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April 29, 2022

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Subject: 2022 Q1 Compliance Report
January 1, 2022 through March 31, 2022
Malburg Generating Station (01-AFC-25C)

Dr. Ali,

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of January 1, 2022 through March 31, 2022. This report addresses all quarterly requirements identified in the Final Commission Decision for the Malburg Generating Station (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

If you have any questions or need more information, please contact Matt Richards, Utilities Operations Manager, at MRichards@cityofvernon.org or (323) 583-8811 x378.

Sincerely,

Rich Olsen
Assistant General Manager of Generation & Operations
City of Vernon, Public Utilities Department

Enclosure: MGS 2022 Q1 Compliance Report

Malburg Generating Station Quarterly Compliance Report (First Quarter 2022)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

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Acronyms and Abbreviations

CEC	California Energy Commission
CEMS	continuous emissions monitoring system
CO	carbon monoxide
COC	Conditions of Certification
CTG	combustion turbine generator
DAHS	data acquisition and handling system
gr/scf	grains per standard cubic foot
HRSG	heat recovery steam generator
lb/day	pounds per day
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH_3	ammonia
NOx	nitrogen oxides
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
QCR	Quarterly Compliance Report
SCAQMD	South Coast Air Quality Management District
SOx	sulfur oxides
STG	steam turbine generator
TDS	total dissolved solids
VOC	volatile organic compound

1. Introduction

This Quarterly Compliance Report (QCR) has been prepared to meet the California Energy Commission's (CEC) quarterly reporting requirements for the Malburg Generating Station (MGS). This QCR fulfills various Conditions of Certification (COC) described in the CEC's Final Commission Decision for the MGS (TN #28746), as most recently amended on June 20, 2019 by the Errata to Staff Analysis of Petition to Amend the Final Commission Decision (TN #228444).

1.1 Project Location and Description

The MGS is located at 4963 S Soto Street in Vernon, California. The property is approximately 3.4 acres in size, located in an industrial land use area near the geographic center of metropolitan Los Angeles County. MGS consists of two Siemens SGT-800 frame type natural gas combustion turbine generators (CTGs), two heat recovery steam generators (HRSGs), a steam turbine generator (STG), a cooling tower, a diesel-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 the compliance demonstration for each applicable COC is provided in Section 2 and includes references to Appendices and Tables as appropriate.

2. Required Quarterly Compliance Report Documentation

COC requirements associated with this QCR are summarized in the table below.

Table 2-1. Required Quarterly Compliance Report Documentation

Condition of Certification	Response
AQ-C6	The weekly total dissolved solids (TDS) results for the first quarter of 2022 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B. Note that TDS was not sampled during the third week of January 2022 due to lack of sampler availability.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the first quarter of 2022 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the first quarter of 2022 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the first quarter of 2022, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH_3), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM_{10}, and volatile organic compound (VOC) emissions from MGS operation during the first quarter of 2022 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on March 24, 2021. The fuel purchase record is provided in Appendix D and demonstrates that the fuel does not contain sulfur compounds in excess of 15 parts per million by weight (ppmw).
AQ-3	See the response for COC AQ-2.

Condition of Certification	Response
AQ-5	Monthly emissions of CO, PM_{10}, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the first quarter of 2022 are presented in Appendix A, Tables 7 through 9. Fuel usage for each turbine-duct burner pair is provided in Appendix A, Table 6. As shown, emissions were below the monthly limits specified in Condition A63.4 of the site's Title V Permit.
AQ-6	See the response for COC AQ-C9.
AQ-9	See the response for COC AQ-C11. Additionally, quarterly NOx excess emission reports from the data acquisition and handling system (DAHS) are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected NOx emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 parts per million by volume (ppmv). All continuous emissions monitoring system (CEMS) data for MGS' CTGs are stored electronically onsite.
AQ-10	See the response for COC AQ-C11. Additionally, quarterly CO excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected CO emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv. All CEMS data for MGS' CTGs are stored electronically onsite.
AQ-11	See the response for COC AQ-C11. Additionally, quarterly VOC excess emission reports from the DAHS are provided in Appendix E. As demonstrated in these reports, there were no incidents in which the maximum corrected VOC emissions concentration for both CTGs exceeded the emission concentration limit of 2.0 ppmv.
AQ-12	See the response for COC AQ-C11. Additionally, compliance with the specified limit of 5 parts per million (ppm) is primarily demonstrated through annual source testing. The most recent NH_3 compliance source test, performed on February 8 and 9, 2022 with results submitted to the CEC on March 24, 2022, indicated compliance with the emission limits for both CTGs (1.7 ppm for CTG 1 and 1.6 ppm for CTG 2). NH_3 emissions are also calculated via the CEMS on an hourly basis and confirmed to comply with the NH_3 concentration limit of 5 ppm. Note that MGS did experience an exceedance of this 5 ppm limit on March 18, 2022. Verbal notification to the South Coast Air Quality Management District (SCAQMD) was made on April 22, 2022. An excess emissions report will be filed with the SCAQMD by May 3, 2022, as required, and included with the 2nd Quarter Quarterly Compliance Report.
AQ-13	See the response for COC AQ-C11. Additionally, the most recent triennial compliance source test, performed in August 2019, indicated compliance with the Rule 475 particulate matter emission limits of 5 kilograms per hour (11 pounds per hour [lb/hr]) or 23 milligrams per cubic meter (0.01 grain per standard cubic foot [gr/scf]) for both CTGs (0.69 lb/hr and 0.0003 gr/scf for CTG1 and 1.15 lb/hr and 0.0005 gr/scf for CTG2).
AQ-14	See the response for COC AQ-2.
AQ-15	Quarterly hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the first quarter 2022 hours for maintenance and testing do not exceed 50 hours and the total operational hours do not exceed 200 hours.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair does not exceed the specified limit of 405 million cubic feet per month.
AQ-36	See the responses for COC AQ-5 and AQ-6.

Appendix A
MGS Emission Calculations

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 1

Reporting Period: **Quarter 1 2022**

Table 1. Quarterly Emissions - January 1, 2022 through March 31, 2022

Source	Quarterly Emissions (lb/quarter)					
	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	4,452	1,573	971	177	3,784	5,737
CTG 2 & Duct Burner	3,975	1,383	835	152	3,259	4,935
Cooling Tower	--	--	--	--	119	--
Diesel Firewater Pump	36.2	1.05	0.26	0.02	0.24	--
Total	**8,464**	**2,957**	**1,806**	**329**	**7,162**	**10,672**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 1 2022**

Table 2. Cooling Tower Total Dissolved Solids (TDS) Sampling Results [1, 2]

Sampling Period Start Date	End Date	TDS (ppm)
12/26/2021	1/1/2022	4,480
1/2/2022	1/8/2022	4,240
1/9/2022	1/15/2022	4,170
1/16/2022	1/22/2022	4,170
1/23/2022	1/29/2022	4,170
1/30/2022	2/5/2022	4,120
2/6/2022	2/12/2022	4,180
2/13/2022	2/19/2022	3,840
2/20/2022	2/26/2022	3,830
2/27/2022	3/5/2022	4,050
3/6/2022	3/12/2022	3,960
3/13/2022	3/19/2022	3,980
3/20/2022	3/26/2022	4,090
3/27/2022	4/2/2022	4,140

[1] Sampling results taken from Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR.

[2] The sample to be collected the third week of January (1/16/22 - 1/22/22) was not collected due to lack of sampler availability. A letter from Positive Lab noting this is included in Appendix B of the QCR. Sample concentrations for this week were assumed to be an average of the weeks before and after.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 3

Reporting Period: **January 2022**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results
Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

Sample Date	Period Start Date	End Date	TDS (ppm)
12/28/2021	12/26/2021	1/1/2022	4,480
1/5/2022	1/2/2022	1/8/2022	4,240
1/10/2022	1/9/2022	1/15/2022	4,170
N/A [1]	1/16/2022	1/22/2022	4,170
1/25/2022	1/23/2022	1/29/2022	4,170
2/2/2022	1/30/2022	2/5/2022	4,120

[1] The sample to be collected the third week of January (1/16/22 - 1/22/22) was not collected due to lack of sampler availability. A letter from Positive Lab noting this is included in Appendix B of the QCR. Sample concentrations for this week were assumed to be an average of the weeks before and after.

Methodology (per Condition of Certification [COC] AQ-C7)

PM_{10} Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants

Parameter	Value
Circulation Rate per Pump (gal/min) [1]	13,500
Number of Pumps	2
Total Circulation Rate (gal/min)	27,000
Water Density	8.334
Drift Factor (%) [2]	0.0005
Correction Factor (unitless) [3]	0.2

[1] Source: M3-10 Main Circulating Water System P&ID.

[2] Per COC AQ-C4.

[3] Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
1/1/2022	38,880,000	4,480	1.45	No
1/2/2022	38,880,000	4,240	1.37	No
1/3/2022	38,880,000	4,240	1.37	No
1/4/2022	38,880,000	4,240	1.37	No
1/5/2022	38,880,000	4,240	1.37	No
1/6/2022	38,880,000	4,240	1.37	No
1/7/2022	38,880,000	4,240	1.37	No
1/8/2022	38,880,000	4,240	1.37	No
1/9/2022	38,880,000	4,170	1.35	No
1/10/2022	38,880,000	4,170	1.35	No
1/11/2022	38,880,000	4,170	1.35	No
1/12/2022	38,880,000	4,170	1.35	No
1/13/2022	38,880,000	4,170	1.35	No
1/14/2022	38,880,000	4,170	1.35	No
1/15/2022	38,880,000	4,170	1.35	No
1/16/2022	38,880,000	4,170	1.35	No
1/17/2022	38,880,000	4,170	1.35	No
1/18/2022	38,880,000	4,170	1.35	No
1/19/2022	38,880,000	4,170	1.35	No
1/20/2022	38,880,000	4,170	1.35	No
1/21/2022	38,880,000	4,170	1.35	No
1/22/2022	38,880,000	4,170	1.35	No
1/23/2022	38,880,000	4,170	1.35	No
1/24/2022	38,880,000	4,170	1.35	No
1/25/2022	38,880,000	4,170	1.35	No
1/26/2022	38,880,000	4,170	1.35	No
1/27/2022	38,880,000	4,170	1.35	No
1/28/2022	38,880,000	4,170	1.35	No
1/29/2022	38,880,000	4,170	1.35	No
1/30/2022	38,880,000	4,120	1.33	No
1/31/2022	38,880,000	4,120	1.33	No

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

[2] Daily emissions limit established in COC AQ-C7.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 4

Reporting Period: **February 2022**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results
Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

Sample Date	Period Start Date	End Date	TDS (ppm)
2/2/2022	1/30/2022	2/5/2022	4,120
2/7/2022	2/6/2022	2/12/2022	4,180
2/15/2022	2/13/2022	2/19/2022	3,840
2/22/2022	2/20/2022	2/26/2022	3,830
2/28/2022	2/27/2022	3/5/2022	4,050

Methodology (per Condition of Certification [COC] AQ-C7)

PM_{10} Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants

Parameter	Value
Circulation Rate per Pump (gal/min) [1]	13,500
Number of Pumps	2
Total Circulation Rate (gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) [2]	0.0005
Correction Factor (unitless) [3]	0.2

[1] Source: M3-10 Main Circulating Water System P&ID.

[2] Per COC AQ-C4.

[3] Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
2/1/2022	38,880,000	4,120	1.33	No
2/2/2022	38,880,000	4,120	1.33	No
2/3/2022	38,880,000	4,120	1.33	No
2/4/2022	38,880,000	4,120	1.33	No
2/5/2022	38,880,000	4,120	1.33	No
2/6/2022	38,880,000	4,180	1.35	No
2/7/2022	38,880,000	4,180	1.35	No
2/8/2022	38,880,000	4,180	1.35	No
2/9/2022	38,880,000	4,180	1.35	No
2/10/2022	38,880,000	4,180	1.35	No
2/11/2022	38,880,000	4,180	1.35	No
2/12/2022	38,880,000	4,180	1.35	No
2/13/2022	38,880,000	3,840	1.24	No
2/14/2022	38,880,000	3,840	1.24	No
2/15/2022	38,880,000	3,840	1.24	No
2/16/2022	38,880,000	3,840	1.24	No
2/17/2022	38,880,000	3,840	1.24	No
2/18/2022	38,880,000	3,840	1.24	No
2/19/2022	38,880,000	3,840	1.24	No
2/20/2022	38,880,000	3,830	1.24	No
2/21/2022	38,880,000	3,830	1.24	No
2/22/2022	38,880,000	3,830	1.24	No
2/23/2022	38,880,000	3,830	1.24	No
2/24/2022	38,880,000	3,830	1.24	No
2/25/2022	38,880,000	3,830	1.24	No
2/26/2022	38,880,000	3,830	1.24	No
2/27/2022	38,880,000	4,050	1.31	No
2/28/2022	38,880,000	4,050	1.31	No

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

[2] Daily emissions limit established in COC AQ-C7.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 5

Reporting Period: **March 2022**

Cooling Tower Total Dissolved Solids (TDS) Sampling Results
Data Source: Positive Lab's Weekly Cooling Tower Blowdown Reports, as provided in Appendix B of the QCR

Sample Date	Period Start Date	End Date	TDS (ppm)
2/28/2022	2/27/2022	3/5/2022	4,050
3/8/2022	3/6/2022	3/12/2022	3,960
3/14/2022	3/13/2022	3/19/2022	3,980
3/22/2022	3/20/2022	3/26/2022	4,090
3/28/2022	3/27/2022	4/2/2022	4,140

Methodology (per Condition of Certification [COC] AQ-C7)

PM_{10} Emissions (lb/day) = Circulation Rate (gal/day) x Density of Water (lb/gal) x Total Dissolved Solids (ppm) / 1,000,000 x Drift Factor (%) / 100 x Correction Factor

Constants

Parameter	Value
Circulation Rate per Pump (gal/min) [1]	13,500
Number of Pumps	2
Total Circulation Rate (gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) [2]	0.0005
Correction Factor (unitless) [3]	0.2

[1] Source: M3-10 Main Circulating Water System P&ID.

[2] Per COC AQ-C4.

[3] Source: SPX Cooling Technologies' Cooling Tower Drift Mass Distribution.

Cooling Tower Daily PM_{10} Emissions

Date	Circulation Rate (gal/day) [1]	TDS (ppm)	PM_{10} Emissions (lb/day)	Above 6.2 lb/day PM_{10} Limit? [2]
3/1/2022	38,880,000	4,050	1.31	No
3/2/2022	38,880,000	4,050	1.31	No
3/3/2022	38,880,000	4,050	1.31	No
3/4/2022	38,880,000	4,050	1.31	No
3/5/2022	38,880,000	4,050	1.31	No
3/6/2022	38,880,000	3,960	1.28	No
3/7/2022	38,880,000	3,960	1.28	No
3/8/2022	38,880,000	3,960	1.28	No
3/9/2022	38,880,000	3,960	1.28	No
3/10/2022	38,880,000	3,960	1.28	No
3/11/2022	38,880,000	3,960	1.28	No
3/12/2022	38,880,000	3,960	1.28	No
3/13/2022	38,880,000	3,980	1.29	No
3/14/2022	38,880,000	3,980	1.29	No
3/15/2022	38,880,000	3,980	1.29	No
3/16/2022	38,880,000	3,980	1.29	No
3/17/2022	38,880,000	3,980	1.29	No
3/18/2022	38,880,000	3,980	1.29	No
3/19/2022	38,880,000	3,980	1.29	No
3/20/2022	38,880,000	4,090	1.33	No
3/21/2022	38,880,000	4,090	1.33	No
3/22/2022	38,880,000	4,090	1.33	No
3/23/2022	38,880,000	4,090	1.33	No
3/24/2022	38,880,000	4,090	1.33	No
3/25/2022	38,880,000	4,090	1.33	No
3/26/2022	38,880,000	4,090	1.33	No
3/27/2022	38,880,000	4,140	1.34	No
3/28/2022	38,880,000	4,140	1.34	No
3/29/2022	38,880,000	4,140	1.34	No
3/30/2022	38,880,000	4,140	1.34	No
3/31/2022	38,880,000	4,140	1.34	No

[1] Maximum daily circulation rate conservatively used to estimate PM_{10} emissions when the cooling tower is operated for any part of the day. Circulation rate is zero for days the cooling tower is not operated at all.

[2] Daily emissions limit established in COC AQ-C7.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Tables 6, 7, 8, & 9

Reporting Period: **Quarter 1 2022**

Table 6. Monthly Turbine-Duct Burner Fuel Flow

Source	January Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	February Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	March Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]
CTG 1	230		194		204	
CTG 1 Duct Burner	0.01		0.42		0.87	
Total CTG 1 & Duct Burner	**230**	**No**	**194**	**No**	**204**	**No**
CTG 2	194		185		163	
CTG 2 Duct Burner	0.02		0.31		0.00	
Total CTG 2 & Duct Burner	**194**	**No**	**185**	**No**	**163**	**No**

[1] Fuel flow data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' and 'All_12MonthSummary_GasUsage' RegPerfect Reports.
[2] Monthly fuel flow limit is per Condition of Certification (COC) AQ-27.

Table 7. Monthly Emissions - January 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,591	537	355	65.0	1,386	2,097
CTG 2 & Duct Burner	1,409	528	299	54.4	1,168	1,768
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.
[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.
[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 8. Monthly Emissions - February 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,395	497	300	54.8	1,169	1,772
CTG 2 & Duct Burner	1,349	444	285	51.9	1,113	1,687
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.
[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.
[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.
[4] Monthly emission limits are per COC AQ-5.

Table 9. Monthly Emissions - March 2022

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,467	539	315	57.1	1,230	1,869
CTG 2 & Duct Burner	1,217	411	250	45.4	978	1,480
Monthly Emission Limits [4]	N/A	7,633	3,236	227	4,876	N/A
Exceeds Limit?	N/A	No	No	No	No	N/A

[1] Unless otherwise noted, monthly emissions data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' RegPerfect Report.

[2] Monthly NOx emissions are as submitted to SCAQMD, based on the 'U1_U2MonthlyRECLAIMNOxSummaryByDay' RegPerfect Report.

[3] Monthly NH_3 emissions are calculated using monthly fuel usage and default emission factors from the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Procedures - June 2020. The emission factors are 9.1 lbs/MMscf and 18.0 lbs/MMscf for the CTGs and Duct Burners, respectively.

[4] Monthly emission limits are per COC AQ-5.

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 10

Reporting Period: Quarter 1 2022

Methodology
Emissions (lb/month) = Fuel Usage (gal/month) / 1,000 (gal/Mgal) x Emission Factor (lb/Mgal)

Emission Factors

Pollutant	Emission Factor (lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
CO	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
$PM_{10}/PM_{2.5}$	3.065	Emission factor converted from the factor provided in the facility's Title V Permit (0.09 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).

Table 10. Monthly Diesel Fire Pump Hours of Operation, Fuel Usage, and Emissions

Month	Monthly Hours of Operation [1]			Fuel Usage	Monthly Emissions (lb/month)				
	Maintenance	Testing	Emergency	(gal/month) [2]	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$
January	0.0	2.5	0.0	28.0	13.1	0.38	0.10	0.01	0.09
February	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
March	0.0	2.4	0.0	26.9	12.6	0.37	0.09	0.01	0.08
Total	**0.0**	**6.9**	**0.0**	**77.3**	**36.2**	**1.05**	**0.26**	**0.02**	**0.24**
Annual Limit for Maintenance and Testing [3]			50						
Total Annual Limit [3]			200						
Exceeds Limits?			No						

[1] Monthly hours of operation calculated from Device 385/403 run timer readings.
[2] Fuel usage (gal/month) calculated by multiplying the hours of operation by the unit's maximum fuel throughput (11.2 gal/hour).
[3] Annual limits for hours of operation are per Condition of Certification (COC) AQ-15.

Appendix B
Cooling Tower Blowdown Reports

POSITIVE LAB SERVICE

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

January 04, 2022

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

Report No.: 2112481
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 December 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.

D Sanchez

Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

Colorado Energy Management
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 01/04/22
Submitted: 12/28/21
PLS Report No.: 2112481

Attn: Tom Barnhart Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2112481-01) Sampled: 12/28/21 07:50 Received: 12/28/21 07:50

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4480**		1	mg/L	5.0	- SM 2540C	12/29/21	12/30/21	vc	BA20326

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA20326 - -										
Blank	**Prepared: 12/29/21 Analyzed: 12/30/21**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 12/29/21 Analyzed: 12/30/21**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2112494-02**	**Prepared: 12/29/21 Analyzed: 12/30/21**									
Total Dissolved Solids	50.0	5.0	mg/L		48.0			4.08	5	

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

POSITIVE LAB SERVICE

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

DATE:_____ PAGE:_____ OF_____(2)

FILE NO.:_____ LAB NO.: 211249001

CLIENT NAME: COLORADO ENERGY MGMT. PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 2715 E. 50th ST. VERNON CA 90058

PROJECT MANAGER TOM BARNHART PHONE NO: 1-702-413-2525 FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

COOLER TEMP: 0.3°C 1.5°C -.2°C

PRESERVED:_____

REMARKS:_____

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		ANALYSES REQUESTED								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								
	12-28-21	0750	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): J. Barie Received by (Signature & Name): J. Gutierrez Date: 12-28-21 Time: 1035

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

January 11, 2022

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

Report No.: 2201040
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 January 05, 2022.

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.

D Sanchez
Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

Colorado Energy Management
4963 Soto St.
Vernon, CA 90058

Attn: Tom Barnhart Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 01/11/22
Submitted: 01/05/22
PLS Report No.: 2201040

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2201040-01) Sampled: 01/05/22 10:45 Received: 01/05/22 10:45

Analyte	Results	Flag	D.F.	Units	PQL	-	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4240**		1	mg/L	5.0	-	SM 2540C	01/05/22	01/06/22	vc	BA20620

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA20620 - -										
Blank	**Prepared: 01/05/22 Analyzed: 01/06/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/05/22 Analyzed: 01/06/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2201011-01**	**Prepared: 01/05/22 Analyzed: 01/06/22**									
Total Dissolved Solids	1590	5.0	mg/L		1550			2.81	5	

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 1-522 PAGE: 1 OF 1

FILE NO.: LAB NO. 1201040

CLIENT NAME: COLORADO ENERGY MGMT. PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO: #1

ADDRESS: 2715 E. 50th ST. VERNON CA 90058

COOLER TEMP: 1.0c -0.2c -2.4c

PROJECT MANAGER TOM BARNHART PHONE NO: 1-702-413-2525 FAX NO:

PRESERVED:

SAMPLER NAME: JOHN BARIE SIGNATURE:

REMARKS:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-522	1045	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): J Barie

Received by (Signature & Name): Guadalupe Tanaka

Date: 1-522 Time: 12a

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

January 17, 2022

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

Report No.: 2201071
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 January 10, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

Colorado Energy Management
4963 Soto St.
Vernon, CA 90058

Attn: Tom Barnhart Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 01/17/22
Submitted: 01/10/22
PLS Report No.: 2201071

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2201071-01) Sampled: 01/10/22 10:00 Received: 01/10/22 10:00

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4170**		1	mg/L	5.0	- SM 2540C	01/13/22	01/14/22	vc	BA21402

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA21402 - -										
Blank	**Prepared: 01/13/22 Analyzed: 01/14/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/13/22 Analyzed: 01/14/22**									
Total Dissolved Solids	50.0	5.0	mg/L	50.00		100	80-120			
Duplicate **Source: 2201071-01**	**Prepared: 01/13/22 Analyzed: 01/14/22**									
Total Dissolved Solids	4360	5.0	mg/L		4170			4.45	5	

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

Rick Owen Parlier

Authorized Signature(s)

118646

POSITIVE LAB SERVICE

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 1/10/22 PAGE 1 OF 1

LOG BOOK NO. _____ FILE NO. _____ LAB NO. 220107

CLIENT NAME: Colorado Energy MGMT Project Name/No. Malburg Generating Station Weekly P.O. NO.

AIRBILL NO: _____

#67 CF = -0.5° C

ADDRESS:

ANALYSES REQUESTED:

COOLER TEMP: 2.5°/2°C

PROJECT MANAGER: Tom Barnhart PHONE NO: FAX NO:

PRESERVATIVE:

SAMPLER NAME: Luis Gutierrez (Printed) (Signature)

REMARKS:

TAT (Analytical Turn Around Time): 0 = Same Day; 1 = 1 Day; 2 = 2 Days; 3 = 3 Days; N = Normal (5-7 Working Days)

CONTAINER TYPES: B = Brass, E = Encore, G = Glass, P = Plastic, V = VOA Vial, O = Other:

UST Project: Y N - Global ID# ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

	SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS							SAMPLE CONDITION/ CONTAINER /COMMENTS:
1		1/10/22	10:00 AM	Cooling Tower Blowdown	X				N	1	P	X							
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished By: (Signature and Printed Name) Received By: (Signature and Printed Name) Guadalupe Tapia Date: 1/10/22 Time: 2:13

Relinquished By: (Signature and Printed Name) Received By: (Signature and Printed Name) Date: Time:

Relinquished By: (Signature and Printed Name) Received By: (Signature and Printed Name) Date: Time:

SPECIAL INSTRUCTIONS:

SAMPLE DISPOSITION:
1. Samples returned to client? YES NO
2. Samples will not be stored over 30 days, unless additional storage time is requested.
3. Storage time requested: _____ days

By _____ Date _____

PRESERVATIVE: 1-HNO_3, 2-H_2SO_4, 3-HCL, 4-Zinc Acetate, 5-NaOH, 6-NH_4 Buffer, 7-Other

LAB COPY

POSITIVE
LAB SERVICE

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

April 19, 2022

Mr. Matt Richards
City of Vernon
4963 Soto Street
Vernon, CA 90058

RE: Malburg Generation Station Missed Weekly Sampling January 2022

Hello Mr. Richards:

We did not take the Weekly samples at your facility in January 2022.
Our main sampling Technician was out with COVID during this time, and the replacement Technician, that was covering for him during this time, was not aware of the required weekly sampling. When our main technician returned from being out, he continued the weekly sampling.
We apologize for missing this sampling, we were short staffed during this time, with other staff members out as well with COVID.

Sincerely,

John Schmidt
Lab Manager, V. P.

POSITIVE LAB SERVICE

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

January 31, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2201239
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 25, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 01/31/22
Submitted: 01/25/22
PLS Report No.: 2201239

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2201239-01) Sampled: 01/25/22 08:50 Received: 01/25/22 08:50

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4170**		1	mg/L	5.0	- SM 2540C	01/27/22	01/28/22	vc	BA22811

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BA22811 - -										
Blank	**Prepared: 01/27/22 Analyzed: 01/28/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 01/27/22 Analyzed: 01/28/22**									
Total Dissolved Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate Source: 2201241-07	**Prepared: 01/27/22 Analyzed: 01/28/22**									
Total Dissolved Solids	695	5.0	mg/L		706			1.57	5	
Duplicate Source: 2201246-01	**Prepared & Analyzed: 01/28/22**									
Total Dissolved Solids	1120	5.0	mg/L		1160			4.13	5	

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

Rick Owen Parker

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 1.25.22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 1201239

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO: 4/6

ADDRESS: ~~2715 E. 50th ST.~~ 4403 50th St VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

COOLER TEMP: 1.2 - 1.5 RCA

PRESERVED:

REMARKS:

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	1.25.22	0850	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): J Jon Barie Received by (Signature & Name): Guadalupe Tanaka Date: 1.24.22 Time: 1158

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

February 10, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2202015
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 02, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 02/10/22
Submitted: 02/02/22
PLS Report No.: 2202015

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2202015-01) Sampled: 02/02/22 08:55 Received: 02/02/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4120**	R1	1	mg/L	5.0	- SM 2540C	02/10/22	02/10/22	dd	BB21035

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB21035 - -										
Blank	**Prepared & Analyzed: 02/10/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared & Analyzed: 02/10/22**									
Total Dissolved Solids	49.0	5.0	mg/L	50.00		98.0	80-120			
Duplicate **Source: 2202015-01**	**Prepared & Analyzed: 02/10/22**									
Total Dissolved Solids	3990	5.0	mg/L		4120			3.41	5	

Notes and Definitions

R1	Sample Analyzed Past Holding Time.
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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 2-2-22 PAGE: 1 OF 1
FILE NO.: LAB NO.: 110015

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO: N/A

ADDRESS: 4963 SOTO ST. VERNON CA 90058 COOLER TEMP: 1.5°C - 2.2°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: PRESERVED:

SAMPLER NAME: JOHN BARIE SIGNATURE: REMARKS:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-1-22	0854	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): Jon Barie — Received by (Signature & Name): Arrived at the lab — Date: 2-2-22 — Time: 1045

Relinquished by (Signature& Name): — Received by (Signature & Name): — Date: — Time:

Relinquished by (Signature& Name): — Received by (Signature & Name): — Date: — Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

February 14, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2202046
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 07, 2022.

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.

D Sanchez
Project Manager

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 02/14/22
Submitted: 02/07/22
PLS Report No.: 2202046

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2202046-01) Sampled: 02/07/22 10:40 Received: 02/07/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4180**		1	mg/L	5.0	- SM 2540C	02/09/22	02/10/22	dd	BB21027

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB21027 - -										
Blank	**Prepared: 02/09/22 Analyzed: 02/10/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/09/22 Analyzed: 02/10/22**									
Total Dissolved Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate **Source: 2202046-01**	**Prepared: 02/09/22 Analyzed: 02/10/22**									
Total Dissolved Solids	4200	5.0	mg/L		4180			0.310	5	

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

Rick Owen Parker

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 2-7-22 PAGE: 1 OF ____

FILE NO.: ____ LAB NO.: 202046

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO: #4

ADDRESS: 4963 SOTO ST. VERNON CA 90058

COOLER TEMP: 0.5° 1.1°C -.24 CF

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

PRESERVED: ____

SAMPLER NAME: JOHN BARIE SIGNATURE:

REMARKS: ____

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-7-22	1040	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): John Barie — Received by (Signature & Name): Arrived at the lab — Date: 2-7-22 — Time: 1115

Relinquished by (Signature& Name): — Received by (Signature & Name): — Date: — Time:

Relinquished by (Signature& Name): — Received by (Signature & Name): — Date: — Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: ____ days.

By: ____ Date: ____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

February 21, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2202125
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 15, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 02/21/22
Submitted: 02/15/22
PLS Report No.: 2202125

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2202125-01) Sampled: 02/15/22 08:25 Received: 02/15/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3840**		1	mg/L	5.0	- SM 2540C	02/17/22	02/18/22	vc	BB22128

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BB22128 - -										
Blank	**Prepared: 02/17/22 Analyzed: 02/18/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/17/22 Analyzed: 02/18/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate Source: 2202146-08	**Prepared: 02/17/22 Analyzed: 02/18/22**									
Total Dissolved Solids	4520	5.0	mg/L		4360			3.72	5	
Duplicate Source: 2202160-08	**Prepared: 02/17/22 Analyzed: 02/18/22**									
Total Dissolved Solids	5420	5.0	mg/L		5200			4.05	5	

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 2-15-22 PAGE: 1 OF _____

FILE NO.: _____ LAB NO.: 1202125

CLIENT NAME: CITY OF VERNON | PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY | P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO:

SAMPLER NAME: JOHN BARIE | SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

AIRBILL NO: #6

COOLER TEMP: 2.0°C - 2.4°C 1.5°C

PRESERVED: _____

REMARKS: _____

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-15-22	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): Tom Barie | Received by (Signature & Name): Arrived at the lab | Date: 2-15-22 | Time: 1125

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

Relinquished by (Signature& Name): | Received by (Signature & Name): | Date: | Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

March 01, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2202202
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 22, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 03/01/22
Submitted: 02/22/22
PLS Report No.: 2202202

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2202202-01) Sampled: 02/22/22 08:20 Received: 02/22/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3830**		1	mg/L	5.0	- SM 2540C	02/28/22	03/01/22	vc	BC20119

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC20119 - -										
Blank	**Prepared: 02/28/22 Analyzed: 03/01/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 02/28/22 Analyzed: 03/01/22**									
Total Dissolved Solids	48.0	5.0	mg/L	50.00		96.0	80-120			
Duplicate **Source: 2202202-01**	**Prepared: 02/28/22 Analyzed: 03/01/22**									
Total Dissolved Solids	3990	5.0	mg/L		3830			4.17	5	

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

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

DATE: 2-22-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 102202

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

COOLER TEMP: 1.3°C #66

PRESERVED:

REMARKS:

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		ANALYSES REQUESTED								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								
	2-22-22	0920	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): Tom Barie

Received by (Signature & Name): Arrived at the lab

Date: 2-22-22 Time: 1135

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

March 07, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2202267
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 28, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 03/07/22
Submitted: 02/28/22
PLS Report No.: 2202267

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2202267-01) Sampled: 02/28/22 08:30 Received: 02/28/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4050**		1	mg/L	5.0	- SM 2540C	03/03/22	03/04/22	vc	BC20728

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC20728 - -										
Blank	**Prepared: 03/03/22 Analyzed: 03/04/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/03/22 Analyzed: 03/04/22**									
Total Dissolved Solids	49.0	5.0	mg/L	50.00		98.0	80-120			
Duplicate **Source: 2202267-01**	**Prepared: 03/03/22 Analyzed: 03/04/22**									
Total Dissolved Solids	4070	5.0	mg/L		4050			0.574	5	

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

Rick Owen Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 2-28-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 220284

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 COOLER TEMP: 10°C -2°C = 8°C, 8.8°C #66

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: PRESERVED:

SAMPLER NAME: JOHN BARIE SIGNATURE: REMARKS:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	2-28-22	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): N/A Received by (Signature & Name): Date: 2-28-22 Time: 0830

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 2-28-22 1120

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

March 14, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2203065
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 08, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 03/14/22
Submitted: 03/08/22
PLS Report No.: 2203065

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2203065-01) Sampled: 03/08/22 08:30 Received: 03/08/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3960**		1	mg/L	5.0	- SM 2540C	03/10/22	03/11/22	vc	BC21115

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC21115 - -										
Blank	**Prepared: 03/10/22 Analyzed: 03/11/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/10/22 Analyzed: 03/11/22**									
Total Dissolved Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate **Source: 2203065-01**	**Prepared: 03/10/22 Analyzed: 03/11/22**									
Total Dissolved Solids	4110	5.0	mg/L		3960			3.64	5	

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

Rick Owen Parker

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 3-8-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2203065

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

ANALYSES REQUESTED

COOLER TEMP: 1.2°C -2.0°C #1 7.0°C #6

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

PRESERVED:

SAMPLER NAME: JOHN BARIE SIGNATURE:

REMARKS:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	3-8-22	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA Received by (Signature & Name): JT Jambori Date: 3-8-22 Time: 0830

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

Relinquished by (Signature& Name): Received by (Signature & Name): Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 3-8-22 1030

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

March 21, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2203099
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 14, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 03/21/22
Submitted: 03/14/22
PLS Report No.: 2203099

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2203099-01) Sampled: 03/14/22 09:15 Received: 03/14/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3980**		1	mg/L	5.0	- SM 2540C	03/17/22	03/18/22	vc	BC21820

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC21820 - -										
Blank	**Prepared: 03/17/22 Analyzed: 03/18/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/17/22 Analyzed: 03/18/22**									
Total Dissolved Solids	46.0	5.0	mg/L	50.00		92.0	80-120			
Duplicate Source: 2203099-01	**Prepared: 03/17/22 Analyzed: 03/18/22**									
Total Dissolved Solids	4080	5.0	mg/L		3980			2.36	5	

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

Rick Owen Parkin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE: 3-14-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2203099

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- --- ---

AIRBILL NO:

COOLER TEMP: 1.1°C - 22 CF ~~2.5°C #6~~

PRESERVED:

REMARKS:

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-14-22	0915	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): NA

Received by (Signature & Name): John Barie

Date: 3-14-22 Time: 0915

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

Relinquished by (Signature& Name):

Received by (Signature & Name):

Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION:

Arrived at the lab 3-14-22 1150

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE
LAB SERVICE

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

March 28, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2203186
Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 22, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

File #:74548
Report Date: 03/28/22
Submitted: 03/22/22
PLS Report No.: 2203186

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2203186-01) Sampled: 03/22/22 08:50 Received: 03/22/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4090**		1	mg/L	5.0	- SM 2540C	03/24/22	03/25/22	vc	BC22514

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC22514 - -										
Blank	**Prepared: 03/24/22 Analyzed: 03/25/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/24/22 Analyzed: 03/25/22**									
Total Dissolved Solids	47.0	5.0	mg/L	50.00		94.0	80-120			
Duplicate **Source: 2203186-01**	**Prepared: 03/24/22 Analyzed: 03/25/22**									
Total Dissolved Solids	3960	5.0	mg/L		4090			3.23	5	

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)

POSITIVE LAB SERVICE

CHAIN OF CUSTODY AND ANALYSIS REQUEST

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

DATE:______ PAGE:____ OF____

FILE NO.: LAB NO.: 2203186

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO. AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058 COOLER TEMP: 1.4 -2.0

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: PRESERVED: ______

SAMPLER NAME: JOHN BARIE SIGNATURE: REMARKS:______

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

ANALYSES REQUESTED

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	MATRIX: SOIL	MATRIX: SLUDGE	MATRIX: OTHER	TAT	CONTAINER #	CONTAINER TYPE	TDS							SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-22-22	0850	COOLING TOWER BLOWDOWN	X				N	1	P	X							

Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
[signature]	[signature]	3-22-22	0850
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:
Relinquished by (Signature& Name):	Received by (Signature & Name):	Date:	Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: ________days,

By: __________Date:__________

SPECIAL INSTRUCTION:

Arrived at the lab 3-22-22 1025

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

POSITIVE LAB SERVICE

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

April 04, 2022

Matt Richards
City of Vernon
4963 Soto St.
Vernon, CA 90058

Report No.: 2203249
Project Name: Malburg Generating Station

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 28, 2022.

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

POSITIVE LAB SERVICE

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

Certificate of Analysis

City of Vernon
4963 Soto St.
Vernon, CA 90058

Attn: Matt Richards Phone: (323) 476-3626 FAX:(323) 476-3640

File #:74548
Report Date: 04/04/22
Submitted: 03/28/22
PLS Report No.: 2203249

Project: Malburg Generating Station

Sample ID: Cooling Tower Blowdown Water (2203249-01) Sampled: 03/28/22 07:35 Received: 03/28/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4140**		1	mg/L	5.0	- SM 2540C	03/31/22	04/01/22	vc	BD20426

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BD20426 - -										
Blank	**Prepared: 03/31/22 Analyzed: 04/01/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 03/31/22 Analyzed: 04/01/22**									
Total Dissolved Solids	49.0	5.0	mg/L	50.00		98.0	80-120			
Duplicate **Source: 2203249-01**	**Prepared: 03/31/22 Analyzed: 04/01/22**									
Total Dissolved Solids	3950	5.0	mg/L		4140			4.78	5	

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

Rick Owen Parlier

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST

POSITIVE LAB SERVICE

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

DATE: 3-28-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 203249

CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING STATION WEEKLY P.O.NO.

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal

CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other

UST PROJECT: Y N GLOBAL ID#: --- --- --- --- --- --- --- --- --- ---

OBSERV. TEMP: 1.0°C °C
CORREC. TEMP: 2.0°C °C
THERMO ID: 66 BY: JB
PRESERVED:
REMARKS:

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3-28-22	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA
Received by (Signature & Name): John Barie
Date: 3-28-22 Time: 0735

Relinquished by (Signature& Name):
Received by (Signature & Name):
Date: Time:

Relinquished by (Signature& Name):
Received by (Signature & Name):
Date: Time:

SAMPLE DISPOSITION

1. Samples returned to client? Yes No
2. Samples will not be stored over 30 days, unless additional storage time is requested
3. Storage time requested: _____days,

By: _____ Date: _____

SPECIAL INSTRUCTION: Arrived at the lab 3.2022 0915

PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC ACETATE 5-NaOH 6-NH4 BUFFER 7- OTHER

Appendix C
Operation Logs

Malburg Generating Station
Appendix C, Table 1
Combustion Turbine Generator (CTG) Startup and Shutdown Events
During Quarter 1, 2022

CGT 1

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
2/4/2022	Shutdown	20:56	21:06	0:10
2/7/2022	Cold Start	15:03	16:48	1:45
3/11/2022	Shutdown	22:01	22:09	0:08
3/14/2022	Cold Start	14:34	16:01	1:27
3/31/2022	Shutdown	00:01	00:08	0:07

CGT 2

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
1/14/2022	Shutdown	22:00	22:09	0:09
1/18/2022	Cold Start	14:41	16:13	1:32
2/6/2022	Trip	12:59	12:59	0:00
2/6/2022	Hot Start	16:33	17:52	1:19
2/19/2022	Shutdown	0:01	0:09	0:08
2/22/2022	Cold Start	14:45	16:27	1:42
3/16/022	Shutdown	00:00	00:08	0:08
3/22/2022	Cold Start	15:36	17:10	1:34
3/26/2022	Shutdown	00:00	00:08	0:08
3/28/2022	Cold Start	14:30	16:19	1:49

[1] A startup event is defined as initiation of the first start command to the time at which the system becomes emissions compliant.

Malburg Generating Station
Appendix C, Table 2
Diesel Firewater Pump Testing Times
During Quarter 1, 2022

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
1/2/2022	20:25	330.8	331.3	Testing	0.50
1/9/2022	20:12	331.3	331.8	Testing	0.50
1/16/2022	23:24	331.8	332.3	Testing	0.50
1/23/2022	19:10	332.3	332.8	Testing	0.50
1/30/2022	19:16	332.8	333.3	Testing	0.50
2/6/2022	23:11	333.3	333.8	Testing	0.50
2/13/2022	23:13	333.8	334.3	Testing	0.50
2/20/2022	19:08	334.3	334.8	Testing	0.50
2/27/2022	23:56	334.8	335.3	Testing	0.50
3/6/2022	20:30	335.3	335.7	Testing	0.40
3/13/2022	21:15	335.7	336.3	Testing	0.60
3/20/2022	19:41	336.3	336.8	Testing	0.50
3/27/2022	20:04	336.8	337.7	Testing	0.90

Appendix D
Diesel Fuel Oil Purchase Records

Invoice

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

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 (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

ITEM CODE	ITEM DESCRIPTION	QUANTITY ORDERED	QUANTITY DELIVERED	PACKAGE DESCRIPTION	EXTENDED QTY	UNIT PRICE	EXT PRICE
CH253090981D055	CH GST 2300 ISO 32 253090981	2 Whse: 101	2.00	55 G DR	110.00	18.58000	2,043.80
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 Whse: 101	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
DRUMDEPOSITC001	DRUM DEPOSIT FEE	4 Whse: 101	4.00	MISC CHRG	4.00	25.00000	100.00
/FUELCHLUBE	FUEL SURCHARGE LUBES						9.92
/RCFLUBE	REG COMPLIANCE FEE LUBES						12.95
MSRTNDRMC001	RETURN DRUM	0 Whse: 101	-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

Net Invoice:	2,542.43
Less Discount:	0.00
Freight:	0.00
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.

Parts

PO 21780

partial

SALES ORDER / DELIVERY TICKET

ORDER NUMBER: 1837355

DATE: 3/24/2021
TERMS: N30
SALES REP: Todd Cripps
PHONE: 714-938-5714

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

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

HM	ITEM CODE	ITEM DESCRIPTION	QTY ORDERED	QTY DEL	PACKAGE DESC	EXTENDED QTY
	CH253090981D055	CH GST 2300 ISO 32 253090981	2.00	2	55 G DR	110.00 GALS
X	**NA1993, DIESEL FUEL, 3 PG III / CARGO TANK**					
	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	2	55 G DR	110.00 GALS
	DRUMDEPOSITC001	DRUM DEPOSIT FEE	4.00	4	MISC CHRG	4.00 EACH
	/FUELCHLUBE	FUEL SURCHARGE LUBES				
	/RCFLUBE	REG COMPLIANCE FEE LUBES				

4 empty Drums

Rec'd by [signature] Date 3-29-21

Print Name [illegible]

Driver's Signature [signature]

Received in INFOR
3/29/21
M. Gordon

TRUCK #	B/L #	FOR COMPANY USE ONLY
921		RT ☐ TF ☐ OP ☐

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 OF TRANSPORTATION.

ARRIVED DESTINATION	AM/PM	DATE	COMPLETED UNLOADING	AM/PM	DATE
10:32	AM	3/29/21		PM	3/29/21

DRUM CREDIT 4

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 E
Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 12:55 **Location:** Vernon, California

Tag Name: U1_CO_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,005.13 Hours

Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:55 **Location:** Vernon, California
Tag Name: U1_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 2,005.13 Hours
Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 12:58 **Location:** Vernon, California

Tag Name: U1_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,005.13 Hours

Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 12:58 **Location:** Vernon, California

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

Total Operating Time: 2,005.13 Hours

Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 12:59 **Location:** Vernon, California

Tag Name: U1_VOC_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,005.13 Hours

Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:59 **Location:** Vernon, California
Tag Name: U1_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 2,005.13 Hours
Non-Operating Time: 154.87 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:57 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 2,009.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 151.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**2,009.00 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 %**

Excess Emission Report

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:56 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 2,009.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 151.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**2,009.00 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 %**

Excess Emission Report

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:56 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 2,009.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 151.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**2,009.00 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: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:57 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H
Total Operating Time: 2,009.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 151.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**2,009.00 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 Event Report

U2 CO Startup/Shutdown Events

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:59 **Location:** Vernon, California
Tag Name: U2_CO_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,758.45 Hours
Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 12:59 **Location:** Vernon, California
Tag Name: U2_CO_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,758.45 Hours
Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

Invalid Event Period		Reason	Action
Begin/End	Duration in Minute(s)	Code - Description	Code - Description
01/03/2022 14:31 01/03/2022 14:31	1		

Total CMS Downtime	1	**Minute(s)**
Total Downtime as a percentage of operating time	0.00	**%**
Total Availability as a percentage of operating time	100.00	**%**

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 13:02 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,758.45 Hours

Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 04/28/2022 13:02 **Location:** Vernon, California

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

Total Operating Time: 1,758.45 Hours

Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

Invalid Event Period		Reason	Action
Begin/End	Duration in Minute(s)	Code - Description	Code - Description
01/03/2022 14:31 01/03/2022 14:31	1		

Total CMS Downtime	1	Minute(s)
Total Downtime as a percentage of operating time	0.00	%
Total Availability as a percentage of operating time	100.00	%

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:02 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M
SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,758.45 Hours
Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

Unit Operation

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:02 **Location:** Vernon, California
Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission
Total Operating Time: 1,758.45 Hours
Non-Operating Time: 401.55 Hours Report Time: 2,160.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:01 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 1,766.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 394.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**1,766.00 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 %**

Excess Emission Report

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:00 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,766.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 394.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**1,766.00 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 %**

Excess Emission Report

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

From: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:00 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,766.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 394.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**1,766.00 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: 01/01/2022 00:00 **To:** 03/31/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 04/28/2022 13:01 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H
Total Operating Time: 1,766.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 394.00 Hour(s) Report Time: 2,160.00 Hour(s)

No incidents have been reported for this reporting period. Data is 100% in compliance.

Total Operating Time:	**1,766.00 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 %**