

DOCKETED	
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Project Title:	MARIPOSA ENERGY PROJECT - Compliance
TN #:	229083
Document Title:	2019 First Quarter Quarterly Operation Report
Description:	Quarterly Operation Report
Filer:	Anwar Ali
Organization:	Mariposa Energy LLC
Submitter Role:	Public Agency
Submission Date:	7/25/2019 10:02:00 AM
Docketed Date:	7/25/2019



Mariposa Energy, LLC

4887 Bruins Road, Byron, CA 94514
Tel: (209) 830-1401

April 18, 2019

Anwar Ali
Compliance Project Manager
California Energy Commission
Siting, Transmission, & Environmental Protection ("STEP") Division
1516 Ninth Street, MS-2000
Sacramento, CA 95814

Reference: Mariposa Energy, LLC (09-AFC-3C) Compliance with Air Quality Conditions of Certification (CEC #G1015)

Subject: CEC Condition of Certification AQ-SC8:
Quarterly Compliance Report for Quarter-Ending March 31, 2019

Dear Mr. Ali,

To demonstrate ongoing compliance with the California Energy Commission ("CEC") and Bay Area Air Quality Management District ("BAAQMD") regulations listed below, Mariposa Energy, LLC (previously Mariposa Energy Project) is submitting its Quarterly Compliance Report ("QCR") including Attachment 1, "Compliance Summary", for quarter-ending March 31, 2019. A copy of the report is also being sent to the BAAQMD as required.

- CEC - Mariposa Energy Project "Commission Decision", (Docket No. 09-AFC-3) – Cond. AQ-SC8.
- BAAQMD - Permit to Operate, Plant #19730, Condition #24955, Part 33.

The QCR contains the following attachments:

Attachment 1: Compliance Summary: Table identifying each condition relevant to the QCR, operational limits, compliance status (including supporting data), and reference location within the QCR.

Attachment 2: Condition AQ-11 Monthly Natural Gas Fuel Analyses: Monthly analytical results for natural gas analysis to demonstrate compliance with the natural gas sulfur content limit, as required by AQ-11.

Attachment 3: Condition AQ-12/13 Heat Input Limits: 1-hr & Daily Maximums for all CTGs Report: Report demonstrating compliance with maximum 1-hr heat input and daily total heat input for combustion turbine generator (CTG) Unit 600 (S-1), Unit 700 (S-2), Unit 800 (S-3), and Unit 900 (S-4).

- Attachment 4: Condition AQ-14 Heat Input Limit: Rolling 12-Month combined CTG Heat Input Report: Report demonstrating compliance with annual (rolling 12-month) combined heat input limit to CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 5: Condition AQ-15a/b Operating Hour Limits: Rolling 12-Month individual and combined CTG Hours Report: Report demonstrating compliance with annual (rolling 12-month) individual and combined hours of operation limits for CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 6: Condition AQ-16 SCR/Oxidation Catalyst Operation Report: Report demonstrating the CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4) emissions are abated by properly operating SCR and Oxidation Catalyst systems.
- Attachment 7: Condition AQ-17a/b NO_x Emissions Limits: Hourly Mass Rate and Hourly Average Concentration Report: Report of hourly (rolling 60-minute) NO_x concentrations and emissions from CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 8: Condition AQ-17c/d CO Emission Limits: Hourly Mass Rate/Rolling 3-Hr Concentration Report: Report demonstrating compliance with hourly (rolling 60-minute) CO mass emissions and rolling 3-hour CO concentrations from CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 9: Condition AQ-17e NH₃ Emission Limits: Rolling 3-Hr Slip Calculation Report: Report demonstrating compliance with rolling 3-hr ammonia emission concentration limit as calculated by source test-derived correlation as required by AQ-25.
- Attachment 10: Condition AQ-17f/g Hourly Mass Emission Limits: POC & SO₂ Report: Report demonstrating compliance with hourly POC and SO₂ emission limits for Combustion Turbine Generator (CTG) units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 11: Condition AQ-18 Startup and Shutdown Emission Limits Report: Report of startup and shutdown emissions for CTG Units 600 (S-1), 700 (S-2), 800 (S-3), and 900 (S-4).
- Attachment 12: Condition AQ-19 Daily Emission Limits: NO_x, CO, POC, and SO₂ Emissions Report: Report demonstrating compliance with daily NO_x, CO, POC and SO₂ limits for all CTG units combined.
- Attachment 13: Condition AQ-20 Cumulative Rolling 12-month CTG Emissions: NO_x, CO, POC, PM₁₀, SO₂ Emissions Report: Report demonstrating compliance with consecutive 12-month NO_x, CO, POC, PM₁₀ and SO₂ limits for all CTG units combined.
- Attachment 14: Condition AQ-31 Facility SAM 12-month Tons Limit Emissions Report: Report demonstrating compliance with consecutive 12-month sulfuric acid emissions limit for all CTG units combined.
- Attachment 15: Condition AQ-35 Timely Notification of Permit Condition Violations Report: Report demonstrating compliance with permit condition AQ-35 requiring timely self-reporting of violations of permit conditions.

Attachment 16: Condition AQ-38 40CFR Part 72.9(c)(1) SO₂ Allowances and 40 CFR Part 75 CEM Requirements Report: Report demonstrating compliance with Condition AQ-38 requiring holding of SO₂ allowances and compliance with CEM requirements of 40 CFR Part 75.

Attachment 17: Conditions AQ-39, AQ-40 S-6 Emergency Fire Pump Operation Report (BAAQMD Condition 22850, parts 1 & 2): Report demonstrating compliance with specified IC engine operating limitations.

Attachment 18: Condition AQ-41 S-6 Emergency Fire Pump Totalizing Meter Report (BAAQMD Condition 22850, part 3): Photographic record demonstrating the installation and use of hour-meter for tracking engine operation.

If you have any questions regarding this submittal, please contact Wayne Forsyth by email at w.forsyth@dgc-us.com or phone (213) 473-0093.

Best regards,



Bo Buchynsky – Responsible Official
Mariposa Energy, LLC
633 West Fifth Street, Suite 2700
Los Angeles, California 90071-1519

cc: Jeffrey Cleary (BAAQMD)
Madhav Patil (BAAQMD)
Bhagavan Krishnaswamy (BAAQMD)

Mariposa Energy, LLC

QUARTERLY COMPLIANCE REPORT

Quarter Ending March 31, 2019

MARIPOSA ENERGY, LLC

QUARTERLY COMPLIANCE REPORT

QUARTER ENDING March 31, 2019

This report documents compliance with the California Energy Commission's Conditions of Certification AQ-SC8 and Bay Area Air Quality Management District Permit Condition 24955.

Attached are summaries of relevant permit conditions and compliance status as well as the required documentation.

- Attachment 1: Compliance Summary
- Attachment 2: Condition AQ-11 Monthly Natural Gas Fuel Analyses
- Attachment 3: Condition AQ-12/13 Heat Input Limits: 1-hr & Daily Maximums for all CTGs Report
- Attachment 4: Condition AQ-14 Heat Input Limit: Rolling 12-Month combined CTG Heat Input Report
- Attachment 5: Condition AQ-15a/b Operating Hour Limits: Rolling 12-Month Individual and Combined CTG Hours Report
- Attachment 6: Condition AQ-16 SCR/Oxidation Catalyst Operation Report
- Attachment 7: Condition AQ-17a/b NO_x Emission Limits: Hourly mass rate and hourly average concentration Report
- Attachment 8: Condition AQ-17c/d CO Emission Limits: Hourly Mass Rate/Rolling 3-Hr Concentration Report
- Attachment 9: Condition AQ-17e NH₃ Emission Limits: Rolling 3-Hr Slip Calculation Report
- Attachment 10: Condition AQ-17f/g Hourly Mass Emission Limits: POC & SO₂ Report
- Attachment 11: Condition AQ-18 Startup and Shutdown Emission Limits Report
- Attachment 12: Condition AQ-19 Daily Emission Limits: NO_x, CO, POC, SO₂ Emissions Report
- Attachment 13: Condition AQ-20 Cumulative Rolling 12-month CTG Emissions: NO_x, CO, POC, PM₁₀, SO₂ Emissions Report
- Attachment 14: Condition AQ-31 Facility SAM 12-month Tons Limit Emissions Report
- Attachment 15: Condition AQ-35 Timely Notification of Permit Condition Violations Report
- Attachment 16: Condition AQ-38 40 CFR Part 72.9(c)(1) SO₂ Allowances and 40 CFR Part 75 CEM Requirements Report
- Attachment 17: Conditions AQ-39, AQ-40 S-6 Emergency Fire Pump Operation Report (BAAQMD Condition 24955, parts 1 & 2)
- Attachment 18: Condition AQ-41 S-6 Emergency Fire Pump Totalizing Meter Report (BAAQMD Condition 22850, part 3)

Attachment 1

Compliance Summary

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-11	Fire the Gas Turbines (S-1, S-2, S-3, and S-4) exclusively on PUC-regulated natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet.	1 grain sulfur per 100 scf. The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content data to be submitted to District and CPM in the Quarterly Report.	Sulfur Content (gr/100 scf) January 2019: 0.156 February 2019: 0.1744 March 2019: 0.16 In Compliance	Attachment 2
AQ-12	Hourly Heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4).	500 MMBtu (HHV)/hr per turbine.	Maximum MMBtu/hr S-1: 463 S-2: 463 S-3: 465 S-4: 454 In Compliance	Attachment 3
AQ-13	Daily heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4).	11,544 MMBtu (HHV)/day per turbine.	Maximum MMBtu/day S-1: 7,866 S-2: 7,129 S-3: 6,791 S-4: 6,409 In Compliance	Attachment 3
AQ-14	Combined annual cumulative heat input rate for the gas turbines (S-1 + S-2 + S-3 + S-4).	8,128,900 MMBtu (HHV) per year (combined cumulative).	MMBTU/yr (12-mo) Ending 01/2019: 1,173,574 Ending 02/2019: 1,190,095 Ending 03/2019: 1,173,825 In Compliance	Attachment 4
AQ-15a	Maximum annual hours of operation per turbine.	5,200 hours per year per turbine.	Maximum Hr/yr S-1: 995 (02/2019) S-2: 1,000 (02/2019) S-3: 1,024 (02/2019) S-4: 996 (02/2019) In Compliance	Attachment 5
AQ-15b	Combined annual hours of operation for the gas turbines (S-1 + S-2 + S-3 + S-4).	16,900 hours per year total – four units combined turbine hours of operation.	Combined Hours/yr 12 mo Ending 01/19: 3,963 12 mo Ending 02/19: 4,015 12 mo Ending 03/19: 3,946 In Compliance	Attachment 5

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-16	The owner/operator shall ensure that each Gas Turbine (S-1, S-2, S-3, S-4) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-2, A-4, A-6, or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-2, A-4, A-6 or A-8) has reached minimum operating temperature.	The owner/operator shall make the site available for inspection by representatives of the District, ARB, and the Commission upon request. A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	In Compliance	Attachment 6
AQ-17	The owner/operator shall ensure that the Gas Turbines (S-1, S-2, S-3, S-4) comply with requirements (a) through (i). Requirements (a) through (f) do not apply during a gas turbine start-up, and shutdown.			
	a. Hourly Nitrogen Oxide mass emissions limit (calculated as NO ₂), per turbine unit basis, after abatement.	4.4 lb/hr maximum (as NO ₂), from each turbine exhaust point, after abatement.	<u>Max NOx lb/hr:</u> S-1: 3.6 S-2: 3.6 S-3: 3.5 S-4: 3.7 In Compliance	Attachment 7
	b. Hourly average Nitrogen Oxide emission concentration limit, per turbine.	2.5 ppmv maximum (as NO ₂), dry, corrected to 15% O ₂ , averaged over any 1-hour period.	<u>Max NOx, ppmvd @ 15%O₂:</u> S-1: 2.2 S-2: 2.2 S-3: 2.1 S-4: 2.3 In Compliance	Attachment 7
	c. Hourly Carbon Monoxide mass emissions limit, per turbine basis, after abatement.	2.14 lb/hr CO maximum, from each turbine exhaust point.	<u>Max CO lb/hr:</u> S-1: 2.00 S-2: 1.90 S-3: 1.88 S-4: 1.81 In Compliance	Attachment 8
	d. Rolling 3-hour average Carbon Monoxide emission concentration per turbine basis, after abatement.	2.0 ppmv CO (maximum), dry, corrected to 15% O ₂ , averaged over any rolling 3-hour period.	<u>Max CO, ppmvd @ 15% O₂:</u> S-1: 1.8 S-2: 1.8 S-3: 1.8 S-4: 1.8 In Compliance	Attachment 8

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-17 cont'd	e. Rolling 3-hour average Ammonia (NH ₃) emission concentrations, per turbine unit basis, after abatement systems.	5 ppmv, dry, corrected to 15% O ₂ , averaged over any rolling 3-hour period. Verified by the continuous recording of the ammonia injection rate to each SCR System A-2, A-4, A-6, and A-8. The correlation between the gas turbine heat input rates, A-2, A-4, A-6, and A-8 SCR System ammonia injection rates, and corresponding ammonia emission concentration at emission points P-1, P-2, P-3 and P-4 shall be determined in accordance with AQ-25 or a District approved alternative method.	<u>Max NH₃, ppmvd @ 15% O₂:</u> S-1: 4 S-2: 3 S-3: 3 S-4: 3 In Compliance	Attachment 9
	f. Hourly Precursor Organic Compound (POC) mass emissions limit (as CH ₄), per turbine unit basis.	0.612 lb/hr maximum (as CH ₄), from each turbine exhaust point.	<u>Max POC lb/hr:</u> S-1: 0.069 S-2: 0.120 S-3: 0.088 S-4: 0.086 In Compliance	Attachment 10
	g. Hourly Sulfur dioxide (SO ₂) mass emissions limit, per turbine unit basis, after abatement.	1.347 lb/hr maximum (as SO ₂) from each turbine exhaust point.	<u>Max SO₂ lb/hr:</u> S-1: 0.162 S-2: 0.218 S-3: 0.209 S-4: 0.191 In Compliance	Attachment 10
AQ-18	Maximum startup emissions of NO _x (as NO ₂), CO, and POC (as CH ₄) (lb/startup).	NO _x (NO ₂): 14.2 lb/startup	<u>Max NO_x Startup Emissions, lb</u> S-1: 7.6 S-2: 8.6 S-3: 9.1 S-4: 9.2 In Compliance	Attachment 11

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-18 cont'd		CO: 14.1 lb/startup	<u>Max CO Startup Emissions, lb</u> S-1: 1.7 S-2: 1.5 S-3: 1.3 S-4: 1.5 In Compliance	Attachment 11
		POC (as CH ₄): 1.1 lb/startup	<u>Max POC Startup Emissions, lb</u> S-1: 0.0 S-2: 0.0 S-3: 0.0 S-4: 0.0 In Compliance	Attachment 11
	Maximum hourly emissions of NO _x (as NO ₂), CO, and POC (as CH ₄) with startup.	NO _x (NO ₂): 18.5 lb/hour	<u>Max NO_x Emissions, lb/hr</u> S-1: 8.7 S-2: 9.0 S-3: 9.8 S-4: 10.3 In Compliance	Attachment 11
		CO: 17.3 lb/hour	<u>Max CO Emissions, lb/hr</u> S-1: 2.5 S-2: 1.9 S-3: 2.3 S-4: 2.0 In Compliance	Attachment 11
		POC (as CH ₄): 1.4 lb/hour	<u>Max POC Emissions lb/hr</u> S-1: 0.06 S-2: 0.10 S-3: 0.08 S-4: 0.08 In Compliance	Attachment 11

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-18 cont'd	Maximum shutdown emissions of NO _x (as NO ₂), CO, and POC (as CH ₄) (lb/shutdown).	NO _x (NO ₂): 3.2 lb/shutdown	<u>Max Shutdown Emissions, lb</u> S-1: 1.4 S-2: 1.4 S-3: 1.3 S-4: 1.7 In Compliance	Attachment 11
		CO: 2.7 lb/shutdown	<u>Max Shutdown Emissions, lb</u> S-1: 0.3 S-2: 0.5 S-3: 0.3 S-4: 0.2 In Compliance	Attachment 11
		POC (as CH ₄): 0.12 lb/shutdown	<u>Max Shutdown Emissions lb</u> S-1: 0.00 S-2: 0.01 S-3: 0.01 S-4: 0.01 In Compliance	Attachment 11
AQ-19	Calendar day Cumulative combined emission limits from the Gas Turbines (S-1 + S-2 + S-3 + S-4), including emissions generated during gas turbine start-ups, shutdowns and testing.			
	a. Maximum daily NO _x (as NO ₂) emissions.	NO _x (as NO ₂): 1100 lb/day	Max lb/day NO _x : 155	Attachment 12
	b. Maximum daily CO emissions.	CO: 934 lb/day	Max lb/day CO: 53	
	c. Maximum daily POC emissions.	POC (as CH ₄): 95 lb/day	Max lb/day POC: 3	
	d. Maximum daily SO ₂ emissions.	SO ₂ : 130 lb/day	Max lb/day SO ₂ : 6 In Compliance	
AQ-20	Cumulative combined annual (any consecutive twelve-month period) emissions from the Gas Turbines (S-1 + S-2 + S-3 + S-4):			
	a. Maximum annual NO _x (as NO ₂) emissions.	NO _x (as NO ₂): 45.6 ton/year	<u>Cumulative Ton/Yr</u> Ending 01/31/2019: 7.3 Ending 02/28/2019: 7.4 Ending 03/31/2019: 7.3 In Compliance	Attachment 13

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-20 cont'd	b. Maximum annual CO emissions.	CO: 27.2 ton/year	Ending 01/31/2019: 2.2 Ending 02/28/2019: 2.3 Ending 03/31/2019: 2.2 In Compliance	Attachment 13
	c. Maximum annual POC (as CH ₄) emissions.	POC (as CH ₄): 5.6 ton/year	Ending 01/31/2019: 0.2 Ending 02/28/2019: 0.1 Ending 03/31/2019: 0.1 In Compliance	Attachment 13
	d. Maximum annual PM ₁₀ emissions. Emissions of PM ₁₀ from each gas turbine shall be calculated by multiplying turbine fuel usage times an emission factor determined by source testing of the turbine conducted in accordance with Part 26. The emission factor for each turbine shall be based on the average of the emissions rates observed during the 4 most recent source tests on that turbine (or, prior to the completion of 4 source tests on a turbine, on the average of the emission rates observed during all source tests on the turbine).	PM ₁₀ : 18.6 ton/year	Ending 01/31/2019: 0.5 Ending 02/28/2019: 0.6 Ending 03/31/2019: 0.6 In Compliance	Attachment 13
	e. Maximum annual SO ₂ emissions.	SO ₂ : 2.9 ton/year	Ending 01/31/2019: 0.2 Ending 02/28/2019: 0.3 Ending 03/31/2019: 0.2 In Compliance	Attachment 13
AQ-31	Cumulative combined annual Sulfuric Acid Mist (SAM) emissions. (Any consecutive 12-month period) emissions from the gas turbines (S-1 + S-2 + S-3 + S-4).	7.0-ton Sulfuric Acid Mist in any consecutive 12-month.	Cumulative Ton/Year Ending 01/31/2019: 1.17 Ending 02/28/2019: 1.13 Ending 03/31/2019: 1.09 In Compliance	Attachment 14

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-35	The owner/operator of the MEP shall notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the owner/operator shall submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	There were no violations of any permit conditions requiring District and CEC notification during the 4th Quarter of 2018 In Compliance	Attachment 15
AQ-38	The owner/operator shall ensure that the MEP complies with the requirement to hold SO ₂ allowances in 40 CFR 72.9c(1) and the continuous emission monitoring requirements of 40 CFR Part 75.	The project owner shall submit to the CPM and District the results of audits of the monitoring system demonstrating compliance with this condition as part of the quarterly operation report.	Attachment 16 provides the CAMD Balance Report (2/03/2015) for SO ₂ allowances as well as the 4Q 2018 Monthly CEMS Reports summary pages as submitted to BAAQMD. In Compliance	Attachment 16
AQ-39	Cumulative combined annual (any consecutive twelve-month period) operating hours for reliability-related testing of S-6 Emergency Standby Diesel Fire Pump Engine:			
	The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	Ending 01/31/2019: 26.5 Ending 02/28/2019: 26.5 Ending 03/31/2019: 26.5 In Compliance	Attachment 17

Mariposa Energy, LLC
CEC Quarterly Air Compliance Report

COMPLIANCE SUMMARY

Condition	Condition Description	Verification or Limit	Status	Section
AQ-40	S-6 Emergency Standby Diesel Fire Pump Engine cumulative combined annual (any consecutive twelve-month period) total operating hours, including mitigation of emergency conditions, emissions and reliability testing:			
	The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State, or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operation while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emissions limits is not limited.	A summary of significant operation and maintenance events and monitoring records shall be included in the quarterly operation report.	S-6 <u>12-Mo Hrs Ending 01/31/19:</u> Total Hrs Operated: 26.5 Hrs Op as allowed: 26.5 <u>12-Mo Hrs Ending 02/28/19:</u> Total Hrs Operated: 24.5 Hrs Op as allowed: 26.5 <u>12-Mo Hrs Ending 03/31/19:</u> Total Hrs Operated: 26.5 Hrs Op as allowed: 26.5 In Compliance	Attachment 17
AQ-41	S-6 Emergency Standby Diesel Fire Pump Engine Non-Resettable Totalizing Hour Meter			
	The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engines is installed, operated and properly maintained.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission. The project owner shall include a photograph of each totalizing meter in the quarterly operation report.	A photograph of each totalizing meter is included in the quarterly compliance report. In Compliance	Attachment 18

Attachment 2

Monthly Natural Gas Fuel Analysis

Fuel Sulfur Content Calculations
January 2019 Mariposa Energy

Sample:	Fuel 1		
	ppb	#S atoms/mole	ppm as SO ₂
Compound			
Hydrogen Sulfide	230	1	0.23
Carbonyl Sulfide	679	1	0.679
Methyl Mercaptan	0	1	0
Ethyl Mercaptan	0	1	0
Dimethyl Sulfide	0	1	0
Carbon Disulfide	0	2	0
Isopropyl Mercaptan	0	1	0
tert-Butyl Mercaptan	791	1	0.791
n-Propyl Mercaptan	0	1	0
Ethyl Methyl Sulfide	0	1	0
Thiophene	0	1	0
Isobutyl Mercaptan	0	1	0
Diethyl Sulfide	0	1	0
Butyl Mercaptan	0	1	0
Dimethyl Disulfide	0	2	0
3-Methylthiophene	0	1	0
Tetrahydrothiophene	937	1	0.937
2-Ethylthiophene	0	1	0
2,5-Dimethylthiophene	0	1	0
Diethyl Disulfide	0	2	0
Total:			2.637

Fuel Sulfur content, ppmv: 2.637
Sulfur, grains/100scf: 0.156
Mercaptans, ppm as SO₂ 0.791

Fuel Sulfur Content Calculations
February 2019 Mariposa Energy

Sample:	Fuel 1		
	ppb	#S atoms/mole	ppm as SO ₂
Compound			
Hydrogen Sulfide	479	1	0.479
Carbonyl Sulfide	0	1	0
Methyl Mercaptan	105	1	0.105
Ethyl Mercaptan	0	1	0
Dimethyl Sulfide	0	1	0
Carbon Disulfide	0	2	0
Isopropyl Mercaptan	0	1	0
tert-Butyl Mercaptan	985	1	0.985
n-Propyl Mercaptan	0	1	0
Ethyl Methyl Sulfide	0	1	0
Thiophene	0	1	0
Isobutyl Mercaptan	0	1	0
Diethyl Sulfide	0	1	0
Butyl Mercaptan	0	1	0
Dimethyl Disulfide	0	2	0
3-Methylthiophene	0	1	0
Tetrahydrothiophene	1380	1	1.38
2-Ethylthiophene	0	1	0
2,5-Dimethylthiophene	0	1	0
Diethyl Disulfide	0	2	0
Total:			2.949

Fuel Sulfur content, ppmv: 2.949
Sulfur, grains/100scf: 0.1744
Mercaptans, ppm as SO₂ 1.09



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
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March 19, 2019

Kevin Kringle
Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514

TEL: (209) 830-1401
FAX:

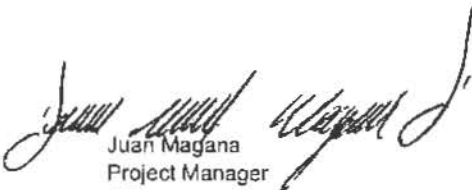
Project ID:
RE: 1903105

Dear Kevin Kringle:

Zalco Laboratories, Inc. received 1 samples on 3/12/2019 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,



Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level * See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

**ZALCO LABORATORIES, INC.**

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308(661) 395-0539
FAX (661) 395-3069Mariposa Energy Project
4887 Bruns Rd
Byron, CA 94514Project: Master
Project #:
Attention: Kevin KringleWork Order No.: 1903105
Reported: 03/19/2019
Received: 03/12/2019 11:00

Lab Sample ID: 1903105-01

Collected By:

Client Sample ID: Fuel Gas Sample

Date Collected: 3/11/2019 9:27:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Gas & Air Testing								
Hydrogen sulfide	<1.00	1.00	ppmv		ASTM D6228	3/13/19	3/13/19	MO

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level * See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

**ZALCO LABORATORIES, INC.**

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com
 2186 Eastman Avenue, Suite 103, Ventura, CA 93003 (805) 477-0114 Fax (805) 477-0125

Mariposa Energy Project
 4887 Bruns Rd
 Byron CA 94514

Laboratory No: 1903105-01
 Date Received: 03/12/19
 Date Analyzed: 03/13/19
 Date Completed: 3/19/19 9:29 AM

Attention: Kevin Kringle

Sample Description: Fuel Gas Sample
 Sampled: 3/11/2019 @ 9:27:00 AM by Client

Constituent:	Result	Units
Sulfur	0.16	grs S/100 SCF
Total Sulfur	2.70	ppmv

Constituent:	Mole %	Weight %	GPM	GPM Fractions	CHONS%
Oxygen	0.195	0.365	(Gallons per		Carbon, C
Nitrogen	1.090	1.791	1000.000		72.70
Hydrogen	0.000	0.000	cubic feet)		Hydrogen, H
Carbon Dioxide	0.770	1.988			23.70
Carbon Monoxide	0.000	0.000			
Hydrogen Sulfide	0.000	0.000			Oxygen, O
Methane	93.837	88.328			1.81
Ethane	3.831	6.759			
Propane	0.225	0.583	0.052	(C3....C3) = 0.062	Nitrogen, N
IsoButane	0.021	0.072	0.007		1.79
n-Butane	0.024	0.081	0.007	(C3....C4) = 0.076	
IsoPentane	0.005	0.020	0.002		Sulfur, S
n-Pentane	0.003	0.013	0.001	(C3....C5) = 0.079	0.00
Hexanes +	0.000	0.001	0.000	(C3....C6+) = 0.079	
Totals:	100.00	100.00	0.079	0.297	100.00

Flammable Gases: 97.946
 Gas Properties calculated @ STP: degrees F. 60
 Measurement Base Pressure @ STP: psia 14.696 H/C Ratio: 0.33

Gas State	Dry Btu / Cu. Ft	Btu / lb	Wet Btu / Cu. Ft
Gross, Ideal Gas	1022.99	22777.58	1005.19
Net, Ideal Gas	922.22	20533.57	908.17
Gross, Real Gas	1025.20		1007.37
Net, Real Gas	924.22		908.13

Relative Gas Density, [Air=1] Ideal:	0.5885	"F" Factor, DSCF/MMBtu @ 60F	8515	9445.6
Specific Gravity, [Air=1] Real gas:	0.5894	"F" Factor, DSCF/MMBtu @ 58F	8645	9589.5
Real Gas Density, Lb/Cu.Ft.:	0.0450	"F" Factor, DSCF/MMBtu @ 70F	8678	9625.9
Specific Volume, Cu.Ft./Lb:	22.2173	"FC" Factor, DSCF CO2/MMBtu @ 60F	1009.2	1119.5
Relative Liquid Density @ 60F/60F:	0.3127	"FC" Factor, DSCF CO2/MMBtu @ 68F	1024.6	1136.5
Compressibility, 'z':	0.9978			
Fuel kg per kg-mole Molecular wt avg	17.043			

2186 Eastman Avenue, Suite 103, Ventura, CA 93003, (805) 477-0114, Fax (805) 477-0125

CHAIN OF CUSTODY, ID#|

Client PO: 13648

Project ID:

Quote ID:

ANALYSIS REQUESTED

61903105

[illegible]

Kevin Kringle	Mariposa Energy Project	3/11/2019	9:34		Zalco
		3/12/19	11:00		

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Sample Type Key.

Aq-Aqueous; BS-Biosolid, DW-Drinking Water; GW-Groundwater, G-Gas
LPG-Liquid Petroleum Gas, OL-Oil; P-Petroleum; S-Solid/Soil, ST-Storm water
WW-Wastewater

Attachment 3

Condition AQ-12/13: Heat Input Report

4/2/2019 10:50:32 PM

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

[illegible]

AQ-12/13: Heat Input Limits: 1-hr & Daily Maximums for all CTGs (Attachment 3)

4/2/2019 10:50:33 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time: Tue 01/01/2019 0:00

Report End Date/Time: Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour mmBTU/Hr Limit 500	S-2:Unit 700 Max 1-Hour mmBTU/Hr Limit 500	S-3:Unit 800 Max 1-Hour mmBTU/Hr Limit 500	S-4:Unit 900 Max 1-Hour mmBTU/Hr Limit 500	S-1:Unit 600 Total mmBTU/Day Limit 11544	S-2:Unit 700 Total mmBTU/Day Limit 11544	S-3:Unit 800 Total mmBTU/Day Limit 11544	S-4:Unit 900 Total mmBTU/Day Limit 11544
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	434	439	Down	Down	1414	1437	Down	Down
02/27/2019 0:00	269	270	Down	Down	289	290	Down	Down
02/28/2019 0:00	Down	441	437	Down	Down	1394	1537	Down
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	Down	Down	444	430	Down	Down	1713	1993
03/05/2019 0:00	Down	Down	314	284	Down	Down	1277	889
03/06/2019 0:00	Down	Down	264	265	Down	Down	1103	1109
03/07/2019 0:00	250	259	288	288	253	653	965	965
03/08/2019 0:00	Down	Down	261	417	Down	Down	1084	1398
03/09/2019 0:00	Down	Down	423	419	Down	Down	1555	1547
03/10/2019 0:00	Down	Down	366	427	Down	Down	1234	1630
03/11/2019 0:00	305	304	431	425	581	578	1107	1103
03/12/2019 0:00	364	352	378	375	871	809	507	503
03/13/2019 0:00	269	155	Down	Down	632	302	Down	Down
03/14/2019 0:00	432	Down	Down	Down	1709	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	105	134	Down	Down	202	195

AQ-12/13: Heat Input Limits: 1-hr & Daily Maximums for all CTGs (Attachment 3)

4/2/2019 10:50:33 PM

Page 3 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Tue 01/01/2019 0:00**Report End Date/Time :** Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour mmBTU/Hr Limit 500	S-2:Unit 700 Max 1-Hour mmBTU/Hr Limit 500	S-3:Unit 800 Max 1-Hour mmBTU/Hr Limit 500	S-4:Unit 900 Max 1-Hour mmBTU/Hr Limit 500	S-1:Unit 600 Total mmBTU/Day Limit 11544	S-2:Unit 700 Total mmBTU/Day Limit 11544	S-3:Unit 800 Total mmBTU/Day Limit 11544	S-4:Unit 900 Total mmBTU/Day Limit 11544
Total:					25280	25894	31552	30357
Average:	334	337	349	352	1580	1523	1578	1598
Maximum:	463	463	465	454	7866	7129	6791	6409
Minimum:	146	147	105	134	253	287	202	195

Attachment 4

**Condition AQ-14 Heat Input Limit:
Rolling 12-Month Combined
CTG Heat Input Report**

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 Total MMbtu	S-2:Unit 700 Total MMbtu	S-3:Unit 800 Total MMbtu	S-4:Unit 900 Total MMbtu	Facility Total MMbtu Annual Limit 8,128,900
01/2019	289,889	293,911	299,838	289,937	1,173,574
02/2019	295,596	298,215	303,756	292,527	1,190,095
03/2019	288,405	289,951	303,035	292,434	1,173,825
Maximum:	295,596	298,215	303,756	292,527	1,190,095
Minimum:	288,405	289,951	299,838	289,937	1,173,574

Attachment 5

**Condition AQ-15a/b Operating Hour Limits:
Rolling 12-Month Individual and Combined CTG Hours Report**

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 Operating Hrs Limit 5,200	S-2:Unit 700 Operating Hrs Limit 5,200	S-3:Unit 800 Operating Hrs Limit 5,200	S-4:Unit 900 Operating Hrs Limit 5,200	Facility Operating Hrs Limit 16,900
01/2019	978	988	1,011	986	3,963
02/2019	995	1,000	1,024	996	4,015
03/2019	968	970	1,017	991	3,946
Maximum:	995	1,000	1,024	996	4,015
Minimum:	968	970	1,011	986	3,946

Attachment 6

Condition AQ-16: SCR/Oxidation Catalyst Operation Report

Condition AQ-16: SCR/Oxidation Catalyst Operation Report

Permit to Operate Condition 24955 part 16 (AQ-16) states:

The owner/operator shall ensure that each Gas Turbine (S-1, S-2, S-3, S-4) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-2, A-4, A-6 or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-2, A-4, A-6 or A-8) has reached minimum operating temperature.

The emission reports presented in Attachments 7, 8, 12, and 13 demonstrate that the gas turbines are operating properly as abated by the Catalytic Reduction (SCR) System A-2, A-4, A-6 or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 and demonstrate compliance with Condition 24955 parts AQ-17a, 17b, 17c, 17d, 19, and 20.

Demonstration of operation above the minimum catalyst bed temperature is demonstrated by compliance with BAAQMD ATC Condition 24955, parts AQ-17a, 17b, 17c, 17d, 19, and 20.

Attachment 7

Condition AQ-17a/b NOx Emission Limits: Hourly Mass Rate and Hourly Average Concentration Report

4/2/2019 10:51:14 PM

Report End Date/Time : Sun 03/31/2019 23:59

Unit Name: Mariposa Facility

Report Start Date/Time: Tue 01/01/2019 0:00

Report End Date/Time: Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-2:Unit 700 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-3:Unit 800 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-4:Unit 900 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-1:Unit 600 Max 1-Hour NOx@15%O2 Limit 2.5	S-2:Unit 700 Max 1-Hour NOx@15%O2 Limit 2.5	S-3:Unit 800 Max 1-Hour NOx@15%O2 Limit 2.5	S-4:Unit 900 Max 1-Hour NOx@15%O2 Limit 2.5
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	2.8	3.1	Down	Down	1.9	1.9	Down	Down
02/27/2019 0:00	0.2	0.2	Down	Down	0.6	0.4	Down	Down
02/28/2019 0:00	Down	3.2	3.0	Down	Down	2.1	1.9	Down
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	Down	Down	3.5	3.5	Down	Down	2.1	2.3
03/05/2019 0:00	Down	Down	1.7	1.5	Down	Down	1.8	1.5
03/06/2019 0:00	Down	Down	1.9	1.9	Down	Down	2.0	2.0
03/07/2019 0:00	0.0	0.9	1.8	1.8	0.2	1.2	1.9	1.9
03/08/2019 0:00	Down	Down	1.8	3.3	Down	Down	1.9	2.0
03/09/2019 0:00	Down	Down	2.9	3.5	Down	Down	1.9	2.2
03/10/2019 0:00	Down	Down	2.2	2.2	Down	Down	1.5	1.6
03/11/2019 0:00	0.7	0.7	3.1	3.3	0.8	0.8	2.0	2.1
03/12/2019 0:00	2.4	2.3	0.9	1.0	1.5	1.5	1.0	1.2
03/13/2019 0:00	1.8	0.1	Down	Down	1.8	0.2	Down	Down
03/14/2019 0:00	2.9	Down	Down	Down	1.9	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	0.0	0.0	Down	Down	0.0	0.1

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-2:Unit 700 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-3:Unit 800 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-4:Unit 900 Max 1-Hour NOx Lbs/Hr Limit 4.4	S-1:Unit 600 Max 1-Hour NOx@15%O2 Limit 2.5	S-2:Unit 700 Max 1-Hour NOx@15%O2 Limit 2.5	S-3:Unit 800 Max 1-Hour NOx@15%O2 Limit 2.5	S-4:Unit 900 Max 1-Hour NOx@15%O2 Limit 2.5
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Total:								
Average:	2.0	2.0	2.3	2.4	1.6	1.5	1.7	1.8
Maximum:	3.6	3.6	3.5	3.7	2.2	2.2	2.1	2.3
Minimum:	0.0	0.1	0.0	0.0	0.2	0.2	0.0	0.1

Attachment 8

**Condition AQ-17c/d CO Emission Limits:
Hourly Mass Rate/Rolling 3-Hr Concentration Report**

4/2/2019 10:51:22 PM

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

[illegible]

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour CO Lbs/Hr Limit 2.14	S-2:Unit 700 Max 1-Hour CO Lbs/Hr Limit 2.14	S-3:Unit 800 Max 1-Hour CO Lbs/Hr Limit 2.14	S-4:Unit 900 Max 1-Hour CO Lbs/Hr Limit 2.14	S-1:Unit 600 Max 3-Hour CO@15%O2 Limit 2.0	S-2:Unit 700 Max 3-Hour CO@15%O2 Limit 2.0	S-3:Unit 800 Max 3-Hour CO@15%O2 Limit 2.0	S-4:Unit 900 Max 3-Hour CO@15%O2 Limit 2.0
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	1.43	1.60	Down	Down	1.5	1.5	Down	Down
02/27/2019 0:00	0.12	0.09	Down	Down	0.2	0.1	Down	Down
02/28/2019 0:00	Down	1.42	1.78	Down	Down	1.4	1.6	Down
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	Down	Down	1.09	1.57	Down	Down	1.1	1.6
03/05/2019 0:00	Down	Down	0.93	0.63	Down	Down	1.0	0.4
03/06/2019 0:00	Down	Down	1.00	0.90	Down	Down	1.5	1.3
03/07/2019 0:00	0.03	0.18	0.70	0.54	0.1	0.2	1.0	0.7
03/08/2019 0:00	Down	Down	0.99	1.53	Down	Down	1.5	1.2
03/09/2019 0:00	Down	Down	1.64	1.63	Down	Down	1.4	1.3
03/10/2019 0:00	Down	Down	0.98	1.26	Down	Down	0.9	1.2
03/11/2019 0:00	0.51	0.23	1.30	1.34	0.4	0.2	0.9	0.8
03/12/2019 0:00	1.46	0.76	0.18	0.18	0.9	0.5	0.1	0.1
03/13/2019 0:00	1.00	0.03	Down	Down	0.9	0.0	Down	Down
03/14/2019 0:00	1.42	Down	Down	Down	1.4	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	0.00	0.00	Down	Down	0.0	0.0

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour CO Lbs/Hr Limit 2.14	S-2:Unit 700 Max 1-Hour CO Lbs/Hr Limit 2.14	S-3:Unit 800 Max 1-Hour CO Lbs/Hr Limit 2.14	S-4:Unit 900 Max 1-Hour CO Lbs/Hr Limit 2.14	S-1:Unit 600 Max 3-Hour CO@15%O2 Limit 2.0	S-2:Unit 700 Max 3-Hour CO@15%O2 Limit 2.0	S-3:Unit 800 Max 3-Hour CO@15%O2 Limit 2.0	S-4:Unit 900 Max 3-Hour CO@15%O2 Limit 2.0
-----------	---	---	---	---	---	---	---	---

Total:								
Average:	1.05	0.94	1.09	1.08	1.0	0.9	1.1	1.0
Maximum:	2.00	1.90	1.88	1.81	1.8	1.8	1.8	1.8
Minimum:	0.03	0.03	0.00	0.00	0.1	0.0	0.0	0.0

Attachment 9

**Condition AQ-17e NH₃ Emission Limits:
Rolling 3-Hr Slip Calculation Report**

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

4/2/2019 10:51:32 PM

Page 1 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O2 Limit 5	S-3:Unit 800 Max 3-Hour NH3@15%O2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O2 Limit 5				
01/01/2019 0:00	Down	Down	Down	Down				
01/02/2019 0:00	Down	Down	Down	Down				
01/03/2019 0:00	Down	Down	Down	Down				
01/04/2019 0:00	Down	Down	Down	Down				
01/05/2019 0:00	Down	Down	Down	Down				
01/06/2019 0:00	Down	Down	Down	Down				
01/07/2019 0:00	Down	Down	Down	Down				
01/08/2019 0:00	Down	Down	Down	Down				
01/09/2019 0:00	Down	Down	Down	Down				
01/10/2019 0:00	Down	Down	Down	Down				
01/11/2019 0:00	Down	Down	Down	Down				
01/12/2019 0:00	Down	Down	Down	Down				
01/13/2019 0:00	Down	Down	Down	Down				
01/14/2019 0:00	Down	Down	Down	Down				
01/15/2019 0:00	Down	Down	Down	Down				
01/16/2019 0:00	Down	Down	Down	Down				
01/17/2019 0:00	Down	Down	Down	Down				
01/18/2019 0:00	Down	Down	Down	Down				
01/19/2019 0:00	Down	Down	Down	Down				
01/20/2019 0:00	Down	Down	Down	Down				
01/21/2019 0:00	Down	Down	Down	Down				
01/22/2019 0:00	Down	Down	Down	Down				
01/23/2019 0:00	Down	Down	Down	Down				
01/24/2019 0:00	Down	Down	Down	Down				
01/25/2019 0:00	Down	Down	Down	Down				
01/26/2019 0:00	Down	Down	Down	Down				
01/27/2019 0:00	Down	Down	Down	Down				
01/28/2019 0:00	Down	Down	Down	Down				
01/29/2019 0:00	Down	Down	Down	Down				
01/30/2019 0:00	Down	Down	Down	Down				
01/31/2019 0:00	Down	Down	Down	Down				
02/01/2019 0:00	0	0	0	0				
02/02/2019 0:00	Down	Down	Down	Down				
02/03/2019 0:00	Down	Down	Down	Down				
02/04/2019 0:00	1	2	2	3				
02/05/2019 0:00	4	2	2	2				
02/06/2019 0:00	2	3	1	1				
02/07/2019 0:00	0	1	2	1				
02/08/2019 0:00	0	0	0	3				
02/09/2019 0:00	0	1	1	2				
02/10/2019 0:00	Down	Down	Down	Down				
02/11/2019 0:00	4	3	3	3				
02/12/2019 0:00	1	1	1	1				
02/13/2019 0:00	Down	1	Down	Down				
02/14/2019 0:00	Down	Down	Down	Down				
02/15/2019 0:00	Down	Down	Down	Down				

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

4/2/2019 10:51:32 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O2 Limit 5	S-3:Unit 800 Max 3-Hour NH3@15%O2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O2 Limit 5				
02/16/2019 0:00	Down	Down	Down	Down				
02/17/2019 0:00	Down	Down	Down	Down				
02/18/2019 0:00	Down	Down	Down	Down				
02/19/2019 0:00	Down	Down	Down	Down				
02/20/2019 0:00	Down	Down	Down	Down				
02/21/2019 0:00	Down	Down	Down	Down				
02/22/2019 0:00	Down	Down	Down	Down				
02/23/2019 0:00	Down	Down	Down	Down				
02/24/2019 0:00	Down	Down	Down	Down				
02/25/2019 0:00	Down	Down	Down	Down				
02/26/2019 0:00	2	2	Down	Down				
02/27/2019 0:00	0	0	Down	Down				
02/28/2019 0:00	Down	2	2	Down				
03/01/2019 0:00	Down	Down	Down	Down				
03/02/2019 0:00	Down	Down	Down	Down				
03/03/2019 0:00	Down	Down	Down	Down				
03/04/2019 0:00	Down	Down	2	3				
03/05/2019 0:00	Down	Down	1	1				
03/06/2019 0:00	Down	Down	1	1				
03/07/2019 0:00	0	0	1	1				
03/08/2019 0:00	Down	Down	1	3				
03/09/2019 0:00	Down	Down	2	2				
03/10/2019 0:00	Down	Down	2	3				
03/11/2019 0:00	1	1	1	2				
03/12/2019 0:00	1	1	1	1				
03/13/2019 0:00	0	0	Down	Down				
03/14/2019 0:00	1	Down	Down	Down				
03/15/2019 0:00	Down	Down	Down	Down				
03/16/2019 0:00	Down	Down	Down	Down				
03/17/2019 0:00	Down	Down	Down	Down				
03/18/2019 0:00	Down	Down	Down	Down				
03/19/2019 0:00	Down	Down	Down	Down				
03/20/2019 0:00	Down	Down	Down	Down				
03/21/2019 0:00	Down	Down	Down	Down				
03/22/2019 0:00	Down	Down	Down	Down				
03/23/2019 0:00	Down	Down	Down	Down				
03/24/2019 0:00	Down	Down	Down	Down				
03/25/2019 0:00	Down	Down	Down	Down				
03/26/2019 0:00	Down	Down	Down	Down				
03/27/2019 0:00	Down	Down	Down	Down				
03/28/2019 0:00	Down	Down	Down	Down				
03/29/2019 0:00	Down	Down	Down	Down				
03/30/2019 0:00	Down	Down	Down	Down				
03/31/2019 0:00	Down	Down	0	0				

AQ-17e: NH3 Emission Limits: Rolling 3-hr NH3 slip calculation (Attachment 9)

4/2/2019 10:51:32 PM

Page 3 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Tue 01/01/2019 0:00**Report End Date/Time :** Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 3-Hour NH3@15%O2 Limit 5	S-2:Unit 700 Max 3-Hour NH3@15%O2 Limit 5	S-3:Unit 800 Max 3-Hour NH3@15%O2 Limit 5	S-4:Unit 900 Max 3-Hour NH3@15%O2 Limit 5				
-----------	--	--	--	--	--	--	--	--

Total:								
Average:	1	1	1	2				
Maximum:	4	3	3	3				
Minimum:	0	0	0	0				

Attachment 10

**Condition AQ-17f/g Hourly Mass Emission Limits:
POC & SO₂ Report**

4/2/2019 10:51:41 PM

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

[illegible]

AQ-17f/g: Hourly Mass Emission Limits: POC and SO2 (Attachment 10)

4/2/2019 10:51:41 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour POC Lbs/Hr Limit 0.612	S-2:Unit 700 Max 1-Hour POC Lbs/Hr Limit 0.612	S-3:Unit 800 Max 1-Hour POC Lbs/Hr Limit 0.612	S-4:Unit 900 Max 1-Hour POC Lbs/Hr Limit 0.612	S-1:Unit 600 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-2:Unit 700 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-3:Unit 800 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-4:Unit 900 Max 1-Hour SO2 Lbs/Hr Limit 1.347
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	0.065	0.114	Down	Down	0.152	0.206	Down	Down
02/27/2019 0:00	0.030	0.052	Down	Down	0.071	0.093	Down	Down
02/28/2019 0:00	Down	0.115	0.083	Down	Down	0.208	0.197	Down
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	Down	Down	0.084	0.083	Down	Down	0.200	0.183
03/05/2019 0:00	Down	Down	0.060	0.053	Down	Down	0.142	0.118
03/06/2019 0:00	Down	Down	0.050	0.050	Down	Down	0.119	0.111
03/07/2019 0:00	0.023	0.067	0.056	0.057	0.054	0.122	0.134	0.126
03/08/2019 0:00	Down	Down	0.050	0.085	Down	Down	0.117	0.188
03/09/2019 0:00	Down	Down	0.082	0.081	Down	Down	0.193	0.179
03/10/2019 0:00	Down	Down	0.075	0.081	Down	Down	0.178	0.180
03/11/2019 0:00	0.057	0.098	0.082	0.081	0.133	0.178	0.194	0.179
03/12/2019 0:00	0.063	0.108	0.072	0.071	0.147	0.195	0.170	0.157
03/13/2019 0:00	0.040	0.057	Down	Down	0.094	0.104	Down	Down
03/14/2019 0:00	0.065	Down	Down	Down	0.151	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	0.011	0.007	Down	Down	0.056	0.034

AQ-17f/g: Hourly Mass Emission Limits: POC and SO2 (Attachment 10)

4/2/2019 10:51:42 PM

Page 3 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	S-1:Unit 600 Max 1-Hour POC Lbs/Hr Limit 0.612	S-2:Unit 700 Max 1-Hour POC Lbs/Hr Limit 0.612	S-3:Unit 800 Max 1-Hour POC Lbs/Hr Limit 0.612	S-4:Unit 900 Max 1-Hour POC Lbs/Hr Limit 0.612	S-1:Unit 600 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-2:Unit 700 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-3:Unit 800 Max 1-Hour SO2 Lbs/Hr Limit 1.347	S-4:Unit 900 Max 1-Hour SO2 Lbs/Hr Limit 1.347
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Total:								
Average:	0.051	0.091	0.067	0.067	0.118	0.164	0.160	0.149
Maximum:	0.069	0.120	0.088	0.086	0.162	0.218	0.209	0.191
Minimum:	0.023	0.049	0.011	0.007	0.054	0.089	0.056	0.034

Attachment 11

Condition AQ-18 Startup/Shutdown Emission Limits Report

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:49:54 PM

Page 1 of 3

Unit Name: Mariposa Unit 600

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
01/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/04/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/05/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/07/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/11/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/12/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/01/2019 0:00	6.4	1.0	6.8	0.4	0.1	0.6	0.0	0.00	0.0

Page 2 of 3

Report End Date/Time : Sun 03/31/2019 23:59

[illegible]

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:49:55 PM

Page 3 of 3

Unit Name: Mariposa Unit 600

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
03/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/07/2019 0:00	7.6	0.7	8.2	1.7	0.1	2.0	0.0	0.00	0.0
03/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/11/2019 0:00	6.5	0.9	7.1	1.1	0.2	1.5	0.0	0.00	0.1
03/12/2019 0:00	5.2	1.2	5.5	0.7	0.2	1.1	0.0	0.00	0.0
03/13/2019 0:00	6.2	1.1	6.6	0.5	0.2	0.8	0.0	0.00	0.0
03/14/2019 0:00	6.7	0.8	7.6	1.4	0.2	2.1	0.0	0.00	0.1
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
Total:									
Average:	6.0	1.1	6.7	1.1	0.2	1.5	0.0	0.00	0.05
Maximum:	7.6	1.4	8.7	1.7	0.3	2.5	0.0	0.00	0.06
Minimum:	3.7	0.7	4.3	0.4	0.1	0.6	0.0	0.00	0.04

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:04 PM

Page 1 of 3

Unit Name: Mariposa Unit 700

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
01/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/04/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/05/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/07/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/11/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/12/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/01/2019 0:00	7.2	1.0	7.5	1.4	0.1	1.6	0.0	0.00	0.1

4/2/2019 10:50:04 PM

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

[illegible]

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:04 PM

Page 3 of 3

Unit Name: Mariposa Unit 700

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
03/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/07/2019 0:00	8.6	0.9	9.0	1.5	0.2	1.6	0.0	0.00	0.1
03/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/11/2019 0:00	7.1	0.7	7.6	0.8	0.2	1.0	0.0	0.01	0.1
03/12/2019 0:00	5.5	1.0	5.8	0.6	0.2	0.8	0.0	0.01	0.1
03/13/2019 0:00	6.5	0.2	6.8	1.0	0.2	1.1	0.0	0.00	0.1
03/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
Total:									
Average:	6.5	0.9	7.1	1.1	0.2	1.4	0.0	0.01	0.08
Maximum:	8.6	1.4	9.0	1.5	0.5	1.9	0.0	0.01	0.10
Minimum:	4.9	0.2	5.5	0.4	0.1	0.8	0.0	0.00	0.07

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:12 PM

Page 1 of 3

Unit Name: Mariposa Unit 800

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
01/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/04/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/05/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/07/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/11/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/12/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/01/2019 0:00	7.7	0.8	8.1	1.1	0.1	1.3	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:13 PM

Page 2 of 3

Unit Name: Mariposa Unit 800

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
02/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/04/2019 0:00	7.1	1.1	7.3	0.5	0.2	1.3	0.0	0.00	0.1
02/05/2019 0:00	5.0	0.6	6.1	0.5	0.2	0.8	0.0	0.00	0.1
02/06/2019 0:00	7.1	1.2	9.3	1.1	0.3	2.3	0.0	0.01	0.1
02/07/2019 0:00	3.7	1.0	4.3	0.9	0.2	1.2	0.0	0.01	0.0
02/08/2019 0:00	4.1	1.2	5.0	0.7	0.2	1.1	0.0	0.00	0.0
02/09/2019 0:00	6.6	1.3	6.8	1.1	0.2	1.7	0.0	0.00	0.1
02/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/11/2019 0:00	7.2	1.0	7.7	0.9	0.2	1.4	0.0	0.01	0.1
02/12/2019 0:00	4.4	1.3	5.5	1.1	0.2	1.4	0.0	0.00	0.0
02/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/28/2019 0:00	7.5	1.0	8.2	1.3	0.2	1.7	0.0	0.01	0.1
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	4.5	0.4	5.6	1.0	0.2	1.4	0.0	0.01	0.1
03/05/2019 0:00	5.8	1.2	6.1	0.8	0.2	1.2	0.0	0.00	0.1

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:13 PM

Page 3 of 3

Unit Name: Mariposa Unit 800

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
03/06/2019 0:00	6.5	1.2	6.8	0.4	0.2	0.7	0.0	0.00	0.0
03/07/2019 0:00	8.3	1.3	8.5	0.7	0.2	0.8	0.0	0.00	0.1
03/08/2019 0:00	6.5	1.1	6.9	1.1	0.2	1.3	0.0	0.00	0.0
03/09/2019 0:00	6.5	1.0	6.9	0.6	0.2	0.9	0.0	0.00	0.0
03/10/2019 0:00	9.1	0.1	9.8	0.6	0.2	0.9	0.0	0.00	0.1
03/11/2019 0:00	4.6	1.2	5.5	1.0	0.2	1.4	0.0	0.00	0.1
03/12/2019 0:00	8.4	0.4	9.5	1.2	0.1	1.5	0.0	0.00	0.1
03/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	8.0	1.1	9.1	0.9	0.1	1.1	0.0	0.00	0.0
Total:									
Average:	6.4	1.0	7.2	0.9	0.2	1.3	0.0	0.00	0.06
Maximum:	9.1	1.3	9.8	1.3	0.3	2.3	0.0	0.01	0.08
Minimum:	3.7	0.1	4.3	0.4	0.1	0.7	0.0	0.00	0.02

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:21 PM

Page 1 of 3

Unit Name: Mariposa Unit 900

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
01/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/04/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/05/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/06/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/07/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/08/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/09/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/11/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/12/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
01/31/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/01/2019 0:00	8.6	1.7	9.0	0.4	0.1	0.5	0.0	0.00	0.0

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:21 PM

Page 2 of 3

Unit Name: Mariposa Unit 900

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
02/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/04/2019 0:00	7.7	1.1	8.3	0.6	0.1	1.1	0.0	0.00	0.1
02/05/2019 0:00	7.1	0.9	8.0	0.4	0.1	0.8	0.0	0.00	0.1
02/06/2019 0:00	7.9	1.3	10.3	1.2	0.2	1.7	0.0	0.01	0.1
02/07/2019 0:00	5.8	1.1	6.4	0.3	0.1	0.6	0.0	0.00	0.0
02/08/2019 0:00	6.8	1.2	7.3	1.2	0.1	1.4	0.0	0.01	0.0
02/09/2019 0:00	7.9	1.4	8.7	1.5	0.1	2.0	0.0	0.00	0.1
02/10/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/11/2019 0:00	7.7	1.2	8.2	1.3	0.2	1.8	0.0	0.01	0.1
02/12/2019 0:00	5.9	1.3	6.4	0.8	0.1	1.4	0.0	0.00	0.0
02/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
02/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/01/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/02/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/03/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/04/2019 0:00	9.2	0.7	10.2	0.6	0.1	1.0	0.0	0.01	0.1
03/05/2019 0:00	6.3	1.4	6.8	0.6	0.1	0.8	0.0	0.00	0.1

AQ-18: Startup and Shutdown Emission Limits (Attachment 11)

4/2/2019 10:50:22 PM

Page 3 of 3

Unit Name: Mariposa Unit 900

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Max NOx Lbs Startup Limit 14.2	Max NOx Lbs Shutdown Limit 3.2	Max NOx Lbs/Hr Limit 18.5	Max CO Lbs Startup Limit 14.1	Max CO Lbs Shutdown Limit 2.7	Max CO Lbs/Hr Limit 17.3	Max POC Lbs Startup Limit 1.1	Max POC Lbs Shutdown Limit 0.12	Max POC Lbs/Hr Limit 1.4
03/06/2019 0:00	6.9	1.3	7.4	0.4	0.1	0.6	0.0	0.00	0.0
03/07/2019 0:00	8.3	1.4	8.8	0.7	0.1	0.8	0.0	0.00	0.1
03/08/2019 0:00	7.1	0.3	7.6	0.4	0.1	0.5	0.0	0.00	0.0
03/09/2019 0:00	7.4	1.1	7.8	0.6	0.1	0.9	0.0	0.00	0.0
03/10/2019 0:00	7.5	0.5	8.2	0.5	0.1	0.8	0.0	0.00	0.1
03/11/2019 0:00	6.4	1.2	7.5	0.4	0.1	0.8	0.0	0.00	0.1
03/12/2019 0:00	8.2	0.8	9.5	0.5	0.1	0.8	0.0	0.00	0.1
03/13/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/14/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/15/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/16/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/17/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/18/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/19/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/20/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/21/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/22/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/23/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/24/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/25/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/26/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/27/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/28/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/29/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/30/2019 0:00	Down	Down	Down	Down	Down	Down	Down	Down	Down
03/31/2019 0:00	7.6	1.3	9.0	0.3	0.1	0.4	0.0	0.00	0.0
Total:									
Average:	7.4	1.1	8.2	0.7	0.1	1.0	0.0	0.00	0.06
Maximum:	9.2	1.7	10.3	1.5	0.2	2.0	0.0	0.01	0.08
Minimum:	5.8	0.3	6.4	0.3	0.1	0.4	0.0	0.00	0.01

Attachment 12

**Condition AQ-19 Daily Emission Limits:
NO_x, CO, POC, SO₂ Emissions Report**

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

4/2/2019 10:51:49 PM

Page 1 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
01/01/2019 0:00	Down	Down	Down	Down				
01/02/2019 0:00	Down	Down	Down	Down				
01/03/2019 0:00	Down	Down	Down	Down				
01/04/2019 0:00	Down	Down	Down	Down				
01/05/2019 0:00	Down	Down	Down	Down				
01/06/2019 0:00	Down	Down	Down	Down				
01/07/2019 0:00	Down	Down	Down	Down				
01/08/2019 0:00	Down	Down	Down	Down				
01/09/2019 0:00	Down	Down	Down	Down				
01/10/2019 0:00	Down	Down	Down	Down				
01/11/2019 0:00	Down	Down	Down	Down				
01/12/2019 0:00	Down	Down	Down	Down				
01/13/2019 0:00	Down	Down	Down	Down				
01/14/2019 0:00	Down	Down	Down	Down				
01/15/2019 0:00	Down	Down	Down	Down				
01/16/2019 0:00	Down	Down	Down	Down				
01/17/2019 0:00	Down	Down	Down	Down				
01/18/2019 0:00	Down	Down	Down	Down				
01/19/2019 0:00	Down	Down	Down	Down				
01/20/2019 0:00	Down	Down	Down	Down				
01/21/2019 0:00	Down	Down	Down	Down				
01/22/2019 0:00	Down	Down	Down	Down				
01/23/2019 0:00	Down	Down	Down	Down				
01/24/2019 0:00	Down	Down	Down	Down				
01/25/2019 0:00	Down	Down	Down	Down				
01/26/2019 0:00	Down	Down	Down	Down				
01/27/2019 0:00	Down	Down	Down	Down				
01/28/2019 0:00	Down	Down	Down	Down				
01/29/2019 0:00	Down	Down	Down	Down				
01/30/2019 0:00	Down	Down	Down	Down				
01/31/2019 0:00	Down	Down	Down	Down				
02/01/2019 0:00	41	4	0	0				
02/02/2019 0:00	Down	Down	Down	Down				
02/03/2019 0:00	Down	Down	Down	Down				
02/04/2019 0:00	104	30	2	4				
02/05/2019 0:00	105	40	2	4				
02/06/2019 0:00	140	44	3	5				
02/07/2019 0:00	91	34	2	4				
02/08/2019 0:00	89	30	2	3				
02/09/2019 0:00	91	27	1	3				
02/10/2019 0:00	Down	Down	Down	Down				
02/11/2019 0:00	155	53	3	6				
02/12/2019 0:00	90	27	1	3				
02/13/2019 0:00	24	5	0	1				
02/14/2019 0:00	Down	Down	Down	Down				
02/15/2019 0:00	Down	Down	Down	Down				

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

4/2/2019 10:51:49 PM

Page 2 of 3

Unit Name: Mariposa Facility

Report Start Date/Time : Tue 01/01/2019 0:00

Report End Date/Time : Sun 03/31/2019 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
02/16/2019 0:00	Down	Down	Down	Down				
02/17/2019 0:00	Down	Down	Down	Down				
02/18/2019 0:00	Down	Down	Down	Down				
02/19/2019 0:00	Down	Down	Down	Down				
02/20/2019 0:00	Down	Down	Down	Down				
02/21/2019 0:00	Down	Down	Down	Down				
02/22/2019 0:00	Down	Down	Down	Down				
02/23/2019 0:00	Down	Down	Down	Down				
02/24/2019 0:00	Down	Down	Down	Down				
02/25/2019 0:00	Down	Down	Down	Down				
02/26/2019 0:00	35	11	1	1				
02/27/2019 0:00	19	3	0	0				
02/28/2019 0:00	34	11	1	1				
03/01/2019 0:00	Down	Down	Down	Down				
03/02/2019 0:00	Down	Down	Down	Down				
03/03/2019 0:00	Down	Down	Down	Down				
03/04/2019 0:00	43	12	1	2				
03/05/2019 0:00	45	9	0	1				
03/06/2019 0:00	34	9	0	1				
03/07/2019 0:00	58	11	1	1				
03/08/2019 0:00	34	8	0	1				
03/09/2019 0:00	36	10	1	1				
03/10/2019 0:00	33	9	1	1				
03/11/2019 0:00	52	10	1	1				
03/12/2019 0:00	43	8	1	1				
03/13/2019 0:00	19	3	0	0				
03/14/2019 0:00	22	6	0	1				
03/15/2019 0:00	Down	Down	Down	Down				
03/16/2019 0:00	Down	Down	Down	Down				
03/17/2019 0:00	Down	Down	Down	Down				
03/18/2019 0:00	Down	Down	Down	Down				
03/19/2019 0:00	Down	Down	Down	Down				
03/20/2019 0:00	Down	Down	Down	Down				
03/21/2019 0:00	Down	Down	Down	Down				
03/22/2019 0:00	Down	Down	Down	Down				
03/23/2019 0:00	Down	Down	Down	Down				
03/24/2019 0:00	Down	Down	Down	Down				
03/25/2019 0:00	Down	Down	Down	Down				
03/26/2019 0:00	Down	Down	Down	Down				
03/27/2019 0:00	Down	Down	Down	Down				
03/28/2019 0:00	Down	Down	Down	Down				
03/29/2019 0:00	Down	Down	Down	Down				
03/30/2019 0:00	Down	Down	Down	Down				
03/31/2019 0:00	22	4	0	0				

AQ-19: Daily Emission Limits: NOx, CO, POC, SO2 (Attachment 12)

4/2/2019 10:51:49 PM

Page 3 of 3

Unit Name: Mariposa Facility**Report Start Date/Time :** Tue 01/01/2019 0:00**Report End Date/Time :** Sun 03/31/2019 23:59

DATE/TIME	Daily NOx Lbs Limit 1100	Daily CO Lbs Limit 934	Daily POC Lbs Limit 95	Daily SO2 Lbs Limit 130				
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Total:	1461	419	22	48
Average:	58	17	1	2
Maximum:	155	53	3	6
Minimum:	19	3	0	0

Attachment 13

**Condition AQ-20 Cumulative Rolling 12-Month
CTG Emissions: NO_x, CO, POC, PM₁₀, SO₂
Emissions Report**

Unit Name: Mariposa Facility

DATE/TIME	NOx Tons Limit 45.6	CO Tons Limit 27.2	POC Tons Limit 5.6	PM10 Tons Limit 18.6	SO2 Tons Limit 2.9
01/2019	7.3	2.2	0.2	0.5	0.2
02/2019	7.4	2.3	0.1	0.6	0.3
03/2019	7.3	2.2	0.1	0.6	0.2
Maximum:	7.4	2.3	0.2	0.6	0.3
Minimum:	7.3	2.2	0.1	0.5	0.2

Attachment 14

**Condition AQ-31 Sulfuric Acid
Emissions Report**

AQ-31: Facility SAM 12-Month Tons Limit (Attachment 14)

4/2/2019 11:43:45 PM

Page 1 of 1

Unit Name: Mariposa Facility

DATE/TIME	S-1:Unit 600 SAM Tons	S-2:Unit 700 SAM Tons	S-3:Unit 800 SAM Tons	S-4:Unit 900 SAM Tons	Facility SAM Tons Limit 7
01/2019	0.29	0.29	0.30	0.29	1.17
02/2019	0.28	0.28	0.29	0.28	1.13
03/2019	0.27	0.27	0.28	0.27	1.09
Maximum:	0.29	0.29	0.30	0.29	1.17
Minimum:	0.27	0.27	0.28	0.27	1.09

Attachment 15

**Condition AQ-35 Timely Notification
of Permit Condition Violations Report**

Condition AQ-35: Timely Notification of Permit Condition Violations Report

Permit Condition 24955, part 35 (AQ-35) states:

The owner/operator of the MEP shall notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the owner/operator shall submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition.

There were no violations of any of the applicable permit conditions for Mariposa Energy LLC during the first quarter of 2019.

Attachment 16

**Condition AQ-38: 40 CFR Part 72.9(c)(1) SO₂ Allowances
and 40 CFR Part 75 CEM Requirements Report**



CAMD Business System



United States
Environmental Protection
Agency

Home
Reports
Help
Definitions
Contact Us
logged in as (WForsyth) Logout

2014 COMPLIANCE - ACID RAIN PROGRAM / CAIR SO2 ANNUAL PROGRAM

Compliance Results

Draft compliance has been automatically run for all of your facilities for which all of the appropriate emissions data for the compliance period has been submitted. The results are shown in the table below; any facilities with excess emissions are listed in a pop-up box.

You may run 'draft' compliance again for a facility by checking the box next to the account number and clicking the 'Select' button below the table. A pop-up box will appear stating 'Your changes have been saved.' Click 'OK,' then review the information for that facility; 'Draft' will be denoted in the 'Compliance Status' column until final compliance is run for that facility. If a 0 (zero) appears in the 'Excess Emissions' column, that means there are currently enough allowances in the compliance account for the facility to cover its emissions. You may run draft compliance for a facility as many times as you wish (e.g., after allowance transfers or emissions data resubmissions) until final compliance is run for that facility.

After the allowance transfer deadline, you may run final compliance for a facility if the term 'Accepted' is denoted in the 'Emissions Data Status' column for that facility. To do so, (1) select a facility by checking the box next to the account number, (2) check the box at the bottom of the table that reads 'Check to run final compliance' (this box will not be visible on the screen until the day after the allowance transfer deadline) and (3) click the 'Select' button.

Do not run final compliance if your emissions data are not final. If, for a specific facility, you resubmit emissions data after running final compliance for that facility, and the newly reported emissions are less than the emissions were at the time final compliance was run, the emissions tonnage difference in allowances will NOT be returned to you.

If you have any questions, contact Kenon Smith (202-343-9164) or Paula Branch (202-343-9168).

Results for Selected Facilities

Facility ID (ORISPL)	Facility Name	State	Run Status	Program	Allowances Held 1:1	Allowances Held 2:1	Emissions (tons)	Under-utilization Liability	Total Liability	Excess Emissions	Compliance Status	Compliance Run Date	Emissions Data Status	Last Updated By	Last Updated
057483FACILITY	Mariposa Energy Project	CA	Success	ARP	2	0	0	0	0	0	Draft	02/03/2015	Pending	Forsyth, Wayne	02/03/2015 12:53:39

[Continue](#)

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

COMPANY: MARIPOSA ENERGY, LLC

SOURCE: CTG-1, 2, 3, 4 (S-1, 2, 3, 4)

PLANT NO. 19730

POLLUTANT: NO_x and CO

MONTH: Jan-19

DILUENT: O₂

II. STATEMENT OF EXCESS EMISSIONS* (Negative Declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
There were no excess emissions of NO _x or CO from any of the combustion turbine generator sources (S-1, S-2, S-3, or S-4) during the month of January 2019.				

III. MONITOR MALFUNCTION

DATE	TIME	DURATION	PROBLEM/CORRECTIVE ACTION
There were no monitor malfunctions on any of the combustion turbine generator sources (S-1, S-2, S-3 or S-4) during the month of January 2019.			


Signature

2/19/19
Date

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

COMPANY: MARIPOSA ENERGY, LLC

SOURCE CTG-1, 2, 3, 4 (S-1, 2, 3, 4)

PLANT NO. 19730

POLLUTANT NO_x and CO

MONTH: Feb-19

DILUENT O₂

II. STATEMENT OF EXCESS EMISSIONS* (Negative Declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
There were no excess emissions of NO _x or CO from any of the combustion turbine generator sources (S-1, S-2, S-3 or S-4) during the month of February 2019.				

III. MONITOR MALFUNCTION

DATE	TIME	DURATION	PROBLEM/CORRECTIVE ACTION
There were no monitor malfunctions on any of the combustion turbine generator sources (S-1, S-2, S-3 or S-4) during the month of February 2019.			

Signature



Date

3/13/19

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT

MONTHLY CONTINUOUS EMISSION MONITORING REPORT

COMPANY: MARIPOSA ENERGY, LLC

SOURCE: CTG-1, 2, 3, 4 (S-1, 2, 3, 4)

PLANT NO. 19730

POLLUTANT: NO_x and CO

MONTH: Mar-19

DILUENT: O₂

II. STATEMENT OF EXCESS EMISSIONS* (Negative Declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
There were no excess emissions of NOx or CO from any of the combustion turbine generator sources (S-1, S-2, S-3, or S-4), during the month of March 2019.				

III. MONITOR MALFUNCTION

DATE	TIME	DURATION	PROBLEM/CORRECTIVE ACTION
There were no monitor malfunctions on any of the combustion turbine generator sources (S-1, S-2, S-3 or S-4), during the month of March 2019.			


Signature

4/16/19
Date

Attachment 17

**Conditions AQ-39, AQ-40
S-6 Emergency Fire Pump
Operation Report
(BAAQMD Condition 22850, Parts 1 & 2)**

Conditions AQ-39, AQ-40 5-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JUEH-UFADM8 (Clark Fire Pump Engine Model Designation)

Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)

Size: 175 BHP 2011 Model Year

Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)

Source No: 6

EPA Engine Family: BJDXL06.8120

Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
9/28/2012	0.0	1.6	Maintenance & Testing	DC	1.6	0	100%	16.6 gal	16.6 gal
10/21/2012	1.6	2.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	21.8 gal
10/29/2012	2.1	2.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	27.0 gal
11/7/2012	2.6	3.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	32.2 gal
11/12/2012	3.1	3.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	37.4 gal
11/21/2012	3.6	4.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	42.6 gal
11/26/2012	4.1	4.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	47.8 gal
12/3/2012	4.6	5.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	53.0 gal
12/13/2012	5.1	5.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	58.2 gal
12/18/2012	5.6	6.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	63.4 gal
12/27/2012	6.1	6.6	Maintenance & Testing	JR	0.5	0	100%	5.2 gal	68.6 gal
1/3/2013	6.6	7.1	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	73.8 gal
1/10/2013	7.1	7.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	79.0 gal
1/16/2013	7.6	8.1	Maintenance & Testing	CC	0.5	0	87%	5.2 gal	84.2 gal
1/22/2013	8.1	8.5	Maintenance & Testing	RR	0.4	0	87%	4.2 gal	88.4 gal
1/30/2013	8.5	9.1	Maintenance & Testing	DC	0.6	0	87%	6.2 gal	94.6 gal
2/7/2013	9.1	9.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	99.8 gal
2/14/2013	9.6	10.1	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	105.0 gal
2/18/2013	10.1	10.6	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	110.2 gal
2/25/2013	10.6	11.1	Maintenance & Testing	DC	0.5	0	87%	5.2 gal	115.4 gal
3/4/2013	11.1	11.6	Maintenance & Testing	JM	0.5	0	87%	5.2 gal	120.6 gal
3/10/2013	11.6	12.1	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	125.8 gal
3/16/2013	12.1	12.6	Maintenance & Testing	RR	0.5	0	87%	5.2 gal	131.0 gal
3/28/2013	12.6	13.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	136.2 gal
4/1/2013	13.1	13.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	141.4 gal
4/8/2013	13.6	14.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	146.6 gal
4/17/2013	14.1	14.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	151.8 gal
4/25/2013	14.6	15.1	Maintenance & Testing	D	0.5	0	75%	5.2 gal	157.0 gal
5/1/2013	15.1	15.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	162.2 gal
5/8/2013	15.6	16.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	167.4 gal
5/15/2013	16.1	16.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	172.6 gal
5/21/2013	16.6	17.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	177.8 gal
5/28/2013	17.1	17.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	183.0 gal
6/4/2013	17.6	18.1	Maintenance & Testing	AC	0.5	0	100%	5.2 gal	188.2 gal
6/12/2013	18.1	18.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	193.4 gal
6/17/2013	18.6	19.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	198.6 gal
6/25/2013	19.1	19.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	203.8 gal
7/3/2013	19.6	20.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	209.0 gal
7/8/2013	20.1	20.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	214.2 gal
7/15/2013	20.6	21.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	219.4 gal
7/22/2013	21.1	21.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	224.6 gal
7/29/2013	21.6	22.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	229.8 gal
8/5/2013	22.1	22.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	235.0 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine J66H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denoles Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
8/12/2013	22.6	23.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	240.2 gal
8/19/2013	23.1	23.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	245.4 gal
8/26/2013	23.6	24.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	250.6 gal
9/4/2013	24.1	24.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	255.8 gal
9/10/2013	24.6	25.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	261.0 gal
9/16/2013	25.1	25.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	266.2 gal
9/25/2013	25.6	26.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	271.4 gal
10/1/2013	26.1	26.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	276.6 gal
10/8/2013	26.6	27.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	281.8 gal
10/14/2013	27.1	27.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	287.0 gal
10/21/2013	27.6	28.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	292.2 gal
10/28/2013	28.1	28.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	297.4 gal
11/5/2013	28.6	29.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	302.6 gal
11/14/2013	29.1	29.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	307.8 gal
11/21/2013	29.6	30.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	313.0 gal
11/26/2013	30.1	30.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	318.2 gal
12/3/2013	30.6	31.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	323.4 gal
12/10/2013	31.1	31.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	328.6 gal
12/19/2013	31.6	32.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	333.8 gal
12/24/2013	32.1	32.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	339.0 gal
12/31/2013	32.6	33.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	344.2 gal
1/7/2014	33.1	33.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	349.4 gal
1/14/2014	33.6	34.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	354.6 gal
1/21/2014	34.1	34.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	359.8 gal
1/28/2014	34.6	35.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	365.0 gal
2/4/2014	35.1	35.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	370.2 gal
2/12/2014	35.6	36.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	375.4 gal
2/19/2014	36.1	36.6	Maintenance & Testing	DC	0.5	0	80%	5.2 gal	380.6 gal
2/26/2014	36.6	37.1	Maintenance & Testing	DC	0.5	0	80%	5.2 gal	385.8 gal
3/4/2014	37.1	37.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	391.0 gal
3/12/2014	37.6	38.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	396.2 gal
3/22/2014	38.1	38.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	401.4 gal
3/25/2014	38.6	39.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	406.6 gal
4/1/2014	39.1	39.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	411.8 gal
4/8/2014	39.6	40.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	417.0 gal
4/11/2014	40.1	40.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	422.2 gal
4/22/2014	40.6	41.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	427.4 gal
4/28/2014	41.1	41.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	432.6 gal
5/6/2014	41.6	42.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	437.8 gal
5/12/2014	42.1	42.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	443.0 gal
5/18/2014	42.6	43.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	448.2 gal
5/26/2014	43.1	43.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	453.4 gal
6/5/2014	43.6	44.1	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	458.6 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denoles Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator Initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
6/12/2014	44.1	44.6	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	463.8 gal
6/18/2014	44.6	45.1	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	469.0 gal
6/26/2014	45.1	45.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	474.2 gal
7/2/2014	45.6	46.1	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	479.4 gal
7/8/2014	46.1	46.6	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	484.6 gal
7/15/2014	46.6	47.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	489.8 gal
7/21/2014	47.1	47.6	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	495.0 gal
7/30/2014	47.6	48.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	500.2 gal
8/5/2014	48.1	48.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	505.4 gal
8/14/2014	48.6	49.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	510.6 gal
8/20/2014	49.1	49.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	515.8 gal
8/26/2014	49.6	50.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	521.0 gal
9/1/2014	50.1	50.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	526.2 gal
9/10/2014	50.6	51.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	531.4 gal
9/18/2014	51.1	51.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	536.6 gal
9/22/2014	51.6	52.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	541.8 gal
10/1/2014	52.1	52.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	547.0 gal
10/16/2014	52.6	53.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	552.2 gal
10/21/2014	53.1	53.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	557.4 gal
10/27/2014	53.6	54.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	562.6 gal
11/3/2014	54.1	54.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	567.8 gal
11/14/2014	54.6	55.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	573.0 gal
11/18/2014	55.1	55.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	578.2 gal
11/25/2014	55.6	56.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	583.4 gal
12/3/2014	56.1	56.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	588.6 gal
12/10/2014	56.6	57.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	593.8 gal
12/16/2014	57.1	57.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	599.0 gal
12/23/2014	57.6	58.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	604.2 gal
12/31/2014	58.1	58.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	609.4 gal
1/8/2015	58.6	59.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	614.6 gal
1/15/2015	59.1	59.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	619.8 gal
1/21/2015	59.6	60.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	625.0 gal
1/29/2015	60.1	60.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	630.2 gal
2/4/2015	60.6	61.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	635.4 gal
2/10/2015	61.1	61.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	640.6 gal
2/16/2015	61.6	62.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	645.8 gal
2/24/2015	62.1	62.6	Maintenance & Testing	DC	0.5	0	100%	5.2 gal	651.0 gal
3/4/2015	62.6	63.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	656.2 gal
3/11/2015	63.1	63.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	661.4 gal
3/18/2015	63.6	64.1	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	666.6 gal
3/25/2015	64.1	64.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	671.8 gal
3/31/2015	64.6	65.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	677.0 gal
4/7/2015	65.1	65.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	682.2 gal

Conditions AQ-39, AQ-40 5-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)

Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)

Size: 175 BHP 2011 Model Year

Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)

Source No: 6

EPA Engine Family: BJDXL06.8120

Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator Initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
4/15/2015	65.6	66.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	687.4 gal
4/23/2015	66.1	66.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	692.6 gal
4/27/2015	66.6	67.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	697.8 gal
5/5/2015	67.1	67.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	703.0 gal
5/14/2015	67.6	68.1	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	708.2 gal
5/21/2015	68.1	68.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	713.4 gal
5/27/2015	68.6	69.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	718.6 gal
6/4/2015	69.1	69.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	723.8 gal
6/10/2015	69.6	70.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	729.0 gal
6/18/2015	70.1	70.6	Maintenance & Testing	DC	0.5	0	88%	5.2 gal	734.2 gal
6/24/2015	70.6	71.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	739.4 gal
6/30/2015	71.1	71.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	744.6 gal
7/8/2015	71.6	72.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	749.8 gal
7/15/2015	72.1	72.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	755.0 gal
7/22/2015	72.6	73.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	760.2 gal
7/29/2015	73.1	73.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	765.4 gal
8/3/2015	73.6	74.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	770.6 gal
8/11/2015	74.1	74.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	775.8 gal
8/19/2015	74.6	75.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	781.0 gal
8/25/2015	75.1	75.6	Maintenance & Testing	CC	0.5	0	75%	5.2 gal	786.2 gal
9/1/2015	75.6	76.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	791.4 gal
9/7/2015	76.1	76.6	Maintenance & Testing	DC	0.5	0	75%	5.2 gal	796.6 gal
9/15/2015	76.6	77.1	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	801.8 gal
9/22/2015	77.1	77.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	807.0 gal
9/28/2015	77.6	77.6	Maintenance & Testing	RR	0.0	0	100%	0.0 gal	807.0 gal
10/9/2015	77.6	78.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	812.2 gal
10/15/2015	78.1	78.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	817.4 gal
10/20/2015	78.6	79.1	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	822.6 gal
10/26/2015	79.1	79.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	827.8 gal
11/4/2015	79.6	80.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	833.0 gal
11/11/2015	80.1	80.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	838.2 gal
11/16/2015	80.6	81.1	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	843.4 gal
11/24/2015	81.1	81.6	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	848.6 gal
12/1/2015	81.6	82.1	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	853.8 gal
12/6/2015	82.1	82.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	859.0 gal
12/13/2015	82.6	83.1	Maintenance & Testing	JM	0.5	0	88%	5.2 gal	864.2 gal
12/20/2015	83.1	83.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	869.4 gal
12/27/2015	83.6	84.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	874.6 gal
1/6/2016	84.1	84.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	879.8 gal
1/13/2016	84.6	85.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	885.0 gal
1/20/2016	85.1	85.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	890.2 gal
1/26/2016	85.6	86.1	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	895.4 gal
2/3/2016	86.1	86.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	900.6 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine J06H-UFADM8 (Clark Fire Pump Engine Model Designation)

Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)

Size: 175 BHP 2011 Model Year

Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)

Source No: 6

EPA Engine Family: BJOXL06.8120

Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator Initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
2/9/2016	86.6	87.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	905.8 gal
2/16/2016	87.1	87.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	911.0 gal
2/24/2016	87.6	88.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	916.2 gal
3/3/2016	88.1	88.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	921.4 gal
3/8/2016	88.6	89.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	926.6 gal
3/14/2016	89.1	89.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	931.8 gal
3/21/2016	89.6	90.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	937.0 gal
3/31/2016	90.1	90.6	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	942.2 gal
4/6/2016	90.6	91.1	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	947.4 gal
4/11/2016	91.1	91.6	Maintenance & Testing	RR	0.5	0	88%	5.2 gal	952.6 gal
4/25/2016	91.6	92.1	Maintenance & Testing	FP	0.5	0	88%	5.2 gal	957.8 gal
5/2/2016	92.1	92.6	Maintenance & Testing	CC	0.5	0	88%	5.2 gal	963.0 gal
5/9/2016	92.6	93.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	968.2 gal
5/16/2016	93.1	93.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	973.4 gal
5/23/2016	93.6	94.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	978.6 gal
5/30/2016	94.1	94.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	983.8 gal
6/6/2016	94.6	95.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	989.0 gal
6/13/2016	95.1	95.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	994.2 gal
6/20/2016	95.6	96.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	999.4 gal
6/27/2016	96.1	96.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1004.6 gal
7/4/2016	96.6	97.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1009.8 gal
7/11/2016	97.1	97.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1015.0 gal
7/18/2016	97.6	98.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1020.2 gal
7/25/2016	98.1	98.6	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1025.4 gal
8/1/2016	98.6	99.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1030.6 gal
8/8/2016	99.1	99.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1035.8 gal
8/15/2016	99.6	100.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1041.0 gal
8/22/2016	100.1	100.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1046.2 gal
8/29/2016	100.6	101.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1051.4 gal
9/5/2016	101.1	101.6	Maintenance & Testing	JM	0.5	0	85%	5.2 gal	1056.6 gal
9/12/2016	101.6	102.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1061.8 gal
9/19/2016	102.1	102.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1067.0 gal
9/26/2016	102.6	103.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1072.2 gal
10/8/2016	103.1	103.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1077.4 gal
10/10/2016	103.6	104.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1082.6 gal
10/17/2016	104.1	104.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1087.8 gal
10/24/2016	104.6	105.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1093.0 gal
10/31/2016	105.1	105.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1098.2 gal
11/7/2016	105.6	106.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1103.4 gal
11/14/2016	106.1	106.6	Maintenance & Testing	CC	0.5	0	80%	5.2 gal	1108.6 gal
11/21/2016	106.6	107.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1113.8 gal
11/28/2016	107.1	107.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1119.0 gal
12/5/2016	107.6	108.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1124.2 gal

Conditions AQ-39, AQ-40 5-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)

Model: 6068HFC28A,B,C,D (John Deere Engine Model Designation)

Size: 175 BHP 2011 Model Year

Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)

Source No: 6

EPA Engine Family: BJDXL06.8120

Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator Initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
12/12/2016	108.1	108.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1129.4 gal
12/19/2016	108.6	109.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1134.6 gal
12/26/2016	109.1	109.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1139.8 gal
1/2/2017	109.6	110.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1145.0 gal
1/9/2017	110.1	110.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1150.2 gal
1/16/2017	110.6	111.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1155.4 gal
1/23/2017	111.1	111.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1160.6 gal
1/30/2017	111.6	112.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1165.8 gal
2/6/2017	112.1	112.6	Maintenance & Testing	CC	0.5	0	90%	5.2 gal	1171.0 gal
2/13/2017	112.6	113.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1176.2 gal
2/20/2017	113.1	113.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1181.4 gal
2/27/2017	113.6	114.1	Maintenance & Testing	FP	0.5	0	85%	5.2 gal	1186.6 gal
3/6/2017	114.1	114.6	Maintenance & Testing	CC	0.5	0	85%	5.2 gal	1191.8 gal
3/13/2017	114.6	115.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1197.0 gal
3/20/2017	115.1	115.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1202.2 gal
3/27/2017	115.6	116.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1207.4 gal
4/3/2017	116.1	116.6	Maintenance & Testing	JM	0.5	0	80%	5.2 gal	1212.6 gal
4/10/2017	116.6	117.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1217.8 gal
4/17/2017	117.1	117.6	Maintenance & Testing	JM	0.5	0	75%	5.2 gal	1223.0 gal
4/24/2017	117.6	118.1	Maintenance & Testing	FP	0.5	0	100%	5.2 gal	1228.2 gal
5/1/2017	118.1	118.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1233.4 gal
5/8/2017	118.6	119.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1238.6 gal
5/15/2017	119.1	119.6	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1243.8 gal
5/22/2017	119.6	120.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1249.0 gal
5/29/2017	120.1	120.6	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1254.2 gal
6/5/2017	120.6	121.1	Maintenance & Testing	CC	0.5	0	95%	5.2 gal	1259.4 gal
6/12/2017	121.1	121.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1264.6 gal
6/19/2017	121.6	122.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1269.8 gal
6/26/2017	122.1	122.6	Maintenance & Testing	CC	0.5	0	90%	5.2 gal	1275.0 gal
7/3/2017	122.6	123.1	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1280.2 gal
7/10/2017	123.1	123.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1285.4 gal
7/17/2017	123.6	124.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1290.6 gal
7/24/2017	124.1	124.6	Maintenance & Testing	CC	0.5	0	80%	5.2 gal	1295.8 gal
7/31/2017	124.6	125.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1301.0 gal
8/7/2017	125.1	125.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1306.2 gal
8/14/2017	125.6	126.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1311.4 gal
8/21/2017	126.1	126.6	Maintenance & Testing	CC	0.5	0	100%	5.2 gal	1316.6 gal
8/28/2017	126.6	127.1	Maintenance & Testing	RR	0.5	0	95%	5.2 gal	1321.8 gal
9/3/2017	127.1	127.6	Maintenance & Testing	JM	0.5	0	95%	5.2 gal	1327.0 gal
9/11/2017	127.6	128.1	Maintenance & Testing	FP	0.5	0	95%	5.2 gal	1332.2 gal
9/18/2017	128.1	128.6	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1337.4 gal
9/26/2017	128.6	129.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1342.6 gal
10/3/2017	129.1	129.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1347.8 gal

Conditions AQ-39, AQ-40 S-5 Emergency Fire Pump Operation Report

S-6 Diesel Fire Pump Driver Operating Log

Engine J06H-UFADM8 (Clark Fire Pump Engine Model Designation)
 Model: 606BHFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6

EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel

Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Date	At Start Timer Reading	At Stop Timer Reading	Maintenance & Testing Hours/ Emergency Operation Hours	Operator Initials	Actual Maintenance & Testing Hours	Emergency Operation Hours	Tank Level	Net Fuel Use	Cumulative Fuel Use
10/9/2017	129.6	130.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1353.0 gal
10/16/2017	130.1	130.6	Maintenance & Testing	JM	0.5	0	90%	5.2 gal	1358.2 gal
10/23/2017	130.6	131.1	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1363.4 gal
10/30/2017	131.1	131.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1368.6 gal
11/6/2017	131.6	132.1	Maintenance & Testing	FP	0.5	0	90%	5.2 gal	1373.8 gal
11/13/2017	132.1	132.6	Maintenance & Testing	RR	0.5	0	90%	5.2 gal	1379.0 gal
11/20/2017	132.6	133.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1384.2 gal
11/27/2017	133.1	133.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1389.4 gal
12/4/2017	133.6	134.1	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1394.6 gal
12/11/2017	134.1	134.6	Maintenance & Testing	RR	0.5	0	85%	5.2 gal	1399.8 gal
12/18/2017	134.6	135.1	Maintenance & Testing	JJ	0.5	0	80%	5.2 gal	1405.0 gal
12/25/2017	135.1	135.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1410.2 gal
1/1/2018	135.6	136.1	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1415.4 gal
1/8/2018	136.1	136.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1420.6 gal
1/15/2018	136.6	137.1	Maintenance & Testing	RR	0.5	0	75%	5.2 gal	1425.8 gal
1/22/2018	137.1	137.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1431.0 gal
1/29/2018	137.6	138.1	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1436.2 gal
2/5/2018	138.1	138.6	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1441.4 gal
2/12/2018	138.6	139.1	Maintenance & Testing	DB	0.5	0	100%	5.2 gal	1446.6 gal
2/19/2018	139.1	139.6	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1451.8 gal
2/26/2018	139.6	140.1	Maintenance & Testing	JM	0.5	0	100%	5.2 gal	1457.0 gal
3/5/2018	140.1	140.6	Maintenance & Testing	GP	0.5	0	100%	5.2 gal	1462.2 gal
3/12/2018	140.6	141.1	Maintenance & Testing	RR	0.5	0	100%	5.2 gal	1467.4 gal
3/19/2018	141.1	141.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1472.6 gal
3/26/2018	141.6	142.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1477.8 gal
4/3/2018	142.1	142.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1483.0 gal
4/9/2018	142.6	143.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1488.2 gal
4/16/2018	143.1	143.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1493.4 gal
4/23/2018	143.6	144.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1498.6 gal
4/30/2018	144.1	144.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1503.8 gal
5/7/2018	144.6	145.1	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1509.0 gal
5/14/2018	145.1	145.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1514.2 gal
5/21/2018	145.6	146.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1519.4 gal
5/29/2018	146.1	146.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1524.6 gal
6/5/2018	146.6	147.1	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1529.8 gal
6/11/2018	147.1	147.6	Maintenance & Testing	FP	0.5	0	80%	5.2 gal	1535.0 gal
6/18/2018	147.6	148.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1540.2 gal
6/25/2018	148.1	148.6	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1545.4 gal
7/2/2018	148.6	149.1	Maintenance & Testing	GP	0.5	0	80%	5.2 gal	1550.6 gal
7/9/2018	149.1	149.6	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1555.8 gal
7/16/2018	149.6	150.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1561.0 gal
7/23/2018	150.1	150.6	Maintenance & Testing	DB	0.5	0	80%	5.2 gal	1566.2 gal
7/30/2018	150.6	151.1	Maintenance & Testing	RR	0.5	0	80%	5.2 gal	1571.4 gal

S-6 Diesel Fire Pump Driver Operating Log

Location: Diesel Fire Pump Room, Manposa Energy Center

****S-6 Fire Pump Engine replaced S-5 on September 28, 2012 (BAAQMD Application Number 24687).**

S-6 Diesel Fire Pump Driver Operating Log

Engine Model: JU6H-UFADM8 (Clark Fire Pump Engine Model Designation)
 6068HFC28A,B,C,D (John Deere Engine Model Designation)
 Size: 175 BHP 2011 Model Year
 Facility: Mariposa Energy Center, BAAQMD Plant 19730 (B9730)
 Source No: 6
 EPA Engine Family: BJDXL06.8120
 Fuel Type: CARB Diesel
 Denotes Entry Cell

Location: Diesel Fire Pump Room, Mariposa Energy Center

Summary			
Months	Stop Timer Reading	Start Timer Reading	Total Actual Maintenance and Testing Hours
January	164.6	138.1	26.5
February	166.6	140.1	26.5
March	168.6	142.1	26.5

Attachment 18

**Condition AQ-41
S-6 Emergency Fire Pump
Totalizing Meter Report
(BAAQMD Condition 22850, Part 3)**

Attachment 18
S-6 Emergency Fire Pump Totalizing Meter Report

To demonstrate compliance with CEC Condition AQ-41 (BAAQMD Condition 22850, Part 3), the following photographs are provided as evidence of compliance.



S-6 Emergency Fire Pump



S-6 Control Unit



S-6 Controller, Showing Fire Pump Operating Hours