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April 30, 2024

NOTICE OF INTENT TO FILE 2024 Q1 Compliance Report for the Malburg Generating Station (01-AFC-25C)

Dear Dr. Ali:

Attached please find the Quarterly Compliance Report for the Malburg Generating Station (01-AFC-25C), covering the operational period of January 1, 2024, through March 31, 2024. 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.

Thank you,

Todd Dusenberry General Manager of Vernon Public Utilities

Copies: Lisa Umeda Matt Richards Document Control

Enclosure: MGS 2024 Q1 Compliance Report

Vernon Public Utilities 4305 Santa Fe Avenue, Vernon, CA, 90058 323.583.8811 | CityofVernon.org

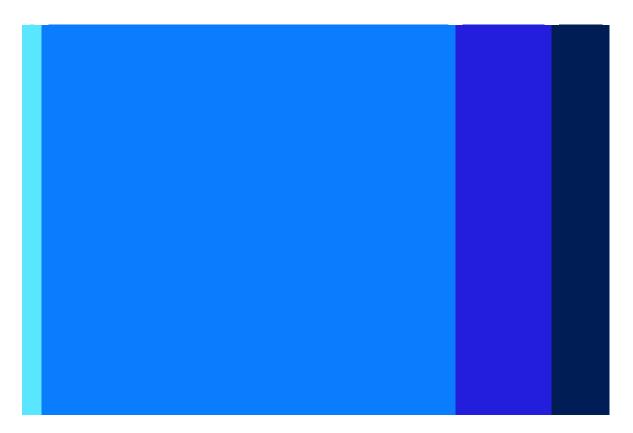
Malburg Generating Station Quarterly Compliance Report (First Quarter 2024)

Submitted to California Energy Commission

Submitted by City of Vernon, Public Utilities Department

April 30, 2024

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Acronyms and Abbreviations

CEC	California Energy Commission
CEMS	continuous emissions monitoring system
СО	carbon monoxide
СОС	Conditions of Certification
CTGs	combustion turbine generators
DAHS	data acquisition and handling system
gr/scf	grain per standard cubic foot
HRSGs	heat recovery steam generators
lb/day	pounds per day
lb/hr	pounds per hour
MGS	Malburg Generating Station
NH ₃	ammonia
NOx	nitrogen oxides
PM ₁₀	particulate matter with aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with 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 first quarter of 2024 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 first quarter of 2024 are provided in Appendix A, Tables 3 through 5. As shown, emissions were below the specified limit of 6.2 pounds per day (lb/day).
AQ-C8	Testing times for the diesel-fired emergency firewater pump during the first quarter of 2024 are provided in Appendix C, Table 2. MGS refrained from testing the diesel-fired emergency firewater pump in the same hour the CTGs were either started or shutdown.
AQ-C9	The CTG startup and shutdown details for the first quarter of 2024, including the duration and date of occurrence, are provided in Appendix C, Table 1.
AQ-C11	All ammonia (NH ₃), nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), PM ₁₀ , and volatile organic compound (VOC) emissions from MGS operation during the first quarter of 2024 are provided in Appendix A, Table 1.
AQ-2	Low sulfur diesel fuel was last purchased on March 20, 2024. 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 Quarterly Compliance Report Documentation

Condition	
Condition of Certification	Response
AQ-5	Monthly emissions of CO, PM_{10} , particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), VOC, and SOx from CTG and duct burner operation during the first quarter of 2024 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 either CTG 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 either CTG 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 either CTG 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 was performed on March 13 and 14, 2024. Results will be submitted to the CEC within 60 days of the source test, as required. Prior to this testing event, CTG 1 NH ₃ compliance source testing was performed on November 17, 2023, with results submitted to the CEC on November 28, 2023, and indicated compliance with the emission limit (0.5 ppm). Similarly, CTG 2 NH ₃ compliance source testing was previously performed on May 16, 2023, with results submitted to the CEC on June 23, 2023, and indicated compliance with the emission limit (0.6 ppm). 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 CTG 1 and 1.83 lb/hr and 0.0007 gr/scf for CTG 2).
AQ-14	See the response for COC AQ-2.
AQ-15	Year-to-date hours of operation for the diesel-fired emergency firewater pump are provided in Appendix A, Table 10. As shown, the year-to-date 2024 hours for maintenance and testing did not exceed 50 hours and the total operational hours did not exceed 200 hours.
AQ-25	On March 18, 2024, the facility experienced a malfunction of the CEMS CO analyzer associated with CTG 1, thereby limiting the CEMS' ability to continuously measure CO concentrations as required. Although CTG 1 was offline at the time of the malfunction with no associated emissions, verbal notification of this hardware breakdown was provided to the South Coast Air Quality Management District (SCAQMD) on March 19, 2024. Repairs to the CO analyzer could not be completed within the allowable 96-hour time period, such that a one-time 96-hour extension was granted per SCAQMD Rule 218.2(e)(4). Verification of the site's eligibility for this extension was provided to SCAQMD following completion of the repairs. SCAQMD closed the report on March 26, 2024. Correspondence with SCAQMD regarding this matter is provided in Appendix F.
AQ-27	See the response for COC AQ-5. As shown, fuel consumption per turbine-duct burner pair did not exceed the specified limit of 405 million cubic feet per month.
AQ-36	See the responses for COCs AQ-5 and AQ-6.

Malburg Generating Station Quarterly Compliance Report (First Quarter 2024)

Appendix A MGS Emission Calculations

Reporting Period: Quarter 1 2024

Table 1. Quarterly Emissions - January 1, 2024 through March 31, 2024

	Quarterly Emissions (lb/quarter)					
Source	NOx	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃
CTG 1 & Duct Burner	3,569	1,293	765	139	2,993	4,541
CTG 2 & Duct Burner	924	320	200	36.0	781	1,181
Cooling Tower					122	
Diesel Firewater Pump	32.0	0.9	0.2	0.0	0.2	0.1
Total	4,525	1,614	966	175	3,896	5,723

Reporting Period:

Quarter 1 2024

Table 2. Cooling Tower Total Dissolved Solids (TDS) Sampling Results [1]
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Sampling Period		
Start Date	End Date	TDS (ppm)
12/31/2023	1/6/2024	4,120
1/7/2024	1/13/2024	4,280
1/14/2024	1/20/2024	3,600
1/21/2024	1/27/2024	3,940
1/28/2024	2/3/2024	3,550
2/4/2024	2/10/2024	5,630
2/11/2024	2/17/2024	2,890
2/18/2024	2/24/2024	5,630
2/25/2024	3/2/2024	3,910
3/3/2024	3/9/2024	5,310
3/10/2024	3/16/2024	4,490
3/17/2024	3/23/2024	4,900
3/24/2024	3/30/2024	4,450
3/31/2024	4/6/2024	4,210

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

Reporting Period: January 2024

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

	Period			
Sample Date	Start Date	End Date	TDS (ppm)	
1/5/2024	12/31/2023	1/6/2024	4,120	
1/9/2024	1/7/2024	1/13/2024	4,280	
1/15/2024	1/14/2024	1/20/2024	3,600	
1/24/2024	1/21/2024	1/27/2024	3,940	
1/30/2024	1/28/2024	2/3/2024	3,550	

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	27,000		
Rate (gal/min)	21,000		
Water Density	8.334		
(lb/gal)	0.554		
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 $\rm PM_{10}$ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day
Date	(gal/day) ^[1]	TDS (ppm)	(lb/day)	PM ₁₀ Limit? ^[2]
1/1/2024	0	4,120	0.00	No
1/2/2024	38,880,000	4,120	1.33	No
1/3/2024	38,880,000	4,120	1.33	No
1/4/2024	0	4,120	0.00	No
1/5/2024	0	4,120	0.00	No
1/6/2024	0	4,120	0.00	No
1/7/2024	38,880,000	4,280	1.39	No
1/8/2024	38,880,000	4,280	1.39	No
1/9/2024	38,880,000	4,280	1.39	No
1/10/2024	38,880,000	4,280	1.39	No
1/11/2024	38,880,000	4,280	1.39	No
1/12/2024	38,880,000	4,280	1.39	No
1/13/2024	38,880,000	4,280	1.39	No
1/14/2024	38,880,000	3,600	1.17	No
1/15/2024	38,880,000	3,600	1.17	No
1/16/2024	38,880,000	3,600	1.17	No
1/17/2024	38,880,000	3,600	1.17	No
1/18/2024	38,880,000	3,600	1.17	No
1/19/2024	38,880,000	3,600	1.17	No
1/20/2024	38,880,000	3,600	1.17	No
1/21/2024	38,880,000	3,940	1.28	No
1/22/2024	38,880,000	3,940	1.28	No
1/23/2024	38,880,000	3,940	1.28	No
1/24/2024	38,880,000	3,940	1.28	No
1/25/2024	38,880,000	3,940	1.28	No
1/26/2024	38,880,000	3,940	1.28	No
1/27/2024	38,880,000	3,940	1.28	No
1/28/2024	38,880,000	3,550	1.15	No
1/29/2024	38,880,000	3,550	1.15	No
1/30/2024	38,880,000	3,550	1.15	No
1/31/2024	38,880,000	3,550	1.15	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: February 2024

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

	Period		
Sample Date	Start Date	End Date	TDS (ppm)
1/30/2024	1/28/2024	2/3/2024	3,550
2/8/2024	2/4/2024	2/10/2024	5,630
2/13/2024	2/11/2024	2/17/2024	2,890
2/20/2024	2/18/2024	2/24/2024	5,630
2/26/2024	2/25/2024	3/2/2024	3,910

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	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	0.2
(unitless) ^[3]	0.2
r.a	

^[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 ₁
ate	(gal/day) ^[1]	TDS (ppm)	(lb/day)	Limit? ^[2]
2/1/2024	38,880,000	3,550	1.15	No
2/2/2024	38,880,000	3,550	1.15	No
2/3/2024	38,880,000	3,550	1.15	No
2/4/2024	38,880,000	5,630	1.82	No
2/5/2024	38,880,000	5,630	1.82	No
2/6/2024	38,880,000	5,630	1.82	No
2/7/2024	38,880,000	5,630	1.82	No
2/8/2024	38,880,000	5,630	1.82	No
2/9/2024	38,880,000	5,630	1.82	No
2/10/2024	38,880,000	5,630	1.82	No
2/11/2024	38,880,000	2,890	0.94	No
2/12/2024	38,880,000	2,890	0.94	No
2/13/2024	38,880,000	2,890	0.94	No
2/14/2024	38,880,000	2,890	0.94	No
2/15/2024	38,880,000	2,890	0.94	No
2/16/2024	38,880,000	2,890	0.94	No
2/17/2024	38,880,000	2,890	0.94	No
2/18/2024	38,880,000	5,630	1.82	No
2/19/2024	38,880,000	5,630	1.82	No
2/20/2024	38,880,000	5,630	1.82	No
2/21/2024	38,880,000	5,630	1.82	No
2/22/2024	38,880,000	5,630	1.82	No
2/23/2024	38,880,000	5,630	1.82	No
2/24/2024	38,880,000	5,630	1.82	No
2/25/2024	38,880,000	3,910	1.27	No
2/26/2024	38,880,000	3,910	1.27	No
2/27/2024	38,880,000	3,910	1.27	No
2/28/2024	38,880,000	3,910	1.27	No
2/29/2024	38,880,000	3,910	1.27	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: March 2024

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

	Period		
Sample Date ^[1]	Start Date	End Date	TDS (ppm)
2/26/2024	2/25/2024	3/2/2024	3,910
3/5/2024	3/3/2024	3/9/2024	5,310
3/11/2024	3/10/2024	3/16/2024	4,490
3/19/2024	3/17/2024	3/23/2024	4,900
3/26/2024	3/24/2024	3/30/2024	4,450
4/2/2024	3/31/2024	4/6/2024	4,210

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

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

^[2] Per COC AQ-C4.

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

Cooling Tower Daily PM₁₀ Emissions

	Circulation Rate		PM ₁₀ Emissions	Above 6.2 lb/day PM ₁	
ate	(gal/day) ^[1]	TDS (ppm) ^[2]	(lb/day)	Limit? ^[3]	
3/1/2024	38,880,000	3,910	1.27	No	
3/2/2024	38,880,000	3,910	1.27	No	
3/3/2024	38,880,000	5,310	1.72	No	
3/4/2024	38,880,000	5,310	1.72	No	
3/5/2024	38,880,000	5,310	1.72	No	
3/6/2024	38,880,000	5,310	1.72	No	
3/7/2024	38,880,000	5,310	1.72	No	
3/8/2024	38,880,000	5,310	1.72	No	
3/9/2024	38,880,000	5,310	1.72	No	
3/10/2024	38,880,000	4,490	1.45	No	
3/11/2024	38,880,000	4,490	1.45	No	
3/12/2024	38,880,000	4,490	1.45	No	
3/13/2024	38,880,000	4,490	1.45	No	
3/14/2024	38,880,000	4,490	1.45	No	
3/15/2024	38,880,000	4,490	1.45	No	
3/16/2024	38,880,000	4,490	1.45	No	
3/17/2024	38,880,000	4,900	1.59	No	
3/18/2024	38,880,000	4,900	1.59	No	
3/19/2024	38,880,000	4,900	1.59	No	
3/20/2024	38,880,000	3,910	1.27	No	
3/21/2024	38,880,000	3,910	1.27	No	
3/22/2024	38,880,000	3,910	1.27	No	
3/23/2024	38,880,000	4,900	1.59	No	
3/24/2024	38,880,000	4,450	1.44	No	
3/25/2024	38,880,000	4,450	1.44	No	
3/26/2024	38,880,000	4,450	1.44	No	
3/27/2024	38,880,000	4,450	1.44	No	
3/28/2024	38,880,000	4,450	1.44	No	
3/29/2024	38,880,000	4,450	1.44	No	
3/30/2024	38,880,000	4,450	1.44	No	
3/31/2024	38,880,000	4,210	1.36	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 1 2024

Table 6. Monthly Turbine-Duct Burner Fuel Flow

	January		February		March	March			
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	199		207		89.5				
CTG 1 Duct Burner	1.22		0.15		0.02				
Total CTG 1 & Duct Burner	201	No	207	No 89.6		No			
CTG 2	0.00		0.00		130				
CTG 2 Duct Burner	CTG 2 Duct Burner 0.00		0.00		0.00				
Total CTG 2 & Duct Burner	tal CTG 2 & Duct Burner 0.00 No		0.00	No	130	No			

^[1] CTG and Duct Burner fuel flow data obtained from 'U1/U2_MonthlySummary_MassEmissionsAndFuel' and 'All_12MonthSummary_GasUsage' RegPerfect Reports.

^[2] Monthly fuel flow limit is per Condition of Certification (COC) AQ-27.

Table 7. Monthly Emissions - January 2024

Source	Monthly Emissions (l	Monthly Emissions (lb/month) ^[1]											
	NOx ^[2]	C0	VOC	50x	PM ₁₀ /PM _{2.5}	NH ₃ ^[3]							
CTG 1 & Duct Burner	1,517	620	309	56	1,207	1,836							
CTG 2 & Duct Burner	0	0	0	0	0	0							
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.

^{13]} 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 - February 2024

	Monthly Emissions (l	Monthly Emissions (lb/month) ^[1]											
	NOx ^[2]	C0	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ^[3]							
CTG 1 & Duct Burner	1,424	461	319	58	1,248	1,890							
CTG 2 & Duct Burner	0	0	0	0	0	0							
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 - March 2024

	Monthly Emissions (lb/month) ^[1]											
Source	NOx ^[2]	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃ ^[3]						
CTG 1 & Duct Burner	628	212	138	25	539	815						
CTG 2 & Duct Burner	924	320	200	36	781	1,181						
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.

¹²¹ 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 1 2024

Methodology

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

Emission Factors

Pollutant	Emission Factor (lb/Mgal)	Reference
NOx	469	Emission factor provided in the facility's Title V Permit.
CO	13.62	Emission factor converted from the factor provided in the facility's Title V Permit (0.4 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
VOC	3.41	Emission factor converted from the factor provided in the facility's Title V Permit (0.1 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
SOx	0.21	Default for Diesel/Distillate Oil, ICEs given in the SCAQMD's Combustion Default Emission Factors - January 2022.
PM ₁₀ /PM _{2.5}	3.065	Emission factor converted from the factor provided in the facility's Title V Permit (0.09 g/bhp-hr), based on the unit's power rating (173 hp) and maximum fuel throughput (11.2 gal/hr).
NH ₃	0.80	Default for diesel combustion equipment without an SNCR or SCR given in the SCAQMD's AER AB 2588 Quadrennial Air Toxics Emission Inventory Reporting Procedures - June 2020.

	of Operation	[1]	Fuel Usage	Monthly E	missions (l					
Month	Maintenance	Testing	Emergency	(gal/month) ^[2]	NOx	CO	VOC	SOx	PM ₁₀ /PM _{2.5}	NH ₃
January	0.0	2.0	0.0	22.4	10.5	0.31	0.08	0.00	0.07	0.02
February	0.0	1.5	0.0	16.8	7.9	0.23	0.06	0.00	0.05	0.01
March	0.0	2.6	0.0	29.1	13.7	0.40	0.10	0.01	0.09	0.02
Q1 Total	0.0	6.1	0.0	68.3	32.0	0.93	0.23	0.01	0.21	0.05
Annual Total	0.0	6.1	0.0	68.3	32.0	0.93	0.23	0.01	0.21	0.05
Annual Limit for	Maintenance and Tes	ting ^[3]	50							
Tota	l Annual Limit ^[3]		200							

No

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

Exceeds Limits?

^[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



January 22, 2024

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

Report No.: 2401066 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 05, 2024.

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.

Pick Owen Partier Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 01/22/24

PLS Report No.: 2401066

Submitted: 01/05/24

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 (240	1066-0	1) Sam	pled: 0	1/05/24	09:45 R	eceived:	01/05/24				
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method P		Prepared	Ana	lyzed	Ву	Batch	
Total Dissolved Solids	4120		1	mg/L	5.0	-	SM	2540C	01/09/24	01/:	10/24	SS	BA4191
			Qu	uality	Contro	ol Data	1						
				1-10		Spike	Source		%REC	100	RPD		
Analyte		Result		ι	Units	Level R	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BA41913				U.E.C.	-1.4					1.1		1.4	
Blank	Pre	pared: 01	/09/24 /	Analyzed:	01/10/	24							
Total Dissolved Solids	N	0	5.0	n	ng/L								
LCS	Pre	pared: 01	/09/24 /	Analyzed:	01/10/	24							
Total Dissolved Sollds	59	.0	5.0	n	ng/L	50.00		118	80-120				
Duplicate Source: 240)1031-01 Pre	pared: 01	/09/24 /	Analyzed:	01/10/	24							
Total Dissolved Solids	148	30	5.0	п	ng/L		1480			0.00	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 Oven Parties

Authorized Signature(s)

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stin.	L/	AB S	ERVICE	(213) 74	5-5312	FAX (213	8) 745-63	72					F	ILE NO			-	NO.:	240100	14
CLIENT	NAME:	CITY OI	F VERNON	PROJE	CT N	AME/NG).	MALBU	RG GENEI	RATING S	FATION	WEEKL	y P	.O.NO.				AIRBIL		
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									AN	ALYS	SES RE	QUEST	red		OBSER	VED TEMP	1.000
PROJE	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRE	CTED TEMP:	1.2 "
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	. 7	F											THERM	ved temp cted temp: to id:	
TAT (T	ırn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal													
CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																				
UST PR	UST PROJECT: Y N GLOBAL ID#:																			
SAMPLE		AINER	DS								E CONDITION									
	ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE														+	-	+	CONTA	INER/COMMI	INTS
1-5-24 0945 COOLING TOWER BLOWDOWN X N 1 P X																				
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Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		ſ	Time:		2. Sat	nples w	ill not be s	tored over 30 da	ays,
																unles	s additio	onal storag	e time is reques	ted
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		1	Time:		3. Sto	orage tin	ne request	ed:d	ays,
		_														By: _		Da	te:	
SPECIA	L INSTR	UCTION																		
			Arrived at the lab 1-5-24	1015																
PRESE	RVATIVE	1_HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	NaOl	L6 NH4	RUFE	D 7	OTHE	D										and the second second

FINE ERVATIVE 1-11003 2-112504 3-110L 4 ZINC ACETATE 5-NAOH 6-NH4 BUFFER 7- UTHER



January 25, 2024

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

Report No.: 2401081 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 09, 2024.

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.

Pick Owen Partier Project Manager



Certificate of Analysis

Page 2 of 2

File #:74548 Report Date: 01/25/24 Submitted: 01/09/24 **PLS Report No.: 2401081**

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: C	Cooling Tower Blowdow	n Wate	er (240	1081-0	1) Sam	pled: 0	1/09/24	08:40 R	eceived:	01/09/24				
Analyte	Re	esults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolv	ved Solids 4	280		1	mg/L	5.0	-	SM	2540C	01/15/24	01/1	16/24	SS	BA4242
				Qı	Jality	Contro	ol Data	I						
				E.	1 Turim	1	Spike	Source		%REC		RPD		-
Analyte	M. S. Salara	Resul	lt	PQL	1	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BA42424	4			filed	18 1									
Blank		Prepa	ared: 01	15/24	Analyzed	: 01/16/	24							
Total Dissolved	d Solids	ND		5.0	1	ng/L								
LCS		Prepa	ared: 01	15/24	Analyzed	: 01/16/	24							
Total Dissolved	d Solids	56.0		5.0	1	ng/L	50.00		112	80-120				
Duplicate	Source: 2401087-01	Prepa	ared: 01/	15/24	Analyzed	: 01/16/	24							
Total Dissolved	tal Dissolved Solids			5.0		ng/L		2040			0.00	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

Authorized Signature(s)

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<u>R. 17340</u>		AB SI	ERVICE	[213] 74	9-9915	FAA (21)	oj 740-03							FILE	NO.:			LAB	NO.: 2401081
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO) .	MALBU	RG GENEF	RATING S	TATION	WEEKLY	¢.	P.O.N	ю.				AIRBILL NO:
ADDRE	ss:	4963 SOT	O ST. VERNON CA 90058									AN	ALY	SES	REQU	EST	ED		OBSERVED TEMP 1. 10
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:										CORRECTED TEMP: 1.1 %
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	,												THERMO ID: 66
TAT (Tu	ırn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2	=48Hour;	(ETC	.) N=Nor	mal												
CONTA	INER TY	PES: B=B	rass; E=Encore/Easy Draw;	P=Plastic	; G=0	lass; V=	=VOA V	/ial; ()=Othe	er									
UST PR	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other UST PROJECT: Y N GLOBAL ID#:																		
SAMPLE																SAMPLE CONDITIONS/			
ID	ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE															_			CONTAINER/COMMENTS
	194	0840	COOLING TOWER BLOWDOWN	X				N	1	P	X								
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Relinqui	shed by (S	ignature&	Name):	Receive	ed by (Signature	& Nam	e):		~	Date			Time			2. Sam	ples w	rill not be stored over 30 days,
																	unless	additio	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,
																	By:		Date:
SPECIA	L INSTR	UCTION																	
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC AC	ETATE 5	-NaO	- 6-NH4	BUFF	ER 7-	OTHE	R	-		-						

Arrived at the lab $[\iota \mathcal{O}_{1} \cdot \mathcal{V}_{4}]$



January 25, 2024

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

Report No.: 2401112 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 15, 2024.

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.

Pick Owen Tarlin Project Manager



Certificate of Analysis

Page 2 of 2

File #:74548 Report Date: 01/25/24 Submitted: 01/15/24 **PLS Report No.: 2401112**

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: C	ooling Tower Blowdown	n Wate	er (240	1112-0	1) San	pled: 0	1/15/24	08:30 R	eceived:	01/15/24				
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	yzed	Ву	Batch
Total Dissolv	red Solids 30	600		1	mg/L	5.0	-	SM	2540C	01/15/24	01/1	6/24	SS	BA4242
				Qı	uality	Contro	ol Data	3						
							Spike	Source	-	%REC	P.M.	RPD		- 0
Analyte		Resul	lt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BA42424	F							0.7528				1.311		
Blank		Prepa	ared: 01/	15/24	Analyzed	: 01/16/	24							
Total Dissolved	1 Solids	ND		5.0		mg/L								
LCS		Prepa	ared: 01/	15/24	Analyzed	: 01/16/	24							
Total Dissolved	l Solids	56.0		5.0		mg/L	50.00		112	80-120				
Duplicate	Source: 2401087-01	Prepa	ared: 01/	15/24	Analyzed	: 01/16/	24							
Total Dissolved	Solids	2040		5.0		mg/L		2040			0.00	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

Authorized Signature(s)

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Statistic P							·						F	ILE NO).:		LAB	NO.: 2401112
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO	D	MALBU	RG GENEI	RATING S	TATION	WEEKLY	<u>P</u>	.O.NO	•			AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									AN	ALYS	ES RE	QUES	FED		observed temp <u>/·</u>
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.2
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	-0	2											THERMO ID: 46
TAT (Tu	rn-Arour	nd-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																		
SAMPLE	UST PROJECT: Y N GLOBAL ID#:																	
ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE															CONTAINER/COMMENTS			
	1-1524	0830	COOLING TOWER BLOWDOWN	X				N	1	P	X		\rightarrow	+	_	+	_	
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Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Г	ime:		SAN	1PLE	DISPOSITION
Λ	N		J	2	and the second	197HL		, 		ł	152	4	Ċ	983	5	1. Sar	nples re	eturned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Г	Time:		2. Sar	nples w	ill not be stored over 30 days,
																unless	s additio	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		J	Time:		3. Sto	rage tin	ne requested:days,
<u> </u>											_	_	_			By: _		Date:
SPECIA	L INSTR	UCTION	:															
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	16-NH4	BUFFE	ER 7-	OTHE	R								

Arrived at the lab 1-1724 1900



January 31, 2024

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

Report No.: 2401218 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 24, 2024.

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: 01/31/24

PLS Report No.: 2401218

Submitted: 01/24/24

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 W	ater (240	01218-0	1) Sam	pled: 0	1/24/24	08:15 R	eceived:	01/24/24			1.25	1.14
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	3940		1	mg/L	5.0	-	SM	2540C	01/25/24	01/2	26/24	SS	BA4311
			Q	uality	Contro	ol Data	3						
		1. 1.			7051	Spike	Source	1. S.	%REC	-	RPD		-into n
Analyte	Re	sult	PQL	ι	Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BA43113				8						1.595		1	3 2 3
Blank	Pre	epared: 01	/25/24	Analyzed	01/26/	24							
Total Dissolved Solids	Ν	ID.	5.0	n	ng/L								
LCS	Pre	epared: 01	/25/24	Analyzed	01/26/	24							
Total Dissolved Solids	50	8.0	5.0	n	ng/L	50.00		116	80-120				
Duplicate Source: 240)1178-07 Pro	epared: 01	/25/24	Analyzed	01/26/	24							
Total Dissolved Solids	6	5.7	5.0	n	ng/L		65.0			2.52	5		

Notes and Definitions

ND Analyte NOT DETECTED at or above the reported limit(s)

NR Not Reported

NA

MDL Method Detection Limit

PQL Practical Quantitation Limit

Not Applicable

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

Rick Roven Parties

Authorized Signature(s)

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CLIENT	NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENE	RATING S	TATION	WEEKLY	P.O	.NO.				AIRBILL NO:
ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	S REQ	UEST	ED		OBSERVED TEMP 1.4%c
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1,6°C
SAMPLI	ER NAMI	E:	JOHN BARIE	SIGNA	ГURE	· Xr	/		-									THERMO ID: 61
TAT (Tu	rn-Arou	nd-Time):	0=Same Day; 1=24 Hour; 2=															
CONTA	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 PR	UST PROJECT: Y N GLOBAL ID#:																	
ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE CONTAILER CONTAI														CONTAINER/COMMENTS				
	, 4.9	0015	COOLING TOWER BLOWDOWN	X				N	1	P	X		_	-		-	<u> </u>	
									-				_	-	-			
										-			_	-	-	-	<u> </u>	
						-				+					-	-	-	
					0					-				+	-	\vdash	-	
Relinquis	shed by (S MA	ignature&	Name):	Receive	d by (S	Signature M Bend	& Nam	e):			Date: 1-24	14	۲in Dy	1e: 3/5	1	1		DISPOSITION sturned to client? Yes No
MAFor John BorieRelinquished by (Signature & Name):Received by (Signature & Name):													Tin	ne:				ill not be stored over 30 days, onal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date	c. c.	Tin	ie:		3. Stor By:	rage tin	ne requested:days,
SPECIA	L INSTR	UCTION	:															

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

Arrived at the lab 1.244 1040



February 14, 2024

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

Report No.: 2401276 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on January 30, 2024.

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: 02/14/24

PLS Report No.: 2401276

Submitted: 01/30/24

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: C	cooling Tower Blowdow	vn Wat	er (240	1276-0	1) Sam	pled: 0	1/30/24	08:10 R	eceived:	01/30/24				
Analyte	R	esults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	yzed	Ву	Batch
Total Dissolv	ved Solids	3550		1	mg/L	5.0	-	SM	2540C	02/05/24	02/0	5/24	SS	BB41414
				Q	uality	Contro	ol Data	à						
					1000		Spike	Source		%REC		RPD		
Analyte		Resu	lt	PQL	(Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BB41414	••• Sector Classication of the					13-15	D'na.	AL-		1. 1. 1. C	at a	1.1		
Blank		Prep	ared & A	nalyzed:	02/05/2	4								
Total Dissolved	d Solids	ND		5.0		ng/L								
LCS		Prep	ared & A	nalyzed:	02/05/2	4								
Total Dissolved	d Solids	60.0)	5.0		ng/L	50.00		120	80-120				
Duplicate	Source: 2402057-05	Prep	ared & A	nalyzed:	02/05/2	4								
Total Dissolved	d Solids	33.3	1	5.0	1	ng/L		35.0			4.98	5		
Duplicate	Source: 2402057-06	Prep	ared & A	nalyzed:	02/05/2	4								
Total Dissolved	otal Dissolved Solids		1	5.0		ng/L		15.0			11.8	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 Parlier

Authorized Signature(s)

-										_								
reh.l.		OS AB SI	TIVE CHA 781 East Was	hington B	lvd., Lo	STOD is Angeles FAX (213	s, CA 900	121	ANAI	LYSI	S R	EQU		DAT LE NO.:		D.24		PAGE:OF NO.: _2401276
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NG) .	MALBU	RG GENE	RATING S	FATION	WEEKLY	e P.	D.NO .				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									AN	ALYSI	ES REQ	UEST	ED		OBSERVED TEMP 1. 1°C
PROJEC	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.3 t
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	ГURE	. ~	1											THERMO ID: 66
TAT (Tu	rn-Arour	nd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Nor	mal											
CONTA	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 SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	WATER	MA	TRIX	OTHER	TAT	CONT #	AINER	TDS							SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	1-3024	1	COOLING TOWER BLOWDOWN	X	SUIL	SLUDGE	UTHER	N	1	P	x		+	+	1			CONTAINERCOMMENTS
	1207	-90	COOLING TOWER BLOWDOWN					IN						+	-			
														+	-			
-														-	1			
													_					
Relinqui	shed by (S MA	ignature&		Receive	d by (S	Signature n Ber	& Nam	e):	1		Date:	aly		me: >8/D				DISPOSITION turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:			-	ill not be stored over 30 days,
Relinqui	shed by (S	lignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		3. Stor By:	rage tin	ne requested:days,
SPECIA	L INSTR	UCTION	:															

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

Arrived at the lab (30:24 1045



February 27, 2024

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

Report No.: 2402208 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 08, 2024.

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.

datine tayak Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 02/27/24

PLS Report No.: 2402208

Submitted: 02/08/24

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 W	ater (240	02208-0	1) Sam	pled: 0	2/08/24	08:30 R	eceived:	02/08/24		TRACT		E-Exil
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Solids	5630		1	mg/L	5.0	-	SM	2540C	02/12/24	02/	12/24	dt	BB4270
			Q	uality	Contro	ol Data	3						
			110			Spike	Source		%REC		RPD	L, IC	
Analyte	Re	sult	PQL	l	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BB42709								12-11-1			1	EL C	E CT
Blank	Pn	epared & A	nalyzed:	02/12/2	4								
Total Dissolved Solids	1	ND	5.0	r	ng/L								
LCS	Pr	epared & A	nalyzed:	02/12/2	4								
Total Dissolved Solids	5	9.0	5.0	r	ng/L	50.00		118	80-120				
Duplicate Source: 24	02208-01 Pr	epared & A	nalyzed:	02/12/2	4								
Total Dissolved Solids	56	500	5.0	F	ng/L		5630			0.534	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

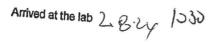
PQL Practical Quantitation Limit

Rick Owen his Tar

Authorized Signature(s)

nah ti		OS AB SI	TIVE CHA 781 East Was		lvd., Lo		s, CA 901	321	NAI	LYSI	S RI	EQU						PAGE: <u>(</u> OF <u>)</u> NO.: 2402208
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/N	D .	MALBU	RG GENEI	RATING ST	TATION	WEEKLY	Р.	D.NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	O ST. VERNON CA 90058									AN	ALYSE	S REQ	UEST	ED		OBSERVED TEMP 1.6%
PROJEC	CT MANA		MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.82
	ER NAMI		JOHN BARIE	SIGNA		: -												OBSERVED TEMP 1.6° CORRECTED TEMP: 1.8° THERMO ID: -60°
TAT (Tu	rn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	rmal											
CONTA																		
UST PR	ST PROJECT: Y N GLOBAL ID#:																	
SAMPLE																		
ID																		
<u> </u>	IMPLE DATE TIME SAMPLEDESCRIPTION Image: Marcel water TAT CONTAINER CONTAINER ID SAMPLED SAMPLED WATER SOIL Sludge OTHER Image: Marcel water SAMPLE S																	
														_				
													_					
Relinqui	shed by (Si	ignature&	Name):	Receive	d by (S	Signature	& Nam	.e):			Date:			me:		SAM	PLE	DISPOSITION
	MA		Ø	The '	Jin	n 1301	re			2	R.	ey.	OB3	J		1. Sam	iples re	turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Ti	me:		2. Sam	ples w	ill not be stored over 30 days,
-																unless	additio	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	ie):			Date:		Ti	me:		3. Stor	age tim	ne requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION:																

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





March 06, 2024

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

Report No.: 2402260 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 13, 2024.

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: 03/06/24

PLS Report No.: 2402260

Submitted: 02/13/24

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 Wat	er (240	2260-0	1) Sam	pled: 0	2/13/24	08:30 R	eceived:	02/13/24		The		1.1
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	lyzed	Ву	Batch
Total Dissolved Solids	2890		1	mg/L	5.0	-	SM	2540C	02/19/24	02/1	19/24	SS	BC4061
			Qı	uality (Contro	ol Data	1						
					1-12	Spike	Source		%REC		RPD		
Analyte	Resu	ılt	PQL	U	Inits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC40616							11/10-2			11 22	0.44		Plant -
Blank	Prep	ared & A	nalyzed:	02/19/2	4								
Total Dissolved Solids	ND		5.0	п	ng/L								
LCS	Prep	ared & A	nalyzed:	02/19/2	4								
Total Dissolved Solids	60.0)	5.0	n	ng/L				80-120				

Notes and Definitions

mg/L

2890

NA Not Applicable

Total Dissolved Solids

Duplicate

ND Analyte NOT DETECTED at or above the reported limit(s)

Source: 2402260-01

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

2890

Prepared & Analyzed: 02/19/24

5.0

Rick Owen Par

0.115

5

Authorized Signature(s)

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ndh.l.		OS AB S	ERVICE CHA	hington B	lvd., Lo	STOI os Angele FAX (21	s, CA 90	021	NAI	LYSI	S RI	EQU		DAT Æ NO.:	т <u>е:</u> 2-	132	F F	PAGE: [OF_ / NO.: [401246])
			FVERNON	PROIF	CT N	AME/N	0	MALDI	RG GENER	ATINC S	PATION	WEEKIV).NO.			LAD	AIRBILL NO:
				IROJE				MALDU	NG GENER	AT ING 5	ATION							
ADDRE	SS:	4963 SO	TO ST. VERNON CA 90058									ANA	ALYSE	S REQ	UEST	TED		OBSERVED TEMP
PROJEC	T MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: D.9%
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	A	~											6 <i>C</i> THERMO ID:
TAT (Tu	rn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC	.) N=Noi	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; P	=Plastic	; G=0	lass; V=	=VOA	Vial; ()=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:			6. 61.00 M												
SAMPLE	ST PROJECT: Y N GLOBAL ID#:																	
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	Ē			_				CONTAINER/COMMENTS
	27324	0820	COOLING TOWER BLOWDOWN	X				N	1	P	x							
		,0	1.41															
														1				
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tir	ne:		SAM	IPLE	DISPOSITION
	MA		()	Blm	Bant					2	13	24	C	970		1. Sam	nples re	turned to client? Yes No
Relinqui	shed by (S	ignature&				Signature	& Nam	ie):			Date:		Tiı	~		2. Sam	nples w	ill not be stored over 30 days,
																unless	additic	onal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (Signature	& Nam	ie):			Date:		Tiı	ne:		3. Stor	rage tin	ne requested:days,
																Ву:		Date:
SPECIA	L INSTR	UCTION	•															
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	NaOl	H 6-NH4	BUFF	ER 7-	OTHE	R								



March 01, 2024

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

Report No.: 2402308 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 20, 2024.

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

File #:74548 Report Date: 03/01/24 Submitted: 02/20/24 **PLS Report No.: 2402308**

4963 Soto St. Vernon, CA 90058

Attn: Matt Richards

City of Vernon

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

Project: Malburg Generating Station Weekly

Sample ID: Cooling Towe	r Blowdown W	ater (240	2308-0	1) Sam	pled: 0	2/20/24	08:20 R	eceived:	02/20/24	1.1		2.5	
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	yzed	Ву	Batch
Total Dissolved Solids	5630		1	mg/L	5.0	-	SM	2540C	02/22/24	02/2	3/24	al	BC4012
			Q	uality	Contro	ol Data	Ì						
	3000		3.20			Spike	Source	1211	%REC	100	RPD	1	241
Analyte	R	esult	PQL	l	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC40120	12-20-20	6 4 T K	1.41	Veral 1	Fred	a ore	and the	The state		President 1	617		
Blank	P	repared: 02	/22/24	Analyzed	: 02/23/	24							
Total Dissolved Solids		ND	5.0	ſ	ng/L								
LCS	Р	repared: 02	/22/24	Analyzed	: 02/23/	24							
Total Dissolved Solids		51.0	5.0	r	ng/L	50.00		102	80-120				
Duplicate Source: 2	2402344-07 P	repared: 02	/22/24	Analyzed	: 02/23/	24							
Total Dissolved Solids		ND	5.0	r	ng/L		ND				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

Rick Aven Parker

Authorized Signature(s)

	ΔP	OS	CHA 781 East Was	IN OI					NAI	LYSI	S R	EQI	JES		DATE	2 57		₂ P	AGE: OF/
Nelh-Se	L/	BS	ERVICE	(213) 74	5-5312	FAX (21)	3) 745-63	172											NO.: 2402308
CLIENT	'NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NG	0.	MALBU	RG GENEI	RATING S	TATION	WEEKI	X	P.O.N	10.				AIRBILL NO:
ADDRE	SS:	4963 SOT	FO ST. VERNON CA 90058									Aľ	ALY	SES I	REQU	ESTI	ED		OBSERVED TEMP 1.324
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:										CORRECTED TEMP: 1.5%
SAMPL	ER NAMI	C:	JOHN BARIE	SIGNA	TURE	·	2												THERMO ID:
TAT (Tu	Irn-Aroun	d-Time):	0=Same Day; 1=24 Hour; 2=			0													
CONTA	INER TY	PES: B=E	Brass; E=Encore/Easy Draw; 1	P=Plastic	; G=G	lass; V=	=VOA V	/ial; ()=Oth	er									
UST PR	JST PROJECT: Y N GLOBAL ID#:																		
SAMPLE	AMPLE DATE TIME SAMPLE DESCRIPTION MATERIX TAT CONTAINER CONTAINER ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE P P SAMPLED SAMPLECONDITIONS/ CONTAINER/COMMENTS																		
	ID SAMPLED SAMPLED WATER SOIL SLUDGE OTHER # TYPE A CONTAINER/COMMENTS																		
										<u> </u>				-	-		-	-	
										-									
Relinqui	shed by (S	ignature&		Receive	d by (S	Signature	& Nam	e):			Date:			Time	:		SAM	PLE	DISPOSITION
A	NA			to	In	Ban	è				2.2	9'L	30	S	5		1. Sam	ples ret	turned to client? Yes No
1.	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		17 L	Time			2. Sam	ples wi	ill not be stored over 30 days,
												_					unless	additio	nal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date			Time	:		3. Stora	age tim	ne requested:days,
																	Ву:		Date:
SPECIA	L INSTR	UCTION	:																
PRESE	RVATIVE	1-HNO3	2-H2SO4 3-HCL 4- ZINC ACE	TATE 5	-NaOl	6-NH4	BUFF	R 7-	OTHE	R									

Arrived at the lab 2-6-2; (055



March 14, 2024

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

Report No.: 2402383 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on February 26, 2024.

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



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Certificate of Analysis

Page 2 of 2

Report Date: 03/14/24

PLS Report No.: 2402383

Submitted: 02/26/24

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 W	ater (240	02383-0	1) Sam	pled: 0	2/26/24	07:40 R	eceived:	02/26/24	in the second	1	20	
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	yzed	Ву	Batch
Total Dissolved Solids	3910		1	mg/L	5.0	-	SM	2540C	02/29/24	03/0	1/24	SS	BC4141
			Q	uality	Contro	ol Data	9						
	3. 2 2 18	小田田		Fella I		Spike	Source		%REC	3.200	RPD		
Analyte	Re	sult	PQL		Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC41414			1 mars	10.0		3257	1000	5 1446	area the	2.00		1	1.2
Blank	Pr	epared: 02	/29/24	Analyzed	: 03/01/	24							
Total Dissolved Solids		ND	5.0	r	ng/L								
LCS	Pr	epared: 02	/29/24	Analyzed	: 03/01/	24							
Total Dissolved Solids	6	0.0	5.0	r	ng/L	50.00		120	80-120				
Duplicate Source: 240	2383-01 Pr	epared: 02	/29/24	Analyzed	: 03/01/	24							
Total Dissolved Solids	4	010	5.0	r	ng/L		3910			2.43	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

Rick Owen Parlier

Authorized Signature(s)

r					_				_		_				_		_	
NUM.			TIVE CHA 781 East Was	hington B	lvd., Lo	STOE s Angeles FAX (21:	6, CA 900	21	ANAI	LYSI	S R	EQUI			: <u>27</u>			AGE: OF NO.: ²⁴⁰²³⁸³
<u> </u>			VERNON	PROIE	CT N	AME/NO	.	MATRI	DC CENE	RATING ST	TATION	WEEKIV	P.O.	E NO.:				AIRBILL NO:
ADDRE			TO ST. VERNON CA 90058	TROJE				MALDU	RGGENE	KATING SI	ATION		LYSES		IEST	ED		OBSERVED TEMP 1.3 °C
	CT MANA		MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 11/°C
	ER NAMI		JOHN BARIE			: 5				_								THERMO ID: 6C
-																		
	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other IST PROJECT: Y N GLOBAL ID#:																	
SAMPLE	ST PROJECT: Y N GLOBAL ID#:																	
ID	ST PROJECT: Y N GLOBAL ID#:																	
	ST PROJECT: Y N GLOBAL ID#:																	
													+		_			
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										+	-						_	
		· · · · · · · · · · · · · · · · · · ·								-			_				-	l.
Relinqui	shed by (S	ignature&	Name):	Receive	-	Signature Ibh					Date:	ny	Tim	e: 140				DISPOSITION urned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	e:				I not be stored over 30 days, nal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	e:		3. Stora By:		e requested:days,
SPECIA	L INSTR	UCTION:	Arrived at the lab	ry?	65													

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



March 14, 2024

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

Report No.: 2403016 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 05, 2024.

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

File #:74548 Report Date: 03/14/24 Submitted: 03/05/24 **PLS Report No.: 2403016**

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: C	ooling Tower Blowdow	n Wate	r (240	3016-0	1) Sam	pled: 0	3/05/24	08:20 R	eceived:	03/05/24				
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	yzed	By	Batch
Total Dissolv	ed Solids 5	310		1	mg/L	5.0	-	SM	2540C	03/07/24	03/0	8/24	55	BC4141
				Q	uality	Contro	ol Data	1						
		De la	S VEL		mar	5,7%	Spike	Source		%REC	1.31	RPD		SILL S
Analyte	and the second	Resul	t	PQL	l	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC41415		472	3.3	1	1945-1	6-10	5/ 2/4	Durales	and a	No.	1 Per la	The second		
Blank		Ргера	red: 03,	/07/24	Analyzed	: 03/08/	24							
Total Dissolved	l Solids	ND		5.0	г	ng/L								
LCS		Prepa	red: 03,	/07/24	Analyzed	: 03/08/	24							
Total Dissolved	l Solids	60.0		5.0	г	ng/L	50.00		120	80-120				
Duplicate	Source: 2403032-01	Prepa	red: 03	/07/24	Analyzed	: 03/08/	24							
Total Dissolved	Solids	1790		5.0		ng/L		1790			0.186	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

lin Pick daven 101

Authorized Signature(s)

								_			_							
ah.h.		OS AB SI	TIVE ERVICE CHA 781 East Was	hington B	lvd., Lo	STOD is Angeles FAX (213	, CA 900)21	ANAI	LYSI	S RI	EQUI		DAT				AGE: _ OF NO.: _2403016
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENE	RATING ST	TATION	WEEKLY	P.O.	NO.				AIRBILL NO:
ADDRE	SS:	4963 801	TO ST. VERNON CA 90058									ANA	LYSES	REO	UEST	ED		OBSERVED TEMP D.9%
	T MANA		MATT RICHARDS	PHONE	NO:			FAX	NO.									CORRECTED TEMP: 1.9°C
				SIGNA'		<u> </u>		TAA	10.									THERMO ID: 60
	ER NAMI								-									THERMO ID:
			0=Same Day; 1=24 Hour; 2=															
CONTA	CONTAINER TYPES: B=Brass; E=Encore/Easy Draw; P=Plastic; G=Glass; V=VOA Vial; O=Other																	
-	ST PROJECT: Y N GLOBAL ID#:																	
	MPLE DATE TIME SAMPLE DESCRIPTION Image: Margin and the sample description and the sample description description and the sample description descripti description description descripti desc																	
		2820			3012	SLUDGE	OTHER	N	1		-		-	-				CONTAINER COMMENTS
	3.5.24	010	COOLING TOWER BLOWDOWN	X				N		Р	X			-	-			
													_	-				
									-	-				-		_		
													_	-				
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		SAM	PLEI	DISPOSITION
^	MA	U				n Ban					-52		OG			1 Sam	inles reti	urned to client? Yes No
- '		: P						-).		5			v			1		
Kennqui	sned by (S	ignature&	Name):	Receive	a by (2	Signature	& Nam	e):			Date:		Time	e:				l not be stored over 30 days,
															_	unless	addition	al storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		3. Stor	age time	e requested:days,
													_			By:		Date:
SPECIA	L INSTR	UCTION:																

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

Arrived at the lab 3-5-20 1025



March 18, 2024

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

Report No.: 2403068 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 11, 2024.

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: 03/18/24

PLS Report No.: 2403068

Submitted: 03/11/24

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: Coolin	g Tower Blowdown	Wate	er (240	3068-0	1) San	pled: 0	3/11/24	07:35 R	eceived:	03/11/24			- 10	1111
Analyte	Res	ults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Anal	yzed	By	Batch
Total Dissolved So	lids 44	90		1	mg/L	5.0	-	SM	2540C	03/14/24	03/1	5/24	al	BC4182
	1			Q	uality	Contro	ol Data	3						
	The Provide	10 m		E ALL			Spike	Source		%REC	1915	RPD	1	
Analyte		Resu	lt	PQL		Units	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC41823		172.0			12.2	E WE		2-21-21	1219		and .		1 FT	
Blank		Prepa	ared: 03	/14/24	Analyzed	1: 03/15/	24							
Total Dissolved Solids	5	ND		5.0		mg/L								
LCS		Prepa	ared: 03,	/14/24	Analyzed	I: 03/15/	24							
Total Dissolved Solids	5	26.0		5.0		mg/L	25.00		104	80-120				
Duplicate 9	Source: 2403068-01	Prepa	ared: 03	/14/24	Analyzed	I: 03/15/	24							
Total Dissolved Solids	5	4510	1	5.0		mg/L		4490			0.356	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

Rick Dwen Parlies

Authorized Signature(s)

1		OC		IN OF	T CU	STOD	Y AN		ANAT	LYSI	S R	EOUI	EST					
		US	ERVICE CHA 781 East Was								~	- 2		DAT	E:3-	11.2	ΥP	PAGE: <u>1</u> OF /
Allal.		AB SI	ERVICE	(213) 74	5-5312	FAX (213	3) 745-63	72					FILI	E NO.:				NO .: 2403068
CLIENT	'NAME:	CITY OF	F VERNON	PROJE	CT N	AME/NO	э.	MALBU	RG GENEI	RATING ST	FATION	WEEKLY	P.O	NO.				AIRBILL NO:
ADDRES	SS:	4963 SO7	TO ST. VERNON CA 90058									ANA	LYSES	REQ	UEST	ED		OBSERVED TEMP 0-44
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.49
SAMPLI	ER NAMI	E:	JOHN BARIE	SIGNA	TURE	: Is	/											THERMO ID:
TAT (Tu	rn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=4	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; (0=Oth	er								
	OJECT:	Y N	GLOBAL ID#:															
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	WATER	MA SOIL	SLUDGE	OTHER	TAT	CONT.	AINER	TDS							SAMPLE CONDITIONS/ CONTAINER/COMMENTS
	3.1124	0735	COOLING TOWER BLOWDOWN	X	JOIL	SLODGE	UTILIX	N	1	P	x							CONTAINERCOMMENTS
	1.101	1- 5	COOLING TOWER BLOWDOWN					1						1	1			
														1				
								-										
																1		
								-	1									
Relinquis	shed by (S	ignature&		~ /		Signature		e):			Date		Tim			SAM	IPLE	DISPOSITION
	1114			gr	~ ~	3h/ba	THE .			3	-11-21	1	07	35	_	1. San	ples re	eturned to client? Yes No
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	e:				ill not be stored over 30 days,
	1 11 /0										_		ant					onal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	le:		3. Stor	rage tin	ne requested:days,days,
SPECIA	L INSTR	UCTION	:		-													

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

Arrived at the lab 3-(1:24 OCOU



March 25, 2024

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

Report No.: 2403118 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 19, 2024.

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: 03/25/24

PLS Report No.: 2403118

Submitted: 03/19/24

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 (240	03118-0	1) Sam	pled: 0	3/19/24	07:00 R	eceived:	03/19/24	Ender	NE Land		
Analyte	Results	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolved Solids	4900		1	mg/L	. 5.0	-	SM	2540C	03/20/24	03/2	21/24 .	al	BC4222
			Qı	uality	Contro	ol Data	I						
						Spike	Source		%REC	2114	RPD		
Analyte	Res	alt	PQL	t	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BC42223						-	STRAT!		A REAL	in series	1.123	Deen.	
Blank	Pre	pared: 03	/20/24	Analyzed	: 03/21/	24							
Total Dissolved Solids	N	D	5.0	r	ng/L								
LCS	Pre	pared: 03	/21/24 /	Analyzed	: 03/22/	24							
Total Dissolved Solids	53	.3	5.0	г	ng/L	50.00		107	80-120				
Duplicate Source: 24	03125-04 Pre	pared: 03	/20/24	Analyzed	: 03/21/	24							
Total Dissolved Solids	24	7	5.0	r	ng/L		253			2.40	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

Fit Owen Parties

Authorized Signature(s)

	CHAIN OF CUSTODY AND ANALYSIS REQUEST																	
.ah.A.		OS AB SI	TIVE CHA 781 East Was	LIN OI hington B [213] 74	F CU Ivd., La 5-5312	STOD is Angeles FAX (213	Y AN , CA 900) 745-63	ND A 121 172	NAI	LYSI	S R	EQUI		DAT				NO.: 2403118
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENE	RATING ST	TATION	WEEKLY	P.O .	NO.				AIRBILL NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	REQ	UEST	ED		OBSERVED TEMP 5.9°C
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1. 9 2
SAMPL	ER NAM	E:	JOHN BARIE	SIGNA	ГURE	: P	-											THERMO ID: 60
TAT (Tu	ırn-Arou	nd-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	OJECT:	Y N	GLOBAL ID#:															
SAMPLE		TIME	SAMPLE DESCRIPTION			TRIX		TAT		AINER	TDS							SAMPLE CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER	N	#	TYPE				+	-			CONTAINER/COMMENTS
	singing	Ou	COOLING TOWER BLOWDOWN	X				N	1	P	X		_	-	-	-		
										-				-				
										-	-		_	-	-			
<u> </u>										-	_			+		-		
										-			_	-	-	-		
										-			-			-		
Relinqui N		ignature&		Receive	d by (§	Signature	& Nam Zənē	e):	L	ے یہ !	Date:	ry zy	Tim		L			DISPOSITION turned to client? Yes No
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	e:		1	- -	ill not be stored over 30 days, anal storage time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date		Tim	e:		3. Stor By:		ne requested:days,
SPECIA	ECIAL INSTRUCTION:																	

.

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



April 01, 2024

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

Report No.: 2403275 Project Name: Malburg Generating Station Weekly

Dear Matt Richards,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on March 26, 2024.

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: 04/01/24

PLS Report No.: 2403275

Submitted: 03/26/24

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 To	wer Blowdown	Water (2403275-0)1) Sam	pled: 0	3/26/24	08:15 R	eceived:	03/26/24	HENRY CHE			han I
Analyte	Res	ults Fla	ag D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	Ву	Batch
Total Dissolved Solids	44	50	1	mg/L	5.0	- ,	SM	2540C	03/28/24	03/2	28/24	SS	BD4010
			Q	uality	Contro	ol Data	Ľ						
				IN THE REAL		Spike	Source	1	%REC		RPD	100	
Analyte		Result	PQL	I	Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BD40109			1 1	Station.	La Di			1.11			1	nta i	
Blank		Prepared	& Analyzed:	03/28/2	4								
Total Dissolved Solids		ND	5.0	r	ng/L								
LCS		Prepared	& Analyzed:	03/28/2	4								
Total Dissolved Solids		58.0	5.0	r	ng/L	50.00		116	80-120				
Duplicate Source	e: 2403250-09	Prepared	& Analyzed:	03/28/2	4								
Total Dissolved Solids		360	5.0		ng/L		360			0.00	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

Rick Owen Parlier

Authorized Signature(s)

		OC		IN OI	r CU	STO	OY AN	ND A	NAI	LYSI	S RI	EQUI	EST					
	95	03	TIVE CHA 781 East Was			s Angele FAX (21)								DAT	E: <u>}</u>	262	27 P	AGE:(OF
KIEW J	L/	AB SI	ERVICE	[213] 74	0-0012	FAX [21.	oj / 40-00						FILE	: NO.:			LAB	NO.: 2403275
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO) .	MALBU	RG GENEI	RATING S	TATION	WEEKLY	P.O.	NO.				AIRBILL NO:
ADDRES	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	REQ	UEST	ED		OBSERVED TEMP 0. 4°C
PROJEC	CT MANA	AGER	MATT RICHARDS	PHONE	NO:			FAX	NO:									CORRECTED TEMP: 1.4° THERMO ID: -6°
SAMPLI	ER NAM	E:	JOHN BARIE	SIGNA	ΓURE	: P	,											THERMO ID: 60
TAT (Tu	rn-Arou	nd-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	OJECT:	Y N	GLOBAL ID#:															
SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE DESCRIPTION	WATER	MA	TRIX	OTHER	TAT	CONT #	1	TDS							SAMPLE CONDITIONS/
	3-2624				SOIL	SLUDGE	OTHER	N		TYPE		-			-			CONTAINER/COMMENTS
	5.0004	UN T	COOLING TOWER BLOWDOWN	X				N	1	P	X		_	-	-			
										-				-	-			
							-			-				-	·	-		
<u> </u>										-			_	+	-	-		
								-						-	-	-	-	
															-	-		
		L		L												-		
	shed by (S	ignature&	Name):	Receive	d by (S Dh	Signature	& Nam	e):			Date: -26 2		Time OG					DISPOSITION turned to client? Yes No
Relinquis	shed by (S	ignature&				Signature	& Nam	e):			Date:		Time			1	-	ill not be stored over 30 days,
																unless	additio	nal storage time is requested
Relinquis	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Time	e:		3. Stor	age tim	ne requested:days,
																By:		Date:
SPECIA	L INSTR	UCTION						-										

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

Arrived at the lab 3-26-24 July



April 11, 2024

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

Report No.: 2404016 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 April 02, 2024.

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.

IIII Man Manut Project Manager



Certificate of Analysis

Page 2 of 2

Report Date: 04/11/24

PLS Report No.: 2404016

Submitted: 04/02/24

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: Co	ooling Tower Blowdow	n Wate	er (240	4016-0	1) San	pled: 0	4/02/24	08:25 R	eceived:	04/02/24			2- 20-	1.00.0
Analyte	Re	sults	Flag	D.F.	Units	PQL	Pre	p/Test Met	hod	Prepared	Ana	lyzed	By	Batch
Total Dissolve	ed Solids 4	210		1	mg/L	5.0	÷.	SM	2540C	04/04/24	04/0	05/24	SS	BD4110
				Q	uality	Contro	ol Data	1						
							Spike	Source	1	%REC		RPD	105	-27.
Analyte		Resu	lt	PQL		Jnits	Level	Result	%REC	Limits	RPD	Limit	Q	ualifier
Batch BD41103		V THE R	1.53			1- 1- 10 1- 1- 10	100	10.51.2	19-11-1				=	
Blank		Prepa	ared: 04	/04/24	Analyzed	: 04/05/	24							
Total Dissolved	Solids	ND		5.0		ng/L								
LCS		Prepa	ared: 04,	/04/24	Analyzed	: 04/05/	24							
Total Dissolved	Solids	53.0		5.0		ng/L	50.00		106	80-120				
Duplicate	Source: 2404028-02	Prepa	ared: 04,	/04/24	Analyzed	: 04/05/	24							
Total Dissolved	Solids	20.0		5.0		ng/L		20.0			0.00	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

Fick Owen Parties

Authorized Signature(s)

ndhalt.		OS AB SI	TIVE CHA 781 East Was	IN OI shington B [213] 74	lvd., Lo		s, CA 90()21	NAI	LYSI	S RI	EQUI		DATE NO.:	: ¹ 1-0	224	PAGE:	OF /
CLIENT	NAME:	CITY OF	VERNON	PROJE	CT N	AME/NO).	MALBU	RG GENEI	RATING ST	TATION	WEEKLY	P.O .	NO.			AIRBILI	NO:
ADDRE	SS:	4963 SOT	TO ST. VERNON CA 90058									ANA	LYSES	REQU	ESTI	ED	OBSERV	VED TEMP D.6%
PROJEC	CT MANA	GER	MATT RICHARDS	PHONE	NO:			FAX	NO:								CORREC	CTED TEMP: 1-6"
SAMPL	ER NAMI	E:	JOHN BARIE	SIGNA	ГURE	L	\sim										THERM	
TAT (Tu	ırn-Arour	ıd-Time):	0=Same Day; 1=24 Hour; 2=	48Hour;	(ETC) N=Nor	mal											
CONTA	INER TY	PES: B=B	Brass; E=Encore/Easy Draw; I	Period	G=G	lass; V=	-VOA V	/ial; (D=Oth	er								
UST PR	OJECT:	Y N	GLOBAL ID#:															
SAMPLE		TIME	SAMPLE DESCRIPTION			TRIX		TAT		AINER	TDS							E CONDITIONS/
ID	SAMPLED	SAMPLED		WATER	SOIL	SLUDGE	OTHER		#	TYPE	-			+			CONTAI	INER/COMMENTS
	your	0305	COOLING TOWER BLOWDOWN	X				N	1	Р	X	-		+	_			
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Relinqui	shed by (S	ignature&	Name):			Signature		.e):			Date:		Time					tored over 30 days, e time is requested
Relinqui	shed by (S	ignature&	Name):	Receive	d by (S	Signature	& Nam	e):			Date:		Tim	e:		3. Storag	ge time requeste	d:days,
SPECIA	L INSTR	UCTION	1															

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

Arrived at the lab L1.2.24 144

Appendix C Operation Logs

Malburg Generating Station Appendix C, Table 1 Combustion Turbine Generator (CTG) Startup and Shutdown Events During Quarter 1, 2024

		CTG 1		
Date	Event Type ^[1]	Event Start	Event End	Duration (hrs:min)
1/2/2024	Cold Start	17:12	18:44	1:32
1/2/2024	Stop	23:19	23:28	0:09
1/3/2024	Warm Start	12:39	13:48	1:09
1/3/2024	Stop	18:21	18:30	0:09
1/7/2024	Cold Start	21:00	22:30	1:30
3/13/2024	Stop	20:57	21:06	0:09
		CTG 2		
Date	Event Type ^[1]	Event Start	Event End	Duration (hrs:min)
3/13/2024	Cold Start	16:42	18:04	1:22

^[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 1, 2024

Date	Time (hh:mm)	Start Hours	End Hours	Event Type	Hours of Operation
1/8/2024	18:35	381.7	382.2	Testing	0.5
1/14/2024	20:46	382.2	382.7	Testing	0.5
1/21/2024	21:15	382.7	383.2	Testing	0.5
1/28/2024	18:03	383.2	383.7	Testing	0.5
2/11/2024	20:19	383.7	384.2	Testing	0.5
2/18/2024	22:36	384.2	384.7	Testing	0.5
2/25/2024	18:57	384.7	385.2	Testing	0.5
3/3/2024	19:31	385.2	385.7	Testing	0.5
3/10/2024	18:39	385.7	386.2	Testing	0.5
3/17/2024	21:18	386.2	386.7	Testing	0.5
3/24/2024	17:37	386.8	387.3	Testing ^[1]	0.6
3/26/2024	8:51	387.3	387.8	Testing	0.5

^[1] A Maintenance Department test started following the monthly testing on March 17, 2024. This caused the engine hours to increase from 386.7 to 386.8 on March 19, 2024. This 0.1 hour of operation has been added to the March 24, 2024 runtime.

Appendix D Diesel Fuel Oil Purchase Records



ORDER NUMBER: 2607075

DATE:3/20/2024

TERMS: N30 SALES REP: Todd Cripps PHONE: 714-938-5714

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

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

PO#: 00240083

SHIP DATE: 12/31/5999

ROM:

SHIP VIA:

WHSE: 101

ACCT NO (Bill-to): 01-0001045

CITY OF VERNON 4305 SANTA FE AVE ATTN: DEPARTMENT D VERNON, CA 90058 (323) 583-8811 ACCT NO (Ship-to) 01-0001045 103L CITY OF VERNON-SOTO ST-L

4963 SOTO ST VERNON, CA 90058

нм	ITEM CODE	ITEM DESCRIPTION	QTY ORDERED	QTY DEL	PACKAGE DESC	EXTENDED QTY	UNIT PRICE	EXT PRICE
	O:TODD/POC	ROB 323-583-8811 X257/HRS:8A-2P						
x	NA1993, DIESEL F	UEL, 3 PG III / CARGO TANK		\frown				
	693D055	R99 DYED RENEWABLE CARB DIESEL MAXIMUM 15 PPM SULFUR, DIESEL FUEL	2.00		55 G DR	110.00 GALS	6.06	666.86
		#2. MEETS ALL CARB DIESEL SPECS. For use in State of California NON TAXABLE USE ONLY PENALTY FOR TAXABLE USE.	D	SF	PA7	СН		
	Federal Lust					0.0010	0	0.11
						6.0634	0	666.97
	CH253090981D05 5	CH GST ADVANTAGE EP 32 250054981 REPLACES-GST 2300 ISO 32 253090981	1.00		55 G DR	55.00 GALS	25.24	1,388.20
	DRUMDEPOSITC 001	DRUM DEPOSIT FEE	3.00		MISC CHRG	3.00 EACH	25.00	75.00
	/FUELCHLUBE	FUEL SURCHARGE LUBES						9.92
	/RCFLUBE	REG COMPLIANCE FEE LUBES						12.95

**Prices guoted are not firm and are subject to change based upon	Net Order:	2,153.04
product availablity, quantity delivered and market fluctuations	Less Discount:	0.00
,	Freight:	0.00
	Sales Tax:	212.99
	Order Total:	2,366.03

Page 1 of 1

Appendix E Excess Emission Reports

Startup/Shutdown Excess Emissions Report

U1 CO Startup/Shutdown



From:	01/01/2024 00:00	To: 03/31,	/2024 23:59	Facility Name:	Malburg Generating Station
Generated:	04/06/2024 21:33			Location:	Vernon, California
Tag Name:	U1_CO_LbPerHr_1M			<pre>SI = SampleInvalid, * =</pre>	Excess Emission
Total Opera	ting Time:	1,595.27	Hours		
Non-Operati	ng Time: 588.73 Ho	ours Rep	ort Time: 2,1	L84.00 Hours	

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

No excess emissions were found in the reporting period.

Startup/Shutdown Excess Emissions Report U1 CO Startup/Shutdown



From:01/01/2024 00:00To:03/31/2024 23:59Facility Name:Malburg Generating StationGenerated:04/06/2024 21:33Location:Vernon, CaliforniaTag Name:U1_CO_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,595.27HoursNon-Operating Time:588.73HoursReport Time: 2,184.00

No invalid events were found in the reporting period.

Startup/Shutdown Excess Emissions Report

U1 NOx Startup/Shutdown



From:	01/01/2024 00:	00 то: 03	/31/2024 23:	59 Facility Name:	Malburg	Generating Station	
Generated:	04/06/2024 21:	34		Location:	Vernon,	California	
Tag Name:	U1_NOXRECLM_L	PerHr_1M		SI = SampleInvalid, * =	SI = SampleInvalid, * = Excess Emission		
Total Opera	ting Time:	1,595.2					
Non-Operating Time: 588.73		Hours	Report Time:	2,184.00 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.

U1 NOx Startup/Shutdown



From:01/01/2024 00:00To:03/31/2024 23:59Facility Name:Malburg Generating StationGenerated:04/06/2024 21:34Location:Vernon, CaliforniaTag Name:U1_NOXRECLM_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,595.27HoursNon-Operating Time:588.73HoursReport Time: 2,184.00

No invalid events were found in the reporting period.

U1 VOC Startup/Shutdown



From:	01/01/2024 00:0	о то: 0	3/31/2024 23:	59 Facility Name	: Malburg Generating Station
Generated:	04/06/2024 22:0	00		Location:	Vernon, California
Tag Name:	U1_VOC_LbPerHr_	<u>1</u> M		<pre>SI = SampleInvalid, *</pre>	= Excess Emission
	ting Time:	1,595.2			
Non-Operati	ng Time: 588.73	Hours	Report Time:	2,184.00 Hours	

Unit Operation							
E	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.

U1 VOC Startup/Shutdown



From:01/01/2024 00:00To:03/31/2024 23:59Facility Name:Malburg Generating StationGenerated:04/06/2024 22:00Location:Vernon, CaliforniaTag Name:U1_VOC_LbPerHr_1MSI = SampleInvalid, * = Excess EmissionTotal Operating Time:1,595.27HoursNon-Operating Time:588.73HoursReport Time: 2,184.00

No invalid events were found in the reporting period.

Unit 1 - CO ppmvdc 1-hour during Normal Operation

 From:
 01/01/2024 00:00
 To: 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:11
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_CONormal_Ppmvdc_1HTotal Operating Time:1,598.00 Hour(s)Non-Operating Time:586.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,598.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - NOx ppmvdc 1-hour during Normal Operation

 From:
 01/01/2024 00:00
 To: 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:13
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOxNormal_Ppmvdc_1HTotal Operating Time:1,598.00 Hour(s)Non-Operating Time:586.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,598.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Unit 1 - VOC ppmvdc 1-hour during Normal Operation

 From:
 01/01/2024 00:00
 To: 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:13
 Location:

Malburg Generating Station Vernon, California



Tag Name:U1_VOCNormal_Ppmvdc_1HTotal Operating Time:1,598.00 Hour(s)Non-Operating Time:586.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,598.00 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:01/01/2024 00:00To: 03/31/2024 23:59Facility Name:Malburg Generating StationGenerated:04/06/2024 22:14Location:Vernon, California



Tag Name:U1_C0_3HrRoll_Ppmvdc_1HTotal Operating Time:1,598.00 Hour(s)Non-Operating Time:586.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,598.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U1 NOX 4-Hour Events

From:01/01/2024 00:00To:03/31/2024 23:59Generated:04/06/2024 22:14

Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U1_NOx4H_Ppmvdc_1HTotal Operating Time:1,598.00 Hour(s)Non-Operating Time:586.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	1,598.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Startup/Shutdown Event Report

U2 CO Startup/Shutdown Events



From:	01/01/2024 00:00	To: 03/3	1/2024 23:	59 Facility Name:	Malburg Generating Station
Generated:	04/06/2024 22:15			Location:	Vernon, California
Tag Name:	U2_CO_LbPerHr_1M			SI = SampleInvalid, * =	Excess Emission
Total Opera	ating Time:	440.30	Hours		
Non-Operati	ng Time: 1,743.70 Ho	urs R	Report Time:	2,184.00 Hours	

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

02 CO Startup/Shutuown Events						Real Control
From:	01/01/2024 00:00	To: 03	3/31/2024 23:59	Facility Name:	Malburg Generating Station	Ve unt
Generated:	04/06/2024 22:15			Location:	Vernon, California	
Tag Name:	U2_CO_LbPerHr_1M			<pre>SI = SampleInvalid, * =</pre>	Excess Emission	
•	ting Time: ng Time: 1,743.70 Но) Hours Report Time: 2,	184.00 Hours		

No invalid events were found in the reporting period.



U2 NOx Startup/Shutdown



From:	01/01/2024 00:00 To:	03/31/2024 23:59	Facility Name:	Malburg Generating Station	
Generated:	04/06/2024 22:16		Location:	Vernon, California	
Tag Name:	U2_NOXRECLM_LbPerHr_1	И	<pre>SI = SampleInvalid, * =</pre>	Excess Emission	
Total Opera Non-Operati	ting Time: 440 ng Time: 1,743.70 Hours	.30 Hours Report Time: 2,2	184.00 Hours		

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

No excess emissions were found in the reporting period.

U2 NOx Startup/Shutdown



From:	01/01/2024 00:00	To: 03	8/31/2024 23	59 Facil	ity Name:	Malburg	Generating	Station	
Generated:	04/06/2024 22:16			Locat	ion:	Vernon,	California		
Tag Name:	U2_NOXRECLM_LbPe	rHr_1M		SI = Samp	SI = SampleInvalid, * = Excess Emission				
Total Opera	ting Time:	440.30	Hours						
Non-Operati	ng Time: 1,743.70 Ho	urs	Report Time:	2,184.00 H	lours				

No invalid events were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events



From:	01/01/2024 00:00	To: 03	/31/2024 23:	59 Facility Name:	Malburg	Generating Station		
Generated:	04/06/2024 22:17			Location:	Vernon,	California		
Tag Name:	U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission							
Total Opera	ting Time:	440.30	Hours					
Non-Operati	ng Time: 1,743.70 Ho	urs	Report Time:	2,184.00 Hours				

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

No excess emissions were found in the reporting period.

Startup/Shutdown Event Report

U2 VOC Startup/Shutdown Events From: 01/01/2024 00:00 To: 03/31/2024 23:59 Facility Name: Malburg Generating Station Generated: 04/06/2024 22:17 Location: Vernon, California Tag Name: U2_VOC_LbPerHr_1M SI = SampleInvalid, * = Excess Emission Total Operating Time: 440.30 Hours Non-Operating Time: 1,743.70 Hours Report Time: 2,184.00 Hours

No invalid events were found in the reporting period.



Unit 2 - CO ppmvdc 1-hour during Normal Operation

 From:
 01/01/2024 00:00
 To: 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:18
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_CONormal_Ppmvdc_1HTotal Operating Time:441.00 Hour(s)Non-Operating Time:1,743.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time: Total Duration (Online only):	441.00 Hour(s) 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:
 01/01/2024 00:00
 To:
 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:18
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOxNormal_Ppmvdc_1HTotal Operating Time:441.00 Hour(s)Non-Operating Time:1,743.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	441.00 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:
 01/01/2024 00:00
 To:
 03/31/2024 23:59
 Facility Name:

 Generated:
 04/06/2024 22:18
 Location:

Malburg Generating Station Vernon, California



Tag Name:U2_VOCNormal_Ppmvdc_1HTotal Operating Time:441.00 Hour(s)Non-Operating Time:1,743.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	441.00 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:01/01/2024 00:00To: 03/31/2024 23:59Facility Name:Malburg Generating StationGenerated:04/06/2024 22:19Location:Vernon, California



Tag Name:U2_CO_3HrRoll_Ppmvdc_1HTotal Operating Time:441.00 Hour(s)Non-Operating Time:1,743.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

Total Operating Time:	441.00 Hour(s)
Total Duration (Online only):	0.00 Hour(s)
Time in exceedance as a percentage of operating time:	0.00 %
Time in compliance as a percentage of operating time:	100.00 %

Quad K Excess Emissions Report

U2 NOX 4-Hour Events

From:01/01/2024 00:00To:03/31/2024 23:59Generated:04/06/2024 22:16

9 Facility Name: Location:

Malburg Generating Station Vernon, California



Tag Name:U2_NOx4H_Ppmvdc_1HTotal Operating Time:441.00 Hour(s)Non-Operating Time:1,743.00 Hour(s)Report Time:2,184.00 Hour(s)Report Time:2,184.00 Hour(s)

No Exclusions Allowed

441.00 Hour(s)
0.00 Hour(s)
0.00 %
100.00 %

Appendix F CTG 1 CO Analyzer Malfunction Documentation

Thank you Elyse! I added the information to the report for Notification # 785846 and closed the report.

Avelino

From: Engel, Elyse <Elyse.Engel@jacobs.com>
Sent: Monday, March 25, 2024 11:38 AM
To: Avelino Revilla <arevilla@aqmd.gov>
Cc: Umeda, Lisa <lumeda@cityofvernon.org>; Richards, Matthew <MRichards@cityofvernon.org>
Subject: [EXTERNAL] Follow-up to Facility ID 195802 CEMS Failure

Hi Avelino,

As you are aware, Vernon Public Utilities (VPU, Facility ID 195802) experienced a malfunction of the CEMS CO Analyzer associated with Gas Turbine No. 1 (Device ID D27) last Monday, March 18, 2024 at 10:00 am. Verbal notification of this hardware breakdown was provided to SCAQMD on March 19, 2024 following our discussion; the notification confirmation number is 785846. As indicated in the verbal report, Gas Turbine No. 1 was offline at the time of the malfunction with no associated emissions.

Per our discussion last Thursday, March 21, 2024, VPU was granted a one-time 96-hour extension to its repair window per Rule 218.2(e)(2)(C). VPU successfully repaired the CEMS CO Analyzer late the evening of Friday, March 22, 2024, following replacement of the analyzer's motherboard and associated minor components. In accordance with the site's CEMS QA/QC Plan, the affected unit passed its calibration the morning of Saturday, March 23, 2024, indicating that the issue had been fully resolved within the additional 96-hour timeframe allowed.

To verify the site's eligibility for the additional 96-hour window, attached please find the following documentation per Rule 218.2(e)(4):

- Two (2) photos showing readings of the Gas Turbine No. 1 Fuel Flow Meter before and after the Friday repairs. As shown, the meter reading did not change during the repair window, indicating there was no fuel flow to the affected unit.
- A printout from the site's Data Acquisition and Handling System (DAHS) showing the Gas Turbine No. 1 fuel flow, operating time, heat input, and operating status from before the malfunction occurred on March 18th to after the malfunction was repaired on March 22nd. As shown, there was no fuel flowing to the unit during this time period nor was the unit operating. Since the unit was offline during this time period without any fuel combustion, all emissions associated with the unit were zero.

Please let us know if you have any follow-up questions regarding this matter.

Thanks, Elyse

Elyse Engel, EIT | <u>Jacobs</u> | Project Manager & Air Quality Specialist M:+01.702.354.2648 | <u>elyse.engel@jacobs.com</u> 1737 N First Street, Suite 350 | San Jose, CA 95112 | USA

Work Schedule: M-W-Th 9 am to 5 pm; T 9 am to 1:30 pm

Upcoming PTO: April 5 – 12

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Before analyzer repair

Friday • Mar 22, 2024 • 1:08 PM Adjust
Apple iPhone 13 Pro Max JPEG
Wide Camera — 26 mm <i>f</i> 1.5 12 MP • 4032 × 3024 • 4.8 MB
ISO160 26mm 0ev f1.5 1/60s



After analyzer repair

Saturday • Mar 23, 2024 • 11:23 AM	Adjust
Apple iPhone 13 mini	HEIF
Wide Camera — 26 mm £1.6 12 MP • 4032 × 3024 • 2.4 MB	
ISO200 26mm 0ev f1.6	1/60s
Add a location i i	뒢

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1
	CTGasFlow, 100scfh	OperatingTime, Pct	DBGasFlow, 100scfh	DBOn, Pct	GasFlow, Total, 100scfh	HI, MBtuPerHr	GCV, Gas, BtuPer100scf	Process, Status, Oto3
	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)
03/18/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/18/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
inimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
aximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
śsi	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1	Unit 1
	CTGasFlow, 100scfh	OperatingTime, Pct	DBGasFlow, 100scfh	DBOn, Pct	GasFlow, Total, 100scfh	HI, MBtuPerHr	GCV, Gas, BtuPer100scf	Process, Status, Oto
	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)	1 Hour(s)
03/19/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/19/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
linimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
aximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	low, 100scfh OperatingTime, Pct	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, Oto3 1 Hour(s)
03/20/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/20/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
linimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
laximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
ísi	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	Flow, 100scfh OperatingTime, Pct	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, Oto3 1 Hour(s)
03/21/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/21/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
linimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
laximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
ísi	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	w, 100scfh OperatingTime, Pct	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, Oto3 1 Hour(s)
03/22/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/22/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
linimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
aximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
SI	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00

Unit 1 (Process Status: 0-Down 1-Normal 2-Startup 3-Shutdown)



03/18/2024 00:00 To: 03/23/2024 23:59 Facility Name: From: Generated: 03/25/2024 09:34

Malburg Generating Station

Vernon, California

Red = Invalid or Excluded Data | Green = Edited Status | Blue = Edited Value | * = Excess Emission

	Unit 1 CTGasFlow, 100scfh 1 Hour(s)	, 100scfh OperatingTime, Pct	Unit 1 DBGasFlow, 100scfh 1 Hour(s)	Unit 1 DBOn, Pct 1 Hour(s)	Unit 1 GasFlow, Total, 100scfh 1 Hour(s)	Unit 1 HI, MBtuPerHr 1 Hour(s)	Unit 1 GCV, Gas, BtuPer100scf 1 Hour(s)	Unit 1 Process, Status, Oto3 1 Hour(s)
03/23/2024 00:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 01:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 02:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 03:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 04:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 05:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 06:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 07:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 08:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 09:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 10:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 11:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 12:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 13:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 14:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 15:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 16:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 17:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 18:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 19:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 20:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 21:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 22:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
03/23/2024 23:00	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
verage/Sum#:	0.0	0.00 #	0.0	0.0 #	0.0	0.0	102,649.0	0
tinimum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
laximum:	0.0	0.00	0.0	0.0	0.0	0.0	102,649.0	0
śsi	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00