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October 28, 2022

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Subject: 2022 Q3 Compliance Report
July 1, 2022 through September 30, 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 July 1, 2022 through September 30, 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 Q3 Compliance Report

Malburg Generating Station Quarterly Compliance Report (Third Quarter 2022)

Submitted to
California Energy Commission

Submitted by
City of Vernon, Public Utilities Department

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Appendices

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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 associated natural gas combustion duct burners, 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 third quarter of 2022 are provided in Appendix A, Table 2; the weekly sample reports collected for the same period are provided in Appendix B.
AQ-C7	Daily particulate matter with aerodynamic diameter less than or equal to 10 microns (PM_{10}) emissions from cooling tower operation during the third 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 third 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 third 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 third quarter of 2022 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on April 11, 2022 (second quarter). 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 third 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. All CEMS data for MGS' CTGs are stored electronically onsite.
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 or quarterly source testing. The most recent NH_3 compliance source test, performed on July 29 and 30, 2022 with results submitted to the CEC on September 21, 2022, indicated compliance with the emission limits for both CTGs (0.6 ppm for CTG 1 and 0.5 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.
AQ-13	See the response for COC AQ-C11. Additionally, the most recent triennial compliance source test, performed in July 2022, 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 (0.67 lb/hr and 0.0003 gr/scf for CTG1 and 1.83 lb/hr and 0.0007 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 third 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 3 2022**

Table 1. Quarterly Emissions - July 1, 2022 through September 30, 2022

Source	Quarterly Emissions (lb/quarter)					
	NOx	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3
CTG 1 & Duct Burner	3,604	1,264	779	143	3,048	4,708
CTG 2 & Duct Burner	4,818	1,492	1,047	190	4,090	6,299
Cooling Tower	--	--	--	--	125	--
Diesel Firewater Pump	34.7	1.01	0.25	0.02	0.23	--
Total	**8,456**	**2,756**	**1,826**	**333**	**7,263**	**11,007**

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 2

Reporting Period: **Quarter 3 2022**

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

Sampling Period Start Date	End Date	TDS (ppm)
6/26/2022	7/2/2022	4,020
7/3/2022	7/9/2022	4,140
7/10/2022	7/16/2022	4,570
7/17/2022	7/23/2022	4,380
7/24/2022	7/30/2022	4,470
7/31/2022	8/6/2022	3,980
8/7/2022	8/13/2022	4,420
8/14/2022	8/20/2022	4,100
8/21/2022	8/27/2022	4,020
8/28/2022	9/3/2022	4,040
9/4/2022	9/10/2022	4,480
9/11/2022	9/17/2022	3,970
9/18/2022	9/24/2022	4,070
9/25/2022	10/1/2022	4,080

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

Malburg Generating Station
Quarterly Compliance Report
Appendix A, Table 3

Reporting Period: **July 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)
6/28/2022	6/26/2022	7/2/2022	4,020
7/7/2022	7/3/2022	7/9/2022	4,140
7/11/2022	7/10/2022	7/16/2022	4,570
7/19/2022	7/17/2022	7/23/2022	4,380
7/25/2022	7/24/2022	7/30/2022	4,470
8/3/2022	7/31/2022	8/6/2022	3,980

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]
7/1/2022	38,880,000	4,020	1.30	No
7/2/2022	38,880,000	4,020	1.30	No
7/3/2022	38,880,000	4,140	1.34	No
7/4/2022	38,880,000	4,140	1.34	No
7/5/2022	38,880,000	4,140	1.34	No
7/6/2022	38,880,000	4,140	1.34	No
7/7/2022	38,880,000	4,140	1.34	No
7/8/2022	38,880,000	4,140	1.34	No
7/9/2022	38,880,000	4,140	1.34	No
7/10/2022	38,880,000	4,570	1.48	No
7/11/2022	38,880,000	4,570	1.48	No
7/12/2022	38,880,000	4,570	1.48	No
7/13/2022	38,880,000	4,570	1.48	No
7/14/2022	38,880,000	4,570	1.48	No
7/15/2022	38,880,000	4,570	1.48	No
7/16/2022	38,880,000	4,570	1.48	No
7/17/2022	38,880,000	4,380	1.42	No
7/18/2022	38,880,000	4,380	1.42	No
7/19/2022	38,880,000	4,380	1.42	No
7/20/2022	38,880,000	4,380	1.42	No
7/21/2022	38,880,000	4,380	1.42	No
7/22/2022	38,880,000	4,380	1.42	No
7/23/2022	38,880,000	4,380	1.42	No
7/24/2022	38,880,000	4,470	1.45	No
7/25/2022	38,880,000	4,470	1.45	No
7/26/2022	38,880,000	4,470	1.45	No
7/27/2022	38,880,000	4,470	1.45	No
7/28/2022	38,880,000	4,470	1.45	No
7/29/2022	38,880,000	4,470	1.45	No
7/30/2022	38,880,000	4,470	1.45	No
7/31/2022	38,880,000	3,980	1.29	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: **August 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)
8/3/2022	7/31/2022	8/6/2022	3,980
8/8/2022	8/7/2022	8/13/2022	4,420
8/15/2022	8/14/2022	8/20/2022	4,100
8/23/2022	8/21/2022	8/27/2022	4,020
8/29/2022	8/28/2022	9/3/2022	4,040

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]
8/1/2022	38,880,000	3,980	1.29	No
8/2/2022	38,880,000	3,980	1.29	No
8/3/2022	38,880,000	3,980	1.29	No
8/4/2022	38,880,000	3,980	1.29	No
8/5/2022	38,880,000	3,980	1.29	No
8/6/2022	38,880,000	3,980	1.29	No
8/7/2022	38,880,000	4,420	1.43	No
8/8/2022	38,880,000	4,420	1.43	No
8/9/2022	38,880,000	4,420	1.43	No
8/10/2022	38,880,000	4,420	1.43	No
8/11/2022	38,880,000	4,420	1.43	No
8/12/2022	38,880,000	4,420	1.43	No
8/13/2022	38,880,000	4,420	1.43	No
8/14/2022	38,880,000	4,100	1.33	No
8/15/2022	38,880,000	4,100	1.33	No
8/16/2022	38,880,000	4,100	1.33	No
8/17/2022	38,880,000	4,100	1.33	No
8/18/2022	38,880,000	4,100	1.33	No
8/19/2022	38,880,000	4,100	1.33	No
8/20/2022	38,880,000	4,100	1.33	No
8/21/2022	38,880,000	4,020	1.30	No
8/22/2022	38,880,000	4,020	1.30	No
8/23/2022	38,880,000	4,020	1.30	No
8/24/2022	38,880,000	4,020	1.30	No
8/25/2022	38,880,000	4,020	1.30	No
8/26/2022	38,880,000	4,020	1.30	No
8/27/2022	38,880,000	4,020	1.30	No
8/28/2022	38,880,000	4,040	1.31	No
8/29/2022	38,880,000	4,040	1.31	No
8/30/2022	38,880,000	4,040	1.31	No
8/31/2022	38,880,000	4,040	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: **September 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)
8/29/2022	8/28/2022	9/3/2022	4,040
9/7/2022	9/4/2022	9/10/2022	4,480
9/13/2022	9/11/2022	9/17/2022	3,970
9/20/2022	9/18/2022	9/24/2022	4,070
9/27/2022	9/25/2022	10/1/2022	4,080

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]
9/1/2022	38,880,000	4,040	1.31	No
9/2/2022	38,880,000	4,040	1.31	No
9/3/2022	38,880,000	4,040	1.31	No
9/4/2022	38,880,000	4,480	1.45	No
9/5/2022	38,880,000	4,480	1.45	No
9/6/2022	38,880,000	4,480	1.45	No
9/7/2022	38,880,000	4,480	1.45	No
9/8/2022	38,880,000	4,480	1.45	No
9/9/2022	38,880,000	4,480	1.45	No
9/10/2022	38,880,000	4,480	1.45	No
9/11/2022	38,880,000	3,970	1.29	No
9/12/2022	38,880,000	3,970	1.29	No
9/13/2022	38,880,000	3,970	1.29	No
9/14/2022	38,880,000	3,970	1.29	No
9/15/2022	38,880,000	3,970	1.29	No
9/16/2022	38,880,000	3,970	1.29	No
9/17/2022	38,880,000	3,970	1.29	No
9/18/2022	38,880,000	4,070	1.32	No
9/19/2022	38,880,000	4,070	1.32	No
9/20/2022	38,880,000	4,070	1.32	No
9/21/2022	38,880,000	4,070	1.32	No
9/22/2022	38,880,000	4,070	1.32	No
9/23/2022	38,880,000	4,070	1.32	No
9/24/2022	38,880,000	4,070	1.32	No
9/25/2022	38,880,000	4,080	1.32	No
9/26/2022	38,880,000	4,080	1.32	No
9/27/2022	38,880,000	4,080	1.32	No
9/28/2022	38,880,000	4,080	1.32	No
9/29/2022	38,880,000	4,080	1.32	No
9/30/2022	38,880,000	4,080	1.32	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 3 2022

Table 6. Monthly Turbine-Duct Burner Fuel Flow

Source	July Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	August Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]	September Fuel Flow (MMscf/month) [1]	Above 405 MMscf/month Limit? [2]
CTG 1	139.6		205		152	
CTG 1 Duct Burner	3.40		3.71		3.63	
Total CTG 1 & Duct Burner	**143**	**No**	**208**	**No**	**155**	**No**
CTG 2	225		214		229	
CTG 2 Duct Burner	4.17		3.77		4.55	
Total CTG 2 & Duct Burner	**229**	**No**	**217**	**No**	**233**	**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 - July 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,019	380	220	40	860	1,331
CTG 2 & Duct Burner	1,626	517	354	64	1,379	2,124
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 - August 2022

Source	Monthly Emissions (lb/month) [1] NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,478	515	321	59	1,254	1,930
CTG 2 & Duct Burner	1,557	495	335	61	1,308	2,013
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 - September 2022

Source	Monthly Emissions (lb/month) [1]					
	NOx [2]	CO	VOC	SOx	$PM_{10}/PM_{2.5}$	NH_3 [3]
CTG 1 & Duct Burner	1,107	369	239	43.9	934	1,446
CTG 2 & Duct Burner	1,635	479	359	65.1	1,402	2,162
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 3 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	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
April	0.0	1.9	0.0	21.3	10.0	0.29	0.07	0.00	0.07
May	0.0	1.2	0.0	13.4	6.3	0.18	0.05	0.00	0.04
June	0.0	1.6	0.0	17.9	8.4	0.24	0.06	0.00	0.05
July	0.5	2.0	0.0	28.0	13.1	0.38	0.10	0.01	0.09
August	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07
September	0.0	2.1	0.0	23.5	11.0	0.32	0.08	0.00	0.07
Q1 Total	**0.0**	**6.5**	**0.0**	**72.8**	**34.1**	**0.99**	**0.25**	**0.02**	**0.22**
Q2 Total	**0.0**	**4.7**	**0.0**	**52.6**	**24.7**	**0.72**	**0.18**	**0.01**	**0.16**
Q3 Total	**0.5**	**6.1**	**0.0**	**73.9**	**34.7**	**1.0**	**0.25**	**0.02**	**0.23**
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

July 07, 2022

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

Report No.: 2206335
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 June 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: 07/07/22
Submitted: 06/28/22
PLS Report No.: 2206335

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2206335-01) Sampled: 06/28/22 09:35 Received: 06/28/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4020**		1	mg/L	5.0	- SM 2540C	06/29/22	06/30/22	vc	BG20526

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG20526 - -										
Blank	**Prepared: 06/29/22 Analyzed: 06/30/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 06/29/22 Analyzed: 06/30/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2206335-01**	**Prepared: 06/29/22 Analyzed: 06/30/22**									
Total Dissolved Solids	3970	5.0	mg/L		4020			1.04	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: 6/28/22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 220695

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

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

OBSERVED TEMP 1.1°C

CORRECTED TEMP: 0.9°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

THERMO ID: 66

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				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	6-28-22	0935	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): JB JOHN BARIE

Date: 62822 Time: 0935

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 6-28-22 1005

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

July 14, 2022

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

Report No.: 2207048
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 July 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.

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: 07/14/22
Submitted: 07/07/22
PLS Report No.: 2207048

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2207048-01) Sampled: 07/07/22 09:25 Received: 07/07/22

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	07/11/22	07/12/22	vc	BG21326

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG21326 - -										
Blank	**Prepared: 07/11/22 Analyzed: 07/12/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/11/22 Analyzed: 07/12/22**									
Total Dissolved Solids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate **Source: 2207046-01**	**Prepared: 07/11/22 Analyzed: 07/12/22**									
Total Dissolved Solids	1070	5.0	mg/L		1060			1.72	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: 7.7.22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2207048

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 | OBSERVED TEMP 2.2°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 2.0°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 61

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									
	7.7.22	0925	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 7.7.22 | Time: 0926

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 7.7.22 1130

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

July 18, 2022

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

Report No.: 2207073
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 July 11, 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: 07/18/22
Submitted: 07/11/22
PLS Report No.: 2207073

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2207073-01) Sampled: 07/08/22 08:50 Received: 07/11/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4570**		1	mg/L	5.0	- SM 2540C	07/14/22	07/15/22	vc	BG21819

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG21819 - -										
Blank	**Prepared: 07/14/22 Analyzed: 07/15/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/14/22 Analyzed: 07/15/22**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2207073-01**	**Prepared: 07/14/22 Analyzed: 07/15/22**									
Total Dissolved Solids	4810	5.0	mg/L		4570			5.05	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: 7-11-22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2207073

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 | OBSERVED TEMP 0.9c

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 0.7 c

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	7-11-22	0850	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): Tom Barie | Date: 7-11-22 | Time: 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 7-11-22 1050

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

July 27, 2022

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

Report No.: 2207149
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 July 19, 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: 07/27/22
Submitted: 07/19/22
PLS Report No.: 2207149

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2207149-01) Sampled: 07/19/22 07:35 Received: 07/19/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4380**		1	mg/L	5.0	- SM 2540C	07/25/22	07/26/22	vc	BG22645

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG22645 - -										
Blank	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2207149-01**	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	4210	5.0	mg/L		4380			3.99	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: 7.9.22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2207149

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

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

OBSERVED TEMP 1.1°C

CORRECTED TEMP: 1.2°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

THERMO ID: 66

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				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE									
	7.9.22	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): John Barie

Date: 7.9.22 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 7.9.22 0940

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

July 29, 2022

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

Report No.: 2207207
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 July 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: 07/29/22
Submitted: 07/25/22
PLS Report No.: 2207207

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2207207-01) Sampled: 07/25/22 07:35 Received: 07/25/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4470**		1	mg/L	5.0	- SM 2540C	07/25/22	07/26/22	vc	BG22645

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BG22645 - -										
Blank	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2207149-01**	**Prepared: 07/25/22 Analyzed: 07/26/22**									
Total Dissolved Solids	4210	5.0	mg/L		4380			3.99	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: 7-25-22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2207207

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 | OBSERVED TEMP 10°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 9.8°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS	SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	7.25.22	0735	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 7-25-22 | 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 7.25.22 0920

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

August 09, 2022

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

Report No.: 2208033
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 August 03, 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: 08/09/22
Submitted: 08/03/22
PLS Report No.: 2208033

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2208033-01) Sampled: 08/03/22 08:25 Received: 08/03/22

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	08/04/22	08/05/22	vc	BH20832

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH20832 - -										
Blank	**Prepared: 08/04/22 Analyzed: 08/05/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/04/22 Analyzed: 08/05/22**									
Total Dissolved Solids	45.0	5.0	mg/L	50.00		90.0	80-120			
Duplicate **Source: 2208033-01**	**Prepared: 08/04/22 Analyzed: 08/05/22**									
Total Dissolved Solids	4020	5.0	mg/L		3980			1.13	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 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: 8.3.22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 1608033

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

OBSERVED TEMP 1.5°C

CORRECTED TEMP: 1.3°C

THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8.3.22	0825	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 8.3.22 Time: 0825

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 8.3.22 1130

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

August 15, 2022

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

Report No.: 2208070
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 August 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

File #:74548
Report Date: 08/15/22
Submitted: 08/08/22
PLS Report No.: 2208070

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2208070-01) Sampled: 08/08/22 10:25 Received: 08/08/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4420**		1	mg/L	5.0	- SM 2540C	08/11/22	08/12/22	vc	BH21531

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH21531 - -										
Blank	**Prepared: 08/11/22 Analyzed: 08/12/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/11/22 Analyzed: 08/12/22**									
Total Dissolved Solids	53.0	5.0	mg/L	50.00		106	80-120			
Duplicate **Source: 2208070-01**	**Prepared: 08/11/22 Analyzed: 08/12/22**									
Total Dissolved Solids	4380	5.0	mg/L		4420			0.796	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 8-8-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 2208070

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 | OBSERVED TEMP 1.2°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 1.0°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8-8-22	1025	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): Jerrbari | Date: 8-8-22 | Time: 1025

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 8-8-22 1115

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

August 22, 2022

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

Report No.: 2208135
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 August 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: 08/22/22
Submitted: 08/15/22
PLS Report No.: 2208135

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2208135-01) Sampled: 08/15/22 08:45 Received: 08/15/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4100**		1	mg/L	5.0	- SM 2540C	08/17/22	08/18/22	vc	BH21906

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH21906 - -										
Blank	**Prepared: 08/17/22 Analyzed: 08/18/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/17/22 Analyzed: 08/18/22**									
Total Dissolved Solids	48.0	5.0	mg/L				80-120			
Duplicate Source: 2208109-18	**Prepared: 08/17/22 Analyzed: 08/18/22**									
Total Dissolved Solids	2640	5.0	mg/L		2520			4.49	5	
Duplicate Source: 2208135-01	**Prepared: 08/17/22 Analyzed: 08/18/22**									
Total Dissolved Solids	4090	5.0	mg/L		4100			0.326	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: 8/15/22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 220835

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 | OBSERVED TEMP 10.0°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 08.0°C

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 66

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: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8/15/22	0845	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA | Received by (Signature & Name): JB John Barie | Date: 8/15/22 | Time: 0845

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 8/15/22 1205

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

August 31, 2022

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

Report No.: 2208238
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 August 23, 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: 08/31/22
Submitted: 08/23/22
PLS Report No.: 2208238

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2208238-01) Sampled: 08/23/22 08:10 Received: 08/23/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4020**		1	mg/L	5.0	- SM 2540C	08/29/22	08/30/22	vc	BH23030

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH23030 - -										
Blank	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	41.0	5.0	mg/L	50.00		82.0	80-120			
Duplicate **Source: 2208238-01**	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	4050	5.0	mg/L		4020			0.825	5	
Duplicate **Source: 2208277-03**	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	5420	5.0	mg/L		5560			2.48	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 Daren 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: 8-23-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 208838

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:

OBSERVED TEMP 2.3°C

CORRECTED TEMP: 2.1°C

THERMO ID: 66

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	8-23-22	8:10	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): Jambapt

Date: 8-23-22 Time: 0910

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 8-23-22 1015

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

September 06, 2022

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

Report No.: 2208307
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 August 29, 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: 09/06/22
Submitted: 08/29/22
PLS Report No.: 2208307

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2208307-01) Sampled: 08/29/22 08:40 Received: 08/29/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4040**		1	mg/L	5.0	- SM 2540C	08/29/22	08/30/22	vc	BH23030

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BH23030 - -										
Blank	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	41.0	5.0	mg/L	50.00		82.0	80-120			
Duplicate Source: 2208238-01	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	4050	5.0	mg/L		4020			0.825	5	
Duplicate Source: 2208277-03	**Prepared: 08/29/22 Analyzed: 08/30/22**									
Total Dissolved Solids	5420	5.0	mg/L		5560			2.48	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: 8.29.22 PAGE: 1 OF 7

FILE NO.: LAB NO.: 208307

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:

OBSERVED TEMP 1.1°C

CORRECTED TEMP: 0.9°C

THERMO ID: 60

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX				TAT	CONTAINER		ANALYSES REQUESTED								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								
	8.29.22	0840	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): NA

Received by (Signature & Name): Tim Bond

Date: 8.29.22 Time: 0940

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 8.29.22 1145

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

September 14, 2022

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

Report No.: 2209050
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 September 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.

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: 09/14/22
Submitted: 09/07/22
PLS Report No.: 2209050

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2209050-01) Sampled: 09/07/22 09:35 Received: 09/07/22

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	09/12/22	09/13/22	vc	BI21419

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI21419 - -										
Blank	**Prepared: 09/12/22 Analyzed: 09/13/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/12/22 Analyzed: 09/13/22**									
Total Dissolved Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate **Source: 2209050-01**	**Prepared: 09/12/22 Analyzed: 09/13/22**									
Total Dissolved Solids	4590	5.0	mg/L		4480			2.61	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: 9.7.22 PAGE: ____ OF ____

FILE NO.: ____ LAB NO.: 2209050

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

ADDRESS: 4963 SOTO ST. VERNON CA 90058 | OBSERVED TEMP 1.9°C

PROJECT MANAGER MATT RICHARDS | PHONE NO: | FAX NO: | CORRECTED TEMP: 10°

SAMPLER NAME: JOHN BARIE | SIGNATURE: | THERMO ID: 6C

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
	9.7.22	0935	COOLING TOWER BLOWDOWN	X				N	1	P	X	

Relinquished by (Signature& Name): MA | Received by (Signature & Name): John Barie | Date: 9.7.22 | Time: 0935

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 9.7.22 1200

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

September 20, 2022

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

Report No.: 2209127
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 September 13, 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: 09/20/22
Submitted: 09/13/22
PLS Report No.: 2209127

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2209127-01) Sampled: 09/13/22 09:00 Received: 09/13/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**3970**		1	mg/L	5.0	- SM 2540C	09/19/22	09/20/22	vc	BI22033

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI22033 - -										
Blank	**Prepared: 09/19/22 Analyzed: 09/20/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/19/22 Analyzed: 09/20/22**									
Total Dissolved Solids	42.0	5.0	mg/L	50.00		84.0	80-120			
Duplicate **Source: 2209127-01**	**Prepared: 09/19/22 Analyzed: 09/20/22**									
Total Dissolved Solids	4150	5.0	mg/L		3970			4.35	5	

Notes and Definitions

NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
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: 9.13.22 PAGE: 1 OF 1

FILE NO.: _____ LAB NO.: 2209127

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

OBSERVED TEMP 1.3°C

CORRECTED TEMP: 1.1°C

THERMO ID: 60

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	MATRIX: WATER	SOIL	SLUDGE	OTHER	TAT	CONTAINER: #	TYPE	ANALYSES REQUESTED: TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	9.13.22	09:20	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA | Received by (Signature & Name): Jam Barie | Date: 9.13.22 | Time: 09:20

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 9.13.22 1035

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

September 27, 2022

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

Report No.: 2209183
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 September 20, 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: 09/27/22
Submitted: 09/20/22
PLS Report No.: 2209183

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2209183-01) Sampled: 09/20/22 08:55 Received: 09/20/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4070**		1	mg/L	5.0	- SM 2540C	09/26/22	09/27/22	vc	BI22723

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BI22723 - -										
Blank	**Prepared: 09/26/22 Analyzed: 09/27/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 09/26/22 Analyzed: 09/27/22**									
Total Dissolved Solids	40.0	5.0	mg/L	50.00		80.0	80-120			
Duplicate Source: 2209183-01	**Prepared: 09/26/22 Analyzed: 09/27/22**									
Total Dissolved Solids	4070	5.0	mg/L		4070			0.0819	5	
Duplicate Source: 2209184-01	**Prepared: 09/26/22 Analyzed: 09/27/22**									
Total Dissolved Solids	1890	5.0	mg/L		1820			3.87	5	

Notes and Definitions

NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
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: 9-20-22 PAGE: 1 OF 1

FILE NO.: LAB NO.: 220983

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

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE: JB

OBSERVED TEMP 1.8°C

CORRECTED TEMP: 1.6°C

THERMO ID: 60

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		ANALYSES REQUESTED								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS								
	9/20/22	0855	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): JB John Barie

Date: 9.20.22 Time: 0855

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 9/20/22 1035

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

October 05, 2022

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

Report No.: 2209247
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 September 27, 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: 10/05/22
Submitted: 09/27/22
PLS Report No.: 2209247

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower Blowdown Water (2209247-01) Sampled: 09/27/22 09:25 Received: 09/27/22

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	**4080**		1	mg/L	5.0	SM 2540C	10/03/22	10/04/22	vc	BJ20442

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ20442 - -										
Blank	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	ND	5.0	mg/L							
LCS	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate **Source: 2209247-01**	**Prepared: 10/03/22 Analyzed: 10/04/22**									
Total Dissolved Solids	4240	5.0	mg/L		4080			3.72	5	

Notes and Definitions

NA	Not Applicable
ND	Analyte NOT DETECTED at or above the reported limit(s)
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: 9.27.22 PAGE: 1 OF 1

FILE NO.: LAB NO.:

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

AIRBILL NO:

ADDRESS: 4963 SOTO ST. VERNON CA 90058

OBSERVED TEMP 1.0°C

CORRECTED TEMP: 0.0°C

PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO:

SAMPLER NAME: JOHN BARIE SIGNATURE:

THERMO ID: 60

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				TAT	CONTAINER		TDS								SAMPLE CONDITIONS/ CONTAINER/COMMENTS
				WATER	SOIL	SLUDGE	OTHER		#	TYPE										
	9.27.22	0925	COOLING TOWER BLOWDOWN	X				N	1	P	X								

Relinquished by (Signature& Name): MA

Received by (Signature & Name): John Barie

Date: 9.27.22 Time: 0925

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 9.27.22 1020

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 3, 2022

CGT 1

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
7/14/2022	Cold Start	15:59	17:18	1:19
8/20/2022	Shutdown	0:01	0:09	0:08
8/24/2022	Cold Start	14:00	15:06	1:06
9/16/2022	Trip / Shutdown	13:29	13:29	0:00
9/26/2022	Cold Start	14:43	16:00	1:17

CGT 2

Date	Event Type [1]	Event Start	Event End	Duration (hrs:min)
7/15/2022	Shutdown	23:07	23:15	0:08
7/18/2022	Cold Start	15:43	16:54	1:11
8/27/2022	Shutdown	00:01	00:09	0:08
8/30/2022	Cold Start	13:58	15:04	1:06
9/30/2022	Shutdown	21:01	21:09	0:08

[1] A startup event is defined as initiation of combustion until the system becomes emissions compliant, for consistency with the Title V Permit definitions.

Malburg Generating Station
Appendix C, Table 2
Diesel Firewater Pump Testing Times
During Quarter 3, 2022

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
7/3/2022	22:11	342	342	Testing	0.0
7/6/2022	10:16	342	342.5	Maintenance	0.5
7/10/2022	21:18	342.5	343	Testing	0.5
7/17/2022	20:45	343	343.5	Testing	0.5
7/24/2022	19:26	343.5	344	Testing	0.5
7/31/2022	22:18	344	344.5	Testing	0.5
8/7/2022	20:14	344.5	345	Testing	0.5
8/14/2022	19:45	345	345.5	Testing	0.5
8/21/2022	23:17	345.5	346	Testing	0.5
8/28/2022	23:48	346	346.5	Testing	0.5
9/4/2022	23:21	346.5	347.1	Testing	0.6
9/11/2022	21:16	347.1	347.6	Testing	0.5
9/18/2022	17:50	347.6	348.1	Testing	0.5
9/25/2022	22:19	348.1	348.6	Testing	0.5

Appendix D
Diesel Fuel Oil Purchase Records

Invoice

INVOICE: 2100721-IN

INVOICE DATE: 4/11/2022
DUE DATE: 5/11/2022
SHIP DATE: 4/11/2022
SHIP VIA: 924
ORDER DATE: 4/1/2022
ORDER NUMBER: 2100721
CUSTOMER PO: 055.0002948
TERMS: N30
SALEPERSON: Todd Cripps
714-938-5714

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

ACCT NO (Bill-to): 01-0001045

CITY OF VERNON
4305 SANTA FE AVE
ATTN: DEPARTMENT D
VERNON, CA 90058
(323) 583-8811

ACCT NO (Ship-to) 01-0001045 103L

CITY OF VERNON-SOTO ST-L
4963 SOTO ST
VERNON, CA 90058

ITEM CODE	ITEM DESCRIPTION	QUANTITY ORDERED	QUANTITY DELIVERED	PACKAGE DESCRIPTION	EXTENDED QTY	UNIT PRICE	EXT PRICE
CH277210983D400	CH MEROPA 150 277210983 $3.39 PER TC	1 **Whse:** 101	1.00	400 LB DR	400.00	3.39000	1,356.00
422D055	DYED CARB ULS DIESEL NON TAXABLE USE ONLY - PENALTY FOR TAXABLE USE 15 PPM OR LESS SULFUR - MAY CONTAIN UP TO 5% BIODIESEL MTO/ $4.35 PER TC	2 **Whse:** 101	2.00	55 G DR	110.00	4.35000	478.50
Federal Lust						0.00100	0.11
Federal Oil Spill						0.00214	0.24
CA - AB 32 - DSL						0.00828	0.91
						4.36142	479.76
CH273204981D055	CH REGAL R&O ISO 150 273204981 FORMERLY - 273213981 1 BACKORDERED ON 2104708	0 **Whse:** 101	0.00	55 G DR	0.00	0.00000	0.00
/FUELCHLUBE	FUEL SURCHARGE LUBES						9.92
/RCFLUBE	REG COMPLIANCE FEE LUBES						12.95
DRUMDEPOSITC001	DRUM DEPOSIT FEE	3 **Whse:** 101	3.00	MISC CHRG	3.00	25.00000	75.00
MSRTNDRMC001	RETURN DRUM	0 **Whse:** 101	-2.00	MISC CHRG	2.00-	15.00000	30.00-

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:	1,903.63
Less Discount:	0.00
Freight:	0.00
Sales Tax:	190.52
Invoice Total:	2,094.15

- 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.

Appendix E
Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:08 **Location:** Vernon, California

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

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:08 **Location:** Vernon, California

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

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:09 **Location:** Vernon, California

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

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:09 **Location:** Vernon, California

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

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 VOC Startup/Shutdown

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:11 **Location:** Vernon, California

Tag Name: U1_VOC_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:11 **Location:** Vernon, California

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

Total Operating Time: 1,529.98 Hours

Non-Operating Time: 678.02 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 1 - CO ppmvdc 1-hour during Normal Operation

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:12 **Location:** Vernon, California

Tag Name: U1_CONormal_Ppmvdc_1H
Total Operating Time: 1,534.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,534.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 10:47 **Location:** Vernon, California

Tag Name: U1_NOxNormal_Ppmvdc_1H
Total Operating Time: 1,534.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,534.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:15 **Location:** Vernon, California

Tag Name: U1_VOCNormal_Ppmvdc_1H
Total Operating Time: 1,534.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,534.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:16 **Location:** Vernon, California

Tag Name: U1_NOx4H_Ppmvdc_1H
Total Operating Time: 1,534.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,534.00 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 - CO ppmvdc 3-hour Rolling during Normal Operation

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:36 **Location:** Vernon, California

Tag Name: U1_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 1,534.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**1,534.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:18 **Location:** Vernon, California

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

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:18 **Location:** Vernon, California

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

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U2 NOx Startup/Shutdown

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:20 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:20 **Location:** Vernon, California

Tag Name: U2_NOxRECLM_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:22 **Location:** Vernon, California

Tag Name: U2_VOC_LbPerHr_1M

SI = SampleInvalid, * = Excess Emission

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station

Generated: 10/20/2022 05:22 **Location:** Vernon, California

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

Total Operating Time: 2,053.93 Hours

Non-Operating Time: 154.07 Hours Report Time: 2,208.00 Hours

No invalid events were found in the reporting period.

Excess Emission Report

Unit 2 - CO ppmvdc 1-hour during Normal Operation

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:28 **Location:** Vernon, California

Tag Name: U2_CONormal_Ppmvdc_1H
Total Operating Time: 2,058.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 150.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**2,058.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:30 **Location:** Vernon, California

Tag Name: U2_NOxNormal_Ppmvdc_1H
Total Operating Time: 2,058.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 150.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**2,058.00 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: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:32 **Location:** Vernon, California

Tag Name: U2_VOCNormal_Ppmvdc_1H
Total Operating Time: 2,058.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 150.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**2,058.00 Hour(s)**
Total Duration (Online only):	**0.00 Hour(s)**
Time in exceedance as a percentage of operating time:	**0.00 %**
Time in compliance as a percentage of operating time:	**100.00 %**

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:33 **Location:** Vernon, California

Tag Name: U2_NOx4H_Ppmvdc_1H
Total Operating Time: 2,058.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 150.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**2,058.00 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 - CO ppmvdc 3-hour Rolling during Normal Operation

From: 07/01/2022 00:00 **To:** 09/30/2022 23:59 **Facility Name:** Malburg Generating Station
Generated: 10/20/2022 05:37 **Location:** Vernon, California

Tag Name: U2_CO_3HrRoll_Ppmvdc_1H
Total Operating Time: 2,058.00 Hour(s) **No Exclusions Allowed**
Non-Operating Time: 150.00 Hour(s) Report Time: 2,208.00 Hour(s)

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

Total Operating Time:	**2,058.00 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 %**