

9/16/2024

Ms. Cheryl Tophinke
Burns & McDonnell
425 South Wood Mill Road
Suite 300
Chesterfield MO 63017

Project Name: AUS Fuels Fenceline
Project #: 33133.50ENS-SLO.03
Workorder #: 2408774

Dear Ms. Cheryl Tophinke

The following report includes the data for the above referenced project for sample(s) received on 8/29/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by EPA Method 325B are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Shannon Eubank at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Shannon Eubank
Project Manager

WORK ORDER #: 2408774

Work Order Summary

CLIENT: Ms. Cheryl Tophinke
Burns & McDonnell
425 South Wood Mill Road
Suite 300
Chesterfield, MO 63017

BILL TO: Accounts Payable-Standard invoicing
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

PHONE: 314-682-1653

P.O. # 215765

FAX: 314-682-1600

PROJECT # 33133.50ENS-SLO.03 AUS Fuels

DATE RECEIVED: 08/29/2024

CONTACT: Fenceline
Shannon Eubank

DATE COMPLETED: 09/16/2024

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	Station 3	EPA Method 325B
02A	Station 4	EPA Method 325B
03A	Station 5	EPA Method 325B
04A	Duplicate	EPA Method 325B
05A	Field Blank	EPA Method 325B
06A	Station 1	EPA Method 325B
07A	Station 2	EPA Method 325B
08A	Lab Blank	EPA Method 325B
09A	CCV	EPA Method 325B

CERTIFIED BY:



Technical Director

DATE: 09/16/24

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP-02089, MN NELAP-2703122, NH NELAP-209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000

LABORATORY NARRATIVE
ATM EPA 325B
Burns & McDonnell
Workorder# 2408774

Seven Carbopack B CAMSCO samples were received on August 29, 2024. The laboratory performed the analysis via EPA Method 325B using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the uptake rate for each VOC. Uptake rates are adjusted for local conditions and concentrations are reported based on normal ambient temperature and pressure conditions (25 deg C and 760 mm Hg) following the required calculations in EPA Method 325B. These adjustments are reflected in the dilution factor.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Project specified analytes 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,2,3-Trimethylbenzene are outside the laboratory's NELAP scope of accreditation. The reported concentrations were supported by an initial calibration compliant with EPA 325B and a desorption efficiency verification. A second source verification and a Method Detection Limit (MDL) study were not analyzed. In the absence of MDL values, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,2,3-Trimethylbenzene were evaluated to the Reporting Limit. All other analytes were reported to the MDL per method requirement.

The sample Field Blank contains greater than one-third of the measured target analyte Benzene in sample Station 2. Associated sample results are B-flagged to indicate a likely high bias due to field blank background.

Definition of Data Qualifying Flags

The following qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte (background subtraction not performed).
- J - Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the MDL value.
- I - Internal Standard recovery outside acceptance limits
- P - Field Duplicate(s) exceed 30%RPD
- Pc- Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.
- Pl - Field Duplicate(s) exceed 30%RPD, lab anomaly noted.
- L - Recovery of bracketing CCV(s) exceeded acceptance limits.
- H - Sample analyzed outside of method hold time.
- D - Sample duration outside 14+/-1 days
- Fe - Field Error or discrepancy

Te - Tube Error or discrepancy
CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
EPA METHOD 325B GC/MS FULL SCAN**

Client Sample ID: Station 3

Lab ID#: 2408774-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.64
Toluene	0.44	1.2
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	0.46 J
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.099 J

Client Sample ID: Station 4

Lab ID#: 2408774-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.71
Toluene	0.44	2.2
Ethyl Benzene	0.50	0.30 J
m,p-Xylene	0.52	1.6
o-Xylene	0.52	0.46 J
Naphthalene	0.11	0.066 U

Client Sample ID: Station 5

Lab ID#: 2408774-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.96
Toluene	0.44	4.6
Ethyl Benzene	0.50	0.73
m,p-Xylene	0.52	4.7
o-Xylene	0.52	1.3
Naphthalene	0.11	0.11
1,2,4-Trimethylbenzene	0.56	1.8
1,3,5-Trimethylbenzene	0.56	1.0

**Summary of Detected Compounds
EPA METHOD 325B GC/MS FULL SCAN**

Client Sample ID: Duplicate

Lab ID#: 2408774-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	1.1
Toluene	0.44	4.6
Ethyl Benzene	0.50	0.72
m,p-Xylene	0.52	4.5
o-Xylene	0.52	1.2
Naphthalene	0.11	0.12
1,2,4-Trimethylbenzene	0.56	1.8
1,3,5-Trimethylbenzene	0.56	1.0

Client Sample ID: Field Blank

Lab ID#: 2408774-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.21 J
Toluene	0.44	0.22 U
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	0.26 U
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.066 U

Client Sample ID: Station 1

Lab ID#: 2408774-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.73
Toluene	0.44	2.2
Ethyl Benzene	0.50	0.30 J
m,p-Xylene	0.52	1.6
o-Xylene	0.52	0.46 J
Naphthalene	0.11	0.066 U

Summary of Detected Compounds
EPA METHOD 325B GC/MS FULL SCAN

Client Sample ID: Station 2

Lab ID#: 2408774-07A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.62 B
Toluene	0.44	1.8
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	1.3
o-Xylene	0.52	0.38 J
Naphthalene	0.11	0.066 U

Client Sample ID: Station 3

Lab ID#: 2408774-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091407	Date of Collection: 8/28/24 9:54:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 12:47 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.64
Toluene	0.44	1.2
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	0.46 J
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.099 J
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

U = The analyte was not present above the Method Detection Limit.

J = Estimated value.

Container Type: Carbo-pack B CAMSCO



Air Toxics

Client Sample ID: Station 4

Lab ID#: 2408774-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091408	Date of Collection: 8/28/24 10:01:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 01:17 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.71
Toluene	0.44	2.2
Ethyl Benzene	0.50	0.30 J
m,p-Xylene	0.52	1.6
o-Xylene	0.52	0.46 J
Naphthalene	0.11	0.066 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack B CAMSCO

Client Sample ID: Station 5

Lab ID#: 2408774-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091409	Date of Collection: 8/28/24 10:09:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 01:47 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.96
Toluene	0.44	4.6
Ethyl Benzene	0.50	0.73
m,p-Xylene	0.52	4.7
o-Xylene	0.52	1.3
Naphthalene	0.11	0.11
1,2,4-Trimethylbenzene	0.56	1.8
1,3,5-Trimethylbenzene	0.56	1.0
1,2,3-Trimethylbenzene	0.56	Not Detected

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 2408774-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091410	Date of Collection: 8/28/24 10:11:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 02:17 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	1.1
Toluene	0.44	4.6
Ethyl Benzene	0.50	0.72
m,p-Xylene	0.52	4.5
o-Xylene	0.52	1.2

Naphthalene	0.11	0.12
1,2,4-Trimethylbenzene	0.56	1.8
1,3,5-Trimethylbenzene	0.56	1.0
1,2,3-Trimethylbenzene	0.56	Not Detected

Container Type: Carbopack B CAMSCO

Client Sample ID: Field Blank

Lab ID#: 2408774-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091406	Date of Collection: 8/28/24 10:13:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 12:18 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.21 J
Toluene	0.44	0.22 U
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	0.26 U
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.066 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbo-pack B CAMSCO

Client Sample ID: Station 1

Lab ID#: 2408774-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091411	Date of Collection: 8/28/24 10:16:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 02:46 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.73
Toluene	0.44	2.2
Ethyl Benzene	0.50	0.30 J
m,p-Xylene	0.52	1.6
o-Xylene	0.52	0.46 J
Naphthalene	0.11	0.066 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Station 2

Lab ID#: 2408774-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091412	Date of Collection: 8/28/24 10:27:00 AM
Dil. Factor:	0.992	Date of Analysis: 9/14/24 03:16 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.62 B
Toluene	0.44	1.8
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.52	1.3
o-Xylene	0.52	0.38 J
Naphthalene	0.11	0.066 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

B = Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte (background subtraction not performed).

U = The analyte was not present above the Method Detection Limit.

J = Estimated value.

Container Type: Carbo-pack B CAMSCO



Client Sample ID: Lab Blank

Lab ID#: 2408774-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091405	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/14/24 11:30 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.20 U
Toluene	0.44	0.22 U
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.53	0.26 U
o-Xylene	0.53	0.26 U
Naphthalene	0.11	0.066 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

U = The analyte was not present above the Method Detection Limit.

Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 2408774-09A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80091413	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/24 03:41 PM
		Date of Extraction: NA

Compound	%Recovery
----------	-----------

Benzene	104
Toluene	100
Ethyl Benzene	98
m,p-Xylene	98
o-Xylene	98

Naphthalene	98
1,2,4-Trimethylbenzene	99
1,3,5-Trimethylbenzene	97
1,2,3-Trimethylbenzene	98

Container Type: NA - Not Applicable

Method : EPA Method 325B-BTEX + Naph + TMB Isomers (ug/m3) 14 day (CB)

CAS Number	Compound	Rpt. Limit (ug/m3)
71-43-2	Benzene	0.39
108-88-3	Toluene	0.44
100-41-4	Ethyl Benzene	0.50
108-38-3	m,p-Xylene	0.53
95-47-6	o-Xylene	0.53
91-20-3	Naphthalene	0.11
95-63-6	1,2,4-Trimethylbenzene	0.56
108-67-8	1,3,5-Trimethylbenzene	0.56
526-73-8	1,2,3-Trimethylbenzene	0.56

