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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 <u>MRichards@cityofvernon.org</u> 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

Exclusively Industrial

Malburg Generating Station Quarterly Compliance Report (Third Quarter 2022)

Submitted to California Energy Commission

Submitted by City of Vernon, Public Utilities Department

October 28, 2022

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Acronyms and Abbreviations

CEC	California Energy Commission
CEMS	continuous emissions monitoring system
СО	carbon monoxide
СОС	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
PM10	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.

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.

Table 2-1. Required Quarter	y Compliance Repo	rt Documentation
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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.

Malburg Generating Station Quarterly Compliance Report (Third Quarter 2022)

Appendix A MGS Emission Calculations

Reporting Period: Quarter 3 2022

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

Sourco	Quarterly Emissions (lb/quarter)					
Jource	NOx	СО	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

Reporting Period: Quarter 3 2022

Table 2. Cooling	Tower Total Dissolve	d Solids (TDS) Sa	mplina Results '

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.

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)

PM₁₀ 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	12 500	
Pump (gal/min) ¹	13,500	
Number of Pumps	2	
Total Circulation Rate	27.000	
(gal/min)	27,000	
Water Density	0 22/	
(lb/gal)	8.334	
Drift Factor (%) ²	0.0005	
Correction Factor	0.3	
(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 PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁₀ Limit?
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	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 PM₁₀ 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.

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	12 500
(gal/min) ¹	13,500
Number of Pumps	2
Total Circulation Rate 27,000	
(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 PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁₀	
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	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 PM₁₀ 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.

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)

PM₁₀ 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	13 500
(gal/min) ¹	15,500
Number of Pumps	2
Total Circulation Rate	37.000
(gal/min)	27,000
Water Density (lb/gal)	8.334
Drift Factor (%) ²	0.0005
Correction Factor	0.2
(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 PM₁₀ Emissions

Dette	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁₀
Date	(gal/day) ¹	TDS (ppm)	(lb/day)	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 PM₁₀ 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.

Reporting Period: Quarter 3 2022

Table 6. Monthly Turbine-Duct Burner Fuel Flow

	July		August		September	
Source	Fuel Flow (MMscf/month) ¹	Above 405 MMscf/month Limit? ²	Fuel Flow (MMscf/month) ¹	Above 405 MMscf/month Limit? ²	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

Sourco	Monthly Emissions (lb/month) ¹						
Source	NOx ²	СО	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 NH₃ 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

Sourco	Monthly Emissions (lb/month) ¹							
Jource	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 NH₃ 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

Sourco	Monthly Emissions (lb/month) ¹						
Jource	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 NH₃ 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.

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.
СО	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

				3,					
Month	Monthly Hours of	of Operation ¹		Fuel Usage	Monthly E	missions (l	.b/month)		
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 f	or Maintenance and	Testing ³	50						

Total Annual Limit³ 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



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.

All



Certificate of Analysis

Page 2 of 2

Report Date: 07/07/22

PLS Report No.: 2206335

Submitted: 06/28/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

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

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BG2052	6										
Blank		Prepared: 0	6/29/22 Ana	lyzed: 06/30	/22						
Total Dissolved	d Solids	ND	5.0	mg/L							
LCS		Prepared: 0	6/29/22 Ana	lyzed: 06/30	/22						
Total Dissolved	d Solids	60.0	5.0	mg/L	50.00		120	80-120	<i>v</i>	·····	
Duplicate	Source: 2206335-01	Prepared: 0	6/29/22 Ana	lyzed: 06/30	/22						
Total Dissolved	d Solids	3970	5.0	mg/L		4020			1.04	5	

Notes and Definitions

NA Not Applicable ND Analyte NOT DETECTED at

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 Daven Par lin

Authorized Signature(s)

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	SL	US	781 East Wa	shington B	lvd., Lo	s Angeles	s, CA 900	121		~ 1 ~ 1	~ 14	-~`		-	DATE	6	2.2.	22 ^p	AGE: _ { OF
		AB SI	ERVICE	[213] 74	5-5312	FAX (213	8) 745-63	72						FILE 1	NO.:			LAB	NO.: 106945
CLIENT	'NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO	Э.	MALBU	RG GENEI	RATING S	TATION	WEEKL	Y	P.O. N	0.				AIRBILL NO:
ADDRE	SS:	4963 SO	ГО ST. VERNON CA 90058									Aľ	ALY	SES I	REQU	EST	ED		OBSERVED TEMP <u>1</u> ,/ ² 2
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:										CORRECTED TEMP (0.9)
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	:-B													THERMO ID:
TAT (Tu	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw;	P=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er									
UST PR	OJECT:	Y N	GLOBAL ID#:					I	-										
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION					TAT	CONT	AINER	SQ								SAMPLE CONDITIONS/
10	SAMPLED	SAMPLED			SOIL	SLUDGE	OTHER	N	#	D	LI V								CONTAINER/COMMENTS
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Relinqui	shed by (S	ignature&	Name):	Receive	ed by (S	Signature	& Nam	e):	L		Date:			Time:			SAM	IPLE	DISPOSITION
	LA		 2	5-30	n Bo	R				62	372	Õ	930	~			1. Sam	iples re	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (Signature	& Nam	e):			Date:			Time:			2. Sam	iples w	ill not be stored over 30 days,
																	unless	additic	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	ed by (Signature	& Nam	e):			Date:			Time:			3. Stor	rage tin	ne requested:days,
																	Ву:		Date:
SPECIA	L INSTR	UCTION	:																
			Arrived at the lab 6 26	22 /00=			<u></u>	- <u></u>											
FRESE	KVATIVE	: I-HNO3	Z-HZSU4 J-HUL 4- ZINC AC	EIALES	-NaOl	ארט ד ס-NH4	BUFF	=K /-	UTHE	ĸ									



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.

ect Manager



Certificate of Analysis

Page 2 of 2

City of Vernon 4963 Soto St. Vernon, CA 90058							F R S P	ile #:74548 eport Date: 0 ubmitted: 07/ ILS Report N	7/14/22 07/22 o.: 22 0	2 07048
Attn: Matt Richards	Pho	one: (32	3) 476-	3626	FAX:(32	23) 476-3640		•		
Project: Malburg Generat	ting Station We	ekly								
Sample ID: Cooling Tower B	lowdown Wa	ter (220)7048-()1) Sar	npled: 07	7/07/22 09:25 Rec	eived: 07/07/22			
Analyte	Results	Flag	D.F.	Units	PQL.	Prep/Test Metho	d Prepared	Anaiyzed	Ву	Batch
Total Dissolved Solids	4140		1	mg/L	5.0	- SM 25	40C 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: 0	7/11/22 Ana	lyzed: 07/12	/22						
Total Dissolved So	olids	ND	5.0	mg/L							
LCS		Prepared: 0	7/11/22 Ana	lyzed: 07/12	/22						
Total Dissolved So	lids	52.0	5.0	mg/L	50.00		104	80-120			
Duplicate	Source: 2207046-01	Prepared: 0	7/11/22 Ana	lyzed: 07/12	/22						
Total Dissolved So	lids	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

Fick Owen Tarlier

Authorized Signature(s)

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CLIENT	F NAME:	CITY OI	F VERNON	PROJE	CT N	AME/NG	о.	MALBU	IRG GENE	RATING S	TATION	WEEKLY	P.C	. NO.				AIRBILL NO:
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									AN.	ALYSE	S REQ	UEST	red		OBSERVED TEMP 222
PROJE	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 2.02
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	TURE	: L	0											THERMO ID: 61
TAT (T	urn-Arou	nd-Time):	0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw;	P=Plastic	; G=0	lass; V=	=VOA V	Vial;	O=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:					r										
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	r	TAT	CONT	AINER	s							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	E		_	_	-			CONTAINER/COMMENTS
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DRESE			2-H2SO4 3-HCL 4- 7INC AC	TATE 5	NaOl	H 6-NH4	BLIEF	FR 7-	OTHE	R							_	



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



Certificate of Analysis

Page 2 of 2

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 Wa	ter (220)7073-0)1) Sam	pled: 0	7/08/22	08:50 R	eceived:	07/11/22			
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Analyze	ed l	By Batch
Total Dissolved Solids	4570		1	mg/L	5.0	-	SM	2540C	07/14/22	07/15/2	22 7	vc BG21819
			Q	uality	Contro	ol Data	1					
						Spike	Source	t on state	%REC		RPD	
Analyte	Res	ult	PQL	ι	Jnits	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BG21819 ~ -												
Blank	Prep	pared: 07	/14/22	Analyzed	: 07/15/	22						
Total Dissolved Solids	NC)	5.0	n	ng/L							

100		Prepareo: u	07/14/22 Ana	iyzea: 07/15	122						
Total Dissoived	Solids	56.0	5.0	mg/L	50.00		112	80-120			
Duplicate	Source: 2207073-01	Prepared: 0	7/14/22 Ana	lyzed: 07/15	/22						
Total Dissolved	Solids	4810	5.0	mg/L		4570			5.05	5	_
											 ĩ

Notes and Definitions

NA Not Applicable

100

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 in

Authorized Signature(s)

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CLIENT NAME: CITY OF VERNON	PF	ROJEC	T NA	AME/NO).	MALBUI	RG GENEI	RATING ST	TATION	VEEKLY	I	2.O.N	0.				AIRBILL NO:
ADDRESS: 4963 SOTO ST. VERNON CA 900	58									ANA	ALYS	SES R	EQU	ESTI	ED		OBSERVED TEMP O. 9.2
PROJECT MANAGER MATT RICHARDS	PE	IONE N	0:			FAX	NO:										CORRECTED TEMP:
SAMPLER NAME: JOHN BARIE	SI	GNAT	URE	, P	~												THERMO ID:
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hou	r; 2=48H	Hour; (I	ETC.) N=Nor	mal												
CONTAINER TYPES: B=Brass; E=Encore/Easy Dra	aw; P=P	lastic;	G=G	lass; V=	VOAV	ial; ()=Oth	er									
UST PROJECT: Y N GLOBAL ID#:				• ••••													
SAMPLE DATE TIME SAMPLE DESCRIPTI	ON _		MA	TRIX		TAT	CONT	AINER	SS								SAMPLE CONDITIONS/
ID SAMPLED SAMPLED	W	VATER	SOIL	SLUDGE	OTHER		#	TYPE	E		+		-+				CONTAINER/COMMENTS
1/1/22 3950 COOLING TOWER BLOWD	OWN	x				N		P	X		-						
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			_					+									
								-									
								1									
Relinquished by (Signature& Name):	R		by (S	Signature	& Nam	e):	<u>.</u>	7	Date: -//:42		089	Time:			SAM	PLE	DISPOSITION eturned to client? Yes No
Relinquished by (Signature& Name):	R	eceived	l by (S	Signature	& Nam	e):			Date:			Time:			2. Sam unless	nples w additio	rill not be stored over 30 days, onal storage time is requested
Relinquished by (Signature& Name):	R	eceived	l by (S	Signature	& Nam	e):			Date			Time:			3. Stor By:	age tin	ne requested:days,
SPECIAL INSTRUCTION: Arrived at the lab	111.02	100	>														
PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZING	CACETA	ATE 5-1	NaOł	H 6-NH4	BUFFI	ER 7-	OTHE	R									



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



Certificate of Analysis

Page 2 of 2

Report Date: 07/27/22

PLS Report No.: 2207149

Submitted: 07/19/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

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

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	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

Pick Oven Parlin

Authorized Signature(s)

CHAIN OF CUSTODY AND ANALYSIS REQUEST																				
DATE: DATE:												77	<u>, 9.22</u> PAGE: OF							
Image: P LAB SERVICE [213] 745-5312 FAX [213] 745-5372 FILE NO.:													LAB NO .: 2207149							
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING S											TATION WEEKLY P.O.NO.								AIRBILL NO:	
ADDRESS: 4963 SOTO ST. VERNON CA 90058										ANALYSES REQUESTED								OBSERVED TEMP $(i^{i})^{\prime}$		
PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO									NO:										CORRECTED TEMP: 1.2 2	
SAMPLE	R NAME	2:	JOHN BARIE	SIGNA	TURE	: L	~												THERMO ID: 6	
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal													
CONTAI	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																			
UST PRO	UST PROJECT: Y N GLOBAL ID#:																			
SAMPLE	DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINE								AINER	s								SAMPLE CONDITIONS/		
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TD								CONTAINER/COMMENTS	
	7:9.22	-0735	COOLING TOWER BLOWDOWN	X				N	1	P	X									
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																			1	
Relinquis	hed by (Si	gnature&	Name):	Received by (Signature & Name):							Date: Time:						SAMPLE DISPOSITION			
ļ	INA			MR-	JE	m Bal	1e				1219.00 0135						1. Samples returned to client? Yes No			
Relinquis	hed by (Si	gnature&	Name):	Received by (Signature & Name):							Date: Time:						2. Samples will not be stored over 30 days,			
																	unless additional storage time is requested			
Relinquis	hed by (Si	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date: Time:					3. Storage time requested:days,				
ļ																	Ву:		Date:	
SPECIA	L INSTR	UCTION	Arrived at the lab) م أ	~															
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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



Certificate of Analysis

Page 2 of 2

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

File #:74548 Report Date: 07/29/22 Submitted: 07/25/22 PLS Report No.: 2207207

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower I	siowaown wa	cer (220	1207-0	L) Saiii	pieu. vi	1231260	Wan Kereiven			ana ang ang ang	
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
			Qı	uality (Contro	l Data					<i></i>

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BG2264	5										
Blank		Prepared: 0	17/25/22 Ana	lyzed: 07/26	/22						
Total Dissolved	d Solids	ND	5.0	mg/L		Males			4		
LCS		Prepared: 0	07/25/22 Ana	alyzed: 07/26	/22						
Total Dissolved Solids		60.0	5.0	mg/L	50.00		120	80-120			
Duplicate	Source: 2207149-01	Prepared: 0	17/25/22 Ana	alyzed: 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

Fick Owen Parlier

Authorized Signature(s)

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			IIVE 781 East Was	hington B (213) 74	lvd., Lo 5-5312	os Angeles FAX (21)	s, CA 900 3) 745-63)21 72						DAT	E:	27-2	ζP	PAGE: OF			
121212													FILE NO.: LAB NO.:_ 22076								
CLIENT NAME: CITY OF VERNON PROJECT NAME/NO. MALBURG GENERATING S											TATION WEEKLY P.O.NO.							AIRBILL NO:			
ADDRE	SS:	4963 SOT								ANA	LYSE	S REQ		OBSERVED TEMP 1-0 C							
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP			
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	:	·											THERMO ID: <u>60</u>			
TAT (Tı	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	rmal														
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; P	=Plastic	; G=C	lass; V=	=VOA V	/ial; (D=Oth	er											
UST PR	UST PROJECT: Y N GLOBAL ID#:																				
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION	MATRIX			1	TAT	T CONTAINER		s							SAMPLE CONDITIONS/			
D	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	1 T				┼──			CONTAINER/COMMENTS			
	1.22	0735	COOLING TOWER BLOWDOWN	X				N	1	Р	X										
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	ļ						1	<u> </u>		<u> </u>	 										
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					<u> </u>	ļ		-			<u> </u>			_							
																<u> </u>		ļ			
Relinqui	shed by (S	ignature&	Name):	Received by (Signature & Name):								Date: Time:						SAMPLE DISPOSITION			
	MA	/	J.	Jor	n Be	pē				1-2	522		0735			1. Sam	1. Samples returned to client? Yes No				
Relinqui	shed by (S	ignature&	Name):	Receive	ed by (Signature	& Nam	e):			Date: Time:				2. Samples will not be stored over 30 days,						
																unless	unless additional storage time is requested				
Relinqui	Relinquished by (Signature& Name):				Received by (Signature & Name):							Date:		me:		3. Stor	3. Storage time requested:days,				
																	By:Date:				
SPECIA	L INSTR	UCTION	:																		
			Arrived at the lab $\mathcal{D} \mathcal{L} \mathcal{T}' \mathcal{L}$	2 692	J																
PRESE	RVATIVE	E 1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaO	H 6-NH4	BUFF	ER 7-	OTHE	R											



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


Page 2 of 2

Report Date: 08/09/22

PLS Report No.: 2208033

Submitted: 08/03/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower F	Blowdown Wa	ter (220	8033-0)1) Sam	pled: 0	8/03/22	08:25 R	eceived:	08/03/22				
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Analy	/zed	Ву	Batch
Total Dissolved Solids	3980		1	mg/L	5.0	-	SM	2540C	08/04/22	08/0	5/22	VC	BH20832
			Q	uality	Contro	ol Data	1						
						Spike	Source		%REC		RPD		
Analyte	Res	ult	PQL		Jnits	Level	Result	%REC	Limits	RPD	Limit	Qua	alifier
Batch BH20832				19 AN AN A									
Blank	Prej	pared: 08	/04/22	Analyzed	: 08/05/	22							
Total Dissolved Solids	NC)	5.0	r	ng/L		. 						

LCS		Prepared: 0	8/04/22 Ana	lyzed: 08/05	/22						• • *	
Total Dissolved S	olids	45.0	5.0	mg/L	50.00	A	90.0	80-120		~~~~~		
Duplicate	Source: 2208033-01	Prepared: 0	8/04/22 Ana	lyzed: 08/05	/22							
Total Dissolved S	olids	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

Fick Owen Parlies

CAB SERVICE In Cash maging Drive, Us a range as Chr. 30421 DATE SC. 2017 IAB NO.: 1041 In Cash maging Drive, Us a range as Chr. 30421 CLEAR TRANE: CHEAR TRANE PROJECT NAME/NO. MALENCE GENERATING STATURS WORAW IAB NO.: 1041 IAB NO.: 1041 ADDRESS: 4963 SOTO ST. VERNON CA 90658 ANALYSES REQUESTED OBSERVED FROM [32] OBSERVED FROM [32] OBSERVED FROM [32] OBSERVED FROM [32] CONRECTED FROM [32] OBSERVED		ΔP	OS		IN OI	F CU			ND A	NAI	LYSI	S RI	EQUE	ST		- 0.	· · · ·	a	AGE- / OF (
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 / ₂ ^{4/2} . OBSERVED TEMP. ¹ / ₂ ^{4/2} . OBSERVED TEMP. ¹ / ₂ ^{4/2} . CORRECTED TEMP. ¹ / ₂ ^{4/2} . THERMO DD. ^{1/2} . THERMO DD. ^{1/2} . THERMO DD. ^{1/2} . THERMO DD. ^{1/2} . CORRECTED TEMP. ^{1/2} . CORRECTED TEMP. ^{1/2} . THERMO DD. ^{1/2} . SAMPLE DESCRIPTION TAIL ESCONTAINER THERMO DD. ^{1/2} . SAMPLE DESCRIPTION XI SAMPLE DISCONTAINER TORE SAMPLE DESCRIPTION XI SAMPLE DISCONTAINER/CON	al J		AB SI	ERVICE	(213) 74	5-5312	FAX (21)	3) 745-63	72					FILE	DATI E NO.:_	5. <u>8</u> _	<u>s. c.</u>	LAB	NO .: MADA
ADDRESS: 4963 SOTO ST. VERNON CA 90058 ANALYSES REQUESTED OBSERVED TEMP./3/2_ PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP./3/2_ SAMPLER NAME: JOHN BARIE SIGNATURE: John Signature Tat Contrained Time: OBSERVED TEMP./3/2_ CONTAINER TYPES: Behass; E-Encore/Easy Draw; P=Plastic; G-Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#: Matrix Tat Contrainer Sample Sample Conditions/ D SAMPLE Description Matrix Tat Contrainer # Type D SAMPLE Description Matrix Tat Contrainer # Sample conditions/ D SAMPLE Description Matrix N 1 P X D D B Sample source Contrainer # Type Contrainer # Sample conditions/ D Sample source Received by (Signature & Name): D D D D D D D MA	CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	P.O.	NO.				AIRBILL NO:
PROJECT MANAGER MATT RICHARDS PHONE NO: FAX NO: CORRECTED TEMP. 1/2 × SAMPLER NAME: JOHN BARIE SIGNATURE: John BARIE SIGNATURE: John Barie CORRECTED TEMP. 1/2 × TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48 Hour; (ETC.) N=Normal Image: Container for the for t	ADDRES	SS:	4963 SOT	FO ST. VERNON CA 90058									ANA	LYSES	REQI	UEST	ED		OBSERVED TEMP 1.5°C
SAMPLER NAME: JOHN BARIE SIGNATURE: The TAT (Turn-Around-Time): 0-Same Day; 1=24 Hour; 2=4	PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:									CORRECTED TEMP: 13 必
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#: Date: SAMPLE SAMP	SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	. Ir	-											THERMO ID:
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other Sample	TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal											
UST PROJECT: Y N GLOBAL ID#: SAMPLE SAMPLE DATE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER SAMPLE SAMPLE DESCRIPTION MATRIX TAT CONTAINER SAMPLE SAMPLE DESCRIPTION MATRIX TAT CONTAINER SAMPLE CONDITIONS/ CONTAINER/COMMENTS B SAMPLED SAMPLED SAMPLE DESCRIPTION MATRIX TAT CONTAINER/COMMENTS CONTAINER/COMMENTS B SAMPLED COOLING TOWER BLOWDOWN X N I P X I </td <td>CONTA</td> <td>INER TY</td> <td>PES: B=B</td> <td>Brass; E=Encore/Easy Draw; H</td> <td>Plastic</td> <td>; G=6</td> <td>lass; V=</td> <td>=VOA V</td> <td>/ial; (</td> <td>)=Oth</td> <td>er</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; H	Plastic	; G=6	lass; V=	=VOA V	/ial; ()=Oth	er								
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ID SAMPLED WATER SOIL SLUDGE OTHER # TYPE Ž CONTAINER/COMMENTS B3: 22 D2 VS COOLING TOWER BLOWDOWN X N 1 P X Image: Solution of the solution o	SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	Т	TAT	CONT	AINER								SAMPLE CONDITIONS/
B3: 22 D3: 23 COOLING TOWER BLOWDOWN X N 1 P X Image: Strate interview of the strate interview of th	ID .	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	ТҮРЕ	TD							CONTAINER/COMMENTS
Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: SAMPLE DISPOSITION Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 3 Storage time requested		B3.22	0825	COOLING TOWER BLOWDOWN	X				N	1	Р	X		_					
Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: SAMPLE DISPOSITION Relinquished by (Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Date: Time: 3 Storage time requested: days															<u> </u>		<u> </u>		
Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: SAMPLE DISPOSITION MA Mapping Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Date: Time: Storage time is requested																	<u> </u>		
Relinquished by (Signature & Name): Date: Time: SAMPLE DISPOSITION MA Image: Samples returned to client? Yes No Samples returned to client? Yes No Relinquished by (Signature & Name): Date: Time: Storage time requested Storage time requested: days								<u> </u>									<u> </u>		
Relinquished by (Signature & Name): Date: Time: SAMPLE DISPOSITION M Image: Second by (Signature & Name): Date: Time: Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 2. Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Date: Time: 3. Storage time requested: days						ļ											<u> </u>		
Relinquished by (Signature & Name): Date: Time: SAMPLE DISPOSITION MA Image: Time: 000000000000000000000000000000000000	<u> </u>						<u> </u>		ļ					_			<u> </u>		
Relinquished by (Signature & Name): Date: Time: SAMPLE DISPOSITION MA Image: Ima	ļ																		
MA John Ball B:3.22 Occident 1. Samples returned to client? Yes No Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 2. Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 3. Storage time requested: days	Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):		~	Date:		Time	e:		SAM	PLE	DISPOSITION
Relinquished by (Signature & Name): Date: Time: 2. Samples will not be stored over 30 days, unless additional storage time is requested Relinquished by (Signature & Name): Received by (Signature & Name): Date: Time: 3. Storage time requested: days		MA		J.	D I	mr [bari				8	3.22	-	Ω.	rs		1. Sam	iples ret	turned to client? Yes No
Relinquished by (Signature & Name); Received by (Signature & Name); Date: Time: 3 Storage time requested days	Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		2. Sam	iples wi	ill not be stored over 30 days,
Relinquished by (Signature & Name); Received by (Signature & Name); Date: Time: 3 Storage time requested days									,								unless	additio	nal storage time is requested
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By:Date:																	By:		Date:
SPECIAL INSTRUCTION:	SPECIA	L INSTR	UCTION:	Arrived at the lab		•													
G. J. 22 1/JU				63,	v 1/j	<u>ں</u>													



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.

Project Manager



Page 2 of 2

Report Date: 08/15/22

PLS Report No.: 2208070

Submitted: 08/08/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

										_	
Sample ID: Cooling Tower B	lowdown Wa	ter (220	8070-0	1) Sam	pled: 08	3/08/22 1	0:25 Received	: 08/08/22			
Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4420		1	mg/L	5.0	-	SM 2540C	08/11/22	08/12/22	VC	BH21531
			Q	uality (Contro	ol Data					

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BH21531 -											
Biank		Prepared: 08,	/11/22 /	\nalyzed: 08/12/	22				<u></u>		
Total Dissolved S	olids	ND	5.0	mg/L							
LCS		Prepared: 08,	/11/22 /	Analyzed: 08/12/	'22						
Total Dissolved S	olids	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 S	olids	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

Fick Poven Parlier

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			IIIVE 781 East Wa ERVICE	shington B (213) 74	ivd., La 5-5312	s Angeles FAX (213	s, CA 900 8) 745-63	21 72					FI	DAT	ге <u>В-</u> :	8-22	P LAB	AGE: <u> </u>
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENER	ATING S	TATION	WEEKLY	P.	0.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALYSI	ES REQ	UEST	ED		OBSERVED TEMP 1-2-2
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:									CORRECTED TEMP: <u>し</u>
SAMPL	ER NAMI	2:	JOHN BARIE	SIGNA	ГURE	1												THERMO ID:
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	=48Hour;	(ETC	.) N=Nor	mal											
CONTA	NTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other ST PROJECT: Y N GLOBAL ID#:																	
UST PR	ST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	ATRIX	1	TAT	CONTA	AINER	s							SAMPLE CONDITIONS/
ID .	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	ТҮРЕ	T							CONTAINER/COMMENTS
ļ	g-g.r	1325	COOLING TOWER BLOWDOWN	X				N	1'	Р	X							; [
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Relinqui	shed by (Si	ignature&	Name):	Receive	d by (S Ern	Signature	& Nam	e):		Ę	Date:	- 22	ಗ ರ	me: 2ズ		SAM	IPLE	DISPOSITION turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		2. Sam	iples wi	ill not be stored over 30 days,
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		3. Stor	rage tim	e requested:days,
SPECIA	L INSTR	UCTION:	Arrived at the lab Q-G	, , , , , , , , , , , , , ,	ว <i>ั</i> -NaOt	1 6-NH4	BUFFF	R 7-	OTHEF	2								



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.

Y Project Manager



Page 2 of 2

Report Date: 08/22/22

PLS Report No.: 2208135

Submitted: 08/15/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower	Blowdown Wa	ter (220)8135-()1) Sam	pled: 0	8/15/22 0	8:45 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
			Q	uality (Contro	ol Data					

					Spike	Source		%REC		RPD	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BH21906											
Blank		Prepared: 0	8/17/22 An	alyzed: 08/18/2	22						
Total Dissolved	Solids	ND	5.0	mg/L							
LCS		Prepared: 0	8/17/22 An	alyzed: 08/18/2	22						
Total Dissolved	Solids	48.0	5.0	mg/L				80-120			
Duplicate	Source: 2208109-18	Prepared: 0	8/17/22 An	alyzed: 08/18/2	22						
Total Dissolved	Solids	2640	5.0	mg/L		2520			4.49	5	
Duplicate	Source: 2208135-01	Prepared: 0	8/17/22 An	alyzed: 08/18/2	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 Par li

	n			IN OF	T CU	STOD	Y A	ND A	NAI	LYSI	S RI	EOL	JES	Т				
			TRVICE 781 East Was	hington B (213) 74	lvd., La 5-5312	s Angeles FAX (213	s, CA 900 3) 745-63	121 172				• • •		FILE	DATE; NO.:	915	<u>~27</u> 	PAGE: OF AB NO.: 1108/35
CLIENT	NAME:	CITY OI	FVERNON	PROJE	CT N	AME/NO	Э.	MALBU	RG GENEI	RATING S	TATION	WEEKL	Y	P.O.N	í O.			AIRBILL NO:
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									AN	ALY	SES I	REQUI	ESTE	D	OBSERVED TEMP 10 °C
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:									corrected temp: <u>ク</u> ジ ^{ッレ}
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: T>												THERMO ID: <u>66</u>
TAT (Tı	ırn-Arour	1d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal											
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; P	-Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er								
UST PR	ST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX	1	TAT	CONT	AINER								SAMPLE CONDITIONS/
D	SAMPLED	SAMPLED	· · · · · · · · · · · · · · · · · · ·	WATER	soil	SLUDGE	OTHER		#	TYPE	TDS					\square		CONTAINER/COMMENTS
<u> </u>	8-15-22	0845	COOLING TOWER BLOWDOWN	X	ļ			N	1	Р	Х							
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Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		s	AMPI	LE DISPOSITION
	.MA	-	J	-Jer	-nRz	ñ				Ð	151	U	đ	345	/	1	Sample	es returned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		2	Sample	es will not be stored over 30 days,
																u	niess ado	ditional storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		3	. Storage	e time requested:days,
																В	y:	Date:
SPECIA	L INSTR	UCTION	· Arrived at the lab															
			Antived at the tab	22 1	$\omega \varsigma$													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	NaOl	16-NH4	BUFFE	ER 7-	OTHE	R								· · ·



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.

All Project Manager



Page 2 of 2

Report Date: 08/31/22

PLS Report No.: 2208238

Submitted: 08/23/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep)/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4020		1	mg/L	5.0	-	SM 2540C	08/29/22	08/30/22	٧C	BH23030
			Qı	uality (Contro	l Data					

Duplicate	Source: 2208238-01	Prepared:	08/29/22 An	alyzed: 08/30	/22				
Total Dissolved S	ollds	41.0	5.0	mg/L	50.00	82.0	80-120		
LCS		Prepared:	08/29/22 Ani	alyzed: 08/30	/22				
Total Dissolved S	olids	ND	5.0	mg/L					
Blank		Prepared:	08/29/22 Ana	alyzed: 08/30	/22				
Batch BH23030 -	•								
Analyte		Result	PQL	Units	Level Re	esult %REC	Limits	RPD Lim	it Qualifier
		a segue de la presenta de la segue de pre					والمحمد فالمحمول والمحمد فالترجي والمحمد والمتحاد		

Total Dissolved	Solids	4050	5,0	mg/L	4020	0.825	5	
Duplicate	Source: 2208277-03	Prepared: 0	8/29/22 Ana	lyzed: 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

Fick Varen Par an

Authorized Signature(s)

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			781 East Was	hington Bl (213) 74	lvd., Lo 5-5312	s Angeles FAX (213	s, CA 900 8) 745-63	21 72						D	ate: <u>2</u>	23-2	-2 ^P	PAGE:OF
	× 1]	FILE N	0.:		LAB	NO.: 498678
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N.	AME/NO).	MALBUI	RG GENER	ATING S	TATION	WEEKLY	<u>۲</u>	P.O.NC),		~	AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALY	SES R	EQUES	TED	г	OBSERVED TEMP <u>6.5 C</u>
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX N	NO:							_	ļ	CORRECTED TEMP: 2./2
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	; fo-						ľ						THERMO ID: $\frac{60}{2}$
TAT (Tı	ırn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC.) N=Nor	mal											
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER 	s							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE						_		CONTAINER/COMMENTS
	62322	BID	COOLING TOWER BLOWDOWN	X				N	1	P	X						<u> </u>	
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Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		SAN	APLE	DISPOSITION
	IM			25	Jer Ver	ngape					92	1.02	(JAN .		1. Sa	mples re	eturned to client? Yes No
Relinqui	ished by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date			Time:		2, Sa	mples v	vill not be stored over 30 days,
																unles	s additi	onal storage time is requested
Relinqui	ished by (S	ignature&	z Name):	Receive	d by (Signature	& Nam	ie):			Date			Time:		3. Sto	orage tii	me requested:days,
																By:		Date:
SPECIA	AL INSTR	UCTION	:	•	,													
			Arrived at the lab \mathcal{OV}_{j} .	i lol	5													
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	- 6-NH4	BUFF	ER 7-	OTHE	R								



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.

Alle Project Manager



Page 2 of 2

File #:74548 Report Date: 09/06/22 Submitted: 08/29/22 **PLS Report No.: 2208307**

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep/	Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4040		1	mg/L	5.0	-	SM 2540C	08/29/22	08/30/22	VC	BH23030
			Qı	uality (Contro	ol Data					

Analyte		Result	PQL	Units	Spike Level	Source Result	%REC	 Limits	RPD	RPD Limit	Qualifier
Batch BH23030	••										
Blank		Prepared: 08	3/29/22	Analyzed: 08/30/	22	<u>n</u>					
Total Dissolved	Solids	ND	5.0	mg/L							
LCS		Prepared: 08	3/29/22	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	3/29/22	Analyzed: 08/30/	22						
Total Dissolved	Solids	4050	5.0	mg/L		4020			0.825	5	
Duplicate	Source: 2208277-03	Prepared: 08	3/29/22	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

Pick Doven Parties

Authorized Signature(s)

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							-]	FILEN	10.: <u> </u>		L	<u>AB N.</u>	0.: <u>W370 </u>
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENEI	RATING S	TATION	WEEKI	Y	P.U.N	J. –	~~~~		A	IRBILL NO:
ADDRES	SS:	4963 SO1	ГО ST. VERNON CA 90058											SES R	EQUE	STE		0	$BSERVED TEMP(\cdot) \subset \mathcal{O}(\mathcal{O}).$
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:									$-+^{c}$	ORRECTED TEMP: <u>2.7</u> C
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: Jr												T	HERMO ID
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er									
UST PR	DJECT:	Y N	GLOBAL ID#:	*					1									Ļ	
SAMPLE	DATE	TIME	SAMPLE DESCRIPTION		MA I	ATRIX	<u> </u>	TAT	CONT	AINER T	ş							S	AMPLE CONDITIONS/
ſD	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	Ę							<u> </u>	CONTAINER/COMMENTS
	812412	0840	COOLING TOWER BLOWDOWN	X				N	1	Р	X					_			
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Relinaui	hed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):	4.		Date			Time:		5	SAMP	LE D	ISPOSITION
N	NA	- O	J	- 5	mÀ	la W		,		B	2423		17Y	10			. Sampl	les retur	med to client? Yes No
Relinqui	shed by (S	ionature&	Name)	Receive	d by (Sionature	& Nam	e).			Date		001	Time:			Sampl	les will	not be stored over 30 days.
rteiniqui	shed by (b	ignaturea	i fulloj.	1000110		Januare).			2 400						inless a	dditiona	al storage time is requested
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SPECIA	L INSTR	UCTION	: Arrived at the lab $\hat{Q}_{\mathcal{D}\mathcal{A}}$																
				TATES	NoOl		RIICC	<u>= D 7</u>		P									



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.

A



Page 2 of 2

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

File #:74548 Report Date: 09/14/22 Submitted: 09/07/22 PLS Report No.: 2209050

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

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D,F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	By	Batch
Total Dissolved Solids	4480		1	mg/L	5.0	-	SM 2540C	09/12/22	09/13/22	vc	BI21419
			Qı	uality (Contro	ol Data					

					эріке	Source		JUNEC		ιν μ	
Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BI21419)										
Blank		Prepared:	09/12/22	Analyzed: 09/13	3/22						
Total Dissolve	d Solids	ND	5.0	mg/L							
LCS		Prepared:	09/12/22	Analyzed: 09/13	3/22						
Total Dissolve	d Solids	60.0	5.0	mg/L	50.00		120	80-120			
Duplicate	Source: 2209050-01	Prepared:	09/12/22	Analyzed: 09/13	3/22						
Total Dissolve	d 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

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	AIN OI	F CU			ND A	NAI	LYSI	S RI	EQU	EST	5.47		1 :2.2	P	AGE: OF
	(213) 74	5-5312	FAX (21	3) 745-63	72					FI	LE NO.:	E: <u></u>	<u> </u>	LAB	NO.: 209050
CLIENT NAME: CITY OF VERNON	PROJE	CT N	AME/N	о.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	<u> </u>	0.NO.				AIRBILL NO:
ADDRESS: 4963 SOTO ST. VERNON CA 90058									AN	ALYSI	ES REQ	UEST	ED		observed temp <u>1.</u> 9 ² C
PROJECT MANAGER MATT RICHARDS	PHONE	NO:			FAX I	NO:									CORRECTED TEMP: <u>/ () ⁹</u>
SAMPLER NAME: JOHN BARIE	SIGNA	TURE	\sim												THERMO ID: <u>6</u>
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Noi	rmal											
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw;	P=Plastic	; G=0	lass; V=	=VOA V	/ial; ()=Oth	er								
UST PROJECT: Y N GLOBAL ID#:					-	<u>.</u>									
SAMPLE DATE TIME SAMPLE DESCRIPTION		MA T	TRIX	<u>1</u>	TAT	CONT	AINER	s							SAMPLE CONDITIONS/
ID SAMPLED SAMPLED	WATER	SOIL	SLUDGE	OTHER		#	TYPE	тD			_				CONTAINER/COMMENTS
1-7.22 09.25 COOLING TOWER BLOWDOWN	<u> </u>				N	1	Р	Х					<u> </u>		
	_														
					<u> </u>										
											_				
		<u> </u>													
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):		a	Date:		Ti	me:		SAM	IPLE [DISPOSITION
	5	S	1/añe				/`	7.22		735			1. Sam	ples ret	turned to client? Yes No
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		2. Sam	iples wi	ill not be stored over 30 days,
													unless	additio	nal storage time is requested
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		3. Stor	age tim	e requested:days,
													Ву:		Date:
SPECIAL INSTRUCTION:															
	2 1200	ر 					_								
PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC AC	ETATE 5	-NaOł	+6-NH4	BUFFE	ER 7-	OTHE	R								



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.

/ XII Project Manager



Page 2 of 2

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

File #:74548 Report Date: 09/20/22 Submitted: 09/13/22 PLS Report No.: 2209127

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

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL.	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	3970		1	mg/L	5.0		SM 2540C	09/19/22	09/20/22	VC	BI22033
			Q	uality (Contro	ol Data					

Analyte		Result	POL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
n-t-b prod022											
Blank		Prepared: 0	9/19/22 Ana	lyzed: 09/20	/22						
Total Dissolved	d Solids	ND	5.0	mg/L	•					×	
LCS		Prepared: 0	19/19/22 Ana	lyzed: 09/20	/22						
Total Dissolved	d Solids	42.0	5.0	mg/L	50.00		84.0	80-120			
Duplicate	Source: 2209127-01	Prepared: 0	19/19/22 Ana	lyzed: 09/20	/22						
Total Dissolved	d 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

Fick Owen Par

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781 East W	ashington B (213) 74	lvd., Lo 5-5312	s Angeles FAX (213	s, CA 900 31 745-63	121 172						Ľ	ATE:(73.27	<u> </u>	PAGE: OF_/
MMP LABSERVICE)	FILE N	0.:		LAB	NO.: <u>000100</u>
CLIENT NAME: CITY OF VERNON	PROJE	CT N	AME/NO	Э.	MALBU	RG GENEI	RATING ST	TATION	WEEKL	x 1	P.O.NO).			AIRBILL NO:
ADDRESS: 4963 SOTO ST. VERNON CA 90058									AN	ALY	SES R	EQUES	TED		OBSERVED TEMP 1. ? "
PROJECT MANAGER MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1/ 2
SAMPLER NAME: JOHN BARIE	SIGNA	TURE	: Fr												THERMO ID:
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Nor	mal											
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw;	P=Plastic:	; G=G	lass; V=	=VOA V	/ial; (O=Oth	er								
UST PROJECT: Y N GLOBAL ID#:															
SAMPLE DATE TIME SAMPLE DESCRIPTION		MA	TRIX		TAT	CONT	AINER								SAMPLE CONDITIONS/
ID SAMPLED SAMPLED	WATER	SOIL	SLUDGE	OTHER		#	TYPE	TDS					_		CONTAINER/COMMENTS
913-22 9 cooling tower blowdown	х				N	1	P	Х							
											_				
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		SAN	- APLE	DISPOSITION
MA	- Ju	3ml	Sanz				C	1-13-7	22	00	Tea.		1. Sa	nples re	eturned to client? Yes No
Relinquished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		2. Sa	mples w	vill not be stored over 30 days,
													unles	s additi	onal storage time is requested
Relinguished by (Signature& Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:		3. Sto	orage tir	me requested: days.
			0		<i>'</i>								By:	Ų	Date:
SPECIAL INSTRUCTION:															
Arrived at the lab $\mathcal{O}(,)$	3-22 10	35													
PRESERVATIVE 1-HNO3 2-H2SO4 3-HCL 4- ZINC A	CETATE 5	-NaOł	H 6-NH4	BUFFE	ER 7-	OTHE	R								



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.

XI Project Manager



Page 2 of 2

Report Date: 09/27/22

PLS Report No.: 2209183

Submitted: 09/20/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Tower	Blowdown Wa	ter (220	9183-0	1) Sam	pled: 09)/20/22 0	8:55 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
			Q	uality (Contro	ol Data					

			<u>es es es e</u>		Spike	Source		%REC		RPD	
Analyte	entre erzeiter	Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BI22723											
Blank		Prepared: 0	9/26/22	Analyzed: 09/27/2	2	<u> </u>					
Total Dissolved	Solids	ND	5.0	mg/L							
LCS		Prepared: 0	9/26/22	Analyzed: 09/27/2	2						
Total Dissolved	Solids	40.0	5.0	mg/L	50.00		80.0	80-120			
Duplicate	Source: 2209183-01	Prepared: 0	9/26/22	Analyzed: 09/27/2	2						
Total Dissolved	Solids	4070	5.0	mg/L		4070			0.0819	5	
Duplicate	Source: 2209184-01	Prepared: 0	9/26/22	Analyzed: 09/27/2	2						
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 Parlein

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			ERVICE	snington B (213) 74	iva., Lo 5-5312	FAX (21)	s, ca 900 3) 745-63	521 172					FI	DAT LE NO.:	E:/~		LAB	NO.: 2209 83
CLIENT	NAME:	CITY OF	VERNON	PROJE	<u>CT N</u>	AME/N	0.	MALBU	RG GENEI	RATING S	TATION	WEEKLY	/ P.	0.NO.				AIRBILL NO:
ADDRES	SS:	4963 SOT	O ST. VERNON CA 90058									AN	ALYSI	ES REQ	UEST	ED		observed temp <u>1,8°</u>
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX I	NO:									CORRECTED TEMP: 1.6 2
SAMPLER NAME: JOHN BARIE SIGNATURE: J												THERMO ID:						
TAT (Turn-Around-Time): 0=Same Day; 1=24 Hour; 2=48Hour; (ETC.) N=Normal																		
CONTA	NER TY	PES: B=B	rass; E=Encore/Easy Draw;	P=Plastic	; G=G	lass; V	=VOA V	Vial; (D=Oth	er								
UST PROJECT: Y N GLOBAL ID#:																	CAMPLE COMPUTIONS/	
SAMPLE	DATE	TE TIME SAMPLE DESCRIPTION MATRIX TAT CONTAINER			TVBE	so							CONTAINED/COMMENTS					
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	NA	-		F	Tor	n Bej	2			Ľ	0.1	5	085	5		1. Sam	nples re	turned to client? Yes No
Relinquis	hed by (S	ignature&	Name):	Receive	d by (S	Signature	e & Nam	ıe):			Date:		Ti	me:		2. San	nples wi	ill not be stored over 30 days,
																uniess	additio	onal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	ed by (Signature	e & Nam	ne):			Date:		Ti	me:		3. Stor	rage tim	ne requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION:	Arrived at the lab \mathcal{G}_{Λ}	- n. I.	,													
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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.

Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 10/05/22

PLS Report No.: 2209247

Submitted: 09/27/22

File #:74548

City of Vernon 4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

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

Project: Malburg Generating Station Weekly

Analyte	Results	Flag	D.F.	Units	PQL	Prep	/Test Method	Prepared	Analyzed	Ву	Batch
Total Dissolved Solids	4080		1	mg/L	5.0	-	SM 2540C	10/03/22	10/04/22	VC	BJ20442
			Qı	uality (Contro	ol Data					

Analyte		Result	PQL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch BJ20442											
Blank		Prepared: :	10/03/22 Ana	lyzed: 10/04	/22				<u>, , , , , , , , , , , , , , , , , , , </u>		
Total Dissolved	Solids	NÐ	5.0	mg/L							
LCS		Prepared: :	10/03/22 Ana	lyzed: 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 Ana	lyzed: 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

Fick Owen Par lier

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		NB S	ERVICE	(213) 74	5-5312	FAX (21)	3] 745-63	172						FILE	NO.:	14	<u>, , , ,</u>	LAB	NO.:
CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO	D.	MALBU	RG GENEI	RATING S	FATION	WEEKL	Y	P.O.N	0.				AIRBILL NO:
ADDRE	SS:	4963 SOT	ΓΟ ST. VERNON CA 90058									AN	IALY	SES F	REQUE	ESTI	ED		OBSERVED TEMP 1. 0 2
PROJE	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:										CORRECTED TEMP: DAZa
SAMPL	ER NAMI	l:	JOHN BARIE	SIGNA	TURE	: P	/												THERMO ID:
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	DATE	TIME	SAMPLE DESCRIPTION	MATRIX TAT CONTAINER											SAMPLE CONDITIONS/				
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	TD								CONTAINER/COMMENTS
	0[2]:UL	01/25	COOLING TOWER BLOWDOWN	X				N	1	Р	Х								
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Relinqui	shed by (Si	gnature&	Name):	Receive	d by (S	Signature	& Nam	e):		Ø	Date: (ルフ	Ũ	D	Time: 92 <			SAM	(PLE	DISPOSITION sturned to client? Yes No
Relinqui	shed by (Si	gnature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:			Time:			2. Sam	iples w	ill not be stored over 30 days,
D alin aut	ahod by (C)	com o trang O	NI).	D		1	0 NI-	-) .			n						unless	additic	onal storage time is requested
Kennqui	sneu by (Si	gnatureœ	Name):	Receive	a by (2	signature	& Nam	e):			Date:			Time:			3. Stor	age tin	ne requested:days,
SPECIA	I INSTR	UCTION	•														Б У:		
SFECIA		UCTION	Arrived at the lab 9.27	22 1	000														
PRESE																			

Appendix C Operation Logs

Malburg Generating Station Appendix C, Table 1 Combustion Turbine Generator (CTG) Startup and Shutdown Events During Quarter 3, 2022

		CGLI		
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



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

PLEASE REMIT ALL PAYMENTS TO: P.O. BOX 14237

ORANGE, CA 92863-1237

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

01-0001045 ACCT NO (Bill-to):

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	QU/ DEL	ANTITY IVERED	PACKAGE DESCRIPTION	EXTENDED QTY	UNIT PRICE	EXT PRICE
CH277210983D40 0	CH MEROPA 277210983	150	1 Whse:	101	1.00	400 LB DR	400.00	3.39000	1,356.00
\$	3.39 PER TC								
422D055	DYED CARE NON TAXAB PENALTY FO 15 PPM OR CONTAIN UF ITO/ \$4.35 PEF	ULS DIESEL LE USE ONLY - DR TAXABLE USE LESS SULFUR - MAY P TO 5% BIODIESEL R 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
CH273204981D05 5	CH REGAL F 273204981 FORMERLY BACKORDER	8&O ISO 150 - 273213981 ED ON 2104708	0 Whse:	101	0.00	55 G DR	0.00	0.00000	0.00
/FUEL	CHLUBE	FUEL SURCHARGE LUBES							9.92
/RCFL	UBE	REG COMPLIANCE FEE LUBE	S						12.95
DRUMDEPOSITC 001	DRUM DEPO	DSIT FEE	3 Whse:	101	3.00	MISC CHRG	3.00	25.00000	75.00
MSRTNDRMC001	RETURN DR	UM	0 Whse:	101	2.00	MISC CHRG	2.00-	15.00000	30.00-

Save time, hav online. View invoices, make havments and more	Net Invoice:	1,903.63
Sign up for the Customer Portal today. Email: creditinguiries@scfuels.com or Call 888-SCFuels	Less Discount:	0.00
Ext. 6017 or login to Customer Portal: https://customerportal.scfuels.com	Freight:	0.00
24-hour Emergency Response Call CHEMTREC: 800-424-9300	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.

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

Page 1 of 1

SALEPERSON: Todd Cripps

714-938-5714

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 Nam	e: Malburg	Generating Station
Generated:	10/20/2022 05	:08		Location:	Vernon,	California
Tag Name:	U1_CO_LbPerHr_	_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
Total Operat	ting Time:	1,529	.98 Hours			
Non-Operatin	g 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 00:00To:09/30/2022 23:59Facility Name:Malburg Generating StationGenerated:10/20/2022 05:08Location:Vernon, CaliforniaTag Name:U1_CO_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,529.98HoursNon-Operating Time:678.02HoursReport Time:2,208.00Hours

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown



	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 S	tation	
Generated:	10/20/2022 05	:09		Location:	Vernon, California		
Tag Name:	U1_NOXRECLM_L	bPerHr_1M		<pre>SI = SampleInvalid, *</pre>	SI = SampleInvalid, * = Excess Emission		
Total Operating Time:		1,529.	.98 Hours				
Non-Operatin	g Time: 678.02	Hours	Report Time:	2,208.00 Hours			

No invalid events were found in the reporting period.
U1 VOC Startup/Shutdown



From:	07/01/2022 00:	00 то: 09	/30/2022 23:	59 Facility Name	e: Malburg	Generating S [.]	tation
Generated:	10/20/2022 05:	11		Location:	Vernon,	California	
Tag Name:	U1_VOC_LbPerHr	_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission		
Total Operat	ing Time:	1,529.9	8 Hours				
Non-Operatin	g Time: 678.02	Hours	Report Time:	2,208.00 Hours			

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

U1 VOC Startup/Shutdown



From:07/01/2022 00:00To:09/30/2022 23:59Facility Name:Malburg Generating StationGenerated:10/20/2022 05:11Location:Vernon, CaliforniaTag Name:U1_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,529.98HoursNon-Operating Time:678.02HoursReport Time: 2,208.00

Unit 1 - CO ppmvdc 1-hour during Normal Operation

 From:
 07/01/2022
 00:00
 To:
 09/30/2022
 23:59
 Facility Name:

 Generated:
 10/20/2022
 05:12
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_CONormal_Ppmvdc_1HTotal Operating Time:1,534.00 Hour(s)Non-Operating Time:674.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

07/01/2022 00:00 To: 09/30/2022 23:59 Facility Name: From: **Generated:** 10/20/2022 10:47

Malburg Generating Station Vernon, California



U1_NOxNorma1_Ppmvdc_1H Tag Name: **Total Operating Time:** 1,534.00 Hour(s) Non-Operating Time: 674.00 Hour(s) Report Time: 2,208.00 Hour(s)

No Exclusions Allowed

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 %

Location:

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

 From:
 07/01/2022
 00:00
 To:
 09/30/2022
 23:59
 Facility Name:

 Generated:
 10/20/2022
 05:15
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_VOCNormal_Ppmvdc_1HTotal Operating Time:1,534.00 Hour(s)Non-Operating Time:674.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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:07/01/202200:00To:09/30/202223:59Generated:10/20/202205:16

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOx4H_Ppmvdc_1HTotal Operating Time:1,534.00 Hour(s)Non-Operating Time:674.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

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_C0_3HrRoll_Ppmvdc_1HTotal Operating Time:1,534.00 Hour(s)Non-Operating Time:674.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

U2 CO Startup/Shutdown Events



From:	07/01/2022 00:	00 To:	09/30/2022 23	59 Facility Name	e: Malburg	Generating	Station
Generated:	10/20/2022 05:	18		Location:	Vernon,	California	
Tag Name:	U2_CO_LbPerHr_	1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission		
Total Opera	ting Time:	2,053	3.93 Hours				
Non-Operatir	ng 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		

U2 CO Startup/Shutdown Events From: 07/01/2022 00:00 To: 09/30/2022 23:59 Faci



From:07/01/2022 00:00To:09/30/2022 23:59Facility Name:Malburg Generating StationGenerated:10/20/2022 05:18Location:Vernon, CaliforniaTag Name:U2_CO_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:2,053.93HoursNon-Operating Time:154.07HoursReport Time: 2,208.00

U2 NOx Startup/Shutdown



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



U2 NOx Startup/Shutdown



From:	07/01/2022 0	0:00 To:	09/30/2022 23:	59 Facility Name	: Malburg	Generating Station
Generated:	10/20/2022 0	5:20		Location:	Vernon,	California
Tag Name:	U2_NOXRECLM_	LbPerHr_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission	
Total Operat	ing Time:	2,053	.93 Hours			
Non-Operatin	g Time: 154.0	7 Hours	Report Time:	2,208.00 Hours		

U2 VOC Startup/Shutdown Events



From:	07/01/2022 00	0:00 To:	09/30/2022 23	:59 Facility Name	Malburg Generating Station
Generated:	10/20/2022 0	5:22		Location:	Vernon, California
Tag Name:	U2_VOC_LbPer	Hr_1M		<pre>SI = SampleInvalid,</pre>	* = Excess Emission
Total Opera	ting Time:	2,053	.93 Hours		
Non-Operatir	ng 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	

U2 VOC Startup/Shutdown Events



From:07/01/2022 00:00To:09/30/2022 23:59Facility Name:Malburg Generating StationGenerated:10/20/2022 05:22Location:Vernon, CaliforniaTag Name:U2_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:2,053.93HoursNon-Operating Time:154.07HoursReport Time: 2,208.00

Unit 2 - CO ppmvdc 1-hour during Normal Operation

 From:
 07/01/2022
 00:00
 To:
 09/30/2022
 23:59
 Facility Name:

 Generated:
 10/20/2022
 05:28
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_CONormal_Ppmvdc_1HTotal Operating Time:2,058.00 Hour(s)Non-Operating Time:150.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

Unit 2 - NOx ppmvdc 1-hour during Normal Operation

 From:
 07/01/2022
 00:00
 To:
 09/30/2022
 23:59
 Facility Name:

 Generated:
 10/20/2022
 05:30
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOxNormal_Ppmvdc_1HTotal Operating Time:2,058.00 Hour(s)Non-Operating Time:150.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

Unit 2 - VOC ppmvdc 1-hour during Normal Operation

 From:
 07/01/2022
 00:00
 To:
 09/30/2022
 23:59
 Facility Name:

 Generated:
 10/20/2022
 05:32
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_VOCNormal_Ppmvdc_1HTotal Operating Time:2,058.00 Hour(s)Non-Operating Time:150.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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:07/01/202200:00To:09/30/202223:59Generated:10/20/202205:33

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOx4H_Ppmvdc_1HTotal Operating Time:2,058.00 Hour(s)Non-Operating Time:150.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %

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_1HTotal Operating Time:2,058.00 Hour(s)Non-Operating Time:150.00 Hour(s)Report Time:2,208.00 Hour(s)Report Time:2,208.00 Hour(s)

No Exclusions Allowed

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 %