

Atmospheric Analysis & Consulting, Inc.

CLIENT

: Eurofins Air Toxics, Inc.

PROJECT NAME

: MO DNR - Bridgeton LF

AAC PROJECT NO. REPORT DATE : 160031 : 1/11/2016

On January 8, 2016, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Silonite Canisters for TRS analysis by ASTM D-5504. Upon receipt, each sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.	Initial Pressure (mmHg)
D1 (154688)	160031-86523	634.8
U1 (154687)	160031-86524	640.0

ASTM D-5504 Analysis - Up to a 1 mL aliquot of sample is injected into the GC/SCD for analysis following ASTM D-5504 as specified in the SOW.

No problems were encountered during receiving, preparation and/or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# AACI-ASTM D-5504.

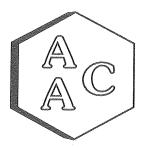
I certify that this data is technically accurate, complete and in compliance with the terms and conditions of the contract. The Laboratory Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy data package.

If you have any questions or require further explanation of data results, please contact the undersigned.

Marcus Hueppe Laboratory Director

This report consists of 4 pages.





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT

: Eurofins Air Toxics, Inc.

PROJECT NO. MATRIX

: 160031

: AIR

UNITS

: ppmV

SAMPLING DATE

: 01/06/2016

RECEIVING DATE

: 01/08/2016

ANALYSIS DATE

: 01/09/2016

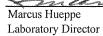
REPORT DATE

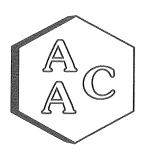
: 01/11/2016

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	D1 (154688)	U1 (154687)			
AAC ID	160031-86523	160031-86524			
Canister Dil. Fac.	1.4	1.4			
Analyte	Result	Result			
Hydrogen Sulfide	< 0.014	< 0.014			
Carbonyl Sulfide	< 0.014	< 0.014			
Sulfur Dioxide	< 0.014	< 0.014			
Methyl Mercaptan	< 0.014	< 0.014			
Ethyl Mercaptan	< 0.014	< 0.014			
Dimethyl Sulfide	< 0.014	< 0.014			
Carbon Disulfide	< 0.014	< 0.014			
Isopropyl Mercaptan	< 0.014	< 0.014			
tert-Butyl Mercaptan	< 0.014	< 0.014			
n-Propyl Mercaptan	< 0.014	< 0.014			
Methylethylsulfide	< 0.014	< 0.014			
sec-Butyl Mercaptan	< 0.014	< 0.014			
Thiophene	< 0.014	< 0.014			
iso-Butyl Mercaptan	< 0.014	< 0.014			
Diethyl Sulfide	< 0.014	< 0.014			
n-Butyl Mercaptan	< 0.014	< 0.014			
Dimethyl Disulfide	< 0.014	< 0.014			
2-Methylthiophene	< 0.014	< 0.014			
3-Methylthiophene	< 0.014	< 0.014			
Tetrahydrothiophene	< 0.014	< 0.014			
Bromothiophene	< 0.014	< 0.014			
Thiophenol	< 0.014	< 0.014			
Diethyl disulfide	< 0.014	< 0.014			
Total Unidentified Sulfur	< 0.014	< 0.014			
Total Reduced Sulfurs as H ₂ S	< 0.014	< 0.014			

All compound's concentrations expressed in terms of H2S (TRS does not include COS and SO2) Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report **SCAQMD 307.91**

Date Analyzed: 1/9/2016 Analyst:

Instrument ID: SCD#10

Calb. Date:

1/7/2016

Opening Calibration Verification Standard

	Resp. (area)	Result (ppbV)	% Rec *	% RPD ****
Initial	5284	506	101.2	NA
Duplicate	5323	510	102.0	0.7
Triplicate	5248	503	100.5	0.7

Method Blank

Analyte	Result
H2S	ND

Duplicate Analysis

Sample ID 160031-86523

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H2S	0.0	0.0	0.0	0.0

Matrix Spike & Duplicate

Sample ID 160031-86523

A 1	Sample	Spike	MS	MSD	MS	MSD	% RPD ***
Analyte	Conc.	Added	Result	Result	% Rec **	% Rec **	70 KI D
H2S	0.0	250.0	254.0	251.2	101.6	100.5	1.1

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result (ppbV)	% Rec **
H2S	500.0	497.3	99.5

^{*} Must be 95-105%

Marcus Hueppe **Laboratory Director**



^{**} Must be 90-110%

^{***} Must be < 10%

^{****} Must be < 5% RPD from Initial result.



ATMOSPHERIC ANALYSIS & CONSULTING, INC.
1534 Eastman Avenue, Suite A
Ventura, California 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-mail: info@aaclab.com

AAC Project No. 16063

Page of

	Fint Name:	Print I										On #927 1/6/16 1305 timed	17	AAC Date Time Sample Sample No. Sampled Sampled Type	Name (Print Name)			College Section of the Control of th
12x 1 and 4 filters	0	esa theran										15- (+891,SI) IN E	DI (15/1888)	Client Sample ID/Description	Sampler's Signature	Project Number	Project Name	CITATE OF COSTODI/ ANALISIS REQUEST FORM
547-	Date/Time Received by (signature):	Date/Time $\frac{1334}{6/6}$ Received by (signature):										AS98 X		Type/No-of	\$50°	1	Analysis Requested	ALIVO KIQUIDO TORN
	Print Name	Print Name		obboktsb209mgh0x21	Tracking #	Special Instructions/remarks:	5 Day Normal Other (Specify)	24 - 48 Hr 72 Hr	Turnaround Time	P.O. # 3857160486	Attn:	1	Send invoice to:	Phone#:	Attn:		Send report:	