

8/22/2019
Ms. Jesse Miller
CAMSCO
6732 Mayard

Houston TX 77041

Project Name:
Project #:
Workorder #: 1908338

Dear Ms. Jesse Miller

The following report includes the data for the above referenced project for sample(s) received on 8/15/2019 at Air Toxics Ltd.

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 Inc. 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: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1908338

Work Order Summary

CLIENT:	Ms. Jesse Miller CAMSCO 6732 Mayard Houston, TX 77041	BILL TO:	Mr. Jason Robles CAMSCO 6732 Mayard Houston, TX 77041
PHONE:	713-983-0200	P.O. #	
FAX:		PROJECT #	
DATE RECEIVED:	08/15/2019	CONTACT:	Ausha Scott
DATE COMPLETED:	08/22/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	ECOKE-DEP ECP 01-002-R	EPA Method 325B
02A	ECOKE-DEP ECP 01-002-D	EPA Method 325B
03A	ECOKE-DEP ECP 02-002-R	EPA Method 325B
04A	ECOKE-DEP ECP 03-002-R	EPA Method 325B
05A	ECOKE-DEP ECP 04-002-R	EPA Method 325B
06A	ECOKE-DEP ECP 05-002-R	EPA Method 325B
07A	ECOKE-DEP ECP 06-002-R	EPA Method 325B
08A	ECOKE-DEP ECP 06-002-B	EPA Method 325B
09A	ECOKE-DEP ECP 07-002-R	EPA Method 325B
10A	ECOKE-DEP ECP 08-002-R	EPA Method 325B
11A	ECOKE-DEP ECP 09-002-R	EPA Method 325B
12A	ECOKE-DEP ECP 10-002-R	EPA Method 325B
13A	ECOKE-DEP ECP 11-002-R	EPA Method 325B
14A	ECOKE-DEP ECP 12-002-R	EPA Method 325B
15A	ECOKE-DEP ECP 13-002-R	EPA Method 325B
16A	Lab Blank	EPA Method 325B
17A	CCV	EPA Method 325B
17B	CCV	EPA Method 325B

CERTIFIED BY: 

 Technical Director

DATE: 08/22/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

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

Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
ATM EPA 325B
CAMSCO
Workorder# 1908338

Fifteen Carbopack X CAMSCO samples were received on August 15, 2019. 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 EPA-approved calculations in Alternative Test Method 122. These adjustments are reflected in the dilution factor.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

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 replicate pair less than 2 times reporting limit.

Pl - Field Duplicate(s) exceed 30%RPD, lab error 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: ECOKE-DEP ECP 01-002-R

Lab ID#: 1908338-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.3
Toluene	0.48	1.3
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.37 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 01-002-D

Lab ID#: 1908338-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.3
Toluene	0.48	1.2
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.36 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 02-002-R

Lab ID#: 1908338-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.6
Toluene	0.48	0.91
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.37 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 03-002-R

Lab ID#: 1908338-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.1
Toluene	0.48	0.69

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

Client Sample ID: ECOKE-DEP ECP 03-002-R

Lab ID#: 1908338-04A

Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 04-002-R

Lab ID#: 1908338-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	6.4
Toluene	0.48	2.2
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.64
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 05-002-R

Lab ID#: 1908338-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.4
Toluene	0.48	1.3
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.40 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 06-002-R

Lab ID#: 1908338-07A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.96
Toluene	0.48	0.60
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Client Sample ID: ECOKE-DEP ECP 06-002-B

Lab ID#: 1908338-08A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.19 U
Toluene	0.48	0.24 U
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 07-002-R

Lab ID#: 1908338-09A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.67
Toluene	0.48	0.61
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 08-002-R

Lab ID#: 1908338-10A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.57
Toluene	0.48	0.47 J
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 09-002-R

Lab ID#: 1908338-11A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.63
Toluene	0.48	1.0

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

Client Sample ID: ECOKE-DEP ECP 09-002-R

Lab ID#: 1908338-11A

Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.38 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 10-002-R

Lab ID#: 1908338-12A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.4
Toluene	0.48	0.84
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 11-002-R

Lab ID#: 1908338-13A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.98
Toluene	0.48	0.76
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.31 J
o-Xylene	0.54	0.27 U

Client Sample ID: ECOKE-DEP ECP 12-002-R

Lab ID#: 1908338-14A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.66
Toluene	0.48	0.64
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Client Sample ID: ECOKE-DEP ECP 13-002-R

Lab ID#: 1908338-15A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.41
Toluene	0.48	0.76
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.33 J
o-Xylene	0.54	0.27 U



Air Toxics

Client Sample ID: ECOKE-DEP ECP 01-002-R

Lab ID#: 1908338-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081621	Date of Collection:	8/14/19 10:01:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 02:21 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.3
Toluene	0.48	1.3
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.37 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carboxpack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 01-002-D

Lab ID#: 1908338-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081622	Date of Collection:	8/14/19 10:02:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 02:50 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.3
Toluene	0.48	1.2
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.36 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carbotack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 02-002-R

Lab ID#: 1908338-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081623	Date of Collection:	8/14/19 10:13:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 03:18 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.6
Toluene	0.48	0.91
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.37 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carboxpack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 03-002-R

Lab ID#: 1908338-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081624	Date of Collection:	8/14/19 10:19:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 03:47 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.1
Toluene	0.48	0.69
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO

Client Sample ID: ECOKE-DEP ECP 04-002-R

Lab ID#: 1908338-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081625	Date of Collection: 8/14/19 10:22:00 AM
Dil. Factor:	1.00	Date of Analysis: 8/16/19 04:16 PM
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	6.4
Toluene	0.48	2.2
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.64
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO

Client Sample ID: ECOKE-DEP ECP 05-002-R

Lab ID#: 1908338-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081626	Date of Collection:	8/14/19 10:27:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 04:44 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	3.4
Toluene	0.48	1.3
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.40 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 06-002-R

Lab ID#: 1908338-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081627	Date of Collection:	8/14/19 10:34:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 05:13 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.96
Toluene	0.48	0.60
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 06-002-B

Lab ID#: 1908338-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081620	Date of Collection:	8/14/19 10:33:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 01:52 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.19 U
Toluene	0.48	0.24 U
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 07-002-R

Lab ID#: 1908338-09A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081628	Date of Collection:	8/14/19 10:39:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 05:42 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.67
Toluene	0.48	0.61
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 08-002-R

Lab ID#: 1908338-10A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081629	Date of Collection:	8/14/19 10:44:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 06:10 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.57
Toluene	0.48	0.47 J
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

J = Estimated value.

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 09-002-R

Lab ID#: 1908338-11A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081631	Date of Collection:	8/14/19 10:50:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 07:02 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.63
Toluene	0.48	1.0
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.38 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carbotack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 10-002-R

Lab ID#: 1908338-12A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081632	Date of Collection:	8/14/19 11:36:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 07:31 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	1.4
Toluene	0.48	0.84
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 11-002-R

Lab ID#: 1908338-13A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081633	Date of Collection:	8/14/19 11:09:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 07:59 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.98
Toluene	0.48	0.76
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.31 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carbotack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 12-002-R

Lab ID#: 1908338-14A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081634	Date of Collection:	8/14/19 11:20:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 08:28 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.66
Toluene	0.48	0.64
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: ECOKE-DEP ECP 13-002-R

Lab ID#: 1908338-15A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081635	Date of Collection:	8/14/19 11:55:00 AM
Dil. Factor:	1.00	Date of Analysis:	8/16/19 08:56 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.41
Toluene	0.48	0.76
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.33 J
o-Xylene	0.54	0.27 U

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

J = Estimated value.

Container Type: Carbopack X CAMSCO



Client Sample ID: Lab Blank

Lab ID#: 1908338-16A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081619	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/16/19 01:11 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.18 U
Toluene	0.48	0.24 U
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

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

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: CCV

Lab ID#: 1908338-17A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081630	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/19 06:34 PM
		Date of Extraction: NA

Compound	%Recovery
Benzene	97
Toluene	96
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	95

Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 1908338-17B

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f081641	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/19 11:42 PM
		Date of Extraction: NA

Compound	%Recovery
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Benzene	104
Toluene	108
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	107

Container Type: NA - Not Applicable