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MALBURG GENERATING STATION

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28 October 2021

Mr. Anwar Ali Compliance Project Manager California Energy Commission Energy Facilities Siting Division 1516 9th Street, MS 2000 Sacramento, CA 95814-5512

Subject: Malburg Generating Station

2021 Q3 Compliance Report

Dear Mr. Ali:

On behalf of the owner of the Malburg Generating Station, Bicent (California) Malburg LLC, Colorado Energy has compiled the attached Quarterly Compliance Report per the California Energy Commission's Decision 01-AFC-25C – Petition to Amend.

Please contact me at (303) 607-5590 or kmccormack@coloradoenergy.com if you have any questions or need additional information.

Sincerely,

Kyle McCormack Environmental Manager

Attachments:

MGS 2021 Q3 CEC Report



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QUARTERLY COMPLIANCE REPORT (Third Quarter 2021)

MALBURG GENERATING STATION 4963 SOTO STREET, VERNON, CA 90058

SUBMITTED TO:

CALIFORNIA ENERGY COMMISSION

1516 9TH STREET, SACRAMENTO, CA 95814





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SECTION 1 INTRODUCTION

This Quarterly Compliance Report (QCR) has been prepared to meet the California Energy Commission (CEC) requirements for the Malburg Generating Station (MGS). This QCR fulfills various Conditions of Certifications as described in the California Energy Commission's Petition to Amend License, June 20, 2019.

1.1 PROJECT LOCATION AND DESCRIPTION

The Malburg Generating Station is located at 4963 Soto Street on approximately 3.4 acres, in an industrial land use area. MGS is located near the geographic center of metropolitan Los Angeles County. MGS consists of two Alstom GTX-100 frame type natural gas combustion turbine generators (CTGs); two heat recovery steam generators (HRSG); a steam turbine-generator (STG); a cooling tower, a diesel fuel fired emergency firewater pump and support equipment.

The commissioning of MGS was completed in October 2005 and the power plant began Commercial Operation on October 17, 2005.

1.2 ORGANIZATION OF THE QUARTERLY COMPLIANCE REPORT

A summary of each condition of certification and required means of verification are provided in Section 2. Each sub-section also contains a description of the method used by MGS to demonstrate compliance with the verification requirements and references to Appendices, Figures and Tables as appropriate.

SECTION 2 COMPLIANCE DETAILS

The compliance details for various conditions of certification are provided below.

2.1 CONDITION OF CERTIFICATION AQ-C6

As per the Condition of Certification Number AQ-C6, MGS shall determine the Total Dissolved Solids (TDS) levels in the blowdown water by independent laboratory testing prior to initial operation and periodically thereafter.

For verification of the above condition of certification, the CEC requires MGS to submit weekly TDS reports for the blowdown water as part of the quarterly emission report to the Compliance Project Manager (CPM) for approval.

As demonstration of compliance, the weekly TDS results are provided in Table 2-1, and the weekly sample reports during operation are provided in Appendix A.

2.2 CONDITION OF CERTIFICATION AQ-C7

As per the Condition of Certification Number AQ-C7, particulate matter of diameter less than 10 microns (PM₁₀) emissions from the cooling tower shall not exceed 6.2 lb/day.

Compliance with the PM₁₀ daily emission limit shall be demonstrated as follows:

 PM_{10} Ib/day = A*B*C*D

Where:

A = circulating water recirculation rate

B = total dissolved solids concentration in the blowdown water to be updated on a weekly basis

C = design drift rate
D = correction factor

For verification of the above condition of certification, the CEC requires the project owner to calculate the daily PM_{10} emissions from the cooling tower and submit all calculations and results on a quarterly basis in the quarterly emissions reports to the CPM for approval.

As demonstration of compliance, the daily PM₁₀ emissions from the cooling tower are provided in Tables 2-2 through 2-4.

2.3 CONDITION OF CERTIFICATION AQ-C8

As per the Condition of certification Number AQ-C8, the project owner shall refrain from testing the firewater pump during the same hour as either gas fired combustion turbines is in start up or shut down as defined by Condition of Certification AQ-C9.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all testing times and results of the diesel fired emergency firewater pump in the quarterly emissions report.

As demonstration of compliance, the testing times for the diesel fired emergency firewater pump are provided in Table 2-5. MGS refrained from testing the diesel fired

emergency firewater pump on the same hour the combustion turbines were either started or shutdown.

2.4 CONDITION OF CERTIFICATION AQ-C9

As per the Condition of certification Number AQ-C9, MGS shall use the provided definitions to determine compliance with startup, shutdown and any related emission or operational limitations.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval, a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.

As demonstration of compliance, the startup and shutdown details are provided in Table 2-14.

2.5 CONDITION OF CERTIFICATION AQ-C10

The condition of certification number AQ-C10 has been deleted.

2.6 CONDITION OF CERTIFICATION AQ-C11

As per the Condition of Certification Number AQ-C11, MGS shall submit a quarterly emissions report on a quarterly basis to the CPM for approval. The quarterly emissions report shall generally report all ammonia, NO_X , SO_X , CO, PM_{10} and VOC emissions from the MGS as necessary to demonstrate compliance with all emission limits. The fourth quarter emission report shall include an annual summary of all emissions of ammonia, NO_X , SO_X , CO, PM_{10} and VOC as necessary to demonstrate compliance with all annual emission limits.

For verification of the above condition of certification, the CEC requires MGS to submit the quarterly emissions report no less than 30 days after the end of each calendar quarter.

2.7 CONDITION OF CERTIFICATION AQ-2

As per the Condition of Certification Number AQ-2, MGS shall not use diesel oil containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

For verification of the above condition of certification, the CEC requires MGS to submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.

Low sulfur diesel fuel was purchased March 29, 2021.

2.8 CONDITION OF CERTIFICATION AQ-3

As per the Condition of Certification Number AQ-3, MGS shall keep records, in a manner approved by the District, for the following parameter(s) or item(s): Purchase records of fuel oil and sulfur content of the fuel.

For verification of the above condition of certification, the CEC requires MGS to submit fuel purchase records for approval to the CPM on a quarterly basis in the quarterly emissions report.

Low sulfur diesel fuel was purchased March 29, 2021.

2.9 CONDITION OF CERTIFICATION AQ-5

As per the condition of certification number AQ-5, MGS shall limit the emissions from both gas-fired combustion turbine-heat recovery steam generator train exhaust stacks as follows:

Contaminant Emissions Limit

- CO 7,633 lbs in any one month
- PM₁₀ 4,876 lbs in any one month
- PM_{2.5} 4,876 lbs in any one month
- VOC 3,236 lbs in any one month
- SO_x 227 lbs in any one month

For verification of the above condition of certification, the CEC requires the MGS to submit all emission calculations, fuel use and a summary demonstrating compliance of all emission limits stated in this condition for approval to the CPM on a quarterly basis in the quarterly emissions report.

As demonstration of compliance, the monthly emissions of CO, PM_{10} , VOC, and SOx are presented in Tables 2-11 through 2-13. In addition, the fuel usage for the two turbine-duct burner pairs is provided in Table 2-15. MGS calculates the emission limit(s) for CO based on readings from the certified CEMS. In the event the CO CEMS is not operating or the emissions exceed the valid upper range of the analyzer, the emissions are calculated in accordance with the approved CEMS Plan. MGS calculates the emission limit(s) by using the monthly fuel use data and the following emission factors:- PM_{10} , $PM_{2.5}$: 6.014 lb/mmscf, VOC: 1.54 lb/mmscf & SOx: 0.28lb/mmscf.

2.10 CONDITION OF CERTIFICATION AQ-6

As per the condition of certification numbers AQ-6; following commissioning, start-ups shall not exceed 120 minutes during a cold start-up without a trip, and 150 minutes during a cold start-up with a trip. Cold start-ups with or without a trip shall not exceed the following limits: NOx 122.8 lbs, CO 204.8 lbs and VOC 1.75 lbs.

Start-ups shall not exceed 90 minutes during a non-cold start-up without a trip or 120 minutes during a non-cold start-up with a trip. Non-cold start-ups shall not exceed the following limits: NOx 51.3 lbs, CO 59.9 lbs, and VOC 1.55 lbs.

Shut-downs shall not exceed 30 minutes. Shut-downs shall not exceed the following limits: NOx 4.5 lbs, CO 10.8 lbs, and VOC 0.71 lbs.

The number of startups shall not exceed two per day per turbine.

For verification of the above condition of certification, the CEC requires the MGS to submit a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.

As demonstration of compliance, the startup and shutdown details are provided in Table 2-14. Additionally, quarterly excess emission reports from the DAHS are provided in Appendix B.

2.11 CONDITION OF CERTIFICATION AQ-8

The Condition of Certification Number AQ-8 has been deleted.

2.12 CONDITION OF CERTIFICATION AQ-9

As per the Condition of Certification Number AQ-9, the 2.0 ppmv oxides of nitrogen (NO_X) emissions limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis, during the normal operation of the MGS combustion turbine generators.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

NO_X emission for MGS Units 1 and 2 are measured using the CEMS. A review of CEMS NO_X emission data indicated that the maximum corrected NO_X emissions concentration for both MGS combustion turbines during normal operations was 1.9 ppmv, which is less than or equal to the emission concentration limit of 2.0 ppmv. All CEMS data for MGS combustion turbines are stored electronically at MGS. As demonstration of compliance, quarterly excess emission reports from the DAHS are provided in Appendix B.

2.13 CONDITION OF CERTIFICATION AQ-10

As per the Condition of Certification Number AQ-10 the 2.0 ppmv carbon monoxide (CO) emissions limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis, during the normal operation of the MGS combustion turbine generators.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

CO emission for MGS Units 1 and 2 are measured using the CEMS. A review of CEMS CO emission data indicated that maximum CO emission concentration for both MGS combustion turbines was 0.8 ppmv, which is lower than or equal to the emission concentration limit of 2.0 ppmv. All CEMS data for MGS combustion turbines are stored electronically at MGS. As demonstration of compliance, quarterly excess emission reports from the DAHS are provided in Appendix B.

2.14 CONDITION OF CERTIFICATION AQ-11

As per the Condition of Certification Number AQ-11, the 2.0 ppmv VOC emission limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

2.15 CONDITION OF CERTIFICATION AQ-12

As per the Condition of Certification Number AQ-12, the 5 ppm ammonia (NH₃) emission limit(s) are averaged over 1 hour at 15 percent oxygen, dry basis. MGS shall calculate and continuously record the ammonia slip concentration using the following:

 $NH_3 (ppmv) = [a-(b*c/1,000,000)]*(1,000,000*d/b)$ where

a = ammonia injection rate (lbs/hr)/17 (lbs/lb-mole)

b = dry exhaust gas flow rate (lbs/hr)/29 (lbs/lb-mole)

c = change in measured NO_X across the SCR (ppmv dry basis)

d = correction derived by comparing the measured and calculated NH3 slip concentrations during annual compliance testing.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

 NH_3 emissions are calculated via the CEMS on an hourly basis but compliance with 5 ppm limit is demonstrated from source tests. The last NH3 compliance source test, performed in March 2021, indicated compliance with the emission limits for both CT1 and for CT2.

2.16 CONDITION OF CERTIFICATION AQ-13

As per the Condition of Certification Number AQ-13, for the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both emission limits at the same time.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

Rule 475 limits emission of combustion contaminants from electric generating equipment to no more than 5 kilograms (11 pounds) per hour or 23 milligrams per cubic meter (0.01 gr/SCF) calculated at three percent oxygen on a dry basis averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer.

The results of the last compliance source tests performed in August 2019 indicated compliance with the particulate matter emission limits for both CT1 and CT2.

2.17 CONDITION OF CERTIFICATION AQ-14

As per the Condition of Certification Number AQ-14, MGS shall only use diesel fuel containing the following specified compounds:

Sulfur less than or equal to 15 ppm by weight.

For verification of the above condition of certification, the CEC requires MGS to submit fuel purchase records to the CPM on a quarterly basis as part of the quarterly emissions report.

MGS uses CARB Ultra Low Sulfur Diesel for the diesel fire pump (D48). This is an ash less oil. As demonstration of compliance, detailed specifications of CARB Ultra Low Sulfur Diesel are provided in Appendix C.

2.18 CONDITION OF CERTIFICATION AQ-15

As per the condition of certification number AQ-15, MGS will limit the operating time to no more than 200 hours each in any one year.

Operations for maintenance and testing as defined in Rule 1470 shall not exceed 50 hours in any one calendar year. The total annual operating time includes all operations including maintenance and testing.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all testing times and results of the diesel fired emergency firewater pump in the quarterly emissions report.

As demonstration of compliance, the testing times for the diesel fired emergency firewater pump are provided in Table 2-5.

2.19 CONDITION OF CERTIFICATION NUMBER AQ-27

As per the Condition of Certification Number AQ-27, MGS shall limit the fuel usage of each turbine-duct burner pair to no more than 405 MM cubic feet per month.

For verification of the above condition of certification, the CEC requires MGS to submit to the CPM for approval all emissions and emission calculations on a quarterly basis as part of the quarterly emissions report.

As demonstration of compliance, the fuel usage for the two turbine-duct burner pairs is provided in Table 2-15.

Table 2-1

Malburg Generating Station Cooling Tower TDS Sampling Results Quarter 3, 2021

Starting	Ending	TDS (ppm)
7/4/2021	7/10/2021	4620
7/11/2021	7/17/2021	5100
7/18/2021	7/24/2021	4500
7/25/2021	7/31/2021	4940
8/1/2021	8/7/2021	4680
8/8/2021	8/14/2021	4460
8/15/2021	8/21/2021	5050
8/22/2021	8/28/2021	4700
8/29/2021	9/4/2021	4540
9/5/2021	9/11/2021	4600
9/12/2021	9/18/2021	4720
9/19/2021	9/25/2021	4510
9/26/2021	10/2/2021	4540

Table 2-2

Malburg Generating Station Cooling Tower Daily PM10 Emissions During Jul. 2021

 $PM_{10} = A \times B \times C \times D$ PM_{10} Limit is 6.2 lbs/day A = Circulation Rate

B = TDS

C = Drift Factor

D = Correction Factor

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)	
1	38,811,456	4800	1.55	
2	38,811,456	4800	1.55	
3	38,811,456	4800	1.55	
4	38,811,456	4620	1.49	
5	38,811,456	4620	1.49	
6	38,811,456	4620	1.49	
7	38,811,456	4620	1.49	
8	38,811,456	4620	1.49	
9	38,811,456	4620	1.49	
10	38,811,456	4620	1.49	
11	38,811,456	5100	1.65	
12	38,811,456	5100	1.65	
13	38,811,456 5100		1.65	
14	38,811,456	5100	1.65	
15	38,811,456 5100 1 .		1.65	
16	38,811,456	5100	1.65	

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)
17	38,811,456	5100	1.65
18	38,811,456	4500	1.46
19	38,811,456	4500	1.46
20	38,811,456	4500	1.46
21	38,811,456	4500	1.46
22	38,811,456	4500	1.46
23	38,811,456 4500	1.46	
24	38,811,456	4500	1.46
25	38,811,456 4940		1.60
26	38,811,456	4940	1.60
27	38,811,456	4940	1.60
28			1.60
29	38,811,456	4940	1.60
30	38,811,456	4940	1.60
31	38,811,456	4940	1.60
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Table 2-3

Malburg Generating Station Cooling Tower Daily PM10 Emissions During Aug. 2021

 $PM_{10} = A \times B \times C \times D$ A = Circulation Rate

B = TDS PM₁₀ Limit is 6.2 lbs/day C = Drift Factor **D** = Correction Factor

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)
1	38,811,456	4680	1.51
2	38,811,456	4680	1.51
3	38,811,456	4680	1.51
4	38,811,456	4680	1.51
5	38,811,456	4680	1.51
6	38,811,456	4680	1.51
7	38,811,456	4680	1.51
8	38,811,456	4460	1.44
9	38,811,456	4460	1.44
10	38,811,456	4460	1.44
11	38,811,456	4460	1.44
12	38,811,456	4460	1.44
13	38,811,456	4460	1.44
14	38,811,456	4460	1.44
15	38,811,456		
16	38,811,456	5050	1.63

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)
17	38,811,456	5050	1.63
18	38,811,456	5050	1.63
19	38,811,456	5050	1.63
20	38,811,456	5050	1.63
21	38,811,456	5050	1.63
22	38,811,456	4700	1.52
23	38,811,456	4700	1.52
24	38,811,456	4700	1.52
25	38,811,456	4700	1.52
26	38,811,456	4700	1.52
27	38,811,456	4700	1.52
28	38,811,456	4700	1.52
29	38,811,456	4540	1.47
30	38,811,456	4540	1.47
31	38,811,456	4540	1.47

Table 2-4

Malburg Generating Station Cooling Tower Daily PM10 Emissions During Sep. 2021

 $PM_{10} = A \times B \times C \times D$ A

A = Circulation Rate

B = TDS

PM₁₀ Limit is 6.2 lbs/day

C = Drift Factor

D = Correction Factor

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)
1	38,811,456	4540	1.47
2	38,811,456	4540	1.47
3	38,811,456	4540	1.47
4	38,811,456	4540	1.47
5	38,811,456	4600	1.49
6	38,811,456	4600	1.49
7	38,811,456	4600	1.49
8	38,811,456	4600	1.49
9	38,811,456	4600	1.49
10	38,811,456	4600	1.49
11	38,811,456	4600	1.49
12	38,811,456	4720	1.53
13	38,811,456	4720	1.53
14	38,811,456	4720	1.53
15	38,811,456	4720	1.53
16	38,811,456	4720	1.53

Date	Circulation Rate (gal/day)	TDS (ppm)	PM ₁₀ (lbs/day)
17	38,811,456	4720	1.53
18	38,811,456	4720	1.53
19	38,811,456	4510	1.46
20	38,811,456	4510	1.46
21	38,811,456	4510	1.46
22	38,811,456	4510	1.46
23	38,811,456	4510	1.46
24	38,811,456	4510	1.46
25	38,811,456	4510	1.46
26	38,811,456	4540	1.47
27	38,811,456	4540	1.47
28	38,811,456	4540	1.47
29	38,811,456	4540	1.47
30	38,811,456	4540	1.47

Table 2-5

Heorot Power Management Malburg Generating Station Diesel Fuel Fired Emergency Firewater Pump Testing Times During Quarter 3, 2021

Date	Time	Main / Test Emerg.	Hours of Operation	Fuel Used (gals)
Jul. 04, 2021	23:49	Testing	0.5	4.5
Jul. 11, 2021	22:54	Testing	0.5	5.6
Jul. 18, 2021	22:52	Testing	0.6	5.6
Jul. 25, 2021	22:59	Testing	0.5	6.7
Aug. 01, 2021	23:22	Testing	0.5	5.6
Aug. 08, 2021	23:20	Testing	0.5	5.6
Aug. 15, 2021	20:32	Testing	0.5	5.6
Aug. 23, 2021	01:47	Testing	0.5	5.6
Aug. 29, 2021	23:16	Testing	0.5	5.6
Sep. 05, 2021	23:28	Testing	0.5	5.6
Sep. 12, 2021	23:41	Testing	0.5	5.6
Sep. 19, 2021	22:52	Testing	0.5	5.6
Sep. 26, 2021	22:46	Testing	0.5	5.6

Note: Event 'DNR' - Did Not Run

Table 2-11

Malburg Generating Station Total Monthly Emissions Jul-2021

Contaminant	Gas Turbines (2)
CO lbs	1,030
PM10 lbs	2,936
PM2.5 lbs	2,936
VOC lbs	752
SOx lbs	137

Table 2-12

Malburg Generating Station Total Monthly Emissions Aug-2021

Contaminant	Gas Turbines (2)
CO lbs	1,025
PM10 lbs	2,789
PM2.5 lbs	2,789
VOC lbs	714
SOx lbs	131

Table 2-13

Malburg Generating Station Total Monthly Emissions Sep-2021

Contaminant	Gas Turbines (2)
CO lbs	971
PM10 lbs	2,555
PM2.5 lbs	2,555
VOC lbs	655
SOx lbs	120

Table 2-14

Malburg Generating Station Combustion Turbines Startup and Shutdown Events During Quarter 3, 2021

CT1

Date	Event Type	Event Start	Event End	Duration (hrs:min)
09/18/2021	Shutdown	01:00	01:13	0:13
09/20/2021	Cold Start	15:48	17:12	1:24

CT2

		<u> </u>		
Date	Event Type	Event Start	Event End	Duration (hrs:min)
8/27/2021	Shutdown	21:58	22:05	0:07
8/28/2021	Warm Start	18:35	19:51	1:16
9/2/2021	Shutdown/Trip	10:09	10:22	0:13
9/2/2021	Warm Start	10:22	11:24	1:02

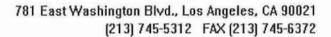
Table 2-15

Malburg Generating Station Combustion Turbines and Duct Burner Gas Usage During Quarter 3,2021

Month	CT-1 / DB-1 Gas Usage (mmscf)	CT-2 / DB-2 Gas Usage (mmscf)
Jul-21	242.93	245.38
Aug-21	235.16	228.65
Sep-21	199.12	225.69

Appendix A

Cooling Tower Blowdown Reports





July 13, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2107036

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on July 07, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management

4963 Soto St. Vernon, CA 90058 File #:74548

Report Date: 07/13/21 Submitted: 07/07/21

PLS Report No.: 2107036

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	R	esults	Flag	D.F.	Units	PQL	P	ep/Test Metho	od	Prepared	Analyze	ed By	/ Batch
Total Dissol	ved Solids	4620		1	mg/l.	5.0	-	SM 25	40C	07/08/21	07/09/2	2 1 do	BG1090
				Q	uality (Contre	ol Dat	:a					
							Spike	Source		%REC		RPD	
Analyte		Rest	/lt	PQL		Inits	Leve	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BG1090	5												
Blank			ared: 07/1	08/21	Analyzed:	07/09/	21						
							~~						
Total Dissolve	d Sollds	ND	-	5.0	•	ıg/L	~~						•
	d Solids		-		n	ng/L			_				•
			ared: 07/1		n Analyzed:	ng/L			- 106	80-120	<u> </u>		,
LCS Total Dissolve		Prep 53.0	ared: 07/1	08/21 5.0	n Analyzed: n	1g/L 07/09/ 1g/L	21 50.00	······································	106_	80-120			·
LCS Total Dissolve	d Solids Source: 2107036-01	Prep 53.0	ared: 07/() ared: 07/(08/21 5.0	n Analyzed: n Analyzed:	1g/L 07/09/ 1g/L	21 50.00	4620	106_	80-120	0.253	5	
Total Dissolve Duplicate	d Solids Source: 2107036-01	Prep 53.0 Prep 4630	ared: 07/() ared: 07/(5.0 5.0 08/21 5.0	Analyzed: Analyzed: Analyzed:	ng/L 07/09/ ng/L 07/09/ ng/L	21 50.00 21	4620	106_	80-120	0.253	5	·

Notes and Definitions

NΑ Not Applicable

ΝD Analyte NOT DETECTED at or above the detection limit

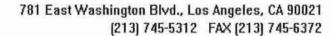
NR Not Reported

MOL Method Detection Limit

PQL Practical Quantitation Limit Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

A POSITIVE LAB SERVICE	CHAIN OF 781 East Washington B v. (213) 745-5312 FAX (21		OD' ngeles 372	Y AN . CA 9	ID A 0021	NAL	YSI	S RI	E QU	EST	DAT	E: <u>) </u>]-21_ ENO		 LA	PAG	E 1 OF 1
CLIENT NAME: COM	Project Na	.me/No. (AIRBILL NO:
ADDRESS:						<u></u>	-'} -				REQU					<u> </u>	COOLER TEMP: 13°c
PROJECT MANAGER: 700 Calobai	PHONE NO:			FAX	NO:												PRESERVATIVE:
PROJECT MANAGER: JON BOIN NOT SAMPLER NAME: JOHN BORG	(Printed)	(Signatur	re)														REMARKS:
TAT (Analytical Turn Around Time): 0 = Sa		3 = 3 Da	ys; N =	= Norm	nal (5-7	7 Work	ing Da	ıys)									
CONTAINER TYPES: B = Brass, E = Enc	ore, G = Glass, P = Plastic, V =	VOA Vial	í, 0 = 1	Other:													
UST Project: Y N - Global ID#																	
SAMPLE DATE TIME NO. SAMPLED SAMPLED	SAMPLE DESCRIPTION	WATER	MAT	RIX SLUDGE	OTHER	TAT	CONT.	AINER TYPE	ž	-							SAMPLE CONDITION/ CONTAINER /COMMENTS:
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Relinquished By: (Signature and Printed Nema) SPECIAL INSTRUCTIONS:	Received By: (Signatur	and Printed	i Name)				<u></u> .,,	Date:		Time:		3. s	Storage	e time re	queste	ed:	day





July 19, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2107089

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on July 12, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management

4963 Soto St. Vernon, CA 90058 File #:74548

Report Date: 07/19/21 Submitted: 07/12/21

PLS Report No.: 2107089

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	5100		1	mg/L	5.0	•	SM 2540C	07/15/21	07/16/21	đđ	BG11930
			Qı	uality (Contro	ol Data					
		and, is good and the for a complete the factor and a for the factor and a son the factor and a son and the factor and a				Spike	Source	%REC	RPD		
Analyte	Resi	JK .	PQL	Ų	nils	Level	Result %REC	Limits	RPD Limit	Qı	Jalitier.
Batch 8G11930	Africa Medical Company Agricultura di Africa										
Blank		ared: 07/1						<u> </u>	·		
Total Dissolved Solids	ND	٠	5.0	ıτ	ıg/L						
LCS	Prep	ared: 07/1	5/21	Analyzed:	07/16/	21					
	50.0	כ	5.0	m	ig/L	50.00	100	80-120			
Total Dissolved Solids											
Total Dissolved Solids Duplicate Source: 2107089-	01 Prep	ared: 07/1	5/21 /	Anaiyzed:	07/16/2	Z1					

Notes and Definitions

NA

Not Applicable

ND

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL,

Method Detection Limit

PQL

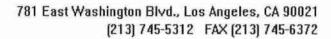
Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

116571

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	ADDRESS:		<u>\</u>				1 40-1	00 <u>0</u>	<u> </u>	i Kidi	(20.1) ×	<u>- 29 E</u>		LYSES	REQU	JESTE	D:				COOLER TEMP: <u>0-9</u>	_ ای
	PROJECT	MANAGER:	TON B	enhait	PHONE NO:			FAX	NO:												PRESERVATIVE:	
				(Printed)	<i>D</i>	(Signat	шге)														REMARKS:	
				0 = Same Day; 1 = 1		; 3 = 3 D	ays; N	= Norn	nal (5-1	7 Work	king D	ays)										
	CONTAINE	ER TYPES: £	B = Brass, E	= Encore, G = Glas	s, P = Plastic, V =	= VOA Via	al, 0 =	Other:														
	UST Proje	ect: Y i	√ - Globa	.l ID#			<u>~~</u>						5 _									
	SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	SAMPLE D	ESCRIPTION	WATER		RIX SLUDGE	OTHER	TAT	CON	TAINER	201								SAMPLE CONDITION/ CONTAINER /COMMEN	TS:
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	Relinquished E	By: (Signature and	Printed Name)		Received By: (Signatu :	re and Plint	ed Name)					Date:		Time:					-		'	days
	SPECIAL I	NSTRUCTIO	NS:		:											Ву					Date	





July 26, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2107157

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on July 20, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 (213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

Page 2 of 2

File #:74548

Report Date: 07/26/21 Submitted: 07/20/21

PLS Report No.: 2107157

Colorado Energy Management 4963 Soto St.

Vernon, CA 90058 Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	F	Results	Flag	D.F.	Units	PQI.	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved So	olids	4500		1	mg/L	5.0	-	SM 2540C	07/20/21	07/21/21	₫₫	8G1222
				Qı	uality (Contro	l Data					
						500000000 700141.61	Spike	Source	%REC	RPD		
Analyte		Resu	J t	PQL		Inits	Level	Result %REC	Limits	RPD Limit	Q	ualifier
Batch BG12222												i kiya
Blank		Prep	ared: 07/	20/21	Analyzed:	07/21/2	1		<u> </u>			
Dialix						ng/L						
Total Dissolved Solid	5	ND		5.0	- 11	right r						
	5		ared: 07/				 ! 1	· · · <u>-</u>				•
Total Dissolved Solid					Analyzed:		50.00	100	80-120			•
Total Dissolved Solid LCS Total Dissolved Solid		Prep 50.0		20/21 5.0	Analyzed:	: 07/21/ 2 ng/L	50.00	100_	80-120		······································	

Notes and Definitions

NA

Not Applicable

ND

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL

Method Detection Limit

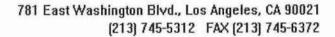
PQL

Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

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	ADDRESS:					,	0.7)	1,50	ANA	LYSES	REQU	ESTE	D:				COOLER TEMP: 1.500
	PROJECT	MANAGER: ~	Ton Bam	hait	PHONE NO:			FAX	NO:												PRESERVATIVE:
	SAMPLER	NAME: J	hn Arite	(Printed)		(Signatu	ire)														REMARKS:
			, _) = Same Day; 1 = 1	Day; 2 = 2 Days	; 3 = 3 Da	ays; N	= Norn	nal (5-7	7 Work	ing Da	ays)									
	CONTAINE	R TYPES: E	B = Brass, E	= Encore, G = Glass,	P = Plastic, V	= VOA Via	l, 0 =	Other:													
	UST Proje	ct: Y I	N - Globa	I ID#					-	_	- 1/2	_									
	SAMPLE NO.	DATE	TIME	SAMPLE DES	SCRIPTION	WATER		SLUDGE	OTHER	TAT	CONT #	TYPE	汉								SAMPLE CONDITION/ CONTAINER /COMMENTS:
1		71021	857	CovingTown	Spudies	6				N	(P	حک								
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	Relinquished E	By: (Signature and	Printed Name)		Received By: (Signal	us and Frinte	d Name)					Date:		Time:				je time			days
	SPECIAL I	NSTRUCTIO	NS:													Ву					Date





July 30, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2107215

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on July 26, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

File #:74548

Report Date: 07/30/21 Submitted: 07/26/21

Authorized Signature(s)

PLS Report No.: 2107215

4963 Soto St. Vernon, CA 90058

Colorado Energy Management

Attn: Tom Barnhart

Phone: (323) 476-3626

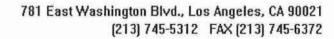
Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	R	esults	Flag	D,F.	Units	PQL	Pre	p/Test Method	Prepared	Analyzed	Ву	8atch
Total Diss	olved Solids	4940		1	mg/L	5.0	-	SM 2540C	07/27/21	07/28/21	dd	BG12820
				Q	uality	Contro	ol Data	1				
							Spike	Source	%REC	RPD		
Analyte		Result		PQL		Units	Level	Result %REC	Limits	RPD Limit	Ç	ualitier
Batch BG128	920										7. (T)	
Blank	·····	Prepar	red: 07/	27/21	Analyzed	d: 07/28/	21					
Total Dissolv	ved Solids	ND		5.0		mg/L						
LCS		Prepa	red: 07 /	27/21	Anaiyzed	d: 07/28/	21					
Total Dissol	ved Solids	53.0		5.0		mg/L	50.00	106	80-120			
Duplicate	Source: 2107215-01	Prepai	red: 07 /	27/21	Analyzeo	d: 07/28/ :	21					
Total Dissolved Solids		4850				mg/L		4940		1.77 5		
na Nd Nr Mdl	Not Applicable Analyte NOT DETECTED at Not Reported	or above the	e detectic		es and	l Defini	<u>itions</u>		July 1	New E	3_	
	Method Detection Limit									.,	_	
PQL	Practical Quantitation Limit								A 11	. 10: .		,

				VICE 781 Eas (213) 74	CHAIN OF		20180			NAL	.YSI				DA	re: <u></u>	262	/		PA	GEOF
	CLIENT NA			VICE (213) 74			_												1	LAB NO	AIRBILL NO:
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	ADDRESS:												ANA	LYSES	REQU	ESTE	D:		-		COOLER TEMP: 2-800
	PROJECT	MANAGER: 1	Tom Ba	Inhart	PHONE NO:			FAX	NO:												PRESERVATIVE:
	SAMPLER	NAME: J	64n Ba	The (Printed)		(Signatu	ıre)														REMARKS:
	TAT (Analy	tical Turn Ar	ound Time):	0 = Same Day; 1 = 1	Day; 2 = 2 Days;	3 = 3 Da	ays; N	= Norn	nal (5-7	7 Work	ing Da	ays)									
	CONTAINE	R TYPES: E	B = Brass, E	= Encore, G = Glass,	P = Plastic, V =	= VOA Via	ıl, 0 =	Other:													
	UST Proje	ct: Y I	V - Globa	al ID#				_													
	SAMPLE NO.	DATE SAMPLED	TIME	SAMPLE DE	SCRIPTION	WATER		SLUDGE	OTHER	TAT	CONT #	TYPE	Ř	1							SAMPLE CONDITION/ CONTAINER /COMMENTS:
1				Com Town by	and ma	5				N)	p	y	П							
2		11-114	00/1	12 10 3/6	ner n																
3																					00
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		NSTRUCTIO	A COLUMN TO THE PARTY OF THE PA												_		Storag	ge time	reques	sted: _	days





August 09, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2108022

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on August 03, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

File #:74548

Report Date: 08/09/21 Submitted: 08/03/21

PLS Report No.: 2108022

Colorado Energy Management 4963 Soto St. Vernon, CA 90058

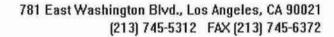
Attn: Tom Barnhart

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malhuro Generating Station Weekly

Analyte	Cooling Tower Blowdov	esults	Flag	D.F.	Units	PQL		1 1111111111111111111111111111111111111	Prepared	Analyzed	Ву	Batch
	v.··	•	гау				Pie	p/Test Method				
i bear bisse	olved Solids	4680		1	mg/L • ⊶ظاحت	5.0	- al Data	SM 2540C	08/05/21	08/05/21	dd	BH1061
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			Barani.			, yan in da Walani	Splke	Source	%REC	RPD		
Analyte		Resul	t	PQL		Units	Level	Result %REC	Limits	RPD Limit	Ç	ualifier
Batch BH106				a lange		a 4 0505 all					instruction	
ra, ki jarka dalambahki				mulikiy		2004/1916					<u> </u>	
Blank		•	red: 08/0		-	1: 08/06/	21					
Total Dissolv	ed Solids	МD		5.0		mg/L						
.cs		Prepa	red: 08/(D5/21	Analyzeo	1: 08/06/	21					
Total Dissolv	ed Solids	46.0		5.0		mg/L	50.00	92.0	80-120			
Duplicate	Source: 2108022-01	Prepa	red: 08/0	05/21	Analyzed	1: 08/06/	21					
Total Dissolv	ed Solids	4780		5.0		mg/L		4680		2.11 5		
				Not	es and	l Defin	itions					
NA	Not Applicable			1100		Commi	iciono		1		-	
ND	Analyte NOT DETECTED at	or above th	e detection	n Ilmit					- Alub	Munic La)	
NR	Not Reported							*****				
MOL	Method Detection Limit											
PQL	Practical Quantitation Limit											
_	ental Laboratory Accreditation F	rooram Cod	NEcato No	1171	Mobile to	ah Mai 252	I TACCO A	a 10139	Autho	rized Signati	ure(s)

		PC	SIT S SER	VICE 781 Eas (213) 74	CHAIN OF t Washington Bi 15-5312 FAX (2							0.000				TE: 8				PA	AGEOF/ 10. U08000
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	ADDRESS:									0		110	ANA	LYSES	REQU	IESTE	D:				COOLER TEMP: 1.5°C
	PROJECT	MANAGER:	TON BAY	nhatt	PHONE NO:			FAX	NO:												PRESERVATIVE:
	THEY AND CAREFULL			(Printed) F		(Signatu	ле)														REMARKS:
	TAT (Analy	tical Turn Ar	ound Time):	0 = Same Day; 1 = 1	Day; 2 = 2 Days	s; 3 = 3 Da	ays; N	= Norm	nal (5-7	7 Work	ing Da	ays)									
	CONTAINE	R TYPES: E	B = Brass, E	= Encore, G = Glass,	P = Plastic, V :	= VOA Via	ıl, 0 =	Other:													
	UST Proje	ct: Y I	V - Globa	al ID#						_			\ <u>_</u>								
	SAMPLE NO.	DATE SAMPLED	TIME	SAMPLE DE	SCRIPTION	WATER		SLUDGE	OTHER	TAT	CONT.	TYPE	芝								SAMPLE CONDITION/ CONTAINER /COMMENTS:
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2																					
3																					
4																					
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7																					
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		y: (Signature and			Received By: (Signat	ure and Printe	d Name)					Date:		Time:			Storag	ge time			days days





August 16, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2108100

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on August 09, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management 4963 Soto St.

Vernon, CA 90058

File #:74548

Report Date: 08/16/21 Submitted: 08/09/21

PLS Report No.: 2108100

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blov	D H .	F1	- B-E		no.	*			4 . 4 . 1	Gay 13	m.c.i.
Analyte	Results	Flag	D.F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4460		1	mg/L	5.0	-	SM 2540C	08/12/21	08/13/21	dd	BH11309
			Q	uality (Contro	ol Data					
Analyte	gag ng ngangan labah nakat labah Sanaugan mugan labah salabah Sanaugan labah salabah salabah Sanaugan Janaugan salabah salab					Spike	Source	%REC	RPC		
Analyte	on a Dac	I THE	PΩI		nite	Level	Recult %RF	C Limits	PPD lim	i+ C	ualifier
The state of the s	order mitter in a si INCO	use the market		edelin e waxe	(HIDE)	LCTC	: IXEGUIC:	a war nan Greek a kara	. 3XI: Dan	15	GCAID ICE
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Batch BH11309		pared: 08	r vjermus (US) jular jular in Silveu (Vjerm ser egrussom kaj usase julijat in Viellen julik	Analyzed:		A PROCESSOR OF THE STATE OF THE	The second secon	make mengana			
Batch BH11309 Blank	Pre _l NI	pared: 08 ,	/ 12/21 5.0	Analyzed:	08/13/ : ng/L	21		make mengana			
Batch BH11309 Blank Total Olssolved Solids	Pre _l NI	pared: 08,) pared: 08	/ 12/21 5.0	Analyzed: m Analyzed:	08/13/ : ng/L	21	98.0				
Blank Total Olssolved Solids LCS	Prej Ni Prej 49.	pared: 08) pared: 08 0	/12/21 5.0 /12/21 5.0	Analyzed: m Analyzed:	08/13/ ng/L 08/13/ ng/L	21 21 50.00					

Notes and Definitions

NA

Not Applicable

Analyte NOT DETECTED at or above the detection limit ND

NR Not Reported

MDL Method Detection Limit PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)



CHAIN OF CUSTODY AND AN

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		U3	TIVE 781 East Was	hington B	ivd., Lo	is Angeles FAX (213	; CA 900	21						DAT	E: 3	921	₽.	age: of <u>/</u> no.: <u>U08</u> 00
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CLIENT	NAME:	COLOR	ADO ENERGY MGMT.	PROJE	CT N	AME/NO). <u>"</u>	STO		THE	Station 1	Meek	ly P.C	.NO.				AIRBILL NO:
ADDRE	<u>S</u> S:	2715 E. 5	0th ST. VERNON CA 90058	·, ··· ·,								AN	ALYSE	S REQ	UEST	ED		COOLER TEMP:
PROJEC	T MANA	GER	TOM BARNHART	PHONE	NO:	1-702-413	3-2525	FAX I	NO:									PRESERVED: 1-100
SAMPL	ER NAMI	<u>:</u>		SIGNA	TURE	:												REMARKS:
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC.) N=Nor	mal											
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic;	G=G	lass; V=	VOA V	'ial; (O=Oth	er								
	OJECT:		GLOBAL ID#:				-				<u> </u>						:	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER	0.							SAMPLE CONDITIONS/
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				tij blij	ttitl	YY XU	uu	<u></u>				_	[/3	-		1		turned to client? Yes No
Kelinquis	sned by (S	gnature&	Name):	/ Receive	а ву (S <i>(</i>	ignature	& Name	e):			Date:		Tin	10:		1	•	il not be stored over 30 days,
<u>.</u>							0 37			w		_	æ,					nal storage time is requested
Relingui:	shed by (S	ignature&	Name):	Receive	a by (S	Signature	& Name	e):			Date:		Tin	ic:		Stora	age tim	ne requested:days,

elinquished by (Signature& Name):	Received by (Signature & Name): Guadalupe	Date: Tanaka)	Time: [/3c	SAMPLE DISPOSITION 1. Samples returned to client? Yes No
elinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Tîme:	Samples will not be stored over 30 days, unless additional storage time is requested.
elinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:	3. Storage time requested:days, By:Datc
PECIAL INSTRUCTION:				





August 23, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2108195

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on August 17, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager/



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management

File #:74548 Report Date: 08/23/21

Submitted: 08/17/21 PLS Report No.: 2108195

4963 Soto St. Vernon, CA 90058

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Caoling Tower Blowdow Re	sults Fla	·	Units	PQL		/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissoi		050	1	mg/L	5.0		SM 2540C	08/19/21	08/20/21	dd	BH1201
			Q	uality (ol Data	•	,	,		
al a secondinal and language care the second as a second care the water of the analysis		Na estretado Rocar				Spike	Source	%REC	RPE		
Analyte		Result	PQL	U	nits	Level	ng it ngglan gilling al ging ager	ragional deservation	RPD Limi	t Q	ıalifler
Batch BH1201	1 (1 1 1 1 1 1 1 1 1 1-					udjat i kalturara 16 laju - Utaruman 17 lajungan jawa dan 17 lajungan jawa dan					aghg Lij.
Blank	····		08/19/21						·		······································
Total Dissolve	d Solids	ND	5.0	m	ig/L						
LCS		Prepared:	08/19/21	Analyzed:	08/20/2	21					
Total Dissolve	d Solids	49.0	5.0	m	g/L	50.00	98.0	80-120			
Duplicate	Saurce: 2108195-01	Prepared:	08/19/21	Analyzed:	08/20/2	21		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	d Solids	5110	5.0	m	ig/L		5050		1.25 5		
Total Dissolve							•				
Total Dissolve Duplicate	Source: 2108205-10	Prepared:	08/19/21	Analyzed:	08/20/2	21					

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

MOL

Method Detection Limit Practical Quantitation Limit PQL

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

Fick Oven Parlie

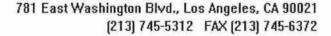


CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 67727	PAGE:	OF/
: NO :		15

FILE NO -

													1	<u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	Y::			עניינו	NO. * V[.]
CLIENT	NAME:	COLORA	ADO ENERGY MGMT.	PROJE	CT N	AME/NO).	MALB	URG GI	NERAT	ING S	TATIO	P.	O.NO)				AIRBILI. NO:
ADDRES	SS:	2715 E. 5	0th ST. VERNON CA 90058								•	AŅ	ALYS!	ES R	EQUI	EST	ED ,		COOLER TEMP: 1-5"C
PROJEC	T MANA	GER	TOM BARNHART	PHONE	NO:	1-702-413	3-2525	FAX N	NO:										PRESERVED:
SAMPLI	ER NAME	i: <u>J</u>	~~~>>	SIGNA	TURE	4/	, 												REMARKS:
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	ŒTC.) N=Nor	mal												
CONTAI	NER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic;	G=G	lass; V=	VOA V	ial; ()=Othe	r									
UST PRO	DJECT:	Y N	GLOBAL ID#:																
SAMPLE		TIME	SAMPLE DESCRIPTION			TRIX		TAT	CONT	AINER									SAMPLE CONDITIONS/
ΔI	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								CONTAINER/COMMENTS
	8-1741	JIZ	COOLING TOWER BLOWDOWN	Х				N	1	P	Х								
															-				
Relinguis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):	1		Date:		T	ime:			SAM	PLE	DISPOSITION
	_	JWA BARA				THUI			ipe Ta					بالآبات					turned to citent? Yes No
		ignature&		Receive	,	1900.	-				Date:		Т	ime:					ill not be stored over 30 days,
reemiqui.		ignararow.	T tours f.		~ ~) V)	, S, , , , , , , , , , , , , , , , , ,		-,-											onal storage time is requested
Dalinania	had by (S	ionatura &	Name):	Pacaiva	d by (9	Consture	& Nam	e).			Date		'n	ime.		$\neg \mid$			
Relinquished by (Signature& Name):				Received by (Signature & Name):							Date: Time:					Storage time requested:days, Days			Date:
								-									Ву:		1/4(6,
SPECIA	L INSTR	UCTION:	1																





August 30, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2108262

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on August 23, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

File #:74548

Report Date: 08/30/21 Submitted: 08/23/21

PLS Report No.: 2108262

4963 Soto St. Vernon, CA 90058

Colorado Energy Management

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4700		1	mg/L	5.0	-	SM 2540C	08/26/21	08/27/21	dd	BH12702
			Qı	uality (Contro	ol Data					
Analyte						Spike	Source	%REC	RPL) 	mariana and san Samu melayah Samu melayah
Apalyte	Dacu		POL		Inits	Level	Result %REC	Dmits	RPD Limi	t O	ualifier
information and the State of the State of the State of the State of State o	ing a series NGOU		Maria (1947)		17		gur izmeran. Hansetzijan		:		
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					· · · · · · · · · · · · · · · · · · ·		gar transfan an an an agair				
Batch BH12702		já mortenyi, s zjáta jált, aj		Analyzed:	· · · · · · · · · · · · · · · · · · ·		gar transfan an an an agair			Conservation	
Batch BH12702 Blank	Prep ND	já mortenyi, s zjáta jált, aj	2 6/21 /	Analyzed: n	08/27/ 1g/L	21	gar transfan an an an agair				
Batch BH12702 Blank Total Dissolved Solids	Prep ND	ared: 08/:	2 6/21 /	Analyzed: n Analyzed:	08/27/ 1g/L	21	gar transfan an an an agair	80-120			
Blank Total Dissolved Solids LCS	Prep. ND Prep. 53.0	ared: 08/:	2 6/21 / 5.0 2 6/21 / 5.0	Analyzed: n Analyzed: m	08/27/ 1g/L 08/27/ 1g/L	21 21 50.00				Constant	

Notes and Definitions

NA

Not Applicable

ND

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL,

Method Detection Limit

PQL

Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

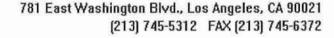
Authorized Signature(s)



CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 8 23-21	PAGE:	_ OF/
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			<u> </u>										FILE	NO.:		LAB	NO.: 10020
CLIENT	NAME:	COLOR4	ADO ENERGY MGMT.	PROJE	CT N	AME/NO),	MALE	urg gi	ENERAT	ING S	TATION	P.O.N	Ю.			AIRBILL NO:
ADDRES	SS:	2715 E. 5	0th ST. VERNON CA 90058								,	ANAI	YSES	REQUE	STED		COOLER TEMP: 1/20
PROJEC	T MANA	GER.	TOM BARNHART	PHONE	NO:	1-702-413	3-2525	FAX :	NO:								PRESERVED:
SAMPLI	ER NAMI	<u>:</u>	JOHN BARIE	SIGNA	TURE							***************************************					REMARKS:
ŢAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal										
CONTA	NER TY	PES: B=B	irass; E=Encore/Easy Draw; P	=Plastic:	, G=G	lass; V=	VOA V	/ial; (O=Othe	er							
UST PRO	DJECT:	YN	GLOBAL ID#:														
Sample	ÐATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER							SAMPLE CONDITIONS/
ID.	SAMPLED	SAMPLED		WATER	sou.	SLUDGE	OTHER		#	TYPE	SCIT						CONTAINER/COMMENTS
	B232/	つわな	COOLING TOWER BLOWDOWN	X				N	1	Р	Х						
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Dalimania	had by (C)		Noma	D. Goiva	d bru (S	l Signature	e Non	۰,،		l	Date:	<u> </u>	Time:		E A I	MDIV	DISPOSITION
Kenneus	/	ignature& 1 ImBaj		7///	y oy (s	Titus	∞ Nam	c). uadal	lupe Ta	nakæ		1	1205				
- \	9					unge	/ 1		<i>C</i> ==	<u> </u>					· 7		eturned to client? Yes No
Relinguis	hed by (St	ignature&)	Name):	Receive	a by (S	Signaturé	&/Nam	e):			Date:		Time				vill not be stored over 30 days,
					-		·			<u></u>					unies	ss additi	onal storage time is requested
Relinquis	hed by (Si	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time		3. St	orage tir	ne requested:days,
															Ву		Date:
SPECIA	L INSTR	UCTION:															





September 03, 2021

Tom Barnhart
Colorado Energy Management
4963 Soto St.
Vernon, CA 90058

Report No.: 2108331

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on August 30, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management

4963 Soto St. Vernon, CA 90058 File #:74548

Report Date: 09/03/21 Submitted: 08/30/21

PLS Report No.: 2108331

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

4540

Project: Malburg Generating Station Weekly

Analyte	Re	esults	Flag	D.F.	Units	PQL	Pre	ep/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Sol	ids 4	540		i	ятg/L	5.0	-	SM 2540C	09/01/21	09/02/21	dd	B110221
				Ç	Quality (Contr	ol Data	a				
					aliko underek Brakasa barari		Spike	Source	%REC	RPD	iting in	
Analyte		Result		PQL	Ů	Inits	Level	The Political Property of the Page of States	Limits	RPD Limit	t Q	ualifler
Satch 8110221								Vietnie za odronie sie da Zudana prasiona postana za odro				
Blank		· · · · · · · · · · · · · · · · · · ·			Analyzed:						·····	······································
Total Dissolved Solids		ND		5.0	ή	19/L						
LC5		Prepa	red: 09/01	/21	Analyzed:	09/02/	21					
Total Oissolved Solids		54.0		5.0	n	ng/L	50.00	108	80-120			
Duplicate So	ource: 2108331-01	Ргера	red: 09/01	/21	Analyzed:	09/02/	21					

Notes and Definitions

mg/L

NA

Not Applicable

ND

Total Dissolved Solids

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL

Method Detection Limit

PQL

Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

4510

Authorized Signature(s)

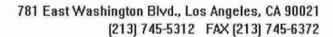
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CHAIN OF CUSTODY AND ANALYSIS REQUEST

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										1.11	LE INO.			AB NO 011 07/
CLIENT NAME: COLORADO ENERGY MGMT.	PRO	JECT :	NAME/N	о.	MALB	URG GI	ENERAT	ING S	TATIO	N WEE	S.No.			AIRBILL NO:
ADDRESS: 2715 E. 50th ST. VERNON CA 90	058								AN	ALYSE	S REQ	UEST	ED	COOLER TEMP: 1000
ROJECT MANAGER TOM BARNHART	PHO	NE NO:	1-702-41	3-2525	FAX	NO:								PRESERVED:
AMPLER NAME: JOHN BARIE	SIG	NATUR	E: 574	}										REMARKS:
AT (Turn-Around-Time): 0=Same Day; 1=24 Hou	ır; 2=48Ho	ur; (ET	C.) N=Noi	mal										
ONTAINER TYPES: B=Brass; E=Encore/Easy Dr	aw; P=Pla	stic; G=	Glass; V	=VOA V	/ial; (O=Oth	er							
ST PROJECT: Y N GLOBAL ID#:														
MPLE DATE TIME SAMPLE DESCRIPT	ION	M	ATRIX	_	TAT	CONT	AINER							SAMPLE CONDITIONS/
ID SAMPLED SAMPLED	WAT	ER SOII	SLUDGE	OTHER		#	TYPE	TDS						CONTAINER/COMMENT
83021 0820 COOLING TOWER BLOWD	own >				N	1	P	X						
							to							
elinquished by (Signature& Name):	Rec	eived by	Signature	& Nam	e):			Date:		Ti	me:		SAMP	LE DISPOSITION
TEMPARE C	Colluda	4.10 1	Julia .	Gu	adalu	pe Tan	aka É	330	2/		786			es returned to client? Yes No
elinquished by (Signature& Name):	Rec	eived by	(Signature	& Nam	e):			Date:			me:			es will not be stored over 30 days,
/ (o.g.martos r.amo).			(5.5		-).									ditional storage time is requested
elinquished by (Signature& Name):	Rec	eived by	(Signature	& Nam	e).			Date:		Ti	me:			e time requested:days,
Annquisited by (Signatured France).	100	or real by	(Signature	Co I valli	٠).			Date.		-11	iii.			Date:
PECIAL INSTRUCTION:					-			_	-	_		_	Ву:	Date:





September 14, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2109084

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 08, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management 4963 Soto St.

Vernon, CA 90058

File #:74548

Report Date: 09/14/21 Submitted: 09/08/21

PLS Report No.: 2109084

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4600		t	mg/L	5.0	•	SM 2540C	09/09/21	09/10/21	dd	B I11319
			Qı	uality (Contro	ol Data					
		<u> Azertiele</u>				Spike	Source	%REC	RPL		
Analyte	Res	ult	PQL		Jnits		Result %RE0		RPD Limi	100000	ualifier
Batch B(11319											
Blank	Pre	pared: 09,	/09/21	Analyzed:	09/10/	21					**************************************
Total Dissolved Solids	N)	5.0	n	ng/L						
	Pre	pared: 09,	/09/21	Anaiyzed:	09/10/	21					
LCS	• • •					50.00	106	80-120			
	53	.0	5.0	П	ng/L	50.00					
LCS	53	.0 pared: 09,									

Notes and Definitions

NA

Not Applicable

ND

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL

Method Detection Limit

PQL

Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

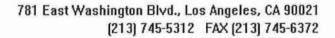
Authorized Signature(s)

Rich Daven



ahd	△P	OS AB SI	TIVE CHA 781 East Was	IN OF hington B (213) 74	F CU IIvd., Lo 5-5312	STOD os Angeles FAX (21:	Y AN s, CA 900 3) 745-63	ND A 121 172	ANAI	LYSI	S RI	EQU	FI	LE NO.	ΓΕ: :		-	PAGE:OF B NO.: [UV] [84]
CLIENT	NAME:	COLORA	ADO ENERGY MGMT.	PROJE	CT N	AME/NO).	MALI	BURG GI	ENERAT	TNG S	TATION	WE.	O.NO.	ļ			AIRBILL NO:
ADDRES	SS:	2715 E. 5	0th ST. VERNON CA 90058									ANA	LYSI	ES REC	QUES	TED		COOLER TEMP! D. 9°C
PROJEC	CT MANA	GER	TOM BARNHART	PHONE	NO:	1-702-41	3-2525	FAX	NO:									PRESERVED:
SAMPL	ER NAMI	Ξ:	JOHN BARIE	SIGNA	TURE	: Fi	3							1				REMARKS:
TAT (Tu	ırn-Arour	d-Time):	0=Same Day; 1=24 Hour; 2=	And the second														
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	/ial;	O=Othe	r				ŀ				
UST PR	OJECT:	Y N	GLOBAL ID#:						**									
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER								SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS							CONTAINER/COMMENTS
	9.821	032	COOLING TOWER BLOWDOWN	X				N	1	P	X							
							Grada	upe	Tanak									
The Court of	shed by (S	ignature&	Name):	1.		Signature				1,7.50	Date:			me: 720				DISPOSITION eturned to client? Yes No
Relinquis	shed by (S	ignature&	Name):			Signature					Date:		Ti	me:				vill not be stored over 30 days, onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		3. Sto	-57.6	me requested:days, Date:

SPECIAL INSTRUCTION:





September 17, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2109134

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 13, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management 4963 Soto St.

File #:74548

Report Date: 09/17/21 Submitted: 09/13/21

PLS Report No.: 2109134

Vernon, CA 90058

Attn: Tom Barnhart

Phone: (323) 476-3626 F

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4720		1	mg/L	5.0	-	SM 2540C	09/16/21	09/17/21	dd	BI11713
			Q	uality (Contro	ıl Data					
						Spike	Source	%REC	RPD		
Analyte	Resul		PQL	Ü				arak lain de binnere	RPD Limit	Qι	alifier
Batch BI11713				torna i usti dati Nemeka ili usti dati Nemeka ili usti seni	21.35.55 21.35.55						
Blank				Analyzed:	************************		· · · · ·				
Total Dissolved Solids	ND		5.0	n	ig/L						
· · · · · · · · · · · · · · · · · · ·				Analyzada	09/17/2	21					
LCS	Prepa	ired: 09/1	.6/21.	mnatyzeu:	,, -						
FINAL	Pre pa 47.0		. 6/21 5.0	-	ig/L	50.00	94.0	80-120			
LCS	47.0		5.0	-	ig/L	50.00	94.0	80-120			

Notes and Definitions

NA Not Applicable

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

MDL Method Detection Limit
PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

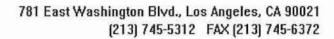
Authorized Signature(s)



CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 9-132	PAGE:	OF
1 1	-	21211

144-035-025	7													NO.:		LA	IB NO.: 400 174
CLIENT	NAME:	COLORA	ADO ENERGY MGMT.	PROJE	CT N	AME/NO	o.	MALB	URG G	ENERAT	ING S	TATION	P.O.	NO.			AIRBILL NO:
ADDRE	SS:	2715 E. 50	0th ST. VERNON CA 90058									ANA	LYSES	REQU	ESTE	D	COOLER TEMP: 1.100
PROJE	CT MANA	GER	TOM BARNHART	PHONE	NO:	1-702-41	3-2525	FAX I	NO:								PRESERVED:
SAMPL	ER NAM	Ε:	JOHN BARIE	SIGNA	TURE	· L	_										REMARKS:
TAT (T	ırn-Aroui	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC) N=Nor	mal										
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw; 1	P=Plastic	; G=G	lass; V=	VOA V	ial; (O=Oth	er							
UST PR	OJECT:	Y N	GLOBAL ID#:														
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS						CONTAINER/COMMENTS
	9-13-21	0845	COOLING TOWER BLOWDOWN	X				N	1	P	X						
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		ignature&				Signature					Date:		Time		s	AMPL	E DISPOSITION
	ر ا	ohnBap		Villa	tetu	Juni	Guada	lupe	Tanaka	a 9	13.2	1	00	145	1.	Samples	returned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	: :		53770000	s will not be stored over 30 days,
Relinqui	shed by (S	ignature&	Name):	Receive	ed by (S	Signature	& Nam	e):			Date:		Time	e:			time requested:days,
											_				В	y:	Date:
SPECIA	L INSTR	UCTION:															





October 01, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2109259

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 24, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 98021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

File #:74548

Colorado Energy Management 4963 Soto St.

Report Date: 10/01/21

Vernon, CA 90058

Submitted: 09/24/21 PLS Report No.: 2109259

Attn: Tom Barnhart

Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep/T	est Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4510		1	mg/L	5.0	-	SM 2540C	09/30/21	10/01/21	dd	BJ10110
			Q	uality (Contro	ol Data					

Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Lim(t C	Qualifier
Batch BJ1011(. Sa Alisar Kanyara Tapag Magairi, basar	al es abilis popolic En regue a la especia						
Blank			9/30/21 Ana							······································	
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared: 0	9/30/21 Ana	ilyzed: 10/01	/21						
Total Dissolve	d Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate	Source: 2109310-01	Prepared: 0	9/30/21 Ana	lyzed: 10/01	/21						
Total Dissolve	d Sollds	4560	5.0	mg/L		4540			0.329	5	

Notes and Definitions

ΝA

Not Applicable

ΝD

Analyte NOT DETECTED at or above the detection limit

NR

Not Reported

MDL

Method Detection Limit

PQL

Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

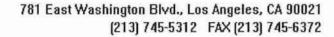
Authorized Signature(s)



CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 92421	PAGE:/_ OF
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3.A.I.													FILE	NO.:			LAB	NO. /
CLIENT	NAME:	COLOR/	ADO ENERGY MGMT.	PROJE	CT N	AME/NO).	MALB	URG GI	ENERAT	TING S	TATION	P.O.	NO.				AIRBILL NO:
ADDRES	SS:	2715 E. 5	60th ST. VERNON CA 90058								Ĺ	ANA	LYSES	REQU	JEST	EÐ		COOLER TEMP: 2,7 2
PROJEC	T MANA	GER	TOM BARNHART	PHONE	NO:	1-702-413	3-2525	FAX N	νo:			'						PRESERVED:
SAMPLE	ER NAMI	<u>:-</u>	JOHN BARIE	SIGNA	TURE	: F5									:			REMARKS:
TAT (Γυ	ra-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=4	48Hour;	(ETC.	.) N=Nor	mal											
CONTAI	NER TY	PES: B=B	rass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	/ial;_()=Othe	∂Г								
UST PRO	DJECT:	Y N	GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION	<u> </u>	<u>МА</u>	TRIX		TAT	CONTA	AINER							!	SAMPLE CONDITIONS/
ΙD	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	igsqcup	#	ТҮРЕ	TDS							CONTAINER/COMMENTS
, <u> </u>	72424	1005	COOLING TOWER BLOWDOWN	Х			ļ'	N	1	P	X					ļ		
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Relinquis	hed by (S	enature&	Name);	1/		Sjgnature				а	Date:		Time	e:		SAM	PLE	DISPOSITION
_ 5	<u>~ J</u>	-2007 Jac	e - 1-12	Mun		ritell	Gua	adalur	e Tan	aka	25	121_	1037	, 	J. 2-9	1, Sam	ples ret	turned to client? Yes No
Relinquis	hed by (S	ignature&	Name):			Signature					Date:		Time	: :		2. Sam	ples wi	Il not be stored over 30 days,
																unless :	additio	nal storage time is requested
Relinquis	hed by (S	ignature& :	Name):	Receive	đ by (§	Signature	& Nam	e):			Date:		Time	2:		3. Stora	age tim	c requested:days,
<u>-</u>			<u>.</u>													By:		Date:
SPECIA	L INSTR	UCTION:																





October 04, 2021

Tom Barnhart Colorado Energy Management 4963 Soto St. Vernon, CA 90058

Report No.: 2109310

Project Name: Malburg Generating Station Weekly

Dear Tom Barnhart,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on September 28, 2021.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager



781 East Washington Blvd., Los Angeles, CA 90021 [213] 745-5312 FAX [213] 745-6372

Certificate of Analysis

Page 2 of 2

Colorado Energy Management

4963 Soto St.

Vernon, CA 90058

File #:74548

Report Date: 10/04/21 Submitted: 09/28/21

PLS Report No.: 2109310

Attn: Tom Barnhart

Phone: (323) 476-3626

FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Analyte	R	esults	Flag ().F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Analyze	d By	Batch
Total Disso	lved Solids	4540		1	mg/L	5.0	-	ŞM	25 4 0C	09/30/21	10/01/2	1 dd	B]10116
				Q	uality (Contro	l Data	1					
							Spike	Source	Andata Legge Clayy Avadada a ge	%REC		RPD	
Analyte		Resul	t,	°QL	(Jnits	Level		ladid Alb Gagy	ari, mary' Eleftific	RPD I	imit	Qualifier
Batch 8J1011	0												
Blank		Prepa	red: 09/30	/21	Analyzed	: 10/01/2	1				<u></u>		
Total Dissolv	ed Solids	ND		5.0		ng/L		_					
LCS		 Prepa	red: 09/30,	/21	Analyzed	: 10/01/2	1	-					
Total Dissolve	ed Solids	52.0		5.0	r	ng/L	50.00	_	104	80-120			
Duplicate	Source: 2109310-01	Prepa	red: 09/30,	/21	Analyzed	: 10/01/2	11						
Total Dissolv	ed Solids	4560		5.0	ľ	ng/L		4540			0.329	5	

NR Not Reported

MDL Method Detection Limit

PQL Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

Rick Owen Parlier



CHAIN OF CUSTODY AND ANALYSIS REQUEST

DATE: 7.28.21	PAGE:	(OF,
	111	MAIN

Zallali'									FILE NO.: LAB NO.: // 1/2 [/										
CLIENT	LIENT NAME: COLORADO ENERGY MGMT. PROJECT NAME/NO. MALBURG GENER								ENERAT	TING S	ING STATION P.O.NO. AIRBILL NO:								
ADDRE	SS:	2715 E. 5	Oth ST. VERNON CA 90058									ANA	LYSES	REQU	JEST	ED		COOLER TEMP: 100 20	
PROJE	CT MANA	GER	TOM BARNHART	PHONE	NO:	1-702-413	3-2525	FAX N	NO:	···								PRESERVED:	
SAMPL	ER NAM	<u>E:</u>	JOHN BARIE	SIGNA	TURE	: 1												REMARKS:	
ΤΑΤ (Τι	ırn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	VOA V	/ial; (<u> D=Oth</u>	er								•	
	OJECT:	Y N	GLOBAL ID#:												:				
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION	 	MA	TRIX	Γ	TAT	CONT.	AINER								SAMPLE CONDITIONS/	
m	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	 	#	TYPE	I'D'S			-		\sqcup		CONTAINER/COMMENTS	
	11821	0730	COOLING TOWER BLOWDOWN	X	<u> </u>		ļ!	N.	1	P	X		 -	 			<u> </u>		
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Relingui	shed by (S	ignature&	Name):	Receive	by (۶) عن	Signature	& Name	ė):			Date:		Time	2:		SAM	PLE	DISPOSITION	
¥	Jer	<u>500.</u>	<u> </u>		1111	Titul	Thu.	1116	1/_		92	92/2/1/2			1. Samples returned to client? Yes No				
Relinquished by (Signature& Name):			Name):	Receive	d by (\$	Signature	& Nam	e):			Date: Time:		2:		2. Sam	ples w	ill not be stored over 30 days,		
	_										<u> </u>					unless	unless additional storage time is requested		
Relinqui	Relinquished by (Signature& Name):			Receive	d by (\$	Signature	& Nami	e):			Date: Time:			3. Storage time requested:days.					
															_	Ву:	_		
SPECIA	L INSTR	UCTION:	 :										·					1	

Appendix B

Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

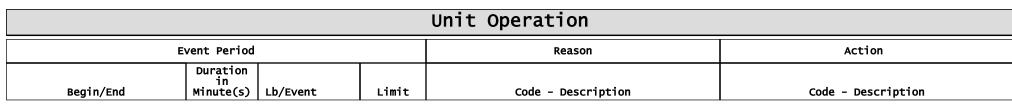
From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:23 Location: Vernon, California

Tag Name: U1_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,144.28 Hours

Non-Operating Time: 63.72 Hours Report Time: 2,208.00 Hours





Unit 1 - CO ppmvdc 3-hour Rolling during Normal Operation

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:19 Location: Vernon, California



Tag Name: U1_CO_3HrRoll_Ppmvdc_1H

Total Operating Time: 2,146.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 62.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,146.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:20 Location: Vernon, California



Tag Name: U1_NOxNormal_Ppmvdc_1H

Total Operating Time: 2,146.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 62.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,146.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:21 Location: Vernon, California



Tag Name: U1_VOCNormal_Ppmvdc_1H

Total Operating Time: 2,146.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 62.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,146.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:22 Location: Vernon, California



Tag Name: U1_NOx4H_Ppmvdc_1H

Total Operating Time: 2,146.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 62.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,146.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

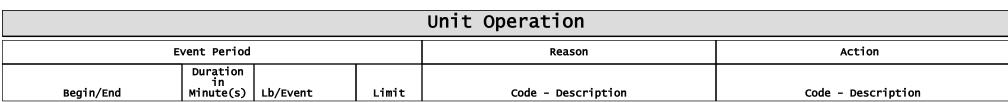
From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:23 Location: Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,144.28 Hours

Non-Operating Time: 63.72 Hours Report Time: 2,208.00 Hours





Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

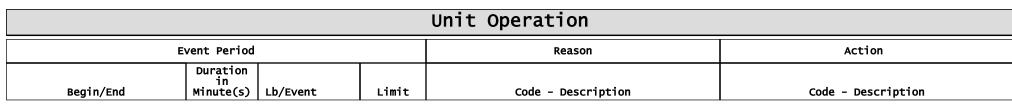
From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:24 Location: Vernon, California

Tag Name: U1_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,144.28 Hours

Non-Operating Time: 63.72 Hours Report Time: 2,208.00 Hours





Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:25 Location: Vernon, California

Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,183.50 Hours

Non-Operating Time: 24.50 Hours Report Time: 2,208.00 Hours

Unit Operation										
	Event Period			Reason	Action					
Duration in Begin/End Minute(s) Lb/Event Limit				Code - Description	Code - Description					



Unit 2 - NOx ppmvdc 1-hour during Normal Operation

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:25 Location: Vernon, California



Tag Name: U2_NOxNormal_Ppmvdc_1H

Total Operating Time: 2,186.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 22.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,186.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

From: 04/01/2021 00:00 To: 06/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:26 Location: Vernon, California



Tag Name: U2_VOCNormal_Ppmvdc_1H

Total Operating Time: 2,054.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 130.00 Hour(s) Report Time: 2,184.00 Hour(s)

Total Operating Time:	2,054.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:26 Location: Vernon, California



Tag Name: U2_CONormal_Ppmvdc_1H

Total Operating Time: 2,186.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 22.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,186.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:27 Location: Vernon, California



Tag Name: U2_NOx4H_Ppmvdc_1H

Total Operating Time: 2,186.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 22.00 Hour(s) Report Time: 2,208.00 Hour(s)

Total Operating Time:	2,186.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

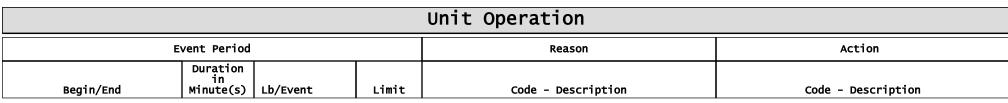
From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:27 Location: Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,183.50 Hours

Non-Operating Time: 24.50 Hours Report Time: 2,208.00 Hours





Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

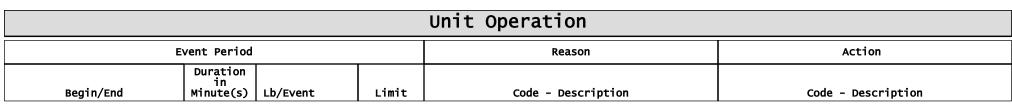
From: 07/01/2021 00:00 To: 09/30/2021 23:59 Facility Name: Malburg Generating Station

Generated: 10/07/2021 11:28 Location: Vernon, California

Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,183.50 Hours

Non-Operating Time: 24.50 Hours Report Time: 2,208.00 Hours





Appendix C

Diesel Fuel Oil Specifications



SC Commercial, LLC, DBA SC Fuels 1800 West Katella Ave, Suite 400 P.O. Box 4159, Orange, CA 92863-4159

PLEASE REMIT ALL PAYMENTS TO: P.O. BOX 14237 ORANGE, CA 92863-1237

Ph: (800) 659-5823 Credit Inquiries: (888) SCFUELS Ext.6017

01-0001084 ACCT NO (Bill-to):

COLORADO ENERGY MANAGEMENT LLC ATTN: ACCOUNTS PAYABLE 4963 S. SOTO STREET VERNON, CA 90058 (323) 476-3622

INVOICE: 1837355-IN

INVOICE DATE: 3/29/2021

DUE DATE: 4/28/2021 SHIP DATE: 3/29/2021

SHIP VIA: 924

ORDER DATE: 3/24/2021 **ORDER NUMBER: 1837355 CUSTOMER PO: MGS21780**

TERMS: N30

SALEPERSON: Todd Cripps

714-938-5714

ACCT NO (Ship-to)

01-0001084 1L

COLORADO ENERGY MGMT-VERNON 4963 SOTO STREET VERNON, CA 90058

ITEM CODE		ITEM DESCRIPTION	QUANTITY ORDERED	QUANTITY DELIVERED	PACKAGE DESCRIPTION	EXTENDED QTY	UNIT PRICE	EXT PRICE
CH253090981D05 5	CH GST 2 25309098	A STATE OF THE PARTY OF THE PAR	2 Whse:	2.00	55 G DR	110.00	18.58000	2,043.80
422D055	NON TAXA PENALTY 15 PPM O	RB ULS DIESEL ABLE USE ONLY - FOR TAXABLE USE R LESS SULFUR - MAY UP TO 5% BIODIESEL	Whse:	2.00	55 G DR	110.00	3.95000	434.50
Federal Lust							0.00100	0.11
Federal Oil Spill							0.00214	0.24
CA - AB 32 - DSL							0.00828	0.91
						-	3.96142	435.76
DRUMDEPOSITC	DRUM DE	POSIT FEE	4	4.00	MISC CHRG	4.00	25.00000	100.00
001			Whse:	101				
/FUELO	HLUBE	FUEL SURCHARGE LUI	BES					9.92
/RCFLU	JBE	REG COMPLIANCE FEE	LUBES					12.95
MSRTNDRMC001	RETURN	DRUM	0 Whse:	-4.00	MISC CHRG	4.00-	15.00000	60.00-

Save time, pay online! View invoices, make payments and more. Sign up for the Customer Portal today. Email: creditinquiries@scfuels.com or Call 888-SCFuels Ext. 6017 or login to Customer Portal: https://customerportal.scfuels.com 24-hour Emergency Response Call CHEMTREC: 800-424-9300

2,542.43 Net Invoice: 0.00 Less Discount: 0.00 Freight: Sales Tax: 256.52 Invoice Total: 2,798.95

- IN THE EVENT THAT THE ABOVE CHARGES ARE NOT PAID WHEN DUE, SC COMMERCIAL, LLC, DBA SC FUELS RESERVES THE RIGHT TO REFUSE FURTHER CHARGES TO THE ACCOUNT. A SERVICE CHARGE OF 1.5% PER MONTH(A.P.R. 18%) WILL APPLY TO ALL PAST DUE INVOICES.
- ERRORS IN PRICE, EXTENSION, AND ADDITION SUBJECT TO CORRECTION.
- It is the purchaser's responsibility to verify that all applicable taxes are being charged in accordance with fedral and state laws.

 Prices shown on this invoice reflect discounts received for Payment by Cash, Check, or Electronic Funds Transfer (EFT). Payment by other means is subject to a 3% surcharge.

partial

SALES ORDER / DELIVERY TICKET

SC Commercial, LLC, DBA SC Fuels 1800 West Katella Ave., Suite 400 P.O. Box 14237, Orange, CA 92863-4159

Ph: (800) 659-5823 Credit Inquiries: (888) SCFUELS Ext. 6017

PLEASE REMIT ALL PAYMENTS TO:

P.O. BOX 14237

ORANGE, CA 92863-1237

ORDER NUMBER: 1837355

DATE: 3/24/2021

TERMS: N30

SALES REP: Todd Cripps PHONE: 714-938-5714

PO#: MGS21780

SHIP DATE: 3/29/2021

ROM:

SHIP VIA:

WHSE: 101

ACCT NO (Bill-to): 01-0001084

COLORADO ENERGY MANAGEMENT LLC ATTN: ACCOUNTS PAYABLE 4963 S. SOTO STREET VERNON, CA 90058 (323) 476-3622

ACCT NO (Ship-to) 01-0001084 1L

COLORADO ENERGY MGMT-VERNON 4963 SOTO STREET VERNON, CA 90058 (323) 476-3632

HI	I ITEM CODE	ITEM DESCRIPTION	QTY ORDERED	QTY DEL	PACKAGE DESC	EXTENDED QTY	25	
1	CH253090981D05	CH GST 2300 ISO 32 253090981	2.00	7	55 G DR	110.00 GALS		
X	NA1993, DIESEL	FUEL, 3 PG III / CARGO TANK		17				
	422D055	DYED CARB ULS DIESEL NON TAXABLE USE ONLY - PENALTY FOR TAXABLE USE 15 PPM OR LESS SULFUR - MAY CONTAIN UP TO 5% BIODIESEL	2.00	1	55 G DR	110.00 GALS		
F	DRUMDEPOSITC 001	DRUM DEPOSIT FEE	4.00		MISC CHRG	4.00 EACH		
	/FUELCHLUBE	FUEL SURCHARGE LUBES						
	/RCFLUBE	REG COMPLIANCE FEE LUBES						

4 enty

Rec'd by 27 27 2	
Print Name Change Lee	M. Gordon
Driver's Signature	TRUCK# B/L# FOR COMPANY USE ONLY RT TF OP
ARRIVED 37 AM DATE COMPLETED AM DATE UNLOADING PM 2/14	D.O.T. HAZARDOUS MATERIALS PLACARD PROVIDED BY SHIPPER CARRIER THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED. DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS OF THE DEPARTMENT

created by:crippsto

ver. SCF20210324

www.scfuels.com

FOR CHEMICAL EMERGENCY Spill, Leak, Fire Exposure or Accident CALL CHEMTREC - DAY OR NIGHT

(800) 424-9300

Appendix D

Cooling Tower PM10 Guidance

COOLING TOWER DRIFT MASS DISTRIBUTION Excel Drift Eliminators

The following table represents the predicted mass distribution of drift particle size for cooling tower drift dispersed from Marley TU10 and TU12 Excel Drift Eliminators properly installed in a cooling tower.

Mass in Particles (%)		Droplet Size (Microns)		
0.2	Larger Than	525		
1.0	Larger Than	375		
5.0	Larger Than	230		
10.0	Larger Than	170		
20.0	Larger Than	115		
40.0	Larger Than	65		
60.0	Larger Than	35		
80.0	Larger Than	15		
88.0	Larger Than	10		

How to read table: Example -0.2% of the drift will have particle sizes larger than 525 microns.

Marley guarantees the data above for properly installed, undamaged drift eliminators in 'like-new' condition.



PREFERRED COOLING TOWER WATER CONDITION LIMITS

NOTE: Biological treatment and control of Legionella and other potentially health-threatening bacteria is essential.

Consult a competent water treatment expert or service company.

pH 6.5 to 9.0 (special materials may be required beyond these limits)

Temperature 125° F (51.7° C) typical maximum; higher temperatures possible with special materials

Langelier Saturation Index 0.0 to 1.0 recommended; higher allowed if scale is controllable.

M-Alkalinity 100 to 500 ppm as CaCO₃

Silica150 ppm as SiO2 maximum (scale formation)Iron3 ppm maximum (staining and scale contributor)Manganese0.1 ppm maximum (staining and scale contributor)

Sulfides Greater than 1 ppm can be corrosive to copper alloys, iron, steel, and galvanized steel.

See table below for limits with film fill.

Ammonia 50 ppm maximum if copper alloys present; lower limits apply for film fill - see table.

Chlorine / bromine 1 ppm free residual intermittently (shock), or 0.4 ppm continuously maximum. Exce

1 ppm free residual intermittently (shock), or 0.4 ppm continuously maximum. Excess can attack sealants, accelerate corrosion, increase drift, and embrittle PVC.

Organic solvents These can attack plastics and promote bio-growth. Trace amounts may be

acceptable, depending on the solvent.

TDS Over 5000 ppm may require thermal performance derate.

<u>Individual lons:</u> <u>MAXIMUM</u>:

Cations: **Calcium** 800 ppm as CaCO₃ preferred, (300 ppm with MX fills in arid climate).

Magnesium Depends on pH and silica level (for magnesium silicate scale).

Sodium No limit

Anions: **Chlorides** 450 ppm as Cl⁻ (300 for galvanized towers).

upgrades are required for higher chloride levels.

Sulfates 800 ppm as CaCO₃ preferred if calcium is also high (CaSO₄ scale).

Nitrates 300 ppm as NO₃ (bacteria nutrient).

Carbonates/Bicarbonates 300 ppm as CaCO₃ preferred for wood or galvanized steel tower.

Fouling Contaminant Limits - based on fouling load of 2.5 pounds per cubic foot

Bacteria counts listed below relate to maintaining fill thermal efficiency only. Biocidal treatment is required for all cooling tower installations. (see NOTE above).

Fill Type	Aerobic Bacteria Heterotrophic Plate Count	Solids (TSS)	Grease	<u>Sulfides</u>	<u>Ammonia</u>
MC75, MC120	10,000 CFU/ml	50 ppm	1 ppm	0.5 ppm	10 ppm
FB20, MX75 and MX625 (crossflow)	100,000 CFU/ml with TSS 10,000 CFU/ml with TSS	1 ppm	1.0 ppm	15 ppm	
DF254, MCR16	100,000 CFU/ml	150 ppm	5 ppm	1.5 ppm	25 ppm
DF381 with 1' MC75 overlay	1,000,000 CFU/ml with TSS up to 50 ppm, or 100,000 CFU/ml with TSS up to 150 ppm		5 ppm	1.5 ppm	25 ppm
DF381, MVC20, AAFNCS ('Cleanflow') MCR12, Tricklebloc	1,000,000 CFU/ml	250 ppm	10 ppm	2.0 ppm	25 ppm
Splash bar or grid fill	1,000,000 CFU/ml target	No specific limit	10 ppm	N/A	N/A

Note: Any amount of oil or grease is likely to adversely affect thermal performance. Sulfides and ammonia promote bacterial growth which can cause fill fouling; conformance to the limits above will assist in controlling bacteria to the recommended levels.

Drift Effects:

Certain contaminants or treatment chemicals such as surfactants, glycols, biodispersants and antifoams may increase drift rate. When minimizing drift is vital, the circulating water shall have a surface tension of at least 65 dynes/cm and a total organic carbon (TOC) level below 25 ppm. Reclaim or re-use waters in particular may contain contaminants which increase drift rate either directly or by necessitating the use of treatment chemicals which increase drift rate.

Miscellaneous Solids and Nutrients

Avoid high efficiency fill (MC75) with water containing bacteria nutrients such as alcohols, nitrates, ammonia, fats, glycols, phosphates, black liquor, or TOC greater than 50 ppm. Clog-resistant fills may be considered for contaminated water, case by case. For all film fills, avoid fibrous, oily, greasy, fatty, or tarry contaminants, which can plug fill.

In general, do not use film fill in Steel Plants, Pulp & Paper Mills, Food Processing Operations, or similar applications unless leaks and contamination by airborne or waterborne particulates, oil, or fibers are extremely unlikely. If film fill is used, biological-growth control must be stringent and diligent.