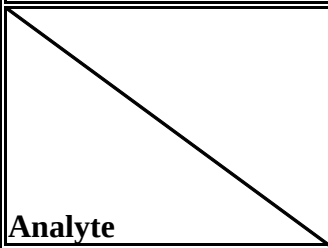


CLIENT: City of Redlands
LABORATORY NO: 22-538
SAMPLING DATE: 06/03/22
RECEIVING DATE: 06/03/22
ANALYSIS DATE: 06/03/22
REPORT DATE: 06/05/22

Laboratory Analysis Report

Analysis Method	SQAQMD 307-91		
Detection Limits	0.05 PPMV		
 Analyte	Client ID	Effluent Outlet	Influent Inlet
	Sampling Date	6/3/2022	06/03/22
	Sampling Time	-	-
	Lab ID	15422-13	15422-14
	Units	PPMV	PPMV
Hydrogen Sulfide		<0.05	<0.05
Carbonyl Sulfide		<0.05	<0.05
Methyl Mercaptan		<0.05	<0.05
Ethyl Mercaptan		<0.05	<0.05
Un-Identified S Compounds		,0.05	<0.05
Total Sulfur as H ₂ S		<0.05	<0.05



Dr. Andrew Kitto
 President

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Quality Assurance Report

Duplicate Analysis

Sample ID: Influent Inlet

Lab ID: 15422-14

Analysis Method		SQAQMD 307-91		
Detection Limit		0.05 PPMV		
Analyte	Aver. Conc. PPMV	Dil. Factor Ambient Air	DF*A/CF PPMV	% Sample Recovery*
Hydrogen Sulfide	<0.05	1	<0.05	N/A
Carbonyl Sulfide	<0.05	1	<0.05	N/A
Methyl Mercaptan	<0.05	1	<0.05	N/A
Ethyl Mercaptan	<0.05	1	<0.05	N/A
Unidentified S Compounds	<0.05	1	<0.05	N/A
Total Sulfur as H ₂ S	<0.05	1	<0.05	N/A

N/A: Not Applicable

*Must be ±10%



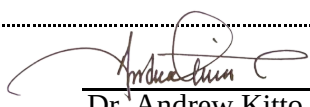
Dr. Andrew Kitto
 President

CLIENT: **City of Redlands**
 LABORATORY NO: **22-538**
 SAMPLING DATE: **06/03/22**
 RECEIVING DATE: **06/03/22**
 ANALYSIS DATE: **06/03/22**
 REPORT DATE: **06/05/22**

Laboratory Analysis Report

Analysis Method: ASTM 1945-03 ; HHV Calculations: ASTM 3588-98

Analyte, Units	Sample ID	Effluent Outlet	Influent Inlet
	Sample Date	06/03/22	06/03/22
	Sample Time	-	-
	Lab ID	15422-13	15422-14
	Units	Mole %	Mole %
Methane, %		61.18	61.42
Ethane, %		<0.01	<0.01
Ethylene, %		<0.01	<0.01
Propane, %		<0.01	<0.01
Propylene, %		<0.01	<0.01
i-Butane, %		<0.01	<0.01
n-Butane, %		<0.01	<0.01
1-Butene, %		<0.01	<0.01
i-Butylene, %		<0.01	<0.01
trans-2-Butene, %		<0.01	<0.01
cis-2-Butene, %		<0.01	<0.01
i-Pentane, %		<0.01	<0.01
n-Pentane, %		<0.01	<0.01
2,2-Dimethyl Butane, %		<0.01	<0.01
2,3-Dimethyl Butane, %		<0.01	<0.01
2-Methyl Pentane, %		<0.01	<0.01
3-Methyl Pentane, %		<0.01	<0.01
n-Hexane, %		<0.01	<0.01
C6+, %		<0.01	0.05
CO ₂ , %		37.56	38.19
CO, %		<0.01	<0.01
O ₂ , %		0.08	<0.01
N ₂ , %		1.18	0.30
H ₂ , %		<0.01	<0.01
H ₂ S, %		<0.01	<0.01
Average Molecular Weight		26.701	26.801
Total Wt.% Adjusted Sp. Gravity		0.9219	0.9253
Compressibility Factor (14.696 Psi, 60 F)		0.9974	0.9974
NET BTU/Cub. Ft		556	561
GROSS BTU/Cub. Ft		618	623
CHONS		%	%
Carbon		44.42	44.77
Hydrogen		9.24	9.27
Oxygen		45.11	45.65
Nitrogen		1.23	0.31
Sulfur		<0.01	<0.01
Dry F Factor (60 F, 1 Atm);		9184	9178
SDCF/MMBTU, ASTM 3588			


 Dr. Andrew Kitto
 President



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REPORT DATE: 06/05/22

Laboratory Analysis Report

Analysis Method	SCAQMD 25.1			
Detection Limits	1.0 PPMV			
Sample ID #	Lab Sample ID	Methane Mole %	Ethane PPMV	TNMNEOC PPMV
Effluent Outlet	15422-13	61.2	<1.0	1.98
Influent Inlet	15422-14	61.4	<1.0	3246

TNMNEOC: Total non-Methane non-Ethane Organic Carbon

A handwritten signature in black ink, appearing to read "Dr. Andrew Kitto", is written over a horizontal line.

Dr. Andrew Kitto
President

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Quality Control/Quality Assurance Report (Method 25.1)

I- Blank

Lab ID	Analyte	Result
N2 Blank - Open	NMNEOC	<1.0
N2 Blank - Close	NMNEOC	<1.0

II- Initial Calibration Verification Standard

Lab ID	Analyte	Theoretical Value PPMV	Tested Value PPMV	% Recovery*
ICV	Methane	96.80	97.79	101%
ICV	Ethylene	97.00	98.10	101%
ICV	Ethane	98.70	99.78	101%
ICV	TNMNEOC	99.80	100.75	101%

* Must be $\pm 10\%$

III- Backflush & Closing Calibration Standard

Lab ID	Analyte	Theoretical Value PPMV	Tested Value PPMV	% Recovery**
CCV 1	TNMNEOC	10.00	9.95	100%
CCV 2	TNMNEOC	1800	1812	101%

TNMNEOC: Total non-Methane non-Ethane Organic carbon

**Must be $\pm 10\%$



Dr. Andrew Kitto
 President



CHAIN OF CUSTODY

Email: andrewkitto.quantum@gmail.com

Page: 1 of: 1[illegible]