| DOCKETED | | | |
|---|--------------------------------|--|--|
| Docket Number: | 06-AFC-09C | | |
| Project Title: Colusa Generating Station - Compliance | | | |
| TN #: | 237843 | | |
| Document Title: Annual Compliance Report- 2020 | | | |
| Description: | Annual Compliance Report- 2020 | | |
| Filer: | Anwar Ali | | |
| Organization: | PG&E | | |
| Submitter Role: | Applicant | | |
| Submission Date: | 5/18/2021 4:03:38 PM | | |
| Docketed Date: | 5/18/2021 | | |



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

530.934.9061 Fax: 530.934.9024

CGS21-L-001

February 26, 2021

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 Compliance 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, 2020 through December 31, 2020. Within this report you will find the following information;

- 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;
- 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;
- 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.

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: Tim Wisdom, 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: Co | 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 Environmenta 1 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 | | 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 | | 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 | |

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| 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-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 | |
| 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 | one hour. Formaldehyde emissions will be limited to 0.917 | 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 | | 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 | |

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| 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-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 | |
| 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 (PMI <i>0/PM2.5</i>) 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 RecordThe files are to contain copies of all "asbuilt" 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 | |

Updated 2/19/2021

| 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-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 | | | | |
| 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 | | 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). | circumstances beyond Project Owner's control) within six months of the receipt of the compliance. Provide | As required | PG&E | | | Ongoing | |

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| 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 |
|---------------------|-----------|---|---|---|------------------------|---------------------------------------|--------------|--------------------|----------|
| PAL-06 | OPS | materials for analysis, analysis of fossils, identification and | 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 | |
| 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 | |

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| 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 |
|-----------|-----------|---|--|---|------------------------|---------------------------------------|--------------|---|----------|
| VIS-03 | CONS | plant structures and complies with local policies and ordinances. Trees shall be strategically placed along the | 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 | related enforcement action by any local, state, or federal | 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 | | 9/23/2010 | CGS10-L-0109 | Approved on 10/18/10 | |

Updated 2/19/2021

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"

Minor changes to the lighting of the ACC (stairs and streets) which was approved by the CEC.

There were not other significant changes to the facility and the plant is operating normally.

Attachment C Accompanying Documents

| CEC 2020 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 | | | | | | | |





Colusa Generating Station (06-AFC-09C), California Energy Commission Annual Compliance Report, Biology Section, 2020

PREPARED FOR: PG&E/TJ Gomez/Colusa Generating Station, Compliance Manager

COPY TO: Jerry Salamy/Jacobs Project Manager

PREPARED BY: Rick Crowe/Jacobs

Colusa Generating Station CEC Designated Biologist

DATE: February 3, 2021

PROJECT NUMBER: D31321CC.A.CS.EV.TM.02

Introduction

This Colusa Generating Station (CGS) Biological Resources Annual Compliance Report, 2020 fulfills the California Energy Commission (CEC) requirement in the Verification for Condition of Certification (COC) BIO-2 Sub-section 8. "Designated Biologist Duties, BIO-2, Sub-section 8; The duties of the Designated Biologist are to maintain written records of the tasks specified above and those included in the Biological Resources Mitigation Implementation and Monitoring Plan, (BRMIMP). Summaries of these records shall be submitted in the annual compliance report.

The CGS was designed to avoid biological resources to the greatest extent feasible through development of mitigation and protection measures in consultation with the U.S. Fish and Wildlife Service (USFWS), U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), Central Valley Regional Water Quality Control Board (CVRWQCB), and the CEC. The CEC's COC for the project requires Pacific Gas and Electric Company (PG&E) to designate a biologist to supervise compliance of mitigation measures outlined in the CEC-approved BRMIMP during CGS construction and operation. Applicable COCs were successfully complied with during construction and continue to be implemented during CGS's operation, including routine maintenance and outage events.

Project Location

The CGS site is located approximately 4 miles west of Interstate 5, 14 miles north of the farming community of Williams, and 72 miles north of Sacramento, adjacent to PG&E's Delevan Natural Gas Compressor Station on Dirks Road in Colusa County, California. The power plant site is located in the eastern half of Section 35, Township 18 North, Range 4 West, Mount Diablo Base and Meridian.

2020 Monitored Activities and Wildlife Interaction

PG&E has complied with the CEC's COC by directing the Designated Biologist (DB) to perform predisturbance surveys when necessary and on numerous occasions called on the Designated Biologist to capture and relocate wildlife that was encountered onsite or that was in harm's way or that could harm facility employees.

All new CGS employees and contract workers received the CEC-approved Worker Environmental Awareness Training (WEAP) via video, an illustrated pamphlet, as well as lecture, and daily tailgate training with Jacobs Designated Biologist Rick Crowe (DB) or the PG&E CGS Compliance Manager TJ Gomez (CGS CM). The DB remained on-call throughout the 2020 year.

2020 Executive Summary

Western diamondback rattlesnakes (Crotalus atrox) continued to be an issue during the 2020 compliance monitoring year but to a lesser extent than previous years. A total of 29 rattlesnake observations occurred; 7 of the rattlesnakes were observed and captured inside the CGS facility, 22 observations occurred outside of or adjacent to the CGS perimeter fencing. All of the observations occurred within the PG&E CGS parcel (+/- 100-acres). This is a slight reduction from the 2019 observations (total of 44 with 12 inside the facility and 32 on the outside perimeter). Several activities contributed to this reduction, including a reduction in water erosion around the switchyard that minimized snake denning habitat, and focused rattlesnake surveys conducted more frequently during the peak rattlesnake period. PG&E has requested the DB and the CGS CM to closely monitor un-checked erosion along the switchyard perimeter to eliminate rattlesnake denning habitat. All rattlesnakes that were captured in 2020 were released approximately 2-miles southwest of the CGS unharmed.

In 2020, bat fatalities were again observed under the air-cooled condenser (ACC) structure and around the CGS site. The bat fatalities that were observed under the ACC during the weekly 2020 surveys included; 578 non-special status bats (Myotis sp. and Mexican free-tailed bats), 11 big brown bats, 21 red bats (CDFW Species of Special Concern), 3 pallid bats (CDFW Species of Special Concern), 1 hoary bat and 1 unknown bat carcass. In comparison, in 2019 the bat fatalities that were observed included 181 non-special-status bats (Myotis sp. and Mexican free-tailed bats), 6 big brown bats and 5 red bats (CDFW Species of Special Concern). The bat fatalities are a concern of PG&E, CGS, and the CEC/CDFW. In 2019 CGS addressed an 11-inch gap between the ACC grating and the bottom of the fan plenum by screening the gap. This screening did help keep raptors and passerines out of the ACC in 2020 but did not exclude bats from entering the ACC cells. A meeting was held on October 7, 2020 at the CGS site and in attendance was representatives of the CDFW and PG&E with the purpose of the meeting to determine recommendations to further lessen the bat fatalities. A copy of the CDFW Meeting Notes is included in Appendix B. During the meeting several potential mitigation measures were discussed. In the fall of 2020 new lighting was installed inside and outside of the ACC, the new lighting uses LED technology and can be turned off and on easily. During the spring of 2021, CGS is planning on activating the lights for a week and then deactivating for a week with the CGS DB conducting weekly surveys inside and outside of the ACC. This will be repeated for several weeks to see if the lights affect bat mortality. In addition to the lights, CDFW proposed to install a year-round bat acoustic detector to help understand the level of bat activity in the area. The DB will continue to monitor and report on-site bat fatalities during the 2021 survey period.

DB Monitoring and Survey Notes

The monitoring and compliance efforts for the year 2020 are documented in chronological order below and within Appendix A, Site Photos; 1 through 76.

January 6th, the DB was on site to monitor pre-emergent vegetation spraying and give WEAP tailgate training to employees of Sierra Integrated Service the pre-emergent vegetation spraying CGS subcontractor. Pre-emergent spray is used in conjunction with mowing and disking around the CGS for fire suppression.

January 7th, the DB requested CGS management to remove the dead bat/avian carcass accumulations in the ACC. The request was made to help quantify the yearly take occurring within and under the ACC unit. The ACC has not been completely cleaned out since it began operation in 2010.

January 22nd, the DB was on site to assist with carcass removal inside the ACC. A total of 391-bat and 30-avian carcasses were removed from the ACC (Photos 1 and 2). The DB also observed bat carcasses lodged in cracks and crevices within each ACC cell, some of these carcasses were not retrievable because of safe concerns. Based on these observations, the DB requested CGS management pressure

wash the ACC cells to dislodge trapped or unrecoverable carcasses. When the pressure washing was completed, the DB intended to survey under the ACC for carcasses for reporting to the CEC.

January 24th, CGS began a cell by cell pressure washing of the ACC.

February 26th, the DB was on site to verify the ACC pressure washing and determined that after cleaning, no observable carcasses were present in the washed ACC cells.

March 4th, the DB was on site to conduct a carcass survey under the ACC after the final cell was washed. The DB observed and collected 112 very old and desiccated carcasses under the ACC, the DB mapped the area where the carcasses were observed and collected the carcasses (Photo 3). No avian carcasses were observed. Due to the age and condition of these carcasses the DB could not identify the carcasses to species. All of the carcasses observed and removed were an accumulation from 2010 when the CGS facility commenced commercial operation.

While on site the DB conducted focused rattlesnake surveys inside and outside of the CGS, no rattlesnakes were observed within the facility. Two adult rattlesnakes were observed at the Glenn-Colusa canal, both snakes were observed basking under k-rails on the canal banks. Rattlesnake #1 for the year was safely captured and relocated from the east bank of the canal (Photo 4). The second rattlesnake evaded capture.

March 9th, the DB notified the CEC by email of the carcasses observed results survey of the CGS ACC cleanout that was conducted on January 22nd. The breakdown is as follows;

Bats;

359 Myotis sp. bat carcasses

11 Big brown bat (Eptesicus fuscus) carcasses

10 Red bat (Lasiurus borealis) carcasses

9 Mexican free-tailed bat (Tadarida brasiliensis) carcasses

1 Pallid bat (Antrozous pallidus) carcass

1 Hoary bat (Lasiurus cinereus) carcass

Birds;

19 Rock dove (Columba livia) carcasses

6 Eurasian collared dove (Streptopelia decaocto) carcasses

2 European starling (Sturnus vulgaris) carcasses

1 Yellow-rumped warbler (Setophaga coronata) carcass

1 Red-breasted nuthatch (Sitta canadensis) carcass

And 1 unidentifiable yellow-bellied avian carcass

March 12th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility, survey under the ACC for bat carcasses and to deploy the snake basking boards around the outside perimeter of CGS (Photo 5). No rattlesnakes were observed within the CGS. Rattlesnake #2 for the year was safely captured and relocated from the east bank of the Glenn-Colusa canal (Photo 6). The bat carcass survey under the ACC was negative.

April 1st, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for bat carcasses. No rattlesnakes or bat carcasses were observed.

April 9th, the DB received an email from the CGS Operations Supervisor (CGS OS) Joshua Harris concerning the observation of a single egg in a small stick nest in Combustion Turbine 1's Evaporative Cooling Water System (Photo 7). The nest was observed by CGS personnel while checking on a water leak in the area. The CGS OS stated that he had the nest area marked off and alerted CGS staff to the nest's location.

April 14th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility, survey under the ACC for carcasses and check on the bird nest that was reported on April 9th. No rattlesnakes or carcasses were observed during the surveys. The DB inspected the reported nest in Combustion Turbine 1's Evaporative Cooling Water System. The DB observed a single Eurasian collared dove egg on a nest under some metal grating. The egg was cold to the touch and no adult doves were observed in the area. The metal grate required removal to repair the leak and would have compromised the nest. The DB removed the nest and egg for disposal so the leak could be repaired.

April 20th, 21st, 22nd, 23rd and 24th, the DB was on site to survey for nesting birds and other wildlife prior to fire suppression mowing/disking around the outer perimeter of the CGS. The DB surveyed all mowed/disked areas. The areas mowed/disked had very low growing vegetation, which is typically not conducive to nesting. The low growing vegetation also aided in covering/surveying 100 percent of the ground prior to disturbance (Photos 8 and 9). On the 20th, a large Ca. kingsnake (Lampropeltis getula californiae) was captured/relocated prior to mowing (Photo 10). No wildlife was observed on the 21st. On the 22nd, a PG&E subcontractor observed Rattlesnake #3 (dead) on the access road to the Delevan sub-station. On the 23rd, Rattlesnakes #4 and #5 and a large gopher snake (Pituophis catenifer) were captured/relocated off site (Photo 11). Also, on the 23rd, Rattlesnake #6 was struck and killed during mowing along the CGS access road shoulder. On the 24th, Rattlesnakes #7 and #8 were captured/relocated. The snakes were observed along the main access road to the CGS (Photos 12 and 13).

April 28th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes or carcasses were observed. While surveying inside the ACC the DB observed a pair of great horned owls (Bubo virginianus) in the northwest corner of the ACC (Photo 14).

May 4th, 5th, 6th, and 8th, the DB was on site to conduct focused rattlesnake surveys in support of the CGS contractors on site for a planned outage. On the 4th, the DB captured/relocated Rattlesnake #9 that was observed under some piping associated with the ZLD equipment (Photo 15). On the 5th and 6th, the DB surveyed for rattlesnakes inside and outside of the CGS the results were negative. On the 8th, the DB observed Rattlesnake #10 along the southern perimeter fence behind the CGS warehouse (Photo 16).

May 11th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS and no carcasses were observed under the ACC. While surveying outside the facility the DB captured/relocated Rattlesnake #11 along the northern perimeter of the CGS (Photo 17).

May 14th, the DB was onsite to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS and no carcasses were observed inside or under the ACC. While on site to the DB was contacted by a CGS subcontractor concerning the observation of a bird nest in the air intake structure for Unit 1. The nest held 2 broken eggs and appeared to be that of a Eurasian collared dove. The DB removed the nest/eggs for disposal.

May 19th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS and no carcasses were observed inside or under the ACC.

May 26th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS

and no carcasses were observed inside or under the ACC. While on site surveying the DB received a call from CGS personnel concerning the observation of 3 young American kestrels (Falco sparverius) that were observed in a chain hoist bucket on the side of the ACC (Photo 18). The DB and the CGS CM safely captured all 3 of the juvenile kestrels and placed them in a box. Later in the day the DB received another call from a CGS subcontractor concerning the observation of a 4th juvenile American kestrel that was observed perched on the ground near the lube oil rack for Unit 1 (Photo 19). The 4th juvenile kestrel was safely captured and placed in a box for transport to the Wildlife Care Association for rehabilitation (Photo 20). While surveying for rattlesnakes, the DB observed a California meadow vole (Microtus californicus) in one of the pit fall traps at the front gate. The DB placed a board in the pit fall and observed the meadow vole escape the pit trap (Photo 21). Due to the occasional capture of non-target species in the pit fall traps, CGS management agreed to have plant operators check the pit fall traps during their daily rounds in order to release wildlife (other than rattlesnakes) by providing an escape ramp.

May 27th, the DB received a call from the CGS Maintenance Supervisor, Dean Linville (CGS MS) concerning the observation of a single juvenile American kestrel inside one of the ACC cells on Street 3. The CGS MS stated the ACC was down for maintenance and that all of the cells were shut off. The DB instructed the CGS MS to leave the street access door open so that the juvenile kestrel could leave the ACC if it was able. The DB informed the CGS MS that he would be on site the next day and follow up on the observation.

May 28th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility, survey in and under the ACC for carcasses. The DB also checked on the status of the juvenile American kestrel that was observed on the 27th. No rattlesnakes were observed within the CGS. Eight Myotis sp. bat carcasses and 1 Mexican free-tailed bat carcass were observed, mapped, and collected during the survey under the ACC (Photo 22). All 9 carcasses appeared to be very old, desiccated, and could have been carryover from the previous ACC cleanup. The DB checked in on the juvenile American kestrel that had been observed on the 27th, the DB observed the juvenile kestrel in the southern most cell of Street 3 (Photo 23). The street access door was open and the CGS CM and DB tried to encourage (by making noise) the young hawk to leave the ACC, without success. The DB checked on the kestrel several times during the day and later in the afternoon the kestrel was observed perched under the ACC being fed by an adult kestrel.

June 1st, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes or carcasses were observed.

June 8th, the DB received a call from the CGS MS concerning the observation of a juvenile rock dove that appeared injured on the ground near HRSG 1. The DB traveled to the site and safely captured the rock dove and took it to Wildlife Care Association in Sacramento for rehabilitation.

June 9th, the DB received a call from the CGS CM concerning the observation of Rattlesnake #12 that was observed dead on the CGS access road (Photo 24).

June 11th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within or outside of the CGS and no carcasses were observed inside or under the ACC.

June 16th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Two old and desiccated Myotis sp. bat carcasses were collected from under the ACC (Photo 25). During the rattlesnake surveys,

the DB observed a black-tailed hare (Lepus californicus) attempting to dig under the CGS perimeter fencing (Photo 26). The DB chased the hare off and backfilled the hole.

June 26th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Three fresh Myotis sp. bat carcasses were collected from under the ACC. While on site the DB received a call from a CGS Operator concerning the observation of a western terrestrial garter snake (Thamnophis elegans) that was in a pit fall trap at the back gate (Photo 27). The garter snake was safely captured/released off site. Later in the afternoon the DB received a second call concerning another terrestrial garter snake observed under the steam turbine piping (Photo 28). The DB captured the second garter snake and it was safely released off site.

June 30th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS. During the perimeter rattlesnake survey, Rattlesnakes #13 and #14 were observed/relocated from under the CGS detention pond outfall (Photo 29). No carcasses were observed inside or under the ACC during this site visit.

July 7th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS. During the perimeter rattlesnake survey, Rattlesnake #15 was observed/relocated from under the CGS detention pond outfall. No carcasses were observed inside or under the ACC during this site visit. While surveying the outside of the CGS, the DB was approached by a CGS substation subcontractor concerning the observation of a juvenile racoon (Procyon lotor) that was trapped in the Delevan substation switchyard perimeter fencing (Photo 30). The DB and CGS CM safely freed the juvenile racoon and it was observed running off site to the east.

July 8th, the DB received a call from the CGS OS concerning the observation of a green racer (Coluber constrictor) in one of the pit fall traps at the front gate (Photo 31). The CGS OS stated that one of the operators observed the racer during pitfall trap inspections. The operator stated that they observed the racer go through a drainage hole in the bottom of the pit trap bucket to evade capture. Later in the day it was reported that the racer had gotten out of the pit trap by using an escape ramp that was placed in the trap when the snake was first observed.

July 14th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. No rattlesnakes were observed within the CGS. During the perimeter rattlesnake survey, a large rattlesnake was observed at the CGS detention pond outfall, which evaded capture. During the carcass survey under the ACC, the DB observed and collected 7 fresh Myotis sp. bat carcasses (Photo 32). An additional Myotis sp. bat carcass was observed on the ground by HRSG Unit 2 (Photo 33).

July 16th, the DB made screens for placement in the bottom of the pit fall traps so that wildlife does not get trapped under the buckets.

July 19th, the DB received a call and a photo from a CGS Operator concerning the observation of a Eurasian collared dove on the ground near the steam turbine (Photo 34). The operator stated that the dove did not fly off when approached. The DB asked the Operator to put some water out for the dove and to alert other staff to the dove's location. Later in the day the DB received a call from the CGS Operator stating that the dove had been observed dead. The DB asked the Operator to dispose of the dove carcass.

July 21st, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey in and under the ACC for carcasses. While surveying inside the facility, the DB received a call from a CGS subcontractor concerning the observation of a large rattlesnake coiled under some piping associated with the wet surface air cooler. The DB safely captured rattlesnake #16 and released it offsite. No other rattlesnakes were observed inside the CGS. During the rattlesnake survey around the outside perimeter, the DB observed rattlesnake #17 a large gravid female under the CGS detention pond outfall (Photo 35). Also, during the outside perimeter snake survey, the DB observed rattlesnake #18 dead along the southern perimeter fencing. The snake carcass was disposed of (Photo 36). While surveying the outside perimeter, the DB installed wire mesh in the bottom of the pit fall traps at the front and back gates (Photo 37). The DB surveyed under the ACC for carcasses and 3 Myotis sp. bat carcasses were observed and collected (Photo 38). The DB also surveyed the inside of the ACC for carcasses and observed approximately 92 fresh bat carcasses scattered throughout the ACC cells. The ACC was running at the time of this survey so the bat carcasses could not be collected. The ACC was surveyed 2-weeks prior to this survey, and it did not contain any carcasses at that time. The DB inquired about the run time for the ACC during the last 2-weeks and CGS management stated that the ACC had been running nonstop since the last survey. This would indicate that the bats are entering the ACC cells when the ACC fans are running. Other wildlife observations made on this day included a house finch (Haemorhous mexicanus) nest under an awning associated with Unit 1's CEM's outbuilding (Photo 39). A large Ca. kingsnake was observed at the Glenn-Colusa canal during the rattlesnake surveys (Photo 40).

July 22nd, the DB received a call and a photo concerning a live Myotis sp. bat that was observed by a CGS Operator on the floor of the mechanics shop (Photo 41). The bat had spider webs on it and was unable to fly. The Operator removed the spider webs and was heading to the perimeter fencing when the bat flew out of the Operators gloves and headed east towards off site walnut orchards.

July 28th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Seven fresh Myotis sp. bat carcasses and 1 live Myotis sp. bat were observed and collected from under the ACC (Photos 42 and 43). The DB captured the live bat and hydrated it for relocation to the walnut orchard east of the CGS (Photo 44). During the inside CGS snake survey the DB observed a dead Myotis sp. bat on the ground by HRSG 1 Photo (Photo 45).

August 3rd, the DB received a call from the CGS CM concerning the observation of a juvenile American kestrel on the ground near Unit 1. The CGS CM stated that he had observed an adult coming and going from the juvenile kestrel. The DB asked the CGS CM to let the CGS personnel know about the observation and that the DB would be on site on the next day.

August 4th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility, survey under the ACC for carcasses and check on the reported American kestrel. No rattlesnakes were observed. Four fresh Myotis sp. bat carcasses were observed and collected from under the ACC (Photo 46). The DB observed the juvenile American kestrel (reported the previous day) flying approximately 100-yards within CGS and perching on the CGS fin fan unit (Photo 47). An adult kestrel was also observed interacting with the juvenile kestrel.

August 11th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed and three fresh Myotis sp. bat carcasses were observed under the ACC.

August 18th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed the inside the facility. Rattlesnake #19 was observed dead along the outside of the southern perimeter fencing (Photo 48). Rattlesnake #20 was observed and relocated from the northern perimeter of the CGS (Photo 49). The DB observed and collected 11 fresh Myotis sp. bat carcasses during the under the ACC survey (Photo 50). Also, while on site the DB received a call concerning an injured juvenile American kestrel in the aqueous ammonia storage tank containment sump (Photo 51). The DB safely captured the juvenile kestrel, hydrated it and took it to the Wildlife Care Association for rehabilitation.

August 22nd, the DB received a call from a CGS Operator concerning the observation of a live big brown bat under the ACC (Photo 52). The Operator stated that the bat did not appear injured, the DB asked the Operator to place the big brown bat off the ground in the shade and to provide the bat with some water. Later in the day the Operator checked on the bat and it had flown away.

August 25th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Fifty-two fresh Myotis sp. bat carcasses (Photo 53) and 3 fresh red bat carcasses (Photo 54) were observed under the ACC. The DB collected the carcasses and saved them for further identification by CDFW. An injured live red bat and an injured live Myotis sp. bat were also observed during the survey. Both bats were collected and placed in the shade with water (Photo 55). The Myotis sp. bat died from its injuries. The red bat was taken to the Wildlife Care Association for rehabilitation. Also, of note is that under the ACC was surveyed 1-week prior to this survey and at that time 11 Myotis sp. carcasses were collected for further identification. A single Myotis sp. bat carcass was observed on the ground adjacent to HRSG 2 (Photo 56). The DB inquired about the run time for the ACC during the last week and CGS management stated that the ACC and plant had been running nonstop since the last survey. This observed spike in activity while the ACC was continuously running indicates that the bats are attempting to enter the ACC when it is running. This could prove to be valuable in formation while developing a mitigation plan with CDFW and the CEC.

September 2nd, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed during the inside rattlesnake survey. During the outside perimeter snake survey rattlesnake #21 was observed dead along the western perimeter fencing. Rattlesnake #22 (a juvenile) was observed coiled within a snake fence uturn at the back gate (Photo 57). Rattlesnake #22 was safely released off site. During the carcass survey under the ACC, the DB observed and collected 12 fresh Myotis sp. carcasses and 1 red bat carcass (Photo 58).

September 9th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Thirteen fresh Myotis sp. bat carcasses, 2 Mexican freetail bat carcasses and 1 red bat carcass were collected from under the ACC.

September 12th, the DB was on site to collect and identify bat carcasses that have been observed inside the ACC during the walk-through surveys. The CGS CM also assisted in the collection of 397 Myotis sp. carcasses, 15 red bats, 11 big brown bats, 3 pallid bats and 2 unknown species bat carcasses (Photos 59, 60, 61 and 62). Also, observed during the ACC cleanout was a single American kestrel carcass (Photo 63). All of the carcasses were from the 2020 season since the ACC was completely cleaned out at the end of 2019.

September 14th, the DB received a call from the CGS CM concerning the capture and safe relocation of rattlesnake #23 that was observed inside of the CGS southern perimeter fence (Photo 64).

September 15th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Fourteen fresh Myotis sp. bat carcasses, and 1 red bat carcass were collected from under the ACC.

September 20th, the DB received a call from the CGS CM concerning the capture of rattlesnake #24 that was observed coiled in the snake fence u-turn at the back gate (Photo 65). The snake was placed in a locked cabinet for safe release during the DB's planned site visit on Sept. 21st.

September 21st, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility, survey under the ACC for carcasses and to safely release off site rattlesnake #24 that had been captured the day before. While onsite the DB received a call from the CGS CM concerning the observation of rattlesnake #25 in the man door of the CGS warehouse (Photo 66). Rattlesnakes #24 and #25 were safely released off site. No other rattlesnakes were observed. Eleven fresh Myotis sp. bat carcasses, and 1 Mexican freetail carcass were collected from under the ACC.

September 22nd, the DB received a call from the CGS CM concerning the observation of a large gopher snake in the pit trap at the back gate (Photo 67). An escape ramp was placed in the bucket and the gopher snake exited the pit trap on its own.

September 24th, the DB received a call from a CGS maintenance employee concerning the observation of a feral cat (Felis catus) carcass in the engine compartment of an on-site man lift (Photo 68). The cat carcass was very old and desiccated. The DB asked the maintenance employee to dispose of the carcass.

September 29th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed within the CGS. Rattlesnake #26 was observed dead along the southern perimeter fencing (Photo 69). Four fresh Myotis sp. bat carcasses, and 1 Mexican free-tailed bat carcass were collected from under the ACC (Photo 70).

October 2nd, the DB received a call from the CGS OS concerning the observation and capture of rattlesnake #27 that was observed coiled near the switchyard expansion project (Photo 71). The snake was safely captured by the CGS OS and placed it in a locked cabinet. The DB traveled to the site and safely relocated the snake off site.

October 5th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Six fresh Myotis sp. bat carcasses were observed, mapped and collected from under the ACC. 1 Myotis sp. bat carcass was observed on the ground in the CGS warehouse.

October 7th, CDFW bat meeting at the CGS, see Appendix B for CDFW meeting notes.

October 16th, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. Rattlesnake #28 was captured in a doorway in the CGS mechanics shop and administration building (Photo 72). The snake was safely captured by the CGS OS and placed in a locked cabinet. No other rattlesnakes observed. Rattlesnake #28 was safely released off site. The bat carcass survey under the ACC was negative. As the DB was leaving the CGS site he observed a terrestrial garter snake in the pit fall trap at the front gate (Photo 73), the garter snake was safely released off site.

October 18th, the DB received a call from the CGS control room concerning the observation of rattlesnake #29 within the facility near HRSG 2 (Photo 74). The DB traveled to the site and safely captured and released the snake off site.

October 23rd, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. No bat carcasses were observed under the ACC.

November 3rd, the DB was on site to conduct focused surveys for rattlesnakes inside and outside of the facility and survey under the ACC for carcasses. No rattlesnakes were observed. Two Myotis sp. bat carcasses were collected from under the CGS ACC (Photo 75). Also, while on site the DB put the lids on the 4-pit fall traps at the front and back CGS gates, this is done every winter when the traps are not checked daily (Photo 76).

December 8th, The DB was on site to check on the status of the 2 barn owl boxes that are along the southern perimeter of the CGS site, both barn owl boxes held a single barn owl (Tyto alba). The DB surveyed under and inside of the ACC for carcasses. Seven Myotis sp. bat carcasses were collected for future identification by CDFW. The DB looked through the running ACC and observed approximately 40 bat carcasses in the ACC. The ACC was running at this time, so the DB was unable to collect the carcasses.

Conclusion

The Colusa Generating Station was in compliance with all biological mitigation and protection measures covered in the BRMIMP that are applicable to this operating facility during the year 2020.

Appendix A Site Photos



Photo 1, photo of Myotis sp. bat carcasses collected from inside the CGS ACC, 1/22/20.



Photo 2, photo of mixed species of bat carcasses collected from inside the CGS ACC, 1/22/20.



Photo 3, of 112 bat carcasses that were observed, mapped and collected from under the ACC, 3/4/20.



Photo 4, of rattlesnake #1 during capture at the Glenn-Colusa Canal, 3/4/20.



Photo 5, of typical snake basking board placed around the outside of the CGS perimeter fencing, 3/12/20.



Photo 6, of Rattlesnake #2 during capture at Glenn-Colusa Canal, 3/12/20.



Photo 7, of single egg as observed in Combustion Turbine 1's Evaporative Cooling Water System, 4/9/20.



Photo 8, grasslands east of CGS site prior to mowing and disking for fire suppression, 4/20/20.



Photo 9, of mowing the triangle area southeast of CGS front gate, 4/20/20.



Photo 10, of Ca King snake snake prior to safe release, observed during pre-mowing surveys, 4/20/20.



Photo 11, of Rattlesnakes #4 and #5 captured/relocated prior to mowing for fire suppression, 4/23/20.



Photo 12, large western diamond back rattlesnake #7 observed during mowing pre-disturbance surveys, 4/24/20.



Photo 13, of Rattlesnake #8 observed, captured and relocated prior to mowing, 4/24/20.

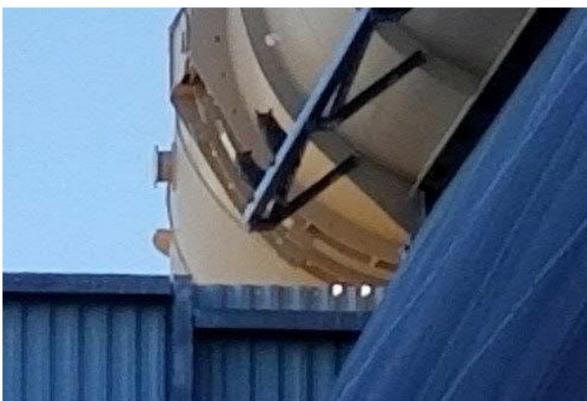


Photo 14, of a pair of great horned owls observed perched in the northwest corner of the ACC, 4/28/20.



Photo 15, Rattlesnake #9 observed by the DB under some piping associated with the ZLD equipment, 5/4/20.



Photo 16, of Rattlesnake #10 observed along the southern CGS perimeter fence, 5/8/20.



Photo 17, Rattlesnake #11 observed and relocated from the northern perimeter of the CGS, 5/11/20.



Photo 18, American kestrel nest observed within a chain hoist bucket on top of the ACC, 5/26/20.



Photo 19, of juvenile American kestrel prior to safe capture, 5/26/20.



Photo 20, of juvenile American kestrel after safe capture and prior to dropping off at Wildlife Care Association, 5/26/20.



Photo 21, of a meadow vole using a placed stick to crawl out of a pit trap at the CGS front gate, 5/26/20.



Photo 22, of 8 Myotis sp. and 1 Mexican freetail bats that were observed dead under the ACC, 5/28/20.



Photo 23, of a juvenile American kestrel observed within a cell in the ACC, 5/28/20.



Photo 24, of Rattlesnake # 12 observed dead along the CGS access road, 6/9/20.



Photo 25, of 2 old Myotis sp. bat carcasses observed under the ACC, 6/16/20.



Photo 26, of a black-tailed hare observed digging under the eastern perimeter fence, 6/16/20.



Photo 27, of terrestrial garter snake as observed in pit fall trap at the CGS back gate, 6/26/20.



Photo 28, of terrestrial garter snake after safe capture from steam turbine piping, 6/26/20.





Photo 30, of juvenile racoon stuck in Delevan substation perimeter fencing, 7/7/20.



Photo 31, of a green racer observed in snake pit fall trap at CGS front gate, 7/8/20.



Photo 32, 7 fresh Myotis sp. bat carcasses observed under ACC, 7/14/20.



Photo 33, of a single Myotis sp. bat carcass observed on the ground near HRSG Unit 2, 7/14/20.





Photo 35, rattlesnake #17 safely captured from under the CGS detention pond outfall, 7/21/20.



Photo 36, rattlesnake # 18 observed dead along the southern perimeter of the CGS facility, 7/21/20.



Photo 37, of screen placed in the bottom of the pit traps at the front and back CGS gates, 7/21/20.



Photo 38, 3 Myotis sp. bat carcasses observed under the ACC, 7/21/20.



Photo 39, of juvenile house finches as observed in their nest under an awning associated with the CIM's Unit 1 outbuilding, 7/21/20.





Photo 41, live Myotis sp. bat observed on floor of the CGS mechanics shop, 7/22/20.



Photo 42, of 7 fresh Myotis sp. bats observed under the CGS ACC, 7/28/20.



Photo 43, of live Myotis sp. bat observed under ACC and prior to safe release off site, 7/28/20.



Photo 44, of live Myotis sp. bat after safe release in a walnut orchard east of the CGS, 7/28/20.



Photo 45, of dead Myotis sp. bat observed on the ground by the Unit 1 HRSG, 7/28/20.



Photo 46, 4 fresh Myotis sp. bat carcasses observed under the ACC, 8/4/20.





Photo 48, of rattlesnake # 19 as observed dead along the southern perimeter fencing, 8/18/20.



Photo 49, rattlesnake # 20 as observed along northern perimeter of CGS facility, 8/18/20.



Photo 50, of 11 fresh Myotis sp. bat carcasses observed under the ACC, 8/18/20.



Photo 51, of injured juvenile A. kestrel as observed in the aqueous ammonia storage tank confinement sump, 8/18/20.



Photo 52, of a live big brown bat that was observed on the ground under the ACC by a CGS Operator, 8/22/20.



Photo 53, of 52 fresh Myotis sp. bat carcasses observed under the ACC during the bat carcass survey, 8/25/20.



Photo 54, of 3 dead red bat carcasses observed under the ACC during bat carcass surveys, 8/25/20.



Photo 55, of a live red bat and a live Myotis sp. bat drinking water supplied by the CGS DB, 8/25/20.





Photo 57, rattlesnake # 22 as observed coiled within a snake fence u-turn at the back gate, 9/2/20.



Photo 58, 12 Myotis sp. bat carcasses collected under ACC, 9/2/20



Photo 59, of 397 Myotis sp. bat carcasses observed and collected during ACC carcass cleanout, 9/12/20.



Photo 60, of 15 red bat carcasses observed and collected during ACC carcass cleanout, 9/12/20.



Photo 61, of 11 big brown bat carcasses observed and collected during ACC carcass cleanout, 9/12/20.



Photo 62, of 3 pallid bat carcasses observed and collected during ACC carcass cleanout, 9/12/20.



Photo 63, of a dead A. kestrel carcass observed and collected from the ACC, 9/12/20.



Photo 64, of rattlesnake #23 observed on the inside of southern CGS perimeter fence, 9/14/20.



Photo 65, of rattlesnake #24 observed coiled in the pit trap and the snake fence u-turn at the back gate, 9/20/20.



Photo 66, of rattlesnake # 25 coiled by the man door to the CGS warehouse, 9/21/20.



Photo 67, of a gopher snake prior to release in pit fall trap at back gate, 9/22/20.



Photo 68, of a feral cat carcass that was observed in the man lift during routine maintenance, 9/24/20.

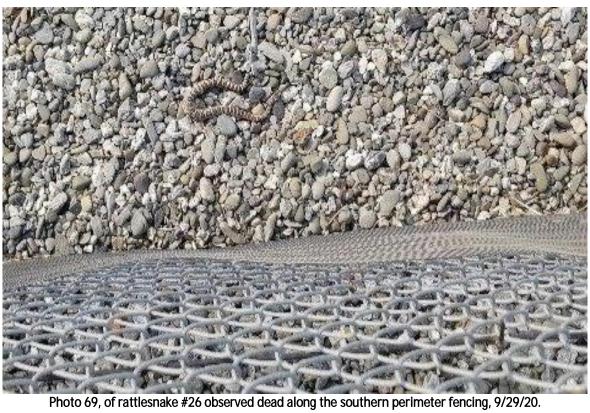




Photo 70, of 4 Myotis sp. bat carcasses observed under the CGS ACC, 9/29/20.



Photo 71, of rattlesnake #27 observed near the switchyard expansion project job trailer, 10/2/20.



Photo 72, of rattlesnake #28 observed at a man door in the CGS mechanics shop, 10/16/20.



Photo 73, of a terrestrial garter snake in the pit trap at the front gate, 10/16/20.



Photo 74, of rattlesnake #29 after safe capture and prior to safe release off site by the CGS DB, 10/18/20.



Photo 75, 2 Myotis sp. bat carcasses observed under the CGS ACC, 11/3/20.



Photo 76, of pit fall traps with covers on them for winter, 11/3/20.

Appendix B

CDFW Meeting Notes on Bats and CGS ACC

October 7, 2020

Bat Mortalities at Colusa Generating Station
Summary of meeting to discuss mitigation measures and information needs
October 7, 2020 – CGS conference room

Notes: Scott Osborn

Attendees:

Tim Wisdom, PGE-Plant Manager
Josh Harris, PGE-Operations Supervisor
Amy Krisch, PGE-Biologist
TJ Gomez, PGE-Compliance Manager
Dean Linville, PGE-Maintenance Supervisor
Jerry Salamy, Jacobs Project Manager
Rick Crowe, Jacobs CEC Designated Biologist
Scott Osborn, CDFW Wildlife Branch

Purpose: This meeting was requested by Scott Osborn to discuss patterns of bat mortality at the ACC unit at the CGS facility over the past year and to identify possibly mitigation measures that could be installed to prevent future high levels of bat mortality that were observed in 2020.

General Discussion:

- Both PGE and CDFW expressed concern about the number of bats killed at the ACC during the 2020 season and agreed to work together to find solutions. Jacobs will continue to be an important part of the process.
- PGE expressed concern that a proposed new mitigation, netting suspended below the ACC fan
 intake area, would be very expensive, might not be effective in eliminating/reducing bat
 mortality, and might add substantially to maintenance expenses.
- PGE also indicated that new mitigation costs are not currently budgeted and seeks to
 understand legal requirements and potential for grant or other funding to assist with mitigation.
 CDFW did not have any specific answers on legal requirements to reduce mortalities of nonlisted species for an approved project, but did note MYLU is among the species USFWS is
 considering for future listing and is probably among the Myotis species being killed at the
 facility. CDFW committed to getting better information on the legal circumstances related to
 this situation.
- Several questions about the mortality pattern were discussed. All parties agreed that additional information should be gathered before settling on a new mitigation strategy. These include:
 - o What is the role of external lights on bat mortality? The high mortality in summer 2020 followed the change in early 2020 of generally keeping all the external lights off. Did this trigger higher rates of mortality? To address, starting in spring 2021, the operators will experiment with the lights to look for an effect (lights on for a full week, then off for a full week, and repeat for several weeks).
 - Would general bat activity monitoring help us understand what is going on? CDFW suggested installing a year-round bat acoustic detector to record bat calls at the site.
 Correlation of the relative levels of bat activity with mortality rates at the ACC could then be assessed. Our expectation is that more bat activity will correspond to higher

- mortality, but if the two aren't correlated, then maybe there is something else happening. Also, depending on the timing of peak bat activity it may be possible to adjust operations to reduce mortality events.
- o Is the management of surrounding rice fields having an effect? The draw-down period of the rice fields occurs in July-August, corresponding to periods of high bat mortality. Incidental observations at CGS suggest insect abundance also peaks at that time.
- O Would netting installed directly on the existing fan intake grate be effective in preventing mortality? Would it inhibit effectiveness of cooling or create a new maintenance problem? Would air speeds at the grate be too high to allow bats to escape capture onto the mesh? To address some of these questions, the air velocity profile on the intake side of fan should be determined. Possible experiment in 2021 would include installation of mesh on one entire street of the ACC and determine effectiveness in reducing bat mortality in that street.

Other potential mitigations discussed:

- Ultrasonic hazing
- Light deterrents or lighting of underside of ACC to help bats avoid flying into the fan intake areas
- Mesh netting wrapped around the entire support structure of the ACC. Would that be less expensive to install, maintain, and allow for better fan operation than suspending a net below the fan intakes on the ACC?
- Installation of insect attractant lights at a distance from the ACC to reduce the number of insects and bat near the ACC

Other considerations:

- Why is CGS having this issue, when apparently the nearly-identical Gateway facility is not? Would a more detailed comparison of the two facilities be useful?
- What about the Sutter Energy Center (Calpine)?
- How did the Dominion Energy retrofit one of their facilities to reduce listed bat species mortalities?
- The spring maintenance shutdown in 2021 (42 days) will be much longer than the 2020 shutdown (29 days). The shutdown will be from March 10 to April 21, 2021.
- Rick gave the recently collected bat carcasses to Scott and will continue to save them for CDFW in the future.

Next Steps:

- 1. PGE (Josh Harris) will provide a sample output log of fan activity to CDFW (Scott Osborn). Depending on the nature of the data in the activity log, it might be useful to examine past and future activity records to look for correlations between fan activity and bat mortality.
- 2. PGE will share the air velocity profile at the intake side of the fans with CDFW so that an assessment of air speeds versus bat flight speeds can be made and help with mitigation planning.
- 3. CDFW (Scott Osborn) will talk with a bat echolocation expert (Joe Szewczak, HSU) in general terms about the current science on ultrasonic hazing of bats and whether such a system could be employed at a large building-type structure to keep bats away.

- 4. CDFW (Scott Osborn) will return to CGS in early November (if schedule permits) to install a long-term solar powered bat call recording station. If possible, we'd also like to return after dark to determine whether night shot video recorders and IR flood lamps would be useful in recording bat activity under the ACC intakes. The visit could also include an assessment of the existing ultrasonic noise levels in the vicinity of the ACC.
- 5. CDFW (Scott Osborn) will ask one of the state bat biologists in Texas if they are aware of the Dominion Energy issue and how it was resolved.
- 6. CDFW (Scott Osborn) will confer with the CEQA review shop at CDFW to gain a better understanding of the environmental review/legal requirements for developing mitigation measures for a new impact not known or foreseen at the time of project approval.
- 7. CDFW (Scott Osborn) will sort through the bat carcasses received from recent collections and attempt to identify the Myotis carcasses to species.
- 8. PGE and Jacobs will remove bat carcasses from the ACC during the planned shutdown December 4-16, 2020.





Hazardous Materials

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 | Day s 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 | | 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 | | cubic feet / pounds | 6 (3 per CEMS shelter) | 1200 cu ft / 0.374 lb | 1200 | 900 cu ft / 0.281 lb | | 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 | | 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 | Day s 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 | 1300 | 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 | しょりつ | 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) | Transform er | 521 gal | gallons | 1 | 521 gal | 521 | 391 | | 3,165 lb onsite daily |
| CROSSTRANS 106 and 206 | mineral oil | mineral oil | Electrical Equipment: Combustion Turbine-A GSU Transformer (E4) | Transform er | 14,950 gal | gallons | 1 | 14,950 gal | 14,950 | 11,213 | | 90,821 lb onsite daily |
| CROSSTRANS 106 and 208 | mineral oil | mineral oil | Electrical Equipment: Combustion Turbine-A Isolation Transformer (E10) | Transform er | 977 gal | gallons | 1 | 977 gal | 977 | 733 | | 5,935 lb onsite daily |
| CROSSTRANS 106 and 207 | mineral oil | mineral oil | Electrical Equipment: Combustion Turbine-B Excitation Transformer (E9) | Transform er | 521 gal | gallons | 1 | 521 gal | 521 | 391 | | 3,165 lb onsite daily |
| CROSSTRANS 106 and 207 | mineral oil | mineral oil | Electrical Equipment: Combustion Turbine-B GSU Transformer (E5) | Transform er | 14,950 gal | gallons | 1 | 14,950 gal | 14,950 | 11,213 | | 90,821 lb onsite daily |
| CROSSTRANS 106 and 208 | mineral oil | mineral oil | Electrical Equipment: Combustion Turbine-B Isolation Transformer (E10) | Transform er | 977 gal | gallons | 1 | 977 gal | 977 | 733 | | 5,935 lb onsite daily |
| CROSSTRANS 106 and 209 | mineral oil | mineral oil | Electrical Equipment: Station Service Transformer (E7) | Transform | 6,510 gal | gallons | 1 | 6,510 gal | 6,510 | 4,883 | 1065 | 39,548 lb onsite daily |
| CROSSTRANS 106 and 210 | mineral oil | mineral oil | | | 6,510 gal | gallons | 1 | 6,510 gal | 6,510 | 4,883 | 265 | 39,548 lb onsite daily |
| CROSSTRANS 106 and 209 | mineral oil | mineral oil | Electrical Equipment: Steam Turbine Excitation Transformer (E11) | Transform er | 747 gal | gallons | 1 | 747 gal | 747 | 560 | | 4,538 lb onsite daily |
| CROSSTRANS 106 and 208 | mineral oil | mineral oil | Electrical Equipment: Steam Turbine GSU Transformer (E6) | Transform er | 19,015 gal | gallons | 1 | 19,015 gal | 19,015 | 14,261 | 365 | 115,516 lb onsite daily |

| | 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) | | 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 |
| | | | | | | | | | | | | |
| 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 | Day s on Site | Estimated Pounds Per Year of Chemical |
| | 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 |

| Nalco 8131 | Coagulant (5 - 20%) | , | 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 |
| | | | | | | | | | | | | |
| 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 | Day s on Site | Estimated Pounds Per Year of Chemical |
| PC-7408 | Sodium Bisulfite (30 - 60%) | | 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 | | 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 |

| | | T | Water Treatment Building (Reverse | 55-gal | I | 1 | T | | 1 | 1 | 1 | |
|--------------------|---|--|---|----------------------------------|-------------------------------------|---------|-----------------|------------------------|----------------------------|----------------------------|---------------------|--------------------------|
| PERMA-CARE® PC- 98 | Sodium Hydroxide (5 - 15%) | High pH Cleaning (RO Cleaning Chemical) | Osmosis and UF Cleaners) (Site Feature #15) | Metal or | 55 gal | gallons | 4 | 220 gal | 220 | 165 | 365 | 940 |
| 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 | |
| | | | | | | | | | | | | |
| 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 | Day s on Site | Pounds Per |
| 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 | 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 | 36 | | 792 lbs onsite daily |
|-------------------------------------|--|--|--|-----------------------------------|------------|---------|----|-------------|--------|--------|----|----------|--------------------------|
| CROSSTRANS 106 and 208 | mineral oil | mineral oil | Electrical Equipment: Alternate Power Transformer (E12) | Transform er | 550 gal | gallons | 1 | 550 gal | 550 | 550 | 36 | L | 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 | 36 | | 2,045 lb onsite daily |
| MSDS #778984 | Turbine Oil | lube oil | Combustion Turbine-B HRSG (G2) | boiler feedwater pump | 141 gal | gallons | 2 | 282 gal | 282 | 212 | 36 | | 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 | 36 | 5 4 | 4,986 |
| | Aqueous Ammonia (19%) | | Aqueous Ammonia Storage Tank (M5) | Tank | 20,000 gal | gallons | 1 | 20,000 gal | 20,000 | 15,000 | 36 | 5 1 | 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 | 36 | 5 | |
| 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 | 36 | 5 | |
| Carbon Dioxide | Carbon Dioxide, Gas (99%) | | Near STG | compress ed gas cylinder | 436 cu ft | cu ft | 72 | 31392 cu ft | 31,392 | 23,544 | 36 | 5 | |
| Gasoline | Gasoline | Gasoline | Hazardous Materials Storage Area (M2) | Drum | 55 Gal | gallons | 2 | 110 gallons | 110 | | 55 | 365 3 | 3000 gallons |
| Diesel | Diesel | Diesel | Hazardous Materials Storage Area (M2) | Drum | 55 Gal | gallons | 2 | 110 gallons | 110 | | 55 | 365 2 | 2200 gallons |



Appendix 3, Noise-8



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 2020. There have been no noise complaints to date from anyone.



Appendix 4, SOIL & WATER-2



Per Soil and Water 8, the following is required after operation "the project owner shall provide in the annual compliance report information on the results of monitoring and maintenance activities.



State of California STATE WATER RESOURCES CONTROL BOARD



2019-2020

ANNUAL REPORT

FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2019 through June 30, 2020

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:

WDID: 5S06I022929

http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml

General Information

A. Facility Information

Business Name: Colusa Generating Station

Physical Address: 4780 Dirks Rd

City: Maxwell Contact Person: Steve Rovall

State: CA Phone: 530-934-9061

Zip: 95955 Email: sqr8@pqe.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 Contact Person: steve royall

 State: CA
 Phone: 530-934-9061

 Zip: 95955
 Email: sqr8@pqe.com

C. Facility Billing Information

Business Name: Pacific Gas Electric Co

Mailing Address: PO Box 398

City: Maxwell Contact Person: Tim Wisdon

 State: CA
 Phone: 530-934-9061

 Zip: 95955
 Email: T1WY@pqe.com

JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE OFFICER



2019-2020 Annual Report for WDID 5S06I022929



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 |



2019-2020 Annual Report for WDID 5S06I022929



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? 06/25/2020 |
| If No, see Attachment 1, Summary of Explanation. |



2019-2020 Annual Report for WDID 5S06I022929



| 12. Has the Discharger maintained records on-site for the reporting year in accordance with XXI.J.3? | |
|--|--|
| Yes | |
| If No, see Attachment 1, Summary of Explanation. | |
| 13. Did additional NAL exceedances occur in the same drainage area for the facility's Level 2 parameter(s) (if no Level 2 parameters, select No)? Yes No | |
| 14. Was the Level 2 ERA Technical Report updated (if no Level 2 parameters, select No)? Yes No If No, explain: | |
| 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 personne proposerly 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: stephen royall Title: director Date: 07/08/2020 | |
| = 01/00/2020 | |

2019-2020

Annual Report for WDID 5S06I022929

Summary of Explanations

| Explanation Question | Explanation Text |
|-----------------------------|--|
| Question 3 | Although there were two Qualifying Storm Events (QSEs) that resulted in discharge of storm water from the site during the first half of the reporting year (July 1, 2019 through December 31, 2019), no storm events resulted in discharges during the second half of the reporting year (January 1, 2020 through June 30, 2020); therefore it was only possible to collect and analyze samples from two QSEs during the 2019-2020 reporting year. |

Summary of Attachments

| Attachment Type | Attachment Title | , | Date Uploaded | Part Number | Attachment Hash |
|-----------------|------------------|---|---------------|-------------|---|
| | 2020.pdf | Memo regarding applicability of Steam Electric Power Generating facilities ELGs | 07/06/2020 | | a7b87311bd42766e15 a96b7490f635590be94 e5334323f74bda2ccc7 adf2b |

EXCEEDANCE RESPONSE ACTION LEVEL 2 TECHNICAL REPORT UPDATE

July 8, 2020

Prepared for

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

Waste Discharge Identification

5S06I022929

Prepared by

Terraphase Engineering Inc. 1404 Franklin Street, Suite 600 Oakland, California

QISP

Hans Kramer, QISP # 00153

Project Number 0234.002.001



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CERTIFICATION

| TRANSCOME BY IN STREET TO SECURE SHALL INSPERIOUS | |
|---|--|
| Approval and Certification of the Lev | rel 2 ERA Technical Report: |
| Facility Name: | Pacific Gas and Electric Company |
| Waste Discharge Identification (WDID): | 5S06l022929 |
| direction or supervision in accordand properly gather and evaluate the inf that manage the system or those pe of my knowledge and belief, the info | nis document and all attachments were prepared under my ce with a system designed to assure that qualified personnel cormation submitted. Based on my inquiry of the person or persons resons directly responsible for gathering the information, to the best formation submitted is, true, accurate, and complete. I am aware that comitting false information, including the possibility of fine and |

1.0 INTRODUCTION AND OVERVIEW

1.1 Introduction and Demonstration Selection

This Exceedance Response Action (ERA) Level 2 Technical Report Update (Report) has been prepared to discuss responses to Numeric Action Level (NAL) exceedances at the Pacific Gas and Electric Company (PG&E) Colusa Generating Station (Facility) in Maxwell, California. This Plan addresses all parameters entering or continuing Level 2 ERA exceedance status for the 2018-2019 reporting year at the Facility. Due to the Report being due in July of 2020, it also addresses monitoring results and Best Management Practice (BMP) implementation from the 2019-2020 reporting year.

This Report includes an Industrial Activity BMP Demonstration addressing implementation of certain BMPs discussed in the preceding ERA Level 2 Technical Report (2018 Level 2 Technical Report) dated December 30, 2018. This Report has been prepared in accordance with the 2015 California General Permit for Storm Water Discharges Associated with Industrial Activities (General Permit) by a registered Qualified Industrial Stormwater Practitioner (QISP).

1.2 Facility Information

The Facility is located at 4780 Dirks Road, Maxwell, California and is owned and operated by PG&E. The Facility produces electricity through the use of two natural-gas-fired combustion turbines and a steam powered generator. The operating portion of the site is approximately 19 acres and is located within a 100-acre parcel leased from Holthouse Ranch. The Facility consists of 27% impervious surfaces (buildings/equipment and pavement/concrete), while the remaining area is gravel and a stormwater detention basin.

A Site Plan provided as Figure 1 shows the Facility layout, drainage areas, and storm water controls.

1.3 Summary of Response Actions

BMP enhancements were implemented at the detention basin in early 2019 to further reduce sediment discharge from the basin. This consisted of geotextile fabric placement between the outflow check dam and discharge riser to reduce entrainment of sediment from the basin floor. Additionally, the Filtrexx Siltsoxx wattles with Metaloxx, which comprise the check dam and ionically adsorb iron particulates as storm water passes through the BMP, were refreshed. Finally, similar wattles were placed in the discharge pipe itself, oriented perpendicular to its flow, prior to the discharge location.

2.0 NAL EXCEEDANCES AND POLLUTANT SOURCES

2.1 NAL Exceedances

This Report addresses responses to the exceedances listed in Table 1.

Table 1: NAL Exceedances

| Constituent | Reporting Year(s) and ERA Level |
|-------------|---------------------------------|
| Iron | 2016-2017: Level 1 |
| | 2017-2018: Level 2 |
| | 2018-2019: Level 2 |
| | 2019-2020: Level 2 |

The average annual NAL for iron was exceeded during the 2015-2016, 2016-2017, and 2018-2019 reporting years. Following implementation of BMPs described in ERA compliance deliverables (the Level 1 Assessment and Report, and the Level 2 Action Plan and Technical Report), iron results have been reduced below the NAL for some samples, but the Facility is not yet eligible to return to Baseline status. It should be noted that iron concentrations were below 1.0 mg/L in the samples collected during both of the two Qualifying Storm Events (QSEs) that occurred during the 2019-2020 reporting year.

No other constituents have entered ERA Level 1 or 2 at the Facility at any time.

2.2 Industrial Pollutants and Sources

The industrial operations and pollutant sources listed in Table 2 have been identified as likely contributors to iron NAL exceedances.

Table 2: Industrial Pollutant Sources Potentially Contributing to NAL Exceedance

| Constituent | Location | Industrial Activity | Industrial Pollutant |
|-------------|---|--|---|
| Iron | Combustion Turbines (Main power plant area) | Power Plant Operations | Iron Particulates |
| Iron | Material storage area located at the south side of the facility west of the warehouse | Material storage, specifically pipe and other steel products | Iron Particulates/oxidation |
| Iron | Air Cooled Condenser (west of combustion turbines) | Steam Cooling | Iron/oxidation (Large exposed metal surfaces) |

Soils at the site are iron-rich, and sediment that enters the detention basin as a result of soil erosion (inside and outside the industrial area) has also been identified as a likely non-industrial source that increases iron concentrations detected in QSE samples.

Outfall CGS-01 is located at the southwest corner of the Facility and is the only discharge location for runoff from the Facility. A stormwater detention basin and outflow weir are located in the southwest corner prior to Outfall CGS-01.

3.0 LEVEL 2 ERA ACTIONS - BMP IMPLEMENTATION

3.1 Previous BMP and ERA Analysis

Minimum mandatory BMPs required by the General Permit were previously implemented at the Facility have not consistently resulted in iron levels at Outfall CGS-01 that are below the annual NAL concentrations contained in the Permit. BMPs implemented prior to the ERA Level 1 Evaluation included drain inlet filters, storm-resistant shelters, vegetated swale, oil/water separators, gravel caps, the detention basin, regular sweeping, secondary containment, and spill kits, among others.

The ERA Level 1 Evaluation for the Facility determined additional sweeping, coating steel material racks, and removing accumulated sediments within the basin was warranted. These improvements reduced the total iron load but were not successful at reducing total iron levels below the NAL.

The Level 2 Action Plan suggested Filtrexx Siltsoxx with Metalloxx wattles be installed at the detention basin discharge, which did control iron levels and maintain them below the NAL, until the 2018-2019 reporting year.

3.2 ERA Level 2 BMP Implementation

BMP improvements proposed in the 2018 Level 2 Technical Report included the installation of geotextile fabric between the Filtrexx SiltSoxx with Metallox wattles and the discharge of the detention basin.

3.2.1 Outfall CGS-01 BMP Installation

PG&E completed installation of the geotextile, refreshing of check dam wattles, and installation of wattles in the discharge pipe at Outfall CGS-01 in early 2019. Geotextile fabric was placed on the basin floor to minimize entrainment of sediment in basin discharge. Check dam wattles were refreshed and additional wattles installed in the discharge pipe to support further metals removal.

3.2.2 Outfall CGS-01 BMP Evaluation

Following installation of additional BMPs in 2019, iron was not reduced to below the NAL in site discharges. More recent results have shown improvement. The iron results for the 2018-2019 reporting year and 2019-2020 reporting year are presented in the table below.

Table 3: Outfall Monitoring Results

| Reporting Year | Date | Iron (mg/l) |
|----------------|------------|-------------|
| 2018-2019 | 11/29/2018 | 2.20 |
| | 1/15/2019 | 2.40 |
| | 2/2/2019 | 2.05 |
| | 2/13/2019 | 1.26 |

| | 2/26/2019 | 4.41 |
|-----------|-----------|-------|
| 2019-2020 | 12/2/2019 | 0.39 |
| 2019-2020 | 12/7/2019 | 0.586 |

Internal investigative sampling was conducted in December 2019 to better determine the industrial source(s) of iron. The sample, taken downgradient of an area of concrete immediately southeast of Combustion Turbine 1 that exhibited staining, had iron concentrations significantly lower than those detected in QSE samples; therefore, implementation of additional BMPs in this portion of the facility was not prioritized.

Low-altitude aerial photos of the shop building roof were taken and examined in early 2020 but evidence of deterioration (which could contribute to iron levels) was not apparent.

Additional BMPs being considered for implementation in 2020 include the following:

- Attach a lateral pipe to the discharge riser low-flow orifice, extending into the annular space between the existing Filtrexx wattles and discharge riser, with slits cut in the pipe wall and additional Filtrexx wattles and/or fabric coating the slits and pipe entrance.
- Check warranty on new building roof, gutters, and downspouts and potentially have them inspected/cleaned or painted/coated.
- Add downspout filters after any roof maintenance is completed.
- Place gravel bag check dams in northern perimeter swale prior to flow entering catch basin at facility's northwest corner. Potentially place rock, install blanketing, or establish vegetation on perimeter swale surface to minimize erosion.
- Maintain southern rock swale such that flow direction to catch basin (rather than directly to detention basin) is confirmed.
- Hydro-jet cleaning of site piping.
- Painting of oxidized surfaces (dumpsters, large piping/connections near Power Distribution Center, etc.).
- Install catch basin inserts with metal removing media.
- Implement erosion control BMPs on exposed soils in non-industrial areas (outside the facility perimeter fence, including the side slopes of the detention basin) to reduce ironrich sediment loads to the detention basin.
- Install additional rip-rap energy dissipation at locations where site storm drain piping discharges to detention basin.
- Install a silt curtain in the basin.

These options will be evaluated and the chosen BMP(s) will be implemented during the 2020-2021 reporting year.

January 6, 2020

Pacific Gas & Electric-Colusa Generating Lab ID : CH 1990428 P.O. Box 398 Customer : 7-10931

Maxwell, CA 95955

Laboratory Report

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

Case Narrative (2 pages): An overview of the work performed at FGL.

Sample Results (2 pages): Results for each sample submitted.

Quality Control (1 page): Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab ID# | Matrix |
|----------------------------|-----------------|------------------|----------------|--------|
| Stormwater Discharge Point | 12/04/2019 | 12/04/2019 | CH 1990428-001 | STM |

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. 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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

| 200.7 | 12/18/2019:219620 All analysis quality controls are within established criteria |
|-------|--|
| 3010 | 12/16/2019:214345 All preparation quality controls are within established criteria |

Inorganic - Wet Chemistry QC

| 1664A | 12/23/2019:214597 All preparation quality controls are within established criteria |
|-------|--|
| 2540D | 12/06/2019:213983 All preparation quality controls are within established criteria |

January 6, 2020 Lab ID : CH 1990428 **Pacific Gas & Electric-Colusa Generating** Customer : 7-10931

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. 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.

KD:DMB

Approved By Kelly A. Dunnahoo, B.S.



January 6, 2020 Lab ID : CH 1990428-001

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398 Sampled On : December 4, 2019-08:42 Maxwell, CA 95955

Sampled By : TJ

Received On : December 4, 2019-12:26

: Stormwater Matrix

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID#1 5S06I022929 **Project**

Sample Result - Inorganic

| Constituent | Result | PQL | MDL | Units | Dilution | DQF | Sample Preparation | | Sample Analysis | | | |
|-------------------------------|--------|------|--------|-------|----------|-----|--------------------|-----------|-----------------|--------|-------------|-----------------------|
| Constituent | Result | 1 QL | WIDL | Omts | Dilution | DQI | Method | ID | Time | Method | ID | Time |
| Metals, Total | | | | | | | | | | | | |
| Iron | 0.390 | 0.05 | 0.0014 | mg/L | 1 | | 3010 | 214345 12 | /16/19 08:46 | 200.7 | 219620-IT20 | 4 12/18/19-20:40AC |
| Wet Chemistry | | | | | | | | | | | | |
| Oil and Grease | 2.10 | 3 | 1.9 | mg/L | 1.1364 | J | 1664A | 214597 12 | /23/19 15:09 | 1664A | 219836-WT2 | 215 12/24/19-12:00AMM |
| Solids, Total Suspended (TSS) | 5.00 | 1.1 | 0.49 | mg/L | 1.0526 | | 2540D | 213983 12 | /06/19 10:30 | 2540D | 219073-WT2 | 215 12/09/19-14:10jba |

DQF Flags Definition:

ND=Non-Detected. PQL=Practical Quantitation Limit.

Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.



January 6, 2020 Lab ID : CH 1990428-001

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398 Sampled On : December 4, 2019-08:42 Maxwell, CA 95955

Sampled By

Received On : December 4, 2019-12:26

Matrix : Stormwater

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID#1 5S06I022929 **Project**

Sample Result - Support

| Constituent | Result | PQL | MDL | Units | Dilution | DQF | Sample Preparation | Sample Analysis | | sis |
|-------------|--------|------|------|-------|----------|-----|--------------------|-----------------|----------------|-----|
| Constituent | Result | 1 QL | WIDL | Omts | Dilution | DQI | Method ID Time | Method | ID Tir | ne |
| Field Test | | | | | | | | | | |
| pH (Field) | 7.14 | | | units | 1 | | 12/04/19 08:42 | 4500-H B | 12/04/19 08:42 | |

ND=Non-Detected. PQL=Practical Quantitation Limit.

January 6, 2020 Lab ID : CH 1990428 Pacific Gas & Electric-Colusa Generating : 7-10931 Customer

Quality Control - Inorganic

| Constituent | Method | Date/ID | Туре | Units | Conc. | QC Data | DQO | Note |
|-------------------|--------|--|-------------|--------------|------------|-----------------|---------------|-------------|
| Metals | | | | | | | | |
| Iron | 200.7 | 12/18/19:219620AC | CCV | ppm | 5.000 | 99.6 % | 90-110 | |
| | | | CCB | ppm | | -0.0163 | 0.03 | |
| | | | CCV | ppm | 5.000 | 100 % | 90-110 | |
| | | | CCB | ppm | | -0.0149 | 0.03 | |
| | 3010 | 12/16/19:214345JZA | Blank | mg/L | | -0.0060 | < 0.05 | |
| | | | LCS | mg/L | 4.000 | 97.2 % | 85-115 | |
| | | | MS | mg/L | 4.000 | 94.5 % | 75-125 | |
| | | (CC 1984242-001) | MSD | mg/L | 4.000 | 91.2 % | 75-125 | |
| | | | MSRPD | mg/L | 4.000 | 3.4% | ≤20.0 | |
| | | | PDS | mg/L | 4.000 | 91.7 % | 75-125 | |
| Wet Chem | | | | | | | | |
| Oil and Grease | 1664A | 12/23/19:214597AMM | Blank | mg/L | | 0.35 | <3 | |
| | | | LCS | mg/L | 44.89 | 98.0 % | 78-114 | |
| | | | BS | mg/L | 44.89 | 83.9 % | 78-114 | |
| | | | BSD | mg/L | 44.89 | 86.2 % | 78-114 | |
| | | | BSRPD | mg/L | 44.89 | 2.7% | ≤18 | |
| Solids, Suspended | 2540D | 12/06/19:213983jba | Blank | mg/L | | 0.00 | <1 | |
| | | | LCS | mg/L | 50.09 | 89.8 % | 61-112 | |
| | | | LCS | mg/L | 50.09 | 81.9 % | 61-112 | |
| | | (CH 1990141-002) | Dup | mg/L | | 5.8% | 20 | |
| | | (CH 1990331-001) | Dup | mg/L | | 4.7% | 20 | |
| Definition | | | | | | | | |
| IPDS | | stion Spike (PDS) not wit d on the LCS recovery. | hin Accepta | nce Range (A | R) because | of matrix inter | ferences affe | ecting this |

CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.

CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.

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

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

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

: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries

MSD are an indication of how that sample matrix affects analyte recovery.

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

affecting analyte recovery.

: Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that BSD

the preparation process is not affecting analyte recovery.

: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an Dup

indication of precision for the preparation and analysis.

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

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

and analysis.

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

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared. January 16, 2020

Pacific Gas & Electric-Colusa Generating Lab ID : CH 1990428 P.O. Box 398 Customer : 7-10931

Maxwell, CA 95955

Laboratory Report

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

Case Narrative (2 pages): An overview of the work performed at FGL.

(2 pages): Results for each sample submitted. Sample Results

Quality Control (1 page): Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab ID# | Matrix |
|----------------------------|-----------------|------------------|----------------|--------|
| Stormwater Discharge Point | 12/02/2019 | 12/04/2019 | CH 1990428-001 | STM |

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. 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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

| 200.7 | 12/18/2019:219620 All analysis quality controls are within established criteria |
|-------|--|
| 3010 | 12/16/2019:214345 All preparation quality controls are within established criteria |

Inorganic - Wet Chemistry QC

| 1664A | 12/23/2019:214597 All preparation quality controls are within established criteria |
|-------|--|
| 2540D | 12/06/2019:213983 All preparation quality controls are within established criteria |

Discussion of Analytical Results: -

Amended Report - 01/16/2020 - Amended to correct date sampled.

Page 1 of 5 Amended

January 16, 2020 Lab ID : CH 1990428 **Pacific Gas & Electric-Colusa Generating** Customer : 7-10931

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. 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.

KD:DMB

Approved By Kelly A. Dunnahoo, B.S.

Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2020-01-16



January 16, 2020 Lab ID : CH 1990428-001

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398 Sampled On : December 2, 2019-08:42 Maxwell, CA 95955

Sampled By : TJ

Received On : December 4, 2019-12:26

: Stormwater Matrix

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID#1 5S06I022929 **Project**

Sample Result - Inorganic

| Constituent | Result | PQL | MDL | Units | Dilution | DQF | Sample Preparation | | Sample Analysis | | | |
|-------------------------------|--------|------|--------|-------|----------|-----|--------------------|-----------|-----------------|--------|-------------|-----------------------|
| Constituent | Result | 1 QL | WIDL | Omts | Dilution | DQI | Method | ID | Time | Method | ID | Time |
| Metals, Total | | | | | | | | | | | | |
| Iron | 0.390 | 0.05 | 0.0014 | mg/L | 1 | | 3010 | 214345 12 | /16/19 08:46 | 200.7 | 219620-IT20 | 4 12/18/19-20:40AC |
| Wet Chemistry | | | | | | | | | | | | |
| Oil and Grease | 2.10 | 3 | 1.9 | mg/L | 1.1364 | J | 1664A | 214597 12 | /23/19 15:09 | 1664A | 219836-WT2 | 215 12/24/19-12:00AMM |
| Solids, Total Suspended (TSS) | 5.00 | 1.1 | 0.49 | mg/L | 1.0526 | | 2540D | 213983 12 | /06/19 10:30 | 2540D | 219073-WT2 | 215 12/09/19-14:10jba |

DQF Flags Definition:

Reported value is estimated; detected at a concentration below the PQL and above the laboratory MDL.

ND=Non-Detected. PQL=Practical Quantitation Limit.

Amended Page 3 of 5



January 16, 2020 : CH 1990428-001 Lab ID

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating P.O. Box 398

Maxwell, CA 95955

Sampled By

Sampled On

Received On : December 4, 2019-12:26

: December 2, 2019-08:42

Matrix : Stormwater

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID#1 5S06I022929 **Project**

Sample Result - Support

| Constituent | Result | PQL | MDL | Units | Dilution | DQF | Sample Preparation | | Sample Analysis |
|-------------|--------|------|------|-------|----------|-----|--------------------|----------|-----------------|
| Constituent | Result | 1 QL | WIDL | Omts | Dilution | DQI | Method ID Time | Method | ID Time |
| Field Test | | | | | | | | | |
| pH (Field) | 7.14 | | | units | 1 | | 12/02/19 08:42 | 4500-H B | 12/02/19 08:42 |

ND=Non-Detected. PQL=Practical Quantitation Limit.

January 16, 2020 Lab ID : CH 1990428 Pacific Gas & Electric-Colusa Generating : 7-10931 Customer

Quality Control - Inorganic

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|-------------------|--------|--------------------|-------|-------|-------|---------|--------|------|
| Metals | | | | | | | | |
| Iron | 200.7 | 12/18/19:219620AC | CCV | ppm | 5.000 | 99.6 % | 90-110 | |
| | | | CCB | ppm | | -0.0163 | 0.03 | |
| | | | CCV | ppm | 5.000 | 100 % | 90-110 | |
| | | | CCB | ppm | | -0.0149 | 0.03 | |
| | 3010 | 12/16/19:214345JZA | Blank | mg/L | | -0.0060 | < 0.05 | |
| | | | LCS | mg/L | 4.000 | 97.2 % | 85-115 | |
| | | | MS | mg/L | 4.000 | 94.5 % | 75-125 | |
| | | (CC 1984242-001) | MSD | mg/L | 4.000 | 91.2 % | 75-125 | |
| | | | MSRPD | mg/L | 4.000 | 3.4% | ≤20.0 | |
| | | | PDS | mg/L | 4.000 | 91.7 % | 75-125 | |
| Wet Chem | | | | | | | | |
| Oil and Grease | 1664A | 12/23/19:214597AMM | Blank | mg/L | | 0.35 | <3 | |
| | | | LCS | mg/L | 44.89 | 98.0 % | 78-114 | |
| | | | BS | mg/L | 44.89 | 83.9 % | 78-114 | |
| | | | BSD | mg/L | 44.89 | 86.2 % | 78-114 | |
| | | | BSRPD | mg/L | 44.89 | 2.7% | ≤18 | |
| Solids, Suspended | 2540D | 12/06/19:213983jba | Blank | mg/L | | 0.00 | <1 | |
| | | | LCS | mg/L | 50.09 | 89.8 % | 61-112 | |
| | | | LCS | mg/L | 50.09 | 81.9 % | 61-112 | |
| | | (CH 1990141-002) | Dup | mg/L | | 5.8% | 20 | |
| | | (CH 1990331-001) | Dup | mg/L | | 4.7% | 20 | |
| Definition | | | | | | | | |

: PDS failed, matrix - Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this PDS analyte. Data was accepted based on the LCS recovery.

CCV

: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.

CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.

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

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

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

MSD are an indication of how that sample matrix affects analyte recovery.

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

affecting analyte recovery.

: Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that BSD

the preparation process is not affecting analyte recovery.

: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an Dup

indication of precision for the preparation and analysis.

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

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

and analysis.

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

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

> Amended Page 5 of 5



Annual

CHAIN OF CUSTODY www.fglinc.com

| ļ | Analytical C | hemists | | | _ | | | | | <i>i</i> • | | <u> </u> | Laboratory Copy (1 of 3). | | | | | | , | |
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| | | | | | 74907 | 11/0 | 1/2019 | 9 | TI | ST DES | CRIPTIC | \ S\$ | g Revels | e side for | Contai | ner, Preserva | itive and S | ampling i | ntôrmation | |
| Client: Addres | Pacific Gas & Electric-Colusa (s: P.O. Box 398 Maxwell, CA 95955 | Generating | | | | ÷ , | / (M | (PL) | | , | | 4 | | | • | , | | | | K. J. K. M. L. |
| Contact Project Purchas | (530)934-9007 Fax: 6 Person: Charles Price To G Name: CPGS - Storm Eve se Order Number: Number: | | | (C) (Grab(G) | **SEE REVERSE SIDE*** | g Water(AgW) | (S) Source(SR) Waste(W) | Repeat(RPT) Replace(RPL) | EII | | PH 7-14 Condo 121 | | | | | | | | | |
| | ng Fee: Pickup F | ee: | | ing: Composite(C) | **SEE RE | Non-Potable(NP) Ag Water(AgW) | | Bacti Reason: Routine(ROUT) R Other(O) Special(SPL) | Test-Field pH = 15 MINUTE HOLD TIME!! 08 35 | 6100/70 | Field - pH Time | | Wet Chemistry-Oil&Grease-1664 32oz(AGJ)-H2SO4 | SS | | | | | | |
| | ositor Setup Date:// | Time: _ | | Method of Sampling: | | l | Oth | on: Ro Specia | Field p | Field - pH Date 12/ | Time | Metals, Total-Fe 250ml(P)-HNO3 | istry-0 -H2SC | Wet Chemistry-TSS 32oz(P) | | | | | | |
| | umber: CH \N \OY | | 7-10931 | od of | Type of Sample | Potable(P) | Type | - Reas | Test- = 15 | Hd - | Hd - 1 | ls, To n(P)-I | Chem (AGJ) | Chem (P) | | | İ | | | ĺ |
| Samp Num | Location Description | Date Sampled | Time Sampled | Meth | Туре | Potat | Bacti | Bacti Othe | Field !!pH | Field | Field | Meta 250n | Wet 32oz | Wet (320z) | | | | ļ | _ | |
| 1 | Stormwater Discharge Point | 12/2/19 | 0842 | G | STM | | | | | | _ | 1 | 1 | 1 | | | | | | |
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Visalia, CA 93291 Phone: (559) 734-9473 Fax: (559) 734-8435

contacts)

Doc ID: 3D0900002_SOP_12.DOC Page 1 of 1

4 a 0426

| Mulono | |
|---|----|
| Inter-Laboratory Condition Upon Receipt (Attach to COC) | |
| Sample Receipt at: STK CC CH VI | |
| 1. Number of ice chests/packages received:Shipping tracking # | |
| 2. Were samples received in a chilled condition? Temps: (201/60///// | |
| 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. | |
| should be magged unless the time since sample conection has been less than two hours. | |
| 3. Do the number of bottles received agree with the COC? Yes No N/A | |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | |
| 5. VOAs checked for Headspace? Yes No NA | |
| 6. Were sample custody seals intact? Yes No | |
| 7. If required, was sample split for pH analysis? Yes No XIA | |
| 8. Were all analyses within holding times at time of receipt? Yes No 9. 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): | |
| Sample Receipt at SP: | |
| 1. Were samples received in a chilled condition? Temps: 4//_5/_3_/_3_ | |
| Acceptable is above freezing to 6E C. If many packages are received at one time check for tests/H.T.'s/rushes/ | |
| 2. Shipping tracking numbers: 947/409183, 947/409182, 547/409184 | / |
| 79/100 100 / 1/40/100, 1/11 | |
| 3. Do the number of bottles received agree with the COC? (Yes) No N/A | |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | |
| 5. Were sample custody seals intact? Yes No N/A | |
| 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 | |
| Did bottle labels correspond with the client's ID's? Were all bottles requiring sample preservation properly preserved? No N/A FGL | |
| [Exception: Oil & Grease, VOA and CrVI verified in lab] | |
| 4. VOAs checked for Headspace? Yes No WA | |
| 5. Have rush or project due dates been checked and accepted? Yes No NA | |
| 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): | |
| | |
| 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: (7-10931) | |
| n Lot of Director Column Concentia | 1 |
| Initiated Ry | • |
| Problem: CH 1990428 | |
| Resolution: CTC-12/04/2019-17:08:55 | |
| | re |
| (Please use the back of this sheet for additional comme | |

Calibration of Hydrogen Ion Activity (pH)

| n | S | tr | u | m | 1e | n | t |
|---|---|----|---|---|----|---|---|
| | | | | | | | |

Make/Model HACH PHC 281

Serial #

110800059482

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.

| | | | Expiration | | |
|------------|-------|--------|------------|-------|-------------|
| | рН | Brand | Date | Type | Date Opened |
| Standard A | 4.00 | HACH | 5-23 | PROBE | |
| Standard B | 7.00 | HACH | 10-20 | PROBE | |
| Standard C | 10.00 | 110011 | 17-19 | 00-25 | |

| Date | Time | Standard (A,B,C) | Standard Value | Instrument Response | Calibrated (Yes | s Temp of Standard (F) | Sampler Initials | Comm | ents |
|---------|------|---------------------|-------------------|------------------------|-----------------|---------------------------|------------------|------|-------|
| 12-2-F | 0835 | A | 10 | 10.03 | YES | 72.2 | BR | SWPE | 98" 6 |
| 12-2-19 | 0835 | B | 7 | 7.03 | 463 | 72.2 | BR | | |
| 12-2-19 | 0835 | C | 4 | 4.02 | YES | 72.3 | BR | | |
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Utility Standard: ENV-2204P-01 Publication Date: 02/27/2017 Rev: 0

Field Measurement of Hydrogen Ion Activity (pH)

| Instrument | | |
|--------------|----------|---------|
| Make/Model # | HACH | PHC 281 |
| Serial # | 11080005 | 9482 |

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 |
|-----------|-------------|-------------------------|---------------|---|------------------------|--------------|---------------------|----------|
| CGS-01 | 12/2/19 | 0835 | 12/2/19 | 45 | 7.14 | 72.3 | BR | |
| | | | | | | | | |
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January 13, 2020

Pacific Gas & Electric-Colusa Generating Lab ID : CH 1990529 P.O. Box 398 Customer : 7-10931

Maxwell, CA 95955

Laboratory Report

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

Case Narrative (2 pages): An overview of the work performed at FGL.

Sample Results (2 pages): Results for each sample submitted.

Quality Control (1 page): Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab ID# | Matrix |
|----------------------------|-----------------|------------------|----------------|--------|
| Stormwater Discharge Point | 12/09/2019 | 12/09/2019 | CH 1990529-001 | STM |

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. 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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

| 200.7 | 01/09/2020:200496 All analysis quality controls are within established criteria. |
|-------|--|
| 3010 | 12/19/2019:214527 All preparation quality controls are within established criteria, except: The following note applies to Iron: 430 Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was accepted based on the LCS recovery. |

Inorganic - Wet Chemistry QC

| 1664A | 01/02/2020:200004 All preparation quality controls are within established criteria. |
|-------|---|
| 2540D | 12/13/2019:214276 All preparation quality controls are within established criteria. |

January 13, 2020 Lab ID : CH 1990529 **Pacific Gas & Electric-Colusa Generating** Customer : 7-10931

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. 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.

KD:DMB

Approved By Kelly A. Dunnahoo, B.S.



January 13, 2020 Lab ID : CH 1990529-001

Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398 Sampled On : December 9, 2019-07:58

Maxwell, CA 95955 Sampled By : Rick Duenas

Received On : December 9, 2019-12:55

Matrix : Stormwater

Description : Stormwater Discharge Point

Project : Colusa Power Generating Station WDID# 5S06I022929

Sample Result - Inorganic

| Constituent | Result | PQL | MDL | Units | Dilution | DOE | Sample Preparation | | | Sample Analysis |
|-------------------------------|--------|------|--------|-------|----------|-----|--------------------|-----------------------|--------|--------------------------------|
| Constituent | Result | 1 QL | MIDL | Omts | Dilution | DQI | Method | ID Time | Method | ID Time |
| Metals, Total | | | | | | | | | | |
| Iron | 0.586 | 0.05 | 0.0014 | mg/L | 1 | P | 3010 | 214527 12/19/19 13:35 | 200.7 | 200496-IT204 01/09/20-13:42AC |
| Wet Chemistry | | | | | | | | | | |
| Oil and Grease | ND | 3 | 1.9 | mg/L | 1.1364 | U | 1664A | 200004 01/02/20 11:44 | 1664A | 200172-WT215 01/04/20-15:59AMM |
| Solids, Total Suspended (TSS) | 7.85 | 1.2 | 0.49 | mg/L | 1.1628 | | 2540D | 214276 12/13/19 14:45 | 2540D | 219567-WT215 12/18/19-12:20jba |

DQF Flags Definition:

U Constituent results were non-detect.

P Post Digestion Spike (PDS) not within Acceptance Range (AR).

ND=Non-Detected. PQL=Practical Quantitation Limit.



January 13, 2020 Lab ID : CH 1990529-001

Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating P.O. Box 398

Maxwell, CA 95955

Sampled On : December 9, 2019-07:58

Sampled By : Rick Duenas

Received On : December 9, 2019-12:55

Matrix : Stormwater

Description : Stormwater Discharge Point

Project : Colusa Power Generating Station WDID# 5S06I022929

Sample Result - Support

| Constituent | Result | PQL | MDL | Units | Dilution | DQF | Sample Preparation | | Sample Analysis | | | |
|-------------|--------|-----|-----|-------|----------|-----|--------------------|----------|-----------------|----------|----------------|------|
| | | | | | | | Method | ID | Time | Method | ID | Time |
| Field Test | | | | | | | | | | | | |
| pH (Field) | 7.19 | | | units | 1 | | | 12/09/19 | 07:58 | 4500-H B | 12/09/19 07:58 | |

ND=Non-Detected. PQL=Practical Quantitation Limit.



January 13, 2020 Lab ID : CH 1990529 Pacific Gas & Electric-Colusa Generating Customer : 7-10931

Ouality Control - Inorganic

| Constituent | | Method | Date/ID | Туре | Units | Conc. | OC Data | DOO | Note | | | | |
|------------------|-------------------------------|---|------------------------------|---------------|-----------------|----------------|------------------|------------------|-------------|--|--|--|--|
| Metals | | | | -JF- | | | Q = | - 4- | | | | | |
| | | 200.7 | 01/00/00 0004064 G | CCV | | 5,000 | 100.0/ | 00 110 | | | | | |
| Iron | | 200.7 | 01/09/20:200496AC | CCV | ppm | 5.000 | 100 % | 90-110 | | | | | |
| | | | | CCB CCV | ppm | 5.000 | 0.0145 90.4 % | 0.03 90-110 | | | | | |
| | | | | CCV | ppm | 3.000 | -0.0006 | 0.03 | | | | | |
| | | 3010 | 12/19/19:214527JZA | Blank | ppm | | | | | | | | |
| | | 3010 | 12/19/19:21452/JZA | | mg/L | 4.000 | -0.0241 | < 0.05 | | | | | |
| | | | | LCS MS | mg/L | 4.000 4.000 | 94.0 % 108 % | 85-115 75-125 | | | | | |
| | | | (CD 1016712 001) | MSD | mg/L | 4.000 | | 75-125 75-125 | | | | | |
| | | | (SP 1916712-001) | MSRPD | mg/L | 4.000 | 118 % 3.9% | /3-123 ≤20.0 | | | | | |
| I | | | | PDS | mg/L | | | _ | 430 | | | | |
| | | | | PDS | mg/L | 4.000 | 128 % | 75-125 | 430 | | | | |
| Wet Chem | | | | | | | | | | | | | |
| Oil and Grease | | 1664A | 01/02/20:200004AMM | Blank | mg/L | | 0.45 | <3 | | | | | |
| | | | | LCS | mg/L | 44.89 | 90.2 % | 78-114 | | | | | |
| | | | | BS | mg/L | 44.89 | 81.2 % | 78-114 | | | | | |
| | | | | BSD | mg/L | 44.89 | 86.9 % | 78-114 | | | | | |
| | | | | BSRPD | mg/L | 44.89 | 6.7% | ≤18 | | | | | |
| Solids, Suspende | ed | 2540D | 12/13/19:214276jba | Blank | mg/L | | 0.00 | <1 | | | | | |
| , | | | | LCS | mg/L | 50.09 | 83.8 % | 61-112 | | | | | |
| | | | | LCS | mg/L | 50.09 | 99.8 % | 61-112 | | | | | |
| | | | (SP 1916677-002) | Dup | mg/L | | 3.3% | 20 | | | | | |
| Definition | | • | - | _ | | | | | | | | | |
| PDS | | | stion Spike (PDS) not wit | hin Accepta | ince Range (A | R) because | of matrix inter | ferences affe | ecting this | | | | |
| | | | ed on the LCS recovery. | | | | | | | | | | |
| CCV | | | ation - Analyzed to verify | | | | riteria. | | | | | | |
| CCB | | | - Analyzed to verify the in | | | | | _ | | | | | |
| Blank | | | erify that the preparation p | | | | | | | | | | |
| LCS | | | Sample - Prepared to verif | | | | | | | | | | |
| MS | | | ple is spiked with a know | n amount o | f analyte. The | recoveries a | ire an indicatio | on of how tha | at sample | | | | |
| | matrix affects and | | 2.65 | | | | | | | | | | |
| MSD | | | /MSD pair - A random sar | | ate is spiked v | with a knowi | amount of an | alyte. The re | coveries | | | | |
| | | | mple matrix affects analyt | | | | | | | | | | |
| BS | | | ed with a known amount | or analyte. I | t is prepared t | o verity that | tne preparatio | n process is | not | | | | |
| | affecting analyte | | NOTO ' A 11 1 1 1' | , , ,, | 1 24 1 | , . | 1 . 7. 1 | 1. | ·c .1 · | | | | |
| BSD | | | SSD pair - A blank duplic | ate is spiked | i with a know | n amount of | analyte. It is p | prepared to v | erity that | | | | |
| | | the preparation process is not affecting analyte recovery. Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an | | | | | | | | | | | |
| Dup | | | | prepared a | na analyzed ii | auplicate. | ine relative pe | rcent differe | nce is an | | | | |
| • | | | reparation and analysis. | 1.7 | 1:00 | | | · c .1 | .• | | | | |
| MSRPD | : MS/MSD Relate and analysis. | ive Percent Dif | ference (RPD) - The MS | relative per | cent differenc | e is an indica | ation of precisi | ion for the pi | reparation | | | | |

BSRPD

ND

DQO

Explanation

and analysis.

accepted based on the LCS recovery.

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

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

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

: Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was

January 16, 2020

Pacific Gas & Electric-Colusa Generating Lab ID : CH 1990529 P.O. Box 398 Customer : 7-10931

Maxwell, CA 95955

Laboratory Report

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

Case Narrative (2 pages): An overview of the work performed at FGL.

Sample Results (2 pages): Results for each sample submitted.

Quality Control (1 page): Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

| Sample Description | Date Sampled | Date Received | FGL Lab ID# | Matrix |
|----------------------------|-----------------|------------------|----------------|--------|
| Stormwater Discharge Point | 12/07/2019 | 12/09/2019 | CH 1990529-001 | STM |

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. 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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

| 200.7 | 01/09/2020:200496 All analysis quality controls are within established criteria. |
|-------|--|
| 3010 | 12/19/2019:214527 All preparation quality controls are within established criteria, except: The following note applies to Iron: 430 Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was accepted based on the LCS recovery. |

Inorganic - Wet Chemistry QC

| 1664A | 01/02/2020:200004 All preparation quality controls are within established criteria. |
|-------|---|
| 2540D | 12/13/2019:214276 All preparation quality controls are within established criteria. |

January 16, 2020 Lab ID : CH 1990529 **Pacific Gas & Electric-Colusa Generating** Customer : 7-10931

Discussion of Analytical Results: -

Amended Report - 01/16/2020 - Amended to correct 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. 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.

KD:DMB

Approved By Kelly A. Dunnahoo, B.S.

Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2020-01-16



January 16, 2020 Lab ID : CH 1990529-001

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398 Sampled On : December 7, 2019-07:58 Maxwell, CA 95955

Sampled By : Rick Duenas

Received On : December 9, 2019-12:55

Matrix : Stormwater

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID# 5S06I022929 **Project**

Sample Result - Inorganic

| Constituent | Result PQL MDL Units Dilution DQ | | POI MDI | | Dilution | DOE | Sam | ple Prepa | aration | | Sample Analysis | | |
|-------------------------------|----------------------------------|------|---------|----------------|----------|--------|-------|-----------|--------------|-------|-----------------|----------------------|--|
| Constituent | | | DQI | Method ID Time | | Method | ID | Time | | | | | |
| Metals, Total | | | | | | | | | | | | | |
| Iron | 0.586 | 0.05 | 0.0014 | mg/L | 1 | P | 3010 | 214527 12 | /19/19 13:35 | 200.7 | 200496-IT204 | 4 01/09/20-13:42AC | |
| Wet Chemistry | | | | | | | | | | | | | |
| Oil and Grease | ND | 3 | 1.9 | mg/L | 1.1364 | U | 1664A | 200004 01 | /02/20 11:44 | 1664A | 200172-WT2 | 15 01/04/20-15:59AMM | |
| Solids, Total Suspended (TSS) | 7.85 | 1.2 | 0.49 | mg/L | 1.1628 | | 2540D | 214276 12 | /13/19 14:45 | 2540D | 219567-WT2 | 15 12/18/19-12:20jba | |

DQF Flags Definition:

Constituent results were non-detect.

Post Digestion Spike (PDS) not within Acceptance Range (AR).

ND=Non-Detected. PQL=Practical Quantitation Limit.



January 16, 2020 : CH 1990529-001 Lab ID

> Customer ID : 7-10931

Pacific Gas & Electric-Colusa Generating

P.O. Box 398

Maxwell, CA 95955

Sampled On : December 7, 2019-07:58 Sampled By : Rick Duenas

Received On : December 9, 2019-12:55

Matrix : Stormwater

Description : Stormwater Discharge Point

: Colusa Power Generating Station WDID# 5S06I022929 **Project**

Sample Result - Support

| Constituent | Result | PQL | MDI | MDL Units | Dilution | DQF | Sam | ple Prep | paration | | nalysis | |
|-------------|--------|------|------|-----------|----------|-----|--------|----------|----------|----------|----------------|------|
| Constituent | Result | 1 QL | WIDL | Omts | Dilution | DQI | Method | ID | Time | Method | ID | Time |
| Field Test | | | | | | | | | | | | |
| pH (Field) | 7.19 | | | units | 1 | | | 12/07/19 | 07:58 | 4500-H B | 12/07/19 07:58 | |

ND=Non-Detected. PQL=Practical Quantitation Limit.

Amended Page 4 of 5 January 16, 2020 Lab ID : CH 1990529 Pacific Gas & Electric-Colusa Generating Customer : 7-10931

Quality Control - Inorganic

| Constituent | | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|-----------------------------------|---|---|--|--|--|---|--|--|-------------|
| Metals | | | | | | | | | |
| Iron | | 200.7 | 01/09/20:200496AC | CCV CCB CCV CCB | ppm ppm ppm ppm | 5.000 5.000 | 100 % 0.0145 90.4 % -0.0006 | 90-110 0.03 90-110 0.03 | |
| | | 3010 | 12/19/19:214527JZA (SP 1916712-001) | Blank LCS MS MSD MSRPD PDS | mg/L mg/L mg/L mg/L mg/L mg/L | 4.000 4.000 4.000 4.000 4.000 | -0.0241 94.0 % 108 % 118 % 3.9% 128 % | <0.05 85-115 75-125 75-125 ≤20.0 75-125 | 430 |
| Wet Chem | | | | | | | | | |
| Oil and Grease | | 1664A | 01/02/20:200004AMM | Blank LCS BS BSD BSRPD | mg/L mg/L mg/L mg/L mg/L | 44.89 44.89 44.89 44.89 | 0.45 90.2 % 81.2 % 86.9 % 6.7% | <3 78-114 78-114 78-114 ≤18 | |
| Solids, Suspended | d | 2540D | 12/13/19:214276jba (SP 1916677-002) | Blank LCS LCS Dup | mg/L mg/L mg/L mg/L | 50.09 50.09 | 0.00 83.8 % 99.8 % 3.3% | <1 61-112 61-112 20 | |
| Definition | | | (12.11.11.1) | 1 | | I. | | | |
| PDS CCV CCB Blank LCS | analyte. Data was : Continuing Cal : Continuing Cal : Method Blank - | s accepted base ibration Verific ibration Blank Prepared to ve | stion Spike (PDS) not wit and on the LCS recovery. cation - Analyzed to verify - Analyzed to verify the in- crify that the preparation p Cample - Prepared to verif | y the instrum nstrument ba process is no | nent calibrationseline is with | on is within on in criteria. | criteria. | ples. | ecting this |
| MS | matrix affects an | alyte recovery. | | | • | | | | 1 |
| MSD | are an indication | of how that sa | /MSD pair - A random sa mple matrix affects analyt | te recovery. | • | | | • | |
| BS | affecting analyte | recovery. | ed with a known amount | • | | • | | • | |
| BSD | the preparation p | rocess is not at | BSD pair - A blank duplic fecting analyte recovery. | • | | | | • | • |
| Dup | | | sample with each batch is reparation and analysis. | s prepared ar | nd analyzed ir | duplicate. | The relative pe | ercent differe | nce is an |

: Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte. Data was accepted based on the LCS recovery.

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

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

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

Amended Page 5 of 5

MSRPD

BSRPD

ND

DQO

Explanation

and analysis.

and analysis.

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



Annual

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CHAIN OF CUSTODY www.fglinc.com

Laboratory Copy (1 of 3)

| | | | | · | _ | | | | . | | | | | | | , | | | | |
|-------------|---|------------------|-----------------|--------------|-----------------------|-------------------------------|------------------------|--|--|----------------|-----------------|-----------------------------------|--|------------------------------|-------------|------------|--------------|-------------|----------|--------------|
| | | | | <u> </u> | 74907 | 1//0 | 1/2019 | | ‡ TI | ST DES | CRIPTIC |)N Se | e Revers | e side for | Containe | Preserva | tive and Sig | mpling into | ormation | |
| | Pacific Cas & Electric-Colusa C ss: P.O. Box ² 398 Maxwell, CA 95955 | Generating ,/ | | | | , | (W) | KFL) | E-12Pt | | | | | | | | | | | } |
| | (530)934-9007 Fax: (530)934-9007 Fax: (530)934-9007 | 530)934-90: | | | # | | R) Waste(W) | Replace | <u>o</u> | | | | | | | | | | | |
| Project | Name: CPGS - Storm Ever se Order Number: | _ | | Grab(G) | E SIDE | er(AgW | ource(S) | (RPT) | rti | | | | | | | | | | | |
| | Number: | | | Composite(C) | ERS | y Wal | S (S | bear | Ei . | | | | | | | | | | | |
| Sample | Sampler(s) RICK DUENAS | | | | **SEE REVERSE SIDE** | Non-Potable(NP) Ag Water(AgW) | System(SYS) Source(SR) | Bacti Keasoli: KoutifickOO1) Repeat(KF1) Replace(KFL) Other(O) Special(SPL) | Test-Field pH = 15 MINUTE HOLD TIME!! | | | | Wet Chemistry-Oil&Grease-1664 32oz(AGI)-H2SO4 | | | | | | | : |
| | Sampling Fee: Pickup Fee: Compositor Setup Date:/ | | | | ople | Non-Potz | Bacti Type: Other(O) | ir. Koullik Special(SPI | ield pH MINUTE 1 |)ate | lime | al-Fe NO3 | try-Oil&G H2SO4 | Wet Chemistry-TSS 32oz(P) | | | | | | |
| Lab N | umber: CH 1990S2 | 9 | 7-10931 | d of S | f San | | lype: | O) S | lest-F = 15 l | - pH Date | PH J | , Tota (P)-H | hemis \GJ)-I | hemis | | | | | | |
| Samp Num | Location Description | Date Sampled | Time Sampled | Metho | Type of Sample | Potable(P) | Bacti 7 | other(| Field 7 | Field - | Field - pH Time | Metals, Total-Fe 250ml(P)-HNO3 | Wet C 32oz(/ | Wet C | | | | | | |
| 1 | Stormwater Discharge Point | 12/7 | 0758 | G | STM | NP | | | ぴぴろ | 12/7 | <i>ത</i> 3 | | 1 | 1 | | | | | | |
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| Remar | Remarks: | | | | Relinquished TT GOMER | | Date: | Time: | | quished m h | |)2/ Da | ate: | Time: 1 | Relinquishe | d | Date: | Time: | | |
| . , i | | | | eived F | - | K | | Date: | Time: | Rece | ived By:, | | D: لر: | ite: | Time: | Racetvel B | X 12 | Date: | Tipae: | |

Corporate Offices & Laboratory

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FGL Environmental Revision Date: 10/09/14

contacts)

Doc ID: 3D0900002 SOP 12.DOC Page 1 of 1

990529

Inter-Laboratory Condition Upon Receipt (Attach to COC) CH VI Sample Receipt at: STK CC Number of ice chests/packages received: Shipping tracking # 1. Were samples received in a chilled condition? Temps: 6 2. 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. N/A 3. Do the number of bottles received agree with the COC? No 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) No 5. VOAs checked for Headspace? No Were sample custody seals intact? Yes 6. No 7. If required, was sample split for pH analysis? Yes Nο 8. Were all analyses within holding times at time of receipt? No Yes. Verify sample date, time and sampler name 9. 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): Sample Receipt at SP: Were samples received in a chilled condition? Temps: Acceptable is above freezing to 6E C. If many packages are received at one time check for tests/H.T.'s/rushes/ 2. Shipping tracking numbers: Do the number of bottles received agree with the COC? 3. N/A Were samples received intact? (i.e. no broken bottles, leaks etc.) 4. No Were sample custody seals intact? 5. Yes No Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels. Sample Verification, Labeling and Distribution: Were all requested analyses understood and acceptable? No 1. 2. Did bottle labels correspond with the client's ID's? No 3. Were all bottles requiring sample preservation properly preserved? No N/A **FGL** [Exception: Oil & Grease, VOA and CrVI verified in lab] Yes 4. VOAs checked for Headspace? No Have rush or project due dates been checked and accepted? Yes 5. No Were all analyses within holding times at time of receipt? Xes No Attach labels to the containers and include a copy of the COC for lab delivery. Sample Receipt, Login and Verification completed by (initials): **Discrepancy Documentation:** Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved. Person Contacted: Phone Number: Initiated By: Date: Problem: Resolution: (7-10931)Pacific Gas & Electric-Colusa Generatin Person Contacted: 2. Initiated By: Problem: CH 1990529 Resolution: CTC-12/09/2019-16:49:34 nber here (Please use the back of this sheet for additional

Calibration of Hydrogen Ion Activity (pH)

| Instrument | | |
|------------|--------------|--|
| Make/Model | HACH 40d | |
| Serial # | 167472587013 | |

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.

| | | | Expiration | | |
|------------|-------|-------|------------|------|-------------|
| | рН | Brand | Date | Type | Date Opened |
| Standard A | 4.00 | HACH | 5/23 | | 5/20/19 |
| Standard B | 7.00 | HACH | 5/20 | | 12/2/19 |
| Standard C | 10.00 | HACH | 10/20 | | 5/20/19 |

| Date | Time | Standard (A,B,C) | Standard Value | Instrument Response | Calibrated (Yes / No) | Temp of Standard | Sampler Initials | Comments |
|---------|-------|---------------------|-------------------|------------------------|--------------------------|------------------|------------------|----------|
| 12/7/19 | 67:50 | | 4 | 4.0 | 1105 | 71.4 | RO | Comments |
| 12/7/19 | 27:50 | AB | 7 | 7.01 | yes Yes | 69.3 | RD RD | |
| 12/2/19 | 27.50 | C | 10 | 10.05 | Yes | 70.5 | PD PD | |
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Field Measurement of Hydrogen Ion Activity (pH)

| Instrument | | | | | | | | |
|------------------|---------------------------|-------------------------|-----------------------------|--|------------------------|----------------|---------------------|----------|
| Make/Model # | _HACH | 40 | d | | | | 2 3 | |
| Serial # | HACH 1604 | 7258 | 7013 | | | | 2 1 | |
| Calibration: Ens | ure the instrument t | | , | | | | | |
| Sample ID | Sample Date (mm/dd/yy) | Sample Time (hr:min) | Analysis Date (mm/dd/yy) | Analysis within 15 min of sample? Yes, No | Instrument Response | Temp (°C) 1 | Sampler Initials | Comments |
| C95-01 | 12-7-19 | 07:58 | 08:03 | | 7.19 | 57.8 | RD | |
| | | | | | | | | |
| 4.00 | | | | | | | | 3 |
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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 2020 year.



Appendix 6, SOIL & WATER-8



Appendix 6, SOIL & WATER-8

All water used during 2020 was supplied by the Tehama Colusa Canal Authority. The total amount of water used during 2020 was 22,733,244 gallons.



Yea 2020 CEC Plant ID 06-AFC-9 EIA Plant ID Section 1. Power Plant Water Supply la Primary Water Supply Source Backup Water Supply Source Agricultural Canal NΛ Name of Primary Water Purveyor, Name of Backup Water Purveyor, Tehema Colusa Canal Authority/Glenn Colusa 1b Π Wastewater Supplier, or Well ID(s) Wastewater Supplier, or Well ID(s) Irrigation District NA Backup Water Supply Average Total Primary Water Supply Average Total 10 Dissolved Solids (mg/l) Dissolved Solids (mg/l) Regional Water Quality Control Board Id Central Valley Region Water Quality Control Board NA Section 2. Power Plant Water Use Check this box if water use at the power plant is not metered and cannot reasonably estimated. 2a Check the boxes below if the categorized water use is not metered and cannot reasonably be estimated or is not applicable. Volume of Water Required (in gallons) Solar Dust Other Daily Sanitation Landscaping Mirror Washing Water Use Maximum Suppression January 0 383,720 February 0 584,168 March 0 606,228 April 5370 1,177,164 2b May 10610 622,768 June 16300 2,281,740 July 13180 3,410,784 August 18030 4,639,896 September 7280 3,608,468 October 10410 4,508,056 November 9710 367,928 December 8420 542,384 Metering Frequency Metering Technology 2c Recorded Daily Inline Analog Meter Section 3. Power Plant Wastewater Disposal Volume of Discharged Daily Monthly Total 3a Check box if wastewater is not metered and cannot reasonably estimated. Waste (in gallons) Maximum 3b Wastewater Disposal Method Zero Liquid Discharge/Septic Tank January NA 3c Average Total Dissolved Solids (mg/l) NΛ February NA 3d Equipment Manufacturer Aquatech March NΛ 3e Year of Installation 2010 April NΛ May NΛ 3i Waste Reduction Equipment or Zero Liquid Discharges 3f June NA Measures Taken July NA Name of the Facility or Water Body August NΛ NA 3g Receiving the Wastewater September NΛ Notes: Process water is run through a crystallizer to remove solids and vaporize liquid October NA 3h November NA December NA

| | Colusa Generating Station | | |
|-----------------|--------------------------------------|--|--|
| Totalized Value | Gallons/Day Gallons Cumulative Total | | |

| Date | Tarab advida | | Callaga Consulation To Tallal |
|-------------------|-----------------|-------|-------------------------------|
| Date | Totalized Value | · • | Gallons Cumulative Total |
| 01-Jan-20 00:00:0 | | 0 | 0 |
| 02-Jan-20 00:00:0 | | 7860 | 7860 |
| 03-Jan-20 00:00:0 | | | 42224 |
| 04-Jan-20 00:00:0 | | 22368 | 64592 |
| 05-Jan-20 00:00:0 | | 6780 | 71372 |
| 06-Jan-20 00:00:0 | | 19468 | 90840 |
| 07-Jan-20 00:00:0 | | | 112412 |
| 08-Jan-20 00:00:0 | | | 155616 |
| 09-Jan-20 00:00:0 | | 8812 | 164428 |
| 10-Jan-20 00:00:0 | | 7696 | 172124 |
| 11-Jan-20 00:00:0 | | 8136 | 180260 |
| 12-Jan-20 00:00:0 | | 8008 | 188268 |
| 13-Jan-20 00:00:0 | | 7744 | 196012 |
| 14-Jan-20 00:00:0 | 00 60772036 | 7628 | 203640 |
| 15-Jan-20 00:00:0 | 00 60814088 | 42052 | 245692 |
| 16-Jan-20 00:00:0 | 00 60821972 | 7884 | 253576 |
| 17-Jan-20 00:00:0 | 00 60830280 | 8308 | 261884 |
| 18-Jan-20 00:00:0 | 00 60838180 | 7900 | 269784 |
| 19-Jan-20 00:00:0 | 00 60845828 | 7648 | 277432 |
| 20-Jan-20 00:00:0 | 00 60854396 | 8568 | 286000 |
| 21-Jan-20 00:00:0 | 00 60862632 | 8236 | 294236 |
| 22-Jan-20 00:00:0 | 00 60877380 | 14748 | 308984 |
| 23-Jan-20 00:00:0 | 00 60885660 | 8280 | 317264 |
| 24-Jan-20 00:00:0 | 00 60894420 | 8760 | 326024 |
| 25-Jan-20 00:00:0 | 00 60903116 | 8696 | 334720 |
| 26-Jan-20 00:00:0 | 00 60911672 | 8556 | 343276 |
| 27-Jan-20 00:00:0 | 00 60919960 | 8288 | 351564 |
| 28-Jan-20 00:00:0 | 00 60928168 | 8208 | 359772 |
| 29-Jan-20 00:00:0 | 00 60936284 | 8116 | 367888 |
| 30-Jan-20 00:00:0 | 00 60944292 | 8008 | 375896 |
| 31-Jan-20 00:00:0 | 00 60952116 | 7824 | 383720 |
| 01-Feb-20 00:00:0 | 00 61000596 | 48480 | 432200 |
| 02-Feb-20 00:00:0 | 00 61007524 | 6928 | 439128 |
| 03-Feb-20 00:00:0 | 00 61014372 | 6848 | 445976 |
| 04-Feb-20 00:00:0 | 00 61021152 | 6780 | 452756 |
| 05-Feb-20 00:00:0 | 00 61028660 | 7508 | 460264 |
| 06-Feb-20 00:00:0 | | 7344 | 467608 |
| 07-Feb-20 00:00:0 | 00 61043416 | 7412 | 475020 |
| 08-Feb-20 00:00:0 | 00 61078200 | 34784 | 509804 |
| 09-Feb-20 00:00:0 | | 28304 | 538108 |
| 10-Feb-20 00:00:0 | | 6736 | 544844 |
| 11-Feb-20 00:00:0 | | 6964 | 551808 |
| 12-Feb-20 00:00:0 | | 6908 | 558716 |
| / 55 _5 55 | | 2230 | 323.10 |

| 13-Feb-20 00:00:00 | 61133992 | 6880 | 565596 |
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| 14-Feb-20 00:00:00 | 61141220 | 7228 | 572824 |
| 15-Feb-20 00:00:00 | 61148504 | 7284 | 580108 |
| 16-Feb-20 00:00:00 | 61200148 | 51644 | 631752 |
| 17-Feb-20 00:00:00 | 61231424 | 31276 | 663028 |
| 18-Feb-20 00:00:00 | 61237708 | 6284 | 669312 |
| 19-Feb-20 00:00:00 | 61244068 | 6360 | 675672 |
| 20-Feb-20 00:00:00 | 61294896 | 50828 | 726500 |
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| 24-Feb-20 00:00:00 | 61397136 | 42072 | 828740 |
| 25-Feb-20 00:00:00 | 61404460 | 7324 | 836064 |
| 26-Feb-20 00:00:00 | 61464064 | 59604 | 895668 |
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| 04-Mar-20 00:00:00 | 61610764 | 35864 | 1042368 |
| 05-Mar-20 00:00:00 | 61653268 | 42504 | 1084872 |
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| 08-Mar-20 00:00:00 | 61708640 | 6680 | 1140244 |
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| 11-Mar-20 01:00:00 | 61777484 | 6380 | 1209088 |
| 12-Mar-20 01:00:00 | 61829092 | 51608 | 1260696 |
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| 18-Mar-20 01:00:00 | 61980836 | 5540 | 1412440 |
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| 01-Apr-20 00:00:00 | 62148152 | 5640 | 1579756 |
| 02-Apr-20 00:00:00 | 62153932 | 5780 | 1585536 |
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| 05-Apr-20 00:00:00 | 62258572 | 37944 | 1690176 |
| 06-Apr-20 00:00:00 | 62264732 | 6160 | 1696336 |
| 07-Apr-20 00:00:00 | 62275812 | 11080 | 1707416 |
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| 14-Apr-20 00:00:00 | 62349352 | 3756 | 1780956 |
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| 18-May-20 00:00:00 | 63371584 | 1760 | 2803188 |
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| 01-Jun-20 00:00:00 | 63990420 | 47976 | 3422024 |
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| 27-Aug-20 00:00:00 | 73711032 | 138872 | 13142636 |
| 28-Aug-20 00:00:00 | 73852648 | 141616 | 13284252 |
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| 01-Sep-20 00:00:00 | 74399544 | 124680 | 13831148 |
| 02-Sep-20 00:00:00 | 74599344 | 187896 | 14019044 |
| • | 74652040 | 64600 | 14019044 |
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| 04-Sep-20 00:00:00 | 74787696 | 135656 | 14219300 |
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| 14-Sep-20 00:00:00 | 76233560 | 78640 | 15665164 |
| 15-Sep-20 00:00:00 | 76352152 | 118592 | 15783756 |
| 16-Sep-20 00:00:00 | 76468368 | 116216 | 15899972 |
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| 20-Sep-20 00:00:00 | 76901856 | 97568 | 16333460 |
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| 22-Sep-20 00:00:00 | 77132216 | 78184 | 16563820 |
| 23-Sep-20 00:00:00 | 77221152 | 88936 | 16652756 |
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| 26-Sep-20 00:00:00 | 77406320 | 26704 | 16837924 |
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| 29-Sep-20 00:00:00 | 77715664 | 160968 | 17147268 |
| 30-Sep-20 00:00:00 | 77883272 | 167608 | 17314876 |
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| 02-Oct-20 00:00:00 | 78283856 | 218672 | 17715460 |
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| 04-Oct-20 00:00:00 | 78613304 | 103736 | 18044908 |
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| 06-Oct-20 00:00:00 | 78883720 | 196728 | 18315324 |
| 07-Oct-20 00:00:00 | 79025824 | 142104 | 18457428 |
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| 10-Oct-20 00:00:00 | 79285272 | 54592 | 18716876 |
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| 12-Oct-20 00:00:00 | 79391656 | 106384 | 18823260 |
| 13-Oct-20 00:00:00 | 79453296 | 61640 | 18884900 |
| 14-Oct-20 00:00:00 | 79676720 | 223424 | 19108324 |
| 15-Oct-20 00:00:00 | 79902808 | 226088 | 19334412 |
| 16-Oct-20 00:00:00 | 80123136 | 220328 | 19554740 |
| 17-Oct-20 00:00:00 | 80333152 | 210016 | 19764756 |
| 18-Oct-20 00:00:00 | 80586360 | 253208 | 20017964 |
| 19-Oct-20 00:00:00 | 80754608 | 168248 | 20186212 |
| 20-Oct-20 00:00:00 | 80904160 | 149552 | 20180212 |
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| 29-Oct-20 00:00:00 | 82205296 | 81672 | 21636900 |
| 30-Oct-20 00:00:00 | 82299128 | 93832 | 21730732 |
| 31-Oct-20 00:00:00 | 82391328 | 92200 | 21822932 |
| 01-Nov-20 00:00:00 | 82393168 | 1840 | 21824772 |
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| 02-Nov-20 00:00:00 | 82393192 | 24 | 21824796 |
| 03-Nov-20 00:00:00 | 82449912 | 56720 | 21881516 |
| 04-Nov-20 00:00:00 | 82474616 | 24704 | 21906220 |
| 05-Nov-20 00:00:00 | 82505192 | 30576 | 21936796 |
| 06-Nov-20 00:00:00 | 82505296 | 104 | 21936900 |
| 07-Nov-20 00:00:00 | 82525448 | 20152 | 21957052 |
| 08-Nov-20 00:00:00 | 82545128 | 19680 | 21976732 |
| 09-Nov-20 00:00:00 | 82546408 | 1280 | 21978012 |
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| 12-Dec-20 00:00:00 83064264 6400 22495868 13-Dec-20 00:00:00 83086032 21768 22517636 14-Dec-20 00:00:00 83086040 8 22517644 15-Dec-20 00:00:00 83086040 0 22517644 16-Dec-20 00:00:00 83119976 33936 22551580 17-Dec-20 00:00:00 83126384 6408 22557988 18-Dec-20 00:00:00 83131184 4800 22562788 19-Dec-20 00:00:00 83135272 4088 2256876 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 0 22679252 25-Dec-20 00:00:00 83248674 0 22679252 27-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301640 24 22733244 30-Dec-20 00:00:00 83301640 0 22733244 | 10-Dec-20 00:00:00 | 82995712 | 6424 | 22427316 |
| 13-Dec-20 00:00:00 83086032 21768 22517636 14-Dec-20 00:00:00 83086040 8 22517644 15-Dec-20 00:00:00 83086040 0 22517644 16-Dec-20 00:00:00 83119976 33936 22551580 17-Dec-20 00:00:00 83126384 6408 22557988 18-Dec-20 00:00:00 83131184 4800 22562788 19-Dec-20 00:00:00 83135272 4088 22566876 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301640 24 22733244 30-Dec-20 00:00:00 83301640 0 22733244 <td>11-Dec-20 00:00:00</td> <td>83057864</td> <td>62152</td> <td>22489468</td> | 11-Dec-20 00:00:00 | 83057864 | 62152 | 22489468 |
| 14-Dec-20 00:00:00 83086040 8 22517644 15-Dec-20 00:00:00 83086040 0 22517644 16-Dec-20 00:00:00 83119976 33936 22551580 17-Dec-20 00:00:00 83126384 6408 22557988 18-Dec-20 00:00:00 83131184 4800 22562788 19-Dec-20 00:00:00 83135272 4088 2256876 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 12-Dec-20 00:00:00 | 83064264 | 6400 | 22495868 |
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| 16-Dec-20 00:00:00 83119976 33936 22551580 17-Dec-20 00:00:00 83126384 6408 22557988 18-Dec-20 00:00:00 83131184 4800 22562788 19-Dec-20 00:00:00 83135272 4088 22566876 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 14-Dec-20 00:00:00 | 83086040 | 8 | 22517644 |
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| 19-Dec-20 00:00:00 83135272 4088 22566876 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 17-Dec-20 00:00:00 | 83126384 | 6408 | 22557988 |
| 20-Dec-20 00:00:00 83155456 20184 22587060 21-Dec-20 00:00:00 83200928 45472 22632532 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 18-Dec-20 00:00:00 | 83131184 | 4800 | 22562788 |
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| 22-Dec-20 00:00:00 83204792 3864 22636396 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 20-Dec-20 00:00:00 | 83155456 | 20184 | 22587060 |
| 23-Dec-20 00:00:00 83208920 4128 22640524 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 21-Dec-20 00:00:00 | 83200928 | 45472 | 22632532 |
| 24-Dec-20 00:00:00 83247648 38728 22679252 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 22-Dec-20 00:00:00 | 83204792 | 3864 | 22636396 |
| 25-Dec-20 00:00:00 83247648 0 22679252 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 23-Dec-20 00:00:00 | 83208920 | 4128 | 22640524 |
| 26-Dec-20 00:00:00 83247648 0 22679252 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 24-Dec-20 00:00:00 | 83247648 | 38728 | 22679252 |
| 27-Dec-20 00:00:00 83248072 424 22679676 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 25-Dec-20 00:00:00 | 83247648 | 0 | 22679252 |
| 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 26-Dec-20 00:00:00 | 83247648 | 0 | 22679252 |
| 28-Dec-20 00:00:00 83248672 600 22680276 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 27-Dec-20 00:00:00 | | | |
| 29-Dec-20 00:00:00 83301616 52944 22733220 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 28-Dec-20 00:00:00 | | | |
| 30-Dec-20 00:00:00 83301640 24 22733244 31-Dec-20 00:00:00 83301640 0 22733244 | 29-Dec-20 00:00:00 | | | |
| 31-Dec-20 00:00:00 83301640 0 22733244 | | | | |
| | 31-Dec-20 00:00:00 | | 0 | |
| | 01-Jan-21 00:00:00 | 83301640 | 0 | 22733244 |

talized Canal Usage

Point Name

PG.CGS.511-FIT-9002-3-TV



CALTROL INC. 1385 PAMA LANE #111 LAS VEGAS, NV. 89119 PHONE: (877) 827-8131



Instrument Calibration Report

Magnetic Flow Meter PG&E Colusa Attn:

Generating Station

Tag/Instrument ID FT-9002-2 Calibrated Range TO 250 Gal/M

Description Mag-Meter Serial Number 0395651 Manufacturer Rosemount Model Number 8732E

Plant / Unit MAIN Calibration Type **SCHEDULED** System WATER Calibrated 07-May-20 Location WESTSIDE CANAL Scheduled 07-May-21

MagMeter Calibration

Required Accuracy⁽¹⁾: Stated Accuracy: % of Analog Output 0.50%

| <u>In Val</u> | <u>In Units</u> | Out Val | Out Units | As Found | Error % | As Left | Error % |
|---------------|-----------------|---------|------------------|----------|---------|---------|---------|
| 0.00 | Gal/M | 4.00 | mA | 4.00 | 0.00% | 4.00 | 0.00% |
| 3.00 | Gal/M | 5.60 | mA | 5.60 | 0.01% | 5.60 | 0.01% |
| 10.00 | Gal/M | 9.33 | mA | 9.33 | 0.00% | 9.33 | 0.00% |
| 30.00 | Gal/M | 20.00 | mA | 20.00 | 0.00% | 20.00 | 0.00% |
| 10.00 | Gal/M | 9.33 | mA | 9.33 | 0.00% | 9.33 | 0.00% |
| 3.00 | Gal/M | 5.60 | mA | 5.60 | 0.01% | 5.60 | 0.01% |
| 0.00 | Gal/M | 4.00 | mA | 4.00 | 0.00% | 4.00 | 0.00% |

Calibration Parameter Changes

| Customer Settings | Calibration Settings | X All Settings return | ed to customer's | Configuration |
|-------------------------------------|----------------------|----------------------------|------------------|---------------|
| Meter Tube Cal #: *0897505908834005 | 1000015010000000 | | | |
| Units of Measure: Gal/M | Ft/S | Totalizer Readings: | As Found | As Left |
| Lower Range Value: 0 | 0 | Gross: | | |
| Upper Range Value: 250 | 30 | Net: | | |
| Coil Pulse Mode: 5 Hz | 5 Hz | _ | | |

Test Instruments Used During Calibration

| Description | <u>Manufacturer</u> | Model Number | Serial Number | NIST Cert. Number |
|-------------------|---------------------|--------------|---------------|-------------------|
| Hart Communicator | Emerson | 475 | | N/A |
| Process Meter | Fluke | 789 | 26020038 | 26020038 |
| Flow Simulator | Rosemount | 8714D | 14611770 | 14611770 (Trace#) |

Notes about this calibration

METER FOUND WITHIN TOLERANCE

QC Checklist: N/A Isolation valves

N/A Filled legs

All wires relanded (If removed) X Χ

Verify data (model, tag, serial, mfg)

Calibration Result: PASS

Calibrated by: JAMES HIRACHETA Checkout By: JAKE SANDERS Quality Management System
Certified by DNV
======ISO 9001:2008======

CALIBRATION DUE: 07-May-21 FT-9002-2



CALTROL INC. 1385 PAMA LANE #111 LAS VEGAS, NV. 89119 PHONE: (877) 827-8131



Instrument Calibration Report

Attn: PG&E Colusa Magnetic Flow Meter

Generating Station

Tag/Instrument ID FT-9002-3 Calibrated Range 0 TO 250 Gal/M

Description Mag-Meter Serial Number 0395652
Manufacturer Rosemount Model Number 8732E

Plant / Unit MAIN Calibration Type SCHEDULED
System WATER Calibrated 07-May-20
Location SOUTHSIDE WATER PLANT Scheduled 07-May-21

MagMeter Calibration

Stated Accuracy: <u>% of Analog Output</u>

Required Accuracy⁽¹⁾: <u>0.50%</u>

| <u>In Val</u> | <u>In Units</u> | Out Val | Out Units | As Found | Error % | As Left | Error % |
|---------------|-----------------|---------|------------------|----------|---------|---------|---------|
| 0.00 | Gal/M | 4.00 | mA | 4.00 | 0.00% | 4.00 | 0.00% |
| 3.00 | Gal/M | 5.60 | mA | 5.60 | 0.01% | 5.60 | 0.01% |
| 10.00 | Gal/M | 9.33 | mA | 9.33 | 0.00% | 9.33 | 0.00% |
| 30.00 | Gal/M | 20.00 | mA | 20.00 | 0.00% | 20.00 | 0.00% |
| 10.00 | Gal/M | 9.33 | mA | 9.33 | 0.00% | 9.33 | 0.00% |
| 3.00 | Gal/M | 5.60 | mA | 5.60 | 0.01% | 5.60 | 0.01% |
| 0.00 | Gal/M | 4.00 | mA | 4.00 | 0.00% | 4.00 | 0.00% |

Calibration Parameter Changes

Customer SettingsCalibration SettingsX all Settings returned to customer's ConfigurationMeter Tube Cal #: *0875705508616005
Units of Measure: Gal/M10000150100000000
Ft/STotalizer Readings: As Found As Left

 Units of Measure:
 Gal/M
 FVS
 Totalizer Readings:
 As Found
 As Let

 Lower Range Value:
 0
 0
 Gross:
 0

 Upper Range Value:
 250
 30
 Net:
 0

 Coil Pulse Mode:
 5
 Hz
 5
 Hz

Test Instruments Used During Calibration

| <u>Description</u> | <u>Manufacturer</u> | Model Number | Serial Number | NIST Cert. Number |
|--------------------|---------------------|--------------|---------------|-------------------|
| Hart Communicator | Emerson | 475 | | N/A |
| Process Meter | Fluke | 789 | 26020038 | 26020038 |
| Flow Simulator | Rosemount | 8714D | 14611770 | 14611770 (Trace#) |

Notes about this calibration

METER FOUND WITHIN TOLERANCE

QC Checklist: N/A Isolation valves

N/A Filled legs

X All wires relanded (If removed)

Yorify data (model, tag, sorial, mf

X Verify data (model, tag, serial, mfg)

Calibration Result: PASS

Calibrated by: JAMES HIRACHETA Checkout By: JAKE SANDERS

Quality Management System
Certified by DNV
======ISO 9001:2008======

CALIBRATION DUE: 07-May-21 FT-9002-3

CEC-1304 SCHEDULE 1 Part A: Power Plant Identification

CEC-1304 (Revised 07/2014)



Reporting Period

Year:

2020

| Line No. | | Quarter: |
|--|--|--|
| 1 | Plant Name | Pacific Gas and Electric Colusa Generating Station |
| 2 | CEC Plant ID | 06-AFC-9 |
| 3 | EIA Plant ID | 00-A1'C-9 |
| 4 | Qualifying Facility ID (if applicable) | |
| 5 | Plant Location | |
| W. C. | Outroop Wat Language | 4700 D. II. D. 1 |
| l l | | 4780 Driks Road |
| | | Maxwell |
| (| | Colusa |
| d | | California |
| | | 95955 |
| | E Latitude (optional) | |
| | | |
| h | 1 - 8 - (-1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | |
| | Interconnection Agreement Type (2) | |
| 6 | Plant Owner | |
| 2 | O | Pacific Gas and Electric |
| b | The state of the s | |
| | | 4780 Dirks Road |
| d | | Maxwell |
| e | Cline | California |
| | Zip Code | 95955 |
| 7 | Plant Operator | |
| 2 | | |
| b | | |
| C | Street Address | |
| d | City | |
| ϵ | State | |
| | Zip Code | |
| 8 | Nameplate Capacity (MW) | 660.00 |
| 9 | Number of Generators | 3 |
| 10 | NAICS Code of Thermal Host if Cogeneration | |
| 11 | NAICS Code of Direct Onsite User of Electricity | |
| 12 | Date of Sale (during Reporting Period) | |
| 13 | Purchaser of Plant (during Reporting Period) | |
| а | - 11 - 1 - 1 | 1000 |
| b | The state of the s | |
| C | | |
| d | | |
| ϵ | | |
| j | Zip Code | THE STATE OF THE S |
| ç | Contact Person | |
| h | | |
| and the second s | | producer, cogeneration, dispatched as part of a deman |



Year 2020 CEC Plant ID 06-AFC-9 EIA Plant ID Section 1. Power Plant Water Supply Backup Water Supply Source 1a Primary Water Supply Source Agricultural Canal NA Name of Backup Water Purveyor, Name of Primary Water Purveyor, Tehema Colusa Canal Authority/Glenn Colusa 1b Wastewater Supplier, or Well ID(s) Wastewater Supplier, or Well ID(s) Irrigation District NA Backup Water Supply Average Total Primary Water Supply Average Total 1c Dissolved Solids (mg/l) Dissolved Solids (mg/l) 90 Regional Water Quality Control Board 1d Central Valley Region Water Quality Control Board NA Section 2. Power Plant Water Use Check this box if water use at the power plant is not metered and cannot reasonably estimated. 22 Check the boxes below if the categorized water use is not metered and cannot reasonably be estimated or is not applicable. Volume of Water Required (in gallons) Solar Dust Other Daily Sanitation Landscaping Mirror Washing Water Use Maximum Suppression January 0 383,720 February 0 584,168 March 0 606,228 April 5370 1,177,164 21 May 10610 622,768 2,281,740 June 16300 3,410,784 July 13180 August 18030 4,639,896 September 7280 3,608,468 October 10410 4,508,056 November 9710 367,928 December 8420 542,384 Metering Frequency Metering Technology 2c Recorded Daily Inline Analog Meter Section 3. Power Plant Wastewater Disposal Volume of Discharged Daily Check box if wastewater is not metered and cannot reasonably estimated. Monthly Total 3a Waste (in gallons) Maximum 3b Wastewater Disposal Method Zero Liquid Discharge/Septic Tank January NA 3c Average Total Dissolved Solids (mg/l) NA February NA 3d Equipment Manufacturer Aquatech March NA 3e Year of Installation 2010 April NA May NA 3i Waste Reduction Equipment or Zero Liquid Discharges June NA Measures Taken July NA Name of the Facility or Water Body August NA NA 3g Receiving the Wastewater September NA Notes: Process water is run through a crystallizer to remove solids and vaporize liquid October NA 3h November NA December NA

December

Metering Frequency

4f

Notes:



Reporting Period Year

2019

| | | | | | | | EIA Plant ID | 06-AFC-9 | | |
|----|--|--|--|--------------------------|-----------------------|-------------------------|------------------|----------|--|--|
| | | | | | | Gene | erator (Unit) ID | | | |
| 30 | | | Section 4. | Generator Water | er Use | | | | | |
| 4a | Cooling Technology | | , 515 Fil | Wet Surfac Air (| Cooler (WerSAC) an | nd/or Closed Cooling Wa | ter Fin Fan | | | |
| | If "other" cooling technolog describe | y, please | | | | | | | | |
| łc | | | is air-cooled. If this generator does use water for cooling, please proceed to 4d. If this generator does not use any enerator this form is complete. | | | | | | | |
| 4d | Check this box if water use form is complete. | by this generator is | this generator is not metered and cannot reasonably estimated. If this box is checked, then for this generator, this | | | | | | | |
| | Volume of Water Required | Check the boxes below if the categorized water use is not metered and cannot reasonably be estimated or is not applicable. | | | | | | | | |
| | (in Gallons) | □ Inlet-Air □ Cooling | Intercooling | □ Steam-Cycle Cooling | Generator Bearings | Other Cooling | Daily Maximum | Other | | |
| | January | | | | | | | | | |
| | February | | | | | | | O | | |
| | March | | | عالق الداع | | | | | | |
| 1e | April | | | | | | | | | |
| | May | | | | | | | | | |
| | June | | | | | | | | | |
| | July | | | | | | | | | |
| | August | | | | | | | | | |
| | September | | | | | | | | | |
| | October | | | | | | | i | | |
| | November | | | | | | | | | |

Metering Technology

CEC-1304 SCHEDULE 3 Part B:

Biological Resource Report of "Takes" and Biomass Killed by Impingement

CEC-1304 (Revised 07/2014)



Reporting Period Year

| | EIA Plant ID | 06-A1°C-9 |
|---|-------------------------------------|----------------|
| One Schedule 3B for each power plant. | | |
| Check here if there have been no "takes" or biomass killed by impingement. | | |
| Owners of power plants with a generating capacity of 1-MW or more shall submit copies of reports contract conditions that identify any of the following information for the previous calendar year: | s or filings required by regulation | s, permits, or |
| 1. Documentation of the "take" of terrestrial, avian and aquatic wildlife subject to legal protect et seq., 16 U.S.C.A. § 1371 et seq., 16 U.S.C.A. § 1531 et seq., and 16 U.S.C.A. § 668 et seq. that plant. | | |
| Documentation and identification of the biomass (by weight) and species composition of fi impingement on the intake screens of each once-through cooling system. | ishes and marine mammals killed | l by |
| Notes: | | |
| | | |
| | | |
| | | |
| | | |

CEC-1304 SCHEDULE 3 Part C:

Public Health and Environmental Quality Violations Report

CEC-1304 (Revised 07/2014)



Year

2020

Reporting Period

| | | | | | | EC Plant ID IA Plant ID | 06-AFC-9 |
|--|----------------|----------------|--------------|--------------------|----------------|--------------------------|----------|
| One Schedule 3C for each power pl | lant. | 4 4 1 | | | | | |
| Check here if there have been no public health or environmental quality violations. | V | | | | | | |
| Owners of power plants with a generating cap federal regulatory agency for the following: 1. A violation of an applicable statute, reg calendar year, or for which there is an on | gulation, or p | ermit conditio | on related t | to <u>public h</u> | ealth or envir | | |
| Notes: | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Declaration

Person submitting the Report:

TJ Gomez

Sr. Environmental Field Specialist

Pacific Gas & Electric Co

4780 Dirks Rd

Maxwell, CA, 95955

530-934-9007 530-934-9024 ajgu@pge.com

Company responsible for submitting the Report:

Pacific Gas & Electric Co

4780 Dirks Rd

Maxwell, CA, 95955

530-934-9007 530-934-9024 ajgu@pge.com

Reporting Period:

2020

I certify under the penalty of perjury of the laws of the State of California that I am authorized by Pacific Gas & Electric Co

to submit the enclosed report. This report fulfills the requirement for CCR, Title 20, Division 2, Section 1304. The matters contained in this report are, to the best of my knowledge and belief and based on diligent investigation, true, accurate, complete and in compliance with these regulations.

TJ Gomez, Sr. Environmental Field Specialist

February 9, 2021

Date

Signed declaration to be submitted to: California Energy Commission

- 1. via email to QFERGEN@energy.state.ca.us as a PDF attachment or;
- 2. via fascimile to (916) 654-4559 or;
- 3. via US postal mail to 1516 Ninth Street, MS-20, Sacramento CA 95814



Appendix 7, SOIL & WATER-9



Per Soil &Water 9, in regards 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 2020 report.

PGE Colusa Generating Station

IST QTR., 2020

COMPLETED: 3/31/20

(530) 891-4420

2020 PG&E Colusa Generating Station

| | | | STEP Tank | | | STEP Tank | | |
|-----|----------|--------|------------------|------------|------|------------------|-----------------|---------|
| | Date | # days | EC (dose ct.) | Net Cycles | ADC | ETM (hrs/min) | Net Run Time | ADRT |
| 4th | 12/20/19 | 98 | 1526 | 308 | 3.14 | 82:48:38 | 16:41:00 | 0:10:13 |
| 1st | 3/11/20 | 82 | 1777 | 251 | 3.06 | 96:24:23 | 13:35:45 | 0:09:57 |
| 2nd | | | | | | | | |
| 3rd | | | | | | | | |
| 4th | | | | | | | | |

| KEY: | |
|------|---------------------|
| ADC | Ave. Daily Cycle |
| ADRT | Ave. Daily Run Time |
| EC | Event Counter |
| ETM | Elapsed Time Meter |
| NET | Month Total |

PIEZOMETER MEASUREMENTS

| 3/11/20 | <u>IOIAL DEPIH</u> | <u>DEPTH TO H2O</u> |
|---------|--------------------|---------------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

SCUM & SLUDGE MEASUREMENTS

| <u>3/11/20</u> | SE | PTIC | | DOSING | | |
|----------------|--------------|---------------|---|---------------|---------------|--|
| _ | <u>INLET</u> | <u>OUTLET</u> | _ | <u>INLET</u> | <u>OUTLET</u> | |
| SCUM | 20" | 2" | | 0" | 0" | |
| SLUDGE | 20" | 24" | | 3" | 3" | |
| _ | | | | | | |

PGE Colusa Generating Station

2ND QTR., 2020

COMPLETED: 6/18/20

2020 PG&E Colusa Generating Station

| | | | STEP Tank | | | STEP Tank | | |
|-----|----------|--------|------------------|------------|------|------------------|-----------------|---------|
| | Date | # days | EC (dose ct.) | Net Cycles | ADC | ETM (hrs/min) | Net Run Time | ADRT |
| 4th | 12/20/19 | 98 | 1526 | 308 | 3.14 | 82:48:38 | 16:41:00 | 0:10:13 |
| 1st | 3/11/20 | 82 | 1777 | 251 | 3.06 | 96:24:23 | 13:35:45 | 0:09:57 |
| 2nd | 6/10/20 | 91 | 2060 | 283 | 3.11 | 111:44:08 | 15:19:45 | 0:10:06 |
| 3rd | | | | | | | | |
| 4th | | | | | | | | |

| KEY: | |
|------|---------------------|
| ADC | Ave. Daily Cycle |
| ADRT | Ave. Daily Run Time |
| EC | Event Counter |
| ETM | Elapsed Time Meter |
| NET | Month Total |

PIEZOMETER MEASUREMENTS

| 3/11/20 | <u>TOTAL DEPTH</u> | <u>DEPTH TO H2O</u> |
|---------|--------------------|---------------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 6/10/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

SCUM & SLUDGE MEASUREMENTS

| <u>3/11/20</u> | SEF | <u>SEPTIC</u> | | <u>DOSING</u> | | |
|----------------|--------------|---------------|--|---------------|---------------|--|
| _ | <u>INLET</u> | <u>OUTLET</u> | | <u>INLET</u> | <u>OUTLET</u> | |
| SCUM | 20" | 2" | | 0" | 0" | |
| SLUDGE | 20" | 24" | | 3" | 3" | |
| Į. | | | | | | |

| <u>6/10/20</u> | SE | PTIC | DOSING | | |
|----------------|--------------|---------------|------------------|---------------|--|
| _ | <u>INLET</u> | <u>OUTLET</u> | <u>INLET</u> | <u>OUTLET</u> | |
| SCUM | 20" | 3" | 0" | 0" | |
| SLUDGE | 20" | 26" | 6" | 4" | |
| _ | | | | | |

PGE Colusa Generating Station

3RD QTR., 2020

COMPLETED: 10/5/20

2020 PG&E Colusa Generating Station

| | | | STEP Tank | | | STEP Tank | | |
|------------|----------|--------|------------------|------------|------|------------------|-----------------|---------|
| | Date | # days | EC (dose ct.) | Net Cycles | ADC | ETM (hrs/min) | Net Run Time | ADRT |
| 4th | 12/20/19 | 98 | 1526 | 308 | 3.14 | 82:48:38 | 16:41:00 | 0:10:13 |
| 1st | 3/11/20 | 82 | 1777 | 251 | 3.06 | 96:24:23 | 13:35:45 | 0:09:57 |
| 2nd | 6/10/20 | 91 | 2060 | 283 | 3.11 | 111:44:08 | 15:19:45 | 0:10:06 |
| 3rd 4th | 9/16/20 | 98 | 2255 | 195 | 1.99 | 123:36:19 | 11:52:11 | 0:07:16 |

| KEY: | |
|------|---------------------|
| ADC | Ave. Daily Cycle |
| ADRT | Ave. Daily Run Time |
| EC | Event Counter |
| ETM | Elapsed Time Meter |
| NET | Month Total |

PIEZOMETER MEASUREMENTS

| 3/11/20 | TOTAL DEPTH | <u>DEPTH TO H2O</u> |
|---------|-------------|---------------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 6/10/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 9/16/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

SCUM & SLUDGE MEASUREMENTS

| <u>3/11/20</u> | <u>SEPTIC</u> | | | <u>DOSING</u> | |
|----------------|---------------|---------------|---|---------------|---------------|
| _ | <u>INLET</u> | <u>OUTLET</u> | _ | <u>INLET</u> | <u>OUTLET</u> |
| SCUM | 20" | 2" | | 0" | 0" |
| SLUDGE | 20" | 24" | | 3" | 3" |
| • | | | • | | • |

| <u>6/10/20</u> | <u>SEPTIC</u> | | | <u>DOSING</u> | |
|----------------|---------------|---------------|-----|---------------|---------------|
| _ | <u>INLET</u> | <u>OUTLET</u> | | <u>INLET</u> | <u>OUTLET</u> |
| SCUM | 20" | 3" | | 0" | 0" |
| SLUDGE | 20" | 26" | | 6" | 4" |
| - | | | - ' | | |

| | <u>SEPTIC</u> | | | DOSING | | |
|----------------|---------------|---------------|--|---------------|---------------|--|
| <u>9/16/20</u> | <u>INLET</u> | <u>OUTLET</u> | | <u>INLET</u> | <u>OUTLET</u> | |
| SCUM | 3" | 0" | | 0" | 0" | |
| SLUDGE | 6" | 4" | | 4" | 3" | |
| _ | | | | | | |

PGE Colusa Generating Station

4TH QTR., 2020

COMPLETED: 12/16/20

2020 PG&E Colusa Generating Station

| | | | STEP Tank | | | | STEP Tank | | |
|-----|----------|--------|------------------|------------|------|------------------|-----------------|---------|--|
| | Date | # days | EC (dose ct.) | Net Cycles | ADC | ETM (hrs/min) | Net Run Time | ADRT | |
| 4th | 12/20/19 | 98 | 1526 | 308 | 3.14 | 82:48:38 | 16:41:00 | 0:10:13 | |
| 1st | 3/11/20 | 82 | 1777 | 251 | 3.06 | 96:24:23 | 13:35:45 | 0:09:57 | |
| 2nd | 6/10/20 | 91 | 2060 | 283 | 3.11 | 111:44:08 | 15:19:45 | 0:10:06 | |
| 3rd | 9/16/20 | 98 | 2255 | 195 | 1.99 | 123:36:19 | 11:52:11 | 0:07:16 | |
| 4th | 12/15/20 | 90 | 2476 | 221 | 2.46 | 134:26:41 | 10:50:22 | 0:07:14 | |

| KEY: | |
|------|---------------------|
| ADC | Ave. Daily Cycle |
| ADRT | Ave. Daily Run Time |
| EC | Event Counter |
| ETM | Elapsed Time Meter |
| NET | Month Total |

PIEZOMETER MEASUREMENTS

| 3/11/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 6/10/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 9/16/20 | TOTAL DEPTH | DEPTH TO H2O |
|---------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

| 12/15/20 | TOTAL DEPTH | DEPTH TO H2O |
|----------|-------------|--------------|
| Piez #1 | 2.36' | DRY |
| Piez #2 | 2.53' | DRY |
| Piez #3 | 2.86' | DRY |

SCUM & SLUDGE MEASUREMENTS

| <u>3/11/20</u> | <u>SEPTIC</u> | | | <u>DOSING</u> | |
|----------------|---------------|---------------|---|---------------|---------------|
| _ | <u>INLET</u> | <u>OUTLET</u> | _ | <u>INLET</u> | <u>OUTLET</u> |
| SCUM | 20" | 2" | | 0" | 0" |
| SLUDGE | 20" | 24" | | 3" | 3" |
| • | | | • | | • |

| <u>6/10/20</u> | SE | <u>SEPTIC</u> | | <u>DOSING</u> | |
|----------------|--------------|---------------|--|---------------|---------------|
| _ | <u>INLET</u> | <u>OUTLET</u> | | <u>INLET</u> | <u>OUTLET</u> |
| SCUM | 20" | 3" | | 0" | 0" |
| SLUDGE | 20" | 26" | | 6" | 4" |
| | | | | | |

| | <u>SEPTIC</u> | | | <u>DOSING</u> | | |
|---------|---------------|---------------|--|---------------|---------------|--|
| 9/16/20 | <u>INLET</u> | <u>OUTLET</u> | | <u>INLET</u> | OUTLET | |
| SCUM | 3" | 0" | | 0" | 0" | |
| SLUDGE | 6" | 4" | | 4" | 3" | |
| - | | | | | | |

| | <u>SEPTIC</u> | | | <u>DOSING</u> | | |
|-----------------|---------------|---------------|--|---------------|---------------|--|
| <u>12/15/20</u> | <u>INLET</u> | <u>OUTLET</u> | | INLET | <u>OUTLET</u> | |
| SCUM | 4" | 0" | | 0" | 0" | |
| SLUDGE | 7" | 4" | | 3" | 3" | |
| - | | | | , | | |



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 2020.







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 excellent condition after their completion in March 2011, as a result no maintenance activities occurred in 2020.



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 2020, maintenance was completed by Sierra Integrated Services Inc. All vegetation is healthy and there is no dying vegetation.

.



January 21, 2021

First Quarter 2021 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, however, there continues to be a couple small Eucalyptus that have some dieback and crown reduction. The dieback does show some progression and the canopy appears thinned throughout. There are still some leaves that continue to have a slight discoloration and spotting. There are also some eucalyptus leaves that show some insect damage. The pine located to the left of the main gate continues to show signs of overall needle discoloration and disfiguring and now browning and drop. Additionally, the trunk of the tree has a significant bend towards the top. The trunk will be monitored for bark cracking and other structural issues. No significant changes from Q4 2020 inspection.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. With significant enough winter rains, irrigation may be able to be turned off until conditions change.

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. Most trees/shrubs appear to be free of weedy vegetation. Weed control is being conducted currently during Q1 2021 and a follow up will be done in Q2.

A well-balanced fertilizer may be considered as some of the discoloration in the pines could be a result of a nutrient deficiency. Soil testing could determine the best course of action.

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

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

April 22, 2020

Second Quarter 2020 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, however, there continues to be small Eucalyptus that has some dieback towards the top. The dieback does not appear to have progressed since the Q1 inspection and there is new growth. There are still no obvious signs of stress, however, some leaves continue to have a slight discoloration and spotting. There are also some eucalyptus leaves that show some insect damage. The pine located to the left of the main gate continues to show signs of overall needle discoloration. There is new green growth starting from some of the branches that will be monitored. Additionally, the trunk of the tree has a significant bend towards the top. The trunk will be monitored for bark cracking and other structural issues.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. Warm weather is upon us and consistent watering will be important.

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.

A well-balanced fertilizer may be considered as some of the discoloration in the pines could be a result of a nutrient deficiency. Soil testing could determine the best course of action.

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



September 29, 2020

Third Quarter 2020 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, however, there continues to be small Eucalyptus that has some dieback towards the top. The dieback does not appear to have progressed since the Q1 inspection and there is new growth. There are still no obvious signs of stress, however, some leaves continue to have a slight discoloration and spotting. There are also some eucalyptus leaves that show some insect damage. The pine located to the left of the main gate continues to show signs of overall needle discoloration and disfiguring and now browning and drop. Additionally, the trunk of the tree has a significant bend towards the top. The trunk will be monitored for bark cracking and other structural issues.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. Warm weather continues and consistent watering is important.

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. Most trees/shrubs appear to be free of weedy vegetation

A well-balanced fertilizer may be considered as some of the discoloration in the pines could be a result of a nutrient deficiency. Soil testing could determine the best course of action.

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



December 28, 2020

Fourth Quarter 2020 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, however, there continues to be a couple small Eucalyptus that have some dieback towards the top. The dieback does show some progression and the canopy appears thinned. There are still some leaves that continue to have a slight discoloration and spotting. There are also some eucalyptus leaves that show some insect damage. The pine located to the left of the main gate continues to show signs of overall needle discoloration and disfiguring and now browning and drop. Additionally, the trunk of the tree has a significant bend towards the top. The trunk will be monitored for bark cracking and other structural issues.

Recommendations

Continue to inspect and test irrigation system to ensure it is properly working and adequately supplying water to each tree. With significant enough winter rains, irrigation may be able to be turned off until conditions change.

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. Most trees/shrubs appear to be free of weedy vegetation. Vegetation control is planned for Q1 2021.

A well-balanced fertilizer may be considered as some of the discoloration in the pines could be a result of a nutrient deficiency. Soil testing could determine the best course of action.

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

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



Appendix 11, Waste-5



The Waste Management Plan was followed during 2020. 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.

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



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 2020.



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 have been missed for 2020.



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, 2020 – December 31, 2020

Colusa County Air Pollution Control District

Quarterly Operating Report (Permit Condition 17) – January 30, 2020; April 23, 2020; July 13, 2020; October 25, 2020

Annual RATA/Source Test – December 22, 2020

Title V Annual Certification of Compliance – January 30, 2020

EPA

Semi Annual CEMS Report (X.G.5) – January 2020; July 2020

CUPA

Revised Hazardous Materials Business Plan via CERS – January 30, 2020

State Water Resources Control Board

Annual Stormwater Report – July 10, 2020



Attachment G

Projected Compliance Activities 2021



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

In 2021 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



Attachment H

Additions to On-Site Compliance Files



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.



Attachment I

Contingency Plan Evaluation



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.



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 2020, the CGS did not receive any complaints, notice of violations, official warnings or citations.