Atmospheric Analysis & Consulting, Inc.

CLIENT	: Eurofins Air Toxics, Inc.
PROJECT NAME	: MO DNR – Bridgeton LF
AAC PROJECT NO.	: 160031
REPORT DATE	: 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.

ACCREDITED IN ACCORDANCE WITH nelac Certificate #E87837

1534 Eastman Ave., Ste. A • Ventura, • CA 93003 www.aaclab.com • (805) 650-1642 • FAX (805) 650-1644

LABORATORY ANALYSIS REPORT

CLIENT	**: Eurofins Air Toxics, Inc.**	**SAMPLING DATE**	**: 01/06/2016**
PROJECT NO.	**: 160031**	**RECEIVING DATE**	**: 01/08/2016**
MATRIX	**: AIR**	**ANALYSIS DATE**	**: 01/09/2016**
UNITS	**: ppmV**	**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_2S	< 0.014	< 0.014

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

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Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 1/9/2016
Analyst: ZB

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

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
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%*
*** Must be 90-110%*
**** Must be < 10%*
***** Must be < 5% RPD from Initial result.*

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Laboratory Director

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AAC Project No. 160031

CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

Client Name: MO DNR
Project Name: Bridgeton LF
Project Mgr (Print Name): Michael Parris
Project Number:
Sampler's Name (Print Name): Teresa Thevary
Sampler's Signature:

AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers: Start pressure / End pressure	Analysis Requested: TO15SIM					
Can #920	1/6/16	1207 - 1247	Summa - Timed	D1 (154688)	-30 / -6			X	86573		
Can #927	1/6/16	1219 - 1305	Summa - Timed	U1 (154687)	-30 / -6			X	86524		
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Send report:
Attn:
Phone#:
Fax#

Send invoice to:
Attn:
P.O. # 3ESP160486

Turnaround Time
24 - 48 Hr ____ 72 Hr ____
5 Day X Normal ____
Other (Specify) ____

Special Instructions/remarks:
Shipped via UPS
Tracking #
1ZR040W60298790990

Relinquished by (Signature):	Print Name:	Date/Time	Received by (signature):	Print Name
	Teresa Thevary	1/6/16 1334		
Relinquished by (Signature):	Print Name:	Date/Time	Received by (signature):	Print Name
				1/8/16 1000

2x cans + filters

-UPS