

7/5/2024

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 #: 2406459

Dear Ms. Cheryl Tophinke

The following report includes the data for the above referenced project for sample(s) received on 6/20/2024 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 #: 2406459

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:	06/20/2024	CONTACT:	Fenceline Shannon Eubank
DATE COMPLETED:	07/03/2024		

<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: 07/03/24

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000

LABORATORY NARRATIVE
ATM EPA 325B
Burns & McDonnell
Workorder# 2406459

Seven Carbopack B CAMSCO samples were received on June 20, 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.

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#: 2406459-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.53
Toluene	0.43	1.1
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.62
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U

Client Sample ID: Station 4

Lab ID#: 2406459-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.77
Toluene	0.43	2.4
Ethyl Benzene	0.49	0.40 J
m,p-Xylene	0.52	2.1
o-Xylene	0.52	0.63
Naphthalene	0.11	0.082 J
1,2,4-Trimethylbenzene	0.55	0.72

Client Sample ID: Station 5

Lab ID#: 2406459-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.71
Toluene	0.43	3.5
Ethyl Benzene	0.49	0.69
m,p-Xylene	0.52	4.0
o-Xylene	0.52	1.2
Naphthalene	0.11	0.11
1,2,4-Trimethylbenzene	0.55	1.7
1,3,5-Trimethylbenzene	0.55	0.84

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

Client Sample ID: Duplicate

Lab ID#: 2406459-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.78
Toluene	0.43	3.6
Ethyl Benzene	0.49	0.70
m,p-Xylene	0.52	4.0
o-Xylene	0.52	1.2
Naphthalene	0.11	0.12
1,2,4-Trimethylbenzene	0.55	1.7
1,3,5-Trimethylbenzene	0.55	0.87

Client Sample ID: Field Blank

Lab ID#: 2406459-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.19 U
Toluene	0.43	0.22 U
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.26 U
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U

Client Sample ID: Station 1

Lab ID#: 2406459-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.57
Toluene	0.43	1.3
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.78
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U

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

Client Sample ID: Station 2

Lab ID#: 2406459-07A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.63
Toluene	0.43	1.8
Ethyl Benzene	0.49	0.29 J
m,p-Xylene	0.52	1.5
o-Xylene	0.52	0.45 J
Naphthalene	0.11	0.065 U



Client Sample ID: Station 3

Lab ID#: 2406459-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062107	Date of Collection:	6/19/24 9:44:00 AM
Dil. Factor:	0.985	Date of Analysis:	6/21/24 12:44 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.53
Toluene	0.43	1.1
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.62
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U
1,2,4-Trimethylbenzene	0.55	Not Detected
1,3,5-Trimethylbenzene	0.55	Not Detected
1,2,3-Trimethylbenzene	0.55	Not Detected

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

Container Type: Carbopack B CAMSCO



Client Sample ID: Station 4

Lab ID#: 2406459-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062108	Date of Collection:	6/19/24 9:53:00 AM
Dil. Factor:	0.985	Date of Analysis:	6/21/24 01:13 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.77
Toluene	0.43	2.4
Ethyl Benzene	0.49	0.40 J
m,p-Xylene	0.52	2.1
o-Xylene	0.52	0.63

Naphthalene	0.11	0.082 J
1,2,4-Trimethylbenzene	0.55	0.72
1,3,5-Trimethylbenzene	0.55	Not Detected
1,2,3-Trimethylbenzene	0.55	Not Detected

J = Estimated value.

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Station 5

Lab ID#: 2406459-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062109	Date of Collection: 6/19/24 10:00:00 AM
Dil. Factor:	0.985	Date of Analysis: 6/21/24 01:43 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.71
Toluene	0.43	3.5
Ethyl Benzene	0.49	0.69
m,p-Xylene	0.52	4.0
o-Xylene	0.52	1.2

Naphthalene	0.11	0.11
1,2,4-Trimethylbenzene	0.55	1.7
1,3,5-Trimethylbenzene	0.55	0.84
1,2,3-Trimethylbenzene	0.55	Not Detected

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 2406459-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062110	Date of Collection:	6/19/24 10:01:00 AM
Dil. Factor:	0.985	Date of Analysis:	6/21/24 02:13 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.78
Toluene	0.43	3.6
Ethyl Benzene	0.49	0.70
m,p-Xylene	0.52	4.0
o-Xylene	0.52	1.2

Naphthalene	0.11	0.12
1,2,4-Trimethylbenzene	0.55	1.7
1,3,5-Trimethylbenzene	0.55	0.87
1,2,3-Trimethylbenzene	0.55	Not Detected

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Field Blank

Lab ID#: 2406459-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062106	Date of Collection: 6/19/24 10:02:00 AM
Dil. Factor:	0.985	Date of Analysis: 6/21/24 12:14 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.19 U
Toluene	0.43	0.22 U
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.26 U
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U
1,2,4-Trimethylbenzene	0.55	Not Detected
1,3,5-Trimethylbenzene	0.55	Not Detected
1,2,3-Trimethylbenzene	0.55	Not Detected

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

Container Type: Carbopack B CAMSCO



Air Toxics

Client Sample ID: Station 1

Lab ID#: 2406459-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062111	Date of Collection:	6/19/24 10:10:00 AM
Dil. Factor:	0.985	Date of Analysis:	6/21/24 02:43 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.57
Toluene	0.43	1.3
Ethyl Benzene	0.49	0.24 U
m,p-Xylene	0.52	0.78
o-Xylene	0.52	0.26 U
Naphthalene	0.11	0.065 U
1,2,4-Trimethylbenzene	0.55	Not Detected
1,3,5-Trimethylbenzene	0.55	Not Detected
1,2,3-Trimethylbenzene	0.55	Not Detected

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#: 2406459-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062112	Date of Collection: 6/19/24 10:17:00 AM
Dil. Factor:	0.985	Date of Analysis: 6/21/24 03:12 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.63
Toluene	0.43	1.8
Ethyl Benzene	0.49	0.29 J
m,p-Xylene	0.52	1.5
o-Xylene	0.52	0.45 J
Naphthalene	0.11	0.065 U
1,2,4-Trimethylbenzene	0.55	Not Detected
1,3,5-Trimethylbenzene	0.55	Not Detected
1,2,3-Trimethylbenzene	0.55	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: Lab Blank

Lab ID#: 2406459-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062105	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/21/24 11:22 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



Air Toxics

Client Sample ID: CCV

Lab ID#: 2406459-09A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	80062116	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/21/24 04:53 PM
		Date of Extraction: NA

Compound	%Recovery
Benzene	92
Toluene	92
Ethyl Benzene	90
m,p-Xylene	90
o-Xylene	89

Naphthalene	85
1,2,4-Trimethylbenzene	86
1,3,5-Trimethylbenzene	86
1,2,3-Trimethylbenzene	86

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

EPA Method 325 Chain of Custody (Passive)

Deploy Tubes by: 06/10/24
(Date)

Kit ID: A B C D
(Circle One)

Case Seal#: 5023439 Return Seal#: 5823440

WO#: 2406459

Client: Burns McDonnell

PID: _____ P.O.#: _____

Project Name: AUS Fuels Fuelline

Project Manager: Cheryl Tophinke

Site Name: AB1A - Austin, Texas

Collected by: _____

Lab ID	Sample Identification	Station	Carbopack X Tube ID	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Location (gps)	Sample Type (check one)			Target List		Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify _____
									Routine Sample	Field Duplicate	Field Blank	Benzene	Project VOC list	
0A	Station 3	3	899470	6/5/24	9:40	6/19/24	9:44			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Station 4	4	899497	6/5/24	9:50	6/19/24	9:53			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Station 5	5	899492	6/5/24	9:59	6/19/24	10:00			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Duplicate	DUP	899495	6/5/24	10:02	6/19/24	10:01			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Field Blank	FB	899496	6/5/24	10:04	6/19/24	10:02			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Station 1	1	899462	6/5/24	10:07	6/19/24	10:10			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
0A	Station 2	2	899469	6/5/24	10:16	6/19/24	10:17			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Relinquished by: Tammy Gilley Date: 6/19/24 Time: 10:40A Received by: Armin D. Carr Date: 6/26/24 Time: 0955

Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples.

Shipper Name: Fedex

Custody Seals Intact? Yes No None

Sample Condition Upon Receipt: Good

Blue Ice present or insulated cooler used? Yes No

Lab Use Only

Avg Ambient Temperature: _____
Units: °F °C

Avg Barometric Pressure: _____
Units: hPa atm inHg mmHg