is required: "The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify:
a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) major maintenance activities that occurred during the reporting year; and
c) the schedule of major maintenance activities for the next year.

Surface coating applications for the most part remain in good condition after their completion in March 2011, as a result no maintenance activities occurred in 2024.

Pacific Gas and Electric Company®

Appendix 10, VIS-3

Per VIS-3, the following is required: The project owner shall report landscaping maintenance activities, including of dead or dying vegetation, for the previous year of operation in each annual compliance report."

During 2024 maintenance was completed by Sierra Integrated Services Inc. The replaced trees did not take and need to be removed and new ones need to be planted in their locations.

SIERRA
INTEGRATED SERVICES INC.

TJ Gomez
Pacific Gas & Electric Company
Colusa Generating Station
4780 Dirks Road
Colusa, CA 94509

February 28, 2024

First Quarter 2024 Landscape Tree & Shrub Maintenance Report

An inspection was performed on the landscape trees and shrubs bordering the entrance of the facility. The trees were visually inspected for signs of structural issues, moisture/irrigation issues, and pest and diseases. Based on the observations most trees and shrubs did not appear to have any of the above listed issues. There has been the loss of one re-planted eucalyptus and one other continues to show signs of deterioration.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. The irrigation system should be off during this quarter due to adequate rainfall.

Continue to maintain a weed free zone around each tree and shrub. Weeds can compete for nutrients and moisture and can create harborage and protection for rodents that can damage the tree bark. Application of a pre-emergent herbicide will assist in this effort.

Continued monitoring of the trees of concern. All others have continued stable status.

Anne-Marie Patterson
President
Pest Control Advisor/QAL
Sierra Integrated Services, Inc.
916-717-9631

SIERRA
INTEGRATED SERVICES INC.

TJ Gomez
Pacific Gas & Electric Company
Colusa Generating Station
4780 Dirks Road
Colusa, CA 94509

April 22, 2024

Second Quarter 2024 Landscape Tree & Shrub Maintenance Report

An inspection was performed on the landscape trees and shrubs bordering the entrance of the facility. The trees were visually inspected for signs of structural issues, moisture/irrigation issues, and pest and diseases. Based on the observations most trees and shrubs did not appear to have any of the above listed issues. Continued monitoring of the small planted eucalyptus. Inspected irrigation, staking, and removed weedy vegetation near plantings. One is still struggling and will continue to be monitored.

All of the other trees are maintaining as expected and have good new spring growth. The weedy vegetation surrounding the base of all trees has been line trimmed away.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. The irrigation system should supplying irrigation to the trees at this point in the year.

Continue to maintain a weed free zone around each tree and shrub. Weeds can compete for nutrients and moisture and can create harborage and protection for rodents that can damage the tree bark. Application of a pre-emergent herbicide can assist in this effort.

Continued monitoring of the trees of concern. All others have continued stable status.

Anne-Marie Patterson
President
Pest Control Advisor/QAL
Sierra Integrated Services, Inc.
916-717-9631

SIERRA
INTEGRATED SERVICES INC.

TJ Gomez
Pacific Gas & Electric Company
Colusa Generating Station
4780 Dirks Road
Colusa, CA 94509

September 11, 2024

Third Quarter 2024 Landscape Tree & Shrub Maintenance Report

An inspection was performed on the landscape trees and shrubs bordering the entrance of the facility. The trees were visually inspected for signs of structural issues, moisture/irrigation issues, and pest and diseases. Based on the observations most trees and shrubs did not appear to have any of the above listed issues. Two of the four re-planted eucalyptus have died. Re-inspected the irrigation lines to ensure the other two are being irrigated as they are showing signs of decline.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. It is especially important that the newly planted trees are getting adequate and frequent water.

Continue to maintain a weed free zone around each tree and shrub. Weeds can compete for nutrients and moisture and can create harborage and protection for rodents that can damage the tree bark.

Monitor the new plantings. All others have continued stable status.

Anne-Marie Patterson
President
Pest Control Advisor/QAL
Sierra Integrated Services, Inc.
916-717-9631

SIERRA
INTEGRATED SERVICES INC.

TJ Gomez
Pacific Gas & Electric Company
Colusa Generating Station
4780 Dirks Road
Colusa, CA 94509

December 30, 2024

Fourth Quarter 2024 Landscape Tree & Shrub Maintenance Report

An inspection was performed on the landscape trees and shrubs bordering the entrance of the facility. The trees were visually inspected for signs of structural issues, moisture/irrigation issues, and pest and diseases. Based on the observations most trees and shrubs did not appear to have any of the above listed issues. All of the newly planted eucalyptus have died.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. It is especially important that the newly planted trees are getting adequate and frequent water and this may have been partially the cause of death of the new plantings. The irrigation system will need to be turned off during the rainy season.

New trees will need to be planted in the spring and the irrigation tested to ensure that it is providing water frequently and in sufficient amounts to sustain the trees. The irrigation system seems to be working but perhaps was not providing sufficient water.

Continue to maintain a weed free zone around each tree and shrub. Weeds can compete for nutrients and moisture and can create harborage and protection for rodents that can damage the tree bark.

Anne-Marie Patterson
President
Pest Control Advisor/QAL
Sierra Integrated Services, Inc.
916-717-9631

Pacific Gas and Electric Company®

Appendix 11, Waste-5

The Waste Management Plan was followed during 2024. The following pages reflect the practices that were utilized throughout the year.

TABLE 2-1
Characterization of Waste Streams at the Colusa Generating Station
Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
General Wastes				
Non-recyclable non-hazardous office and lunchroom waste	Waste paper, metal, plastic, cardboard, wood	Non-hazardous solid waste, based on waste management practices and staff training.	Commercial waste bins	Not required
Recyclable office materials	Waste paper, metal, plastic, cardboard	Not a waste, based on waste management practices and staff training.	Commercial recycling bins	Not required
Janitorial products and waste from their use	Janitorial products (e.g., window cleaner, floor stripper, wax, drain cleaners, etc.) may contain chemicals that are hazardous. These chemicals are consumed during normal use.	Use according to instructions on product labels does not constitute disposal. Discarded full-strength products may exhibit characteristics of ignitability, corrosivity, reactivity, or toxicity.	Empty containers of 5 gallons or less (meeting the definition of an empty container) can be disposed of in commercial waste bins. Discarded unused products will be characterized based on review of product labels and MSDSs and disposed of appropriately.	Not required
Used consumer electronic products and components	Cell phones, personal computers, computer perhipherals (e.g., printers), pagers, personal digital assistants, process control system components	Universal hazardous waste	Universal waste destination facility to be identified	Not required
Light tubes	Includes fluorescent light tubes, high-pressure sodium lamps, and other lamps that exhibit a characteristic of a hazardous waste.	Universal hazardous waste	Universal waste destination facility to be identified	Not required
Batteries	Rechargeable nickel-cadmium batteries, lithium batteries, alkaline batteries,	Universal hazardous waste	Universal waste destination facility to be identified	Not required

TABLE 2-1
Characterization of Waste Streams at the Colusa Generating Station
Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
	silver button batteries, mercury batteries, small sealed lead-acid batteries, carbon-zinc batteries, and any other batteries that exhibit a characteristic of a hazardous waste			
Lead acid batteries – automotive or large industrial	Contain lead and sulfuric acid	Recyclable hazardous waste	Destination facility to be identified	Not required
Off-specification chemicals	Unusable new products, materials that cannot be returned to the vendor, and expired materials (shelf-life exceeded)	Chemical products may be non-hazardous, listed hazardous wastes, or characteristic waste.	Non-hazardous waste will be discarded in commercial waste bins. Hazardous waste will be disposed appropriately following characterization based on product labels and MSDSs.	Not required; management to be determined based on product label and MSDS.
Spent sorbent	Varies with wastes absorbed. May contain oil, solvents, coolant, or diesel fuel. Listed solvents are not expected to be used at the facility.	Non-hazardous waste if used to absorb a non-hazardous liquid; non-RCRA hazardous waste if used to absorb oil; RCRA hazardous waste if used to absorb a listed solvent or material that causes the sorbent to become a characteristic or listed hazardous waste	Non-hazardous waste will be discarded in commercial waste bins. Oil-contaminated sorbent will be disposed as a non-RCRA hazardous waste based on generator knowledge. Other hazardous waste sorbent will be disposed based on either generator knowledge if the material absorbed in known or analysis if it is not known.	Not required except when the material being absorbed is not known.
Aerosol cans	Aerosol cleaners and lubricants may contain listed chemicals. In addition, aerosol propellants and materials may be ignitable. Materials may also be	Universal hazardous waste	Empty, expired unused, or partially used aerosol cans	Not required; management can to be determined based on product label and MSDS.

TABLE 2-1
Characterization of Waste Streams at the Colusa Generating Station
Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
	corrosive or reactive.			
Used oil	Used oil includes lubricating oil, gearbox oil, compressor oil, bearing oil, transformer oil, metal working oil, and hydraulic oil that is not mixed with solvents.	Non-RCRA hazardous waste	Evergreen Oil or similar used oil recycler	Testing to confirm total halogen concentration is less than 1,000 parts per million. Testing is typically provided as a service by the oil recycler.
Painting wastes	Large-scale work is contracted out. Paint wastes include cans of unused or partially used paint, empty paint cans, and paint contaminated materials (brushes, rollers, tarps, and wipes).	It is assumed that waist paints are hazardous wastes. Paint-contaminated material is typically non-hazardous unless disposed when the paint is still wet.	Discarded unused or partially used paint will be characterized based on review of product labels and MSDSs and will be disposed of appropriately.	None required
Biohazard wastes	Biohazard waste may result from first air operations.	Biohazard	Transport to a local hospital for disposal by incineration	None required
Sanitary wastewater	Wastewater from toilets, sinks, showers, and janitorial closets.	Non-hazardous. Waste management provisions include posting signs at sinks and training employees regarding materials prohibited from draining at sinks.	Delta Diablo Sanitation District treatment plant	Monitoring per Industrial Waste Permit
Used oil filters	Used oil filters are hazardous based on oil content and may exhibit hazardous characteristics for lead and other heavy metals.	Used oil filters are classified as recyclable hazardous wastes provided that they are managed per requirements including draining of free-flowing oil	Drained oil filters may be transported to an approved destination such as Evergreen Oil under a bill of lading, provided that requirements for used oil filter management have been met.	None required

TABLE 2-1
Characterization of Waste Streams at the Colusa Generating Station
Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
Reusable soiled textiles (shop towels)	Varies with material absorbed. May contain oil, solvents, or other chemicals.	May be managed as a recyclable material excluded from classification as a waste if managed in accordance with requirements for reusable soiled textiles.	Recycle at facility that is compliant with requirements for reusable soiled textiles.	None required
Empty product containers	Empty containers may contain residues that have hazardous characteristics. Care should be taken in handling empty containers previously holding ignitable materials as they may contain ignitable vapors.	Empty containers meeting the regulatory definition of empty (e.g. all contents have been poured out) may be disposed of as non-hazardous waste provided they also meet empty container management requirements.	Empty containers of 5 gallons or less may be disposed with commercial waste. Empty containers of greater than 5 gallons need to be labeled with the word “empty” and the date they were emptied and either sent for reconditioning or for scrap within one year of becoming empty.	None required
Scrap metal	Used metal parts	Recyclable materials (22 CCR 66261.6(a)(3)	Place in scrap metal bins for transportation to a scrap metal recycler.	None
Compressed gas cylinders	Cylinders containing pressurized oxygen, acetylene, argon, nitrogen, and calibration gas blends; may contain residual pressure.	Non-hazardous solid waste when empty	Return refillable cylinders to vendors. Dispose of non-refillable cylinders as non-hazardous waste.	None
Spent solvent, sludge, and filters from parts washers.	Water-based and hydrocarbon based spent solvent, sludge, and filters.	Hydrocarbon-based solvent is typically hazardous and is collected and recycled.	Contract a parts washer service to recycle parts washer spent solvent in accordance with regulation.	None required unless operations change or solvent changes.
Used blasting grit	Used blasting grit may contain metal from the parts processed as well as coating	The material will be collected for characterization prior to	Manage as a hazardous waste. The material will be disposed at an approved	The analysis to be performed will be based on the waste profiling requirements of the

TABLE 2-1
Characterization of Waste Streams at the Colusa Generating Station
Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
	residue.	disposal.	disposal facility in accordance with federal, state, and local regulations.	disposal facility.
Oil/water separator sludge	Material collecting on the bottom of the oil/water separator may include oil-contaminated metals and other solids.	The material will be managed has a hazardous waste based on waste analysis.	Manage as a hazardous waste. The material will be disposed at an approved disposal facility in accordance with federal, state, and local regulations.	The analysis to be performed will be based on the waste profiling requirements of the disposal facility.
Used engine coolant	Used engine coolants are mixtures of water and organic compounds such as ethylene glycol.	Spent coolants are typically non-RCRA hazardous wastes.	Recycle at Evergreen Oil or similar facility.	None required
Wet Surface Air Cooler (WSAC) Sludge	WSAC sludge is a mixture of ambient particulate matter and water.	Dependent on samples—likely non-hazardous. Class II/III landfill if nonhazardous; Class I if hazardous.	Store in bins. Bins are to be covered if rain is predicted. Storage is allowed until container is full. Waste will be transported off-site weekly.	Perform total analysis (i.e. TCLP, TTLP, WET, etc.) to characterize the waste. If process remains consistent through year, perform characterization 1x/year
Salt Cake	Residual concentrated brine solution	Dependent on samples—likely non-hazardous. Class II/III landfill if nonhazardous; Class I if hazardous.	Store in bins. Bins are to be covered if rain is predicted. Storage is allowed until container is full. Waste will be transported off-site weekly.	Perform total analysis (i.e. TCLP, TTLP, WET, etc.) to characterize the waste. If process remains consistent through year, perform characterization 1x/year.

MSDS = Material Safety Data Sheet.

_

Table 2-1

Characterization of Waste Streams at the Colusa Generating

Station Waste Management Plan, PG&E Colusa Generating Station

Waste Stream	Characteristics	Classification	Disposal	Analysis Required
Soil & Rock	Excavated soil/rock From Oil spills	Depends on sample likely non-hazardous Class II/III if nonhazardous Class I if hazardous	Manage as a hazardous Waste. The material will disposed at an approved facility. In accordance with federal,state and local regulation	Preform total analysis (i.e., TPH,CAM17) to characterize the waste.

2024 Waste Stream Detailed

Waste Stream	Quantity	On-Site Storage	Off-Site Disposal
Non RCRA Hazardous Waste, Solid (Drained Oil Filters)	550 Pounds	Store for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste, Solid (Oily Debris)	3400 Pounds	Store for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste, Liquids (Mixed Oils)	2795 Pounds	Store for less than 90 days	Shipped to approved TSD facility (CHES)
Universal Waste (Electronic Devices)	575 Pounds	Store for less than 365 days	Shipped to approved TSD facility (CHES)
Hazardous Waste Liquid (Waste Water)	52400 Gallons	Stored for less than 90 days	Shipped to approved TSD facility (Seaport)
Hazardous Waste Adhesives	45 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste Flamable Solids. Organic NOS (Acetone, Ethyl Benzene)	10 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste, Liquids (Water Chemtreat)	3600 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste, Liquids (Oil, Water)	600 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Universal Waste (Batteries)	65 Pounds	Stored for less than 180 days	Shipped to approved TSD facility (CHES)
Non- RCRA Hazardous Waste, Solid (Aluminum Oxide, Sodium Oxide)	3200 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Non RCRA Hazardous Waste, Solids (Silicone Pyrophosphate, Quartz Dust)	800 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Waste Flamable Liquids (Gasoline, Diesel)	75 Pounds	Stored for less than 90 days	Shipped to approved TSD facility (CHES)
Universal Waste (Aeresols)	65 Pounds	Stored less than 90 days	Shipped to apporved TSD facility (CHES)

Non Regulated Solid (Non PCB Ballasts)	15 Pounds	Stored less than 180 days	Shipped to approved TSD facility (CHES)
Waste Alcohols , N.O.S. (Ethanol, Methanol)	50 Pounds	Stored less than 90 days	Shipped to approved TSD facility (CHES)

Pacific Gas and Electric Company®

Attachment D

Post-Certification Changes

Per Com-7 Item 4 we are to provide; “A Summary of the current project operating status and an explanation of any significant changes to the facility operations during the year.”

No significant changes were made at CGS in 2024.

Pacific Gas and Electric Company®

Attachment E

Summary of Missed Deadlines

Per Com-7 Item 5 we are to provide: "An explanation for any submittal deadlines that have been missed, accompanied by an estimate of when the information will be provided"

No submittal deadlines were missed for 2024.

Pacific Gas and Electric Company®

Attachment F

Governmental Agency Submittals and Issuances

The following is a listing of filings submitted to, or permits issued by, other governmental agencies during the year:

CGS Agency Submittals; January 1, 2024 – December 31, 2024

Colusa County Air Pollution Control District

Quarterly Operating Report (Permit Condition 17) – January 30, 2024; April 29, 2024; July 24, 2024; October 29, 2024

Annual RATA/Source Test – October 2024

Title V Annual Certification of Compliance January 2024

EPA

Semi Annual CEMs Report (X.G.5) – January 2024; July 31, 2024

CUPA

Revised Hazardous Materials Business Plan via CERS – January 24, 2024

State Water Resources Control Board

Annual Stormwater Report – July 2024

Pacific Gas and Electric Company®

Attachment G

Projected Compliance Activities 2025

Per Com-7 Item 7 we are to provide; "A projection of project compliance activities scheduled during the next year."

In 2025 PG&E intends to continue reporting on the standard required compliance items. These include but are not limited to:

*Quarterly CEMS Reports/Operations Reports
*Annual Compliance Reports
*Notifications of Source Testing and Associated Source Test Reports
*Annual Storm Water Report

Pacific Gas and Electric Company®

Attachment H

Additions to On-Site Compliance Files

Pacific Gas and Electric Company®

Per Com-7 Item 8 we are to provide; "A listing of this year's additions to the on-site compliance files."

All of the above noted items in Attachment F which were submitted to agencies other than the CEC, as well as those items submitted to the CEC have been added to the site compliance files.

Pacific Gas and Electric Company®

Attachment I

Contingency Plan Evaluation

Pacific Gas and Electric Company®

Per Com-7 Item 9 we are to provide; "An Evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions for bringing the plan up to date."

Upon Review of the Site Contingency Plan there have been no changes in operations or company business practices to warrant changing of the on-site contingency plan for unplanned facility closure.

Pacific Gas and Electric Company®

Attachment J

Complaints / NOVs / Citations

Per Com-7 Item 10 we are to provide: "A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of the resolution of any resolved matters, and the status of any unresolved matters"

In 2024, CGS did not receive any complaints, warnings, or citations.

Pacific Gas and Electric Company®

Attachment K

Worker Safety-6, Maxwell Fire Department Payment

Per Worker Safety-6 The owner shall provide the CEC CPM with verification of funding to the Maxwell Fire Department for required fire protection services mitigation pursuant to the agreement with the Department or the CEC CPM approved independent consultant study.

Maxwell Fire Protection District

231 West Oak
P.O. Box 651
Maxwell, Ca. 95955
Bus. (530) 438-2320
Emergency Dial 911

May 1, 2024

Josh Harris, Plant Manager
Pacific Gas & Electric
Colusa Generating Station
4780 Dirks Road
Maxwell, CA 95955

Dear Josh,

This is a request for the annual payment as stated by the agreement between PG&E and the Maxwell Fire Protection District dated March 24, 2009. The payment is to be adjusted for inflation based on the Bureau of Labor statistics for the San Francisco Region and County taxes collected on the project. The inflation factor for 2023 was 3.5% and the taxes collected on the project for 2023 was $17,336.00 Total due the Maxwell Fire Protection District is stated below.

Annual payment	*$344,783.00*
Inflation 2019	*+$12,067.00*
County Taxes	*-$17,336.00*
Total Due	*$339,514.00*

Sincerely,

Kenny Cohen Maxwell Fire Chief.

WARNING - THIS DOCUMENT CONTAINS A VOID PANTOGRAPH, COLORED BACKGROUND AND WATERMARK ON THE BACK

Pacific Gas and Electric Company®
77 Beale Street,
San Francisco, CA 94105

THE BANK OF NEW YORK MELLON 53-292 113

Date: 05/14/2024 Check No. 5174757 Pay $*******339,514.00*

*THREE HUNDRED THIRTY-NINE THOUSAND FIVE HUNDRED FOURTEEN********** AND 00/100 DOLLARS

9441575

To The Order Of

MAXWELL FIRE DISTRICT
COUNTY OF COLUSA
PO Box 651
MAXWELL CA 95955

ACCOUNTS PAYABLE

Pacific Gas and Electric Company®

⑈0005174757⑈ ⑆011302920⑆ 059978⑈

PLEASE FOLD FIRST THEN DETACH ALONG PERFORATION

MAXWELL FIRE DISTRICT

Check no.	**5174757**
Date	**05/14/2024**
Your account number	**1086359**
Payment Document	**2000063556**
Our account with you	**N/A**

Invoice	Date	Discount	Net Amount	Comments
2024 PAYMENT	05/01/24	0.00	339,514.00	JESS ENGLISH, 4780 DIRKS RD, MAXWELL, CA 95995
Totals:	USD	0.00	339,514.00	For Payment Inquiries, email APPaidLine@pge.com

Special Handle Code: 02

Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94105

Not Negotiable