



REPORT

July 2024 Ambient Air Monitoring Report Rain Carbon Canada Inc.

Submitted by:

Rain Carbon Canada Inc.

725 Strathearne Avenue North Hamilton, Ontario L8H 5L3

August 2024

Distribution List

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1.0 INTRODUCTION

Rain Carbon Canada Inc. (Rain Carbon) is required to prepare monthly written summary reports of benzo(a)pyrene [B(a)P] and benzene ambient monitoring measurements for the coal tar and petroleum material processing plant located at 725 Strathearne Avenue N., Hamilton, Ontario (the Facility). This is the seventy first monthly report submitted as part of the Rain Carbon ambient monitoring program and summarizes the measurements taken in July 2024.

The ambient air monitoring measurements for July 2024 follow the November 12, 2019, Monitoring Plan for B(a)P and Benzene (the Plan) approved by the Ontario Ministry of the Environment, Conservation and Parks (MECP) on December 20, 2019. A copy of the Plan has been provided in Appendix A.

Rain Carbon operates the fence line monitors for benzene and B(a)P at the East, North, South, New West, and Old West environmental monitoring stations. Rain Carbon conducted monitoring for benzene and B(a)P monitoring off site at the HAMN station 29164 from April 2022 through September 2022 and resumed monitoring on December 7, 2022.

This report includes the following information for measurements taken in July 2024:

- Identification of each location at which a measurement was taken.
- For each location, the concentration of each measurement taken.
- The date and time each measurement was taken.

2.0 AMBIENT MONITORING STATIONS

The monitoring program consists of setting up two types of sampling systems at five locations at the Facility. The two sampling systems included the polyurethane foam (PUF) polyaromatic hydrocarbon (PAH) sampling system for B(a)P and the SUMMA volatile organic carbon (VOC) canister sampling system for benzene. Samples were collected over a 24-hour period. The monitoring stations are listed below, and their locations are shown in Figure 1.

Table 1: Rain Carbon Ambient Air Quality Monitoring Stations

Station Location	Height Above Grade (m)
North - Tank 91	4.1
East - South of Tank-36	3.4
South - Berm	3.2
New West – West Fence line at Railcar Track 2 Spot 10.	4.0
Old West - Tank-77 Platform	13.0
Hamilton Area Monitoring Network (HAMN) Station 29164	4.0

The South berm monitor is placed just over two metres above grade by the berm located on the south side of the Facility as shown in Figure 2. The Old West monitor at Tank 77 is placed on the upper platform located on the west side of the Facility as shown in Figure 3. The platform is approximately 13 metres above grade. As shown in Figure 4, the North monitor is located at the north fence line, north of Tank 91, and placed 4.1 metres above grade and at least 2 metres away from any structure. The East monitor is at the east fence line, south of Tank 36, with an inlet height of 3.4 metres above grade. The New West monitor is located at the west fence line on a new dedicated stand-alone platform at approximately 4 metres above grade.

Air quality data acquisition and instrument performance were conducted by Rain Carbon Canada Inc. personnel and the laboratory analysis was conducted by Bureau Veritas Laboratories, which is ISO1702 compliant and accredited. The following supporting documents are provided:

- Laboratory Analysis in Appendix B;
- Chain of custody forms in Appendix C;
- Laboratory Certificates of Analysis in Appendix D; and
- Field notes in Appendix E.



Figure 1: Monitor and Source Locations



Figure 2: Monitor Location on the South Side of the Facility



Figure 3: Monitor Locations on the West Side of the Facility



Figure 4: Monitor Locations on the North Side and East Side of the Facility

3.0 SUMMARY OF MONITORING EQUIPMENT CONDITIONS

The laboratory Certificate of Analysis for each monitoring event includes information on the volume of the sample collected for the PUF (B(a)P) monitoring system, and the residual vacuum pressures for the SUMMA canisters (benzene) monitoring equipment. For the PUF system, the MECP has flow requirements of 8 CFM \pm 10% which is equivalent to total volumes between 293.6 m³ and 358.8 m³ over 24 hours.

For the July 2024 B(a)P monitoring results, all the recorded PUF volumes were inside the MECP specified range of between 293.6 m³ and 358.8 m³ over 24 hours.

All the benzene SUMMA canister pressures on receipt at the laboratory for analysis had acceptable pressures of receipt of between -1.6 inches Hg and -13.4 inches Hg except for on the Wednesday July 17, 2024, MECP monitoring event where the new west VOC monitor summa canister outlet valve was inadvertently left closed after conducting a routine installation leak check and therefore no sample was obtained.

However, the new west VOC sampler was successfully operated on **Friday July 19, 2024**, to produce a new west VOC monitor make up sample.

The summa canister pressures on receipt and PUF filter total volumes are presented below in Tables 2 and 3.

Table 2: Summa Canister Pressures on Receipt ("Hg)

Monitoring	Benzene SUMMA Canister Pressure on Receipt (inches Hg)					
Event Date	East	North	Old West	South	New West	HAMN STN 29164
July 5	-8.75	-6.92	-5.90	-9.16	-6.31	-8.55
July 17	-9.36	-7.94	-6.51	-9.16	-30.00**	-9.57
July 19	-	-	-	-	-6.31	-
July 29	-8.96	-7.94	-5.90	-9.36	-6.72	-9.98

^{*}Sample is acceptable as within the MECP acceptable pressure of receipt of between -1.6 to -13.4 inches Hg but outside the MECP recommended pressure on receipt range of - 5 to -10 inches Hg.

^{**} Sample is invalid as the Summa canister pressure on receipt was outside the MECP acceptable range of -1.6 to -13.4 inches Hg.

Table 3: PUF Filter Total Volumes

N 1	+B(a)P PUF Total Volume [m³]						
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164	
July 5	322.4	295.7	334.6	311.0	300.1	325.9	
July 17	311.4	301.3	334.9	311.7	309.4	315.6	
July 29	316.2	301.2	305.8	302.5	311.3	319.6	

4.0 SUMMARY OF BENZENE MEASUREMENTS

Three sets of benzene measurements were taken in July 2024. The measurements range from 0.929 $\mu g/m^3$ to **287** $\mu g/m^3$, with the highest value being detected at the **south monitor** during the Friday July 5, 2024, MECP monitoring event.

All the benzene concentrations measured during the three July 2024 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of $100 \, \mu g/m^3$ benzene, except for on the **Friday July 5, 2024**, **MECP monitoring event** where the south monitor measured **287 \mu g/m^3** benzene, on the **Wednesday July 17, 2024**, **MECP monitoring event** where the east monitor measured **120 \mu g/m^3** benzene and on the **Monday July 27, 2024**, **MECP monitoring event** where the south monitor measured **145 \mu g/m^3** benzene.

Table 4: Summary of July 2024 Benzene Measurements

Man Hardan		М	HAMN STN 29164			
Monitoring Event Date	East	North	Old West	South	New West	
July 5	44.5	1.79	10.5	287	3.24	0.929
July 17	120	6.56	3.68	67.3	-	< 0.319
July 19	-	-	-	-	1.94	-
July 29	21.1	3.51	30.7	145	5.43	1.40

^{*}Sample is acceptable as within the MECP acceptable pressure of receipt of between -1.6 to - 13.4 inches Hg but outside the MECP recommended pressure on receipt range of -5 to -10 inches Hg.

^{**} Sample is invalid as the Summa canister pressure on receipt was outside the MECP acceptable range of -1.6 to -13.4 inches Hg.

5.0 SUMMARY OF B(a)P MEASUREMENTS.

Table 5: Summary of July 2024 B(a)P Measurements.

Manakhani		N				
Monitoring Event Date	East	North	Old West	South	New West	HAMN STN 29164
July 5	0.00074	<0.00034	0.0152	0.00051	0.00073	<0.00031
July 17	0.00231	0.00139	0.00119	0.00103	0.00149	0.00139
July 29	0.00158	0.00093	0.00177	0.00093	0.00244	0.00056

Three sets of B(a)P measurements were taken in July 2024. The B(a)P measurements ranged from $<0.00031 \,\mu\text{g/m}^3$ to $0.0152 \,\mu\text{g/m}^3$ B(a)P, with the highest value being detected at the **old west monitor** during the **Friday July 5, 2024, monitoring event**. All the B(a)P measurements are summarized in Table 5 above and copies of the laboratory analysis reports are provided in Appendix B.

All the B(a)P concentrations measured during the three July 2024 monitoring events were below the $0.0043~\mu g/m^3$ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of $0.0050~\mu g/m^3$ B(a)P, except for on the **Friday July 5, 2024, MECP monitoring event** where the old west monitor measured $0.0152~\mu g/m^3$ B(a)P.

6.0 CONCLUSIONS

All the B(a)P concentrations measured during the three July 2024 monitoring events were below the 0.0043 μ g/m³ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of 0.0050 μ g/m³ B(a)P, except for on the **Friday July 5, 2024, MECP monitoring event** where the old west monitor measured **0.0152** μ g/m³ B(a)P.

For the July 2024 B(a)P monitoring results, all the recorded PUF volumes were inside the MECP specified range of between 293.6 m³ and 358.8 m³ over 24 hours.

All the benzene concentrations measured during the three July 2024 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of $100 \, \mu g/m^3$ benzene, except for on the **Friday July 5, 2024**, **MECP monitoring event** where the south monitor measured **287** $\mu g/m^3$ benzene, on the **Wednesday July 17, 2024**, **MECP monitoring event** where the east monitor measured **120** $\mu g/m^3$ benzene and on the **Monday July 27, 2024**, **MECP monitoring event** where the south monitor measured **145** $\mu g/m^3$ benzene.

All the benzene SUMMA canister pressures on receipt at the laboratory for analysis in July 2024 had acceptable pressures of receipt of between -1.6 inches Hg and -13.4 inches Hg except at the new west VOC monitor on the Wednesday July 17, 2024, MECP monitoring event where the new west VOC monitor summa canister outlet valve was inadvertently left closed after conducting a routine leak check and therefore no sample was obtained.

However, the new west VOC sampler was successfully operated on **Friday July 19, 2024**, to produce a new west VOC monitor make up sample.

All the benzene SUMMA canister pressures on receipt at the laboratory for analysis in July 2024 had acceptable pressures of receipt of between -1.6 inches Hg and -13.4 inches Hg.

Signature Page

Robin Hart

Robin S. Hart P.Eng.

Environmental Engineer

Rain Carbon Canada Inc.

APPENDIX A Monitoring Plan





REPORT

Monitoring Plan for Benzo(a)pyrene and Benzene Rain Carbon Canada Inc.

Submitted to:

Distribution List

Submitted by:

Rain Carbon Canada Inc.

725 Strathearne Ave. N Hamilton, ON L8H 5L3

September 2020

Distribution List

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APPENDICES

APPENDIX A

Site Photos

1.0 INTRODUCTION

Rain Carbon Canada Inc. (Rain Carbon) prepared an amendment to the monitoring plan (the Plan) which was approved by the Ontario Ministry of Environment, Conservation and Parks (MECP) in November 2019 as part of the conditions of the Site-Specific Standard (SSS) approvals for B(a)P (no. 201-17-rv0) and benzene (no. 202-17-rv0) issued to the Facility on November 21, 2017.

This updated Plan has been prepared to incorporate the fact that the north, east and west monitoring stations have now all been relocated as described in the Plan issued in November 2019 and are now all operational.

(The Plan describes the current air monitoring program performed to monitor concentrations of B(a)P and benzene emissions from the Facility).

1.1 Description of the Facility

Rain Carbon operates a coal tar and petroleum material processing plant located at 725 Strathearne Avenue N., Hamilton, Ontario. The Facility employs 85 people. The size of the plant is about 14 acres and it is in an area zoned for industrial use. The location of the Facility is presented in Figure 1 – Site Location Plan.

1.2 Description of the Process

Rain Carbon processes coal tar and petroleum-based materials into products. The primary production line is to manufacture coal tar pitch and coal tar distillates (CTDs) by processing coal tar. The process is comprised of the following processes and equipment:

- Coal Tar Handling;
- Distillation Process;
- Product Storage Handling;
- Natural Gas Combustion Equipment;
- Fume Gathering and Incineration (FGI) System;
- Fume Scrubber System (FSS); and
- Wastewater Collection and Treatment.

1.3 Operating Schedule

The Facility operates continuously 24 hours a day, seven days a week and 52 weeks per year.

2.0 AIR QUALITY MONITORING PROGRAM

2.1 Sampling Systems and Methodology

As B(a)P and benzene require different sampling methods, two types of sampling systems will be installed at each monitoring location (described below in Section 2.2). A PUF PAH sampling system will be used to detect condensable and non-condensable fractions of B(a)P while a VOC canister system will be used to detect benzene.

Samples will be taken over 24-hour period every 12 days. This schedule will be matched to that of the Hamilton Air Monitoring Network (HAMN) to enable comparisons with background B(a)P and benzene levels.

Monitoring will be carried out in accordance with the standard procedures summarized in Table 2.1.

Table 2.1: Standard Operation Procedures for Monitoring

Pollutant	Reference Documents	Method
Benzene	USEPA Report EPA/625/R-96/010/b, USEPA Method TO-15. ASTM Method D5466-01 Standard Test Method for the Determination of VOCs (Canister Sampling Method) Environment Canada SOP for Passive Canister Sampling – Passive FCSOP05.	Determination of VOCs in Air Collected in Specially Prepared Canister.
B(a)P	SEPA Report EPA/625/R-96/010/b, USEPA Method TO-13A. ASTM Method D6209-98 (2004), Vol. 11.07 A Guide to Air Filter (TSP and PM¬10) Sampling and Submission, Ministry of the Environment, Conservation and Parks, May 2003.	Determination of PAHs in Ambient Air Using the hi-vol Method with Teflon-coated Glass Fiber Filter and Sorbent Cartridge; Quantitative GC/MS Detection.

Rain Carbon worked with Rotek Environmental Inc. (Rotek) and others to install the monitoring equipment. Samples are collected by Rain Carbon staff and sent to an accredited laboratory for analysis. Rain Carbon will prepare the monitoring reports as required by the orders.

2.1.1 Calibration

Calibrations will be carried out in accordance with MECP standard operating procedures stating that operators must perform an external performance check and calibration on continuous and non-continuous air monitoring and sampling equipment with a certified calibration unit. This requires that the calibration materials/gases and measurement devices, such as flow meters and pressure gauges, must be certified for accuracy against a reference or transfer standard traceable to a primary reference standard of the United States National Institute of Standards and Technology (NIST) or another equivalent international standards institute. This is to ensure consistency across the province and reproducibility. Calibration devices must also undergo an annual certification assessment.

The monitoring equipment is calibrated by Rotek.

2.2 Monitor Locations

The monitoring locations were selected based on input from the MECP. Based on experience gained through implementing the monitoring program, Rain Carbon relocated the original North, East, and West Monitoring Stations but not the South Monitoring Station. The descriptions of the monitoring station locations are summarized in Table 2.2 below. The monitoring station locations are shown in Figure 2.

Table 2.2: Monitoring Station Locations.

Monitoring Station	Location
North Monitor	This location is at the north fence line, north of Tank 91, with the inlet at an elevation of between 3 m and 15 m above grade and positioned at a distance of at least 2 m away from any structure.
East Monitor	This location is at the east fence line and east of Tank 36 with the inlet at a distance equal or greater than 2 m away from a structure and at an elevation of between 3 m and 15 m above grade.
Old West Monitor	This old west location, approximately 8 metres east of the property boundary, is on a platform above Tank 77 (approximately 13 above grade) is currently located relatively close to and above the railcar loading stations.
New West Monitor	This new west location is closer to ground level to be consistent with the other monitor locations, between the west fence line and the rail tracks, and north of the railcar track 2 spot 10 area with the inlet at an elevation of between 3 m and 15 m above grade and positioned far from any structure.
South Monitor	This location is at the south fence line, south of Tank 3, with the inlet at an elevation of between 3 m and 15 m above grade and positioned at a distance of at least 2 m away from any structure.

Detailed descriptions of the emission sources at the Facility are summarized in the Monitoring Plan approved by the MECP in April 2018.

2.2.1 Siting Criteria

A comparison of each monitoring location against the siting criteria set out in the MECP Operations Manual is provided in Table 2.3 below.

Table 2.3: Monitor Locations Comparison to MECP Siting Criteria.

Contominant Cuitori-				Monitor Location			
Contaminant	Criteria	North	East	Old West	New West	South	
B(a)P and Benzene	Inlet height 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	Inlet 3 to 15 m above grade	
B(a)P and Benzene	Inlet at least 1 m (vertical) and 2 m (horizontal) away from structure	Yes	Yes	Yes	Yes	Yes	
B(a)P and Benzene	No nearby furnace or incineration flues	None	None	None	None	None	
B(a)P	Avoids nearby non-process PAH sources (asphalt rooftops, rooftop tarring and roadway/parking lot paving activities) and smoking areas		Yes	Yes	Yes	Yes	
Benzene Meets minimum separation distance from roadway (10 m)		Yes	Yes	Yes	Yes	Yes	

2.3 Meteorological Data and Background Concentrations

The HAMN is used to document meteorological conditions during monitoring events. The previous closest meteorological station to the Facility was station STN29165; however, this station has not been operational since November 1, 2017. Meteorological conditions will be documented using the following nearby HAMN stations: STN29102, STN29180, and STN29565. When conditions are highly variable, the following stations may also be used to document meteorological conditions: STN29167, STN29171, and STN29567.

The background benzene and B(a)P concentrations in the vicinity of the Facility will be reviewed to evaluate the potential impact of nearby sources of emission on the Facility. Rain Carbon will use data from nearby HAMN monitoring stations, prepared by HAMN on a quarterly basis. The HAMN stations to be used

to inform background concentrations include the following HAMN stations: STN29567, STN29547, STN29102 and STN29180. Information on these stations is presented in Table 2.4.

Table 2.4: Meteorological Station Information

HAMN Station	29567	29180	29547	29102	29167	29171	29565
Wind Speed and Direction	✓	✓	_	✓	✓	✓	✓
B(a)P Concentration	✓	✓	✓	_	_	_	_
Benzene Concentration	✓	✓	_	✓	_	_	_
Approximate Distance from Facility [km]	3.9	2.4	1.0	1.5	1.7	2.3	1.3
Orientation from Facility	W	WSW	N	NNE	NNW	WNW	S

The background data assessment will be used to provide context for the Rain Carbon monitoring results should high values be measured. Please note that background values will not be subtracted from the Rain Carbon monitoring results.

2.4 Laboratory Analysis

Rain Carbon will continue to work with the same accredited laboratories that have been retained to analyse samples obtained from the HAMN. The proposed method detection limits and analytical methods are summarized below in Table 2-5.

Table 2.5: Analytical Methodology

Contaminant	Methodology	Method Detection Limit
B(a)P	Gas chromatography mass spectrometry	0.0001 μg/m³ (0.1 ng/m³)
Benzene	Mass spectrometry or other detector(s) such as flame ionization detector (FID) or electron capture detector (ECD)	0.16 μg/m³

2.5 Review of Monitoring Locations

As fees for monitoring equipment rental and/or purchase, sampling materials and laboratory analysis represent a significant, long-term capital expense, Rain Carbon will continue to review the effectiveness and value of each monitoring location. In consultation with the District Manager and the Environmental Monitoring Team, Rain Carbon will propose if any of the monitors can be removed.

3.0 REPORTING

Summary reports of B(a)P and benzene monitoring results will be submitted to the District Manager and the Environmental Monitoring Team as set out in the SSS approval documents.

3.1 Measured Level Threshold

Within 30 days of a B(a)P concentration measuring above the Measured Level threshold in the SSS approval, Rain Carbon will submit a report to the District Manager and SDB Director. The report will contain information such as an analysis of the cause of the measurement above the Measured Level threshold, the Facility production rate at the time and other items as required by Condition 2 of the B(a)P SSS approval.

4.0 CLOSURE

This monitoring plan describes the amended air monitoring program that will be performed in accordance with the Rain Carbon SSS approvals for B(a)P and benzene.

Signature Page

R.S. Slant

Robin S. Hart P.Eng.

Environmental Engineer

Rain Carbon Canada Inc.

Figures

Figure 1: Site Plan



Figure 2: Environmental Monitor Locations



APPENDIX A

Site Photos

Figure A1: Site-Wide Aerial View 1



Figure A2: Site-Wide Aerial View 2



Figure A4: Aerial View 2 – North Monitoring Station.





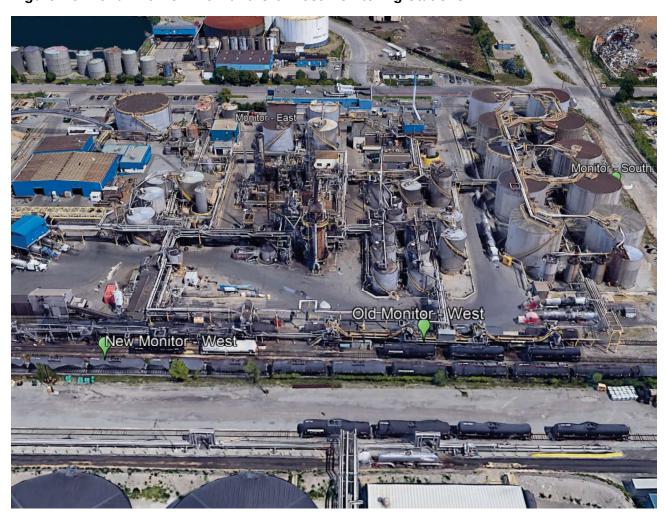
North monitor

Figure A3: Aerial View 1 – Existing South Monitoring Station

South

Google Earth

Figure A3: Aerial View 3 – New and Old West Monitoring Stations





New West Monitor

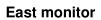




Figure A4: Aerial View 4 – East Monitoring Station

APPENDIX B

Laboratory Analysis

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period : July 2024

Sampling Methods : CARB429(ARBM1,M2) mod

Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter			
Units			
Analytical RDL			
Annual Site-Specific Standard			

ВаР
ng/m³
0.315
0.8

Sample Date
5-July-24
17-July-24
29-July-24

Location					
East	North	Old West	South	New West	STN29164
0.74	<0.34	15.2	0.51	0.73	0.15*
2.31	1.39	1.19	1.03	1.49	1.39*
1.58	0.93	1.77	0.93	2.44	0.56

Monthly Ave
Monthly Max
Monthly Min
No. of Samples > Standard
No. of Valid Samples
% Valid Data

1.54	0.89	6.05	0.82	1.55	0.70*
2.31	1.39	15.2	1.03	2.44	1.39*
0.74	<0.34	1.19	0.51	0.73	0.15*
2	2	3	2	2	1*
3	3	3	3	3	3*
100	100	100	100	100	100*

^{*}These results alone follow Rotek reporting protocol

Note: All non detectable results reported as ½ the Reportable Detection Limit (RDL).

Comments:			

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : July 2024 **Sampling Methods** : GC/MS (TO15)

Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter					
Units					
Analytical RDL					
Annual Site-Specific Standard					

Benzene
μg/m³
0.319
12.7

Sample Date
5-July-24
17-July-24
19-July-24
29-July-24

Location								
East North Old West South New West STN291								
44.5	1.79	10.5	287	3.24	0.93*			
120	6.56	3.68	67.3		0.15*			
				1.94				
21.1	3.51	30.7	145	5.43	1.40*			

Monthly Ave
Monthly Max
Monthly Min
No. of Samples > Standard
No. of Valid Samples
% Valid Data

61.9	3.95	14.96	166.43	3.53	0.83*
120	6.56	30.7	287	5.43	1.40*
21.1	1.79	3.68	67.3	1.94	0.15*
3	0	1	3	0	0*
3	3	3	3	3	3*
100	100	100	100	100	100*

^{*}These results alone follow Rotek reporting protocol

Note: All non detectable results reported as $\frac{1}{2}$ the Reportable Detection Limit (RDL).

Comments:		

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period

: July 2024 : CARB429(ARBM1,M2) mod Sampling Method

Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	ВаР
Units	ng/m³
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date	Location					
Sample Date	East	North	Old West	South	New West	STN29164
05-Jul-24						0.15
17-Jul-24						1.39
29-Jul-24						0.56
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.70
Monthly Max	0.00	0.00	0.00	0.00	0.00	1.39
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.15
No. of Samples >Standard	0	0	0	0	0	1
No. of Valid Samples	0	0	0	0	0	3
% Valid Data	100	100	100	100	100	100

 $\textbf{Note:} \ \textbf{All non detectable results reported as } 1 \!\!\! \ \text{$\frac{1}{2}$ the Reportable Detection Limit (RDL).}$

Comments			

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : July 2024 Sampling Methods : GC/MS (TO15)

Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	Benzene				
Units	ug/m³				
Analytical RDL	0.319				
Site Specific Standard	12.7				

Sample Date	Location					
Sample Date	East	North	Old West	South	New West	STN29164
05-Jul-24						0.93
17-Jul-24						0.15
29-Jul-24						1.40
Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.83
Monthly Max	0.00	0.00	0.00	0.00	0.00	1.40
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.15
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	3
% Valid Data	100	100	100	100	100	100

 $\textbf{Note:} \ \textbf{All non detectable results reported as } \ 1/2 \ \textbf{the Reportable Detection Limit (RDL)}.$

Comments		

APPENDIX C

Chain of Custody Forms

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6740 Campobello Rd Mississauga Ontario ,L5N 2L8 www.bvlabs.com

Toll Free: 1-800-668-0639 Phone: (905) 817-5700 Fax: (905) 817-5777

CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUEST!

	Company Name: Rain Carbon Canada Inc.	Canada Inc.				PAHs on PUF as per ERP 7013			
CLIENT Project Mar	Project Manager: Robin Hart								
•	e-mail: robin.hart@raincarbon.com	incarbon.com							
Adı	Address: 725Strathearne Avenue	ne Avenue							
SECTION	Hamilton, ON	_							
Δ.	Phone: <u>1-647-281-8094</u>	94	Fax: _						
Sample	Sampled by: Robin Hart								
GI Slame O Floid		Total Volume	0 200	Collection	Sample Collection				
East Monitor PAH July 5, 2024 ZOP-062-01	062-01	4	- Ow hate	8-Jul-24	10:00 ×	× ×			
North Monitor PAH July 5, 2024 ZOP-063-01	.063-01	295.7		8-Jul-24	10:10 x	×			
Old West Monitor PAH July 5, 2024 ZOP-064-01	OP-064-01	334.6		8-Jul-24	10:22 x	×			
South Monitor PAH July 5, 2024 ZOP-065-01	-065-01	311		8-Jul-24	10:40 x	×			
New West Monitor PAH July 5, 2024 ZOP-066-01	ZOP-066-01	300.1		8-Jul-24	10:30 x	×	,		
				,					
TAT Requirement PRO	PROJECT INFORMATION	NC	_ -	REPORTING	REPORTING REQUIREMENTS	ENTS		Notes Notes Place Properties Proper	molos aro "Industriz
STD 10 Business day 🗵 Proj	Project #:			Summary Report only		7		If submitting dustfall samples, please indicate	ples, please indicate
	Name: Rain Carbon	Canada Inc.				₹.		jar opening in cm.	
	PO #: 4500610028							PROJECT SPECIFIC COMMENTS	OMMENTS
approval from Bureau	BV Quote #:			Regulation					
	BV Contact:	BV Contact: Cristina Bacchus	snu						
nature:		Received by:							
Affiliation: Environmental Engineer	jineer A A M	Affiliation:							
Date/Time: 09-Jul-24 TO:0	JO AINI	Date/ I Ime:							

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Toll Free: 1-800-668-0639 Phone: (905) 817-5700 Fax: (905) 817-5777

CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUESTI

	Company Name: Rain Carbon Canada Inc.	Canada Inc.			_	PAHs on PUF as per ERP 7013					
INFORMATION Project	Project Manager: Robin Hart										
	e-mail: robin.hart@raincarbon.com	incarbon.com									
	Address: 725Strathearne Avenue	ne Avenue									
SECTION	Hamilton, ON										
	Phone: 1-647-281-8094	94	Fax:								
0)	Sampled by: Robin Hart										
2				Collection	Sample Collection						
Field Sample ID East Monitor PAH July 17, 2024 ZOP-146-01	. 70P=146=01	311.4	Llow Kale	Date 18-Jul-24	10:28 x		<u> </u>		_		T
North Monitor PAH July 17, 2024 ZOP-147-01	4 ZOP-147-01	301.3		18-Jul-24	11:07 x						
Old West Monitor PAH July 17, 2024 ZOP-148-01	2024 ZOP-148-01	334.9		18-Jul-24	11:01 x						
South Monitor PAH July 17, 2024 ZOP-149-01	4 ZOP-149-01	311.7		18-Jul-24	10:35 x	,					
New West Monitor PAH July 17, 2024 ZOP-150-01	, 2024 ZOP-150-01	309.4		18-Jul-24	10:46 x		,				
				,							
TAT Requirement	PROJECT INFORMATION	NO	<u>æ</u>	EPORTING	REPORTING REQUIREMENTS	ENTS		Notes Please note if these samples are "Industriz	these camp	hul" are sol	netris
STD 10 Business day	Project #:		Š	Summary Report only				If submitting dustfall samples, please indicate	urese sample sstfall sample	s, please inc	dicate
Rush 5 Business day *	Name: Rain Carbon Canada Inc.	Canada Inc.		ш		5		jar opening in cm.	cm.		
Rush 2 Business day *	PO #: 4500610028 BV Ougle #:			Redulation				PROJECT SPECIFIC COMMENTS	ECIFIC COM	MENTS	
Veritas	BV Contact:	BV Contact: Cristina Bacchus		 			1				

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BV Contact: Cristina Bacchus
Received by:
Affiliation:

Robin Hart Environmental Engineer 18-Jul-24 2:30 PM

Client Signature:

Date/Time: Affiliation:

Date/Time:

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CHAIN OF CUSTODY FORM - AIR

ANALYSIS REQUESTI

Toll Free: 1-800-668-0639 Phone: (905) 817-5700 Fax: (905) 817-5777

	Company Name: Rain Carbon Canada Inc.				PARS OII POP AS PEI ERP 7013					
CLIENT INFORMATION Project Manager: Robin Hart	Robin Hart									
e-mail: r	e-mail: robin.hart@raincarbon.com	<u>w</u> c								
Address: 7	Address: 725Strathearne Avenue Hamilton, ON									
- Phone: 1	Phone: 1-647-281-8094	Fax:								
Sampled by: Robin Hart	Robin Hart									
	Total Volume		Collection	Sample Collection						
Field Sample ID	Sampled	Flow Rate	Date	Time	×					
East Monitor PAH July 29, 2024 ZOQ-466-01	316.2	.2	30-Jul-24	9:11 x	×					
North Monitor PAH July 29, 2024 ZOQ-467-01	1 301.2	.2	30-Jul-24	9:19 x	×					
Old West Monitor PAH July 29, 2024 ZOQ-468-01	305.8	8	30-Jul-24	9:37 ×	×					
South Monitor PAH July 29, 2024 ZOQ-469-01	302.5	.5	30-Jul-24	9:29 ×	×					
New West Monitor PAH July 29, 2024 ZOQ-470-01	170-01 311.3	.3	30-Jul-24	9:43 ×	×					
				,						
TAT Requirement PROJECT I	PROJECT INFORMATION		REPORTIN	REPORTING REQUIREMENTS	MENTS	Notes Please	Notes Please note if these samples are "Industria	se sample	s are "Inc	Justrie
				•						

I A I Requirement	PROJECT INFORMATION	KEPOK IING KEQUIKEMEN IS	Notes
			Please note if these samples are "Industria
STD 10 Business day	Project #:	Summary Report only	If submitting dustfall samples, please indicate
Rush 5 Business day *	Name: Rain Carbon Canada Inc.	EDD	jar opening in cm.
Rush 2 Business day *	PO #: 4500610028	W R	PROJECT SPECIFIC COMMENTS
* need approval from Bureau	BV Quote #:	Regulation	
Veritas	BV Contact: Cristina Bacchus		
Client Signature: Robin Hart	Received by:		
Affiliation: Environmental Engineer	al Engineer Affiliation:		
Date/Time: 30-Jul-24	30-Jul-24 11:45 AM Date/Time:		
Unless otherwise agreed to in writing, wo	rk submitted on this Chain of Custody is subject to Bureau Verit	Inless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at	cknowledgment and acceptance of our terms available at
conditions			

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Mississauga Ontario, L5N 2L8 6740 Campobello Rd

Toll Free: 1-800-668-0639 Phone: (905) 817-5700 (905) 817-5777

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CANISTERS NOT USED ANALYSIS REQUESTED Other Selected VOC's - please specify BTEX/F1 (C6-C10) and F2 (C10-C16) BTEX/Aromatic/Aliphatic Hydrocarbon FULL LIST OF VOCs (reference TO15A) SAD BAJS-BUS AMBIENT/COMMERCIAL/INDUSTRIAL **AIA AOODNI\TN3IBMA SOIL VAPOUR** END VACUUM (inches of Hg) (BH TO EACHUM (inches of Hg) Rain Carbon Canada Collection 08-Jul-24 08-Jul-24 08-Jul-24 08-Jul-24 08-Jul-24 Date robin hart@raincarbon.com REPORT INFORMATION 725Strathearne Avenue Robin Hart Regulator Serial # Flow 1-647-281-8094 Hamilton, ON 14273 23388 17188 29302 37350 Canister Serial # Project Manager: Rain Carbon Canada Ind Company Name: Address: E-mail: Ph: robin.hart@raincarbon.com INVOICE INFORMATION Field Sample ID 725Strathearne Avenue Robin Hart New West Canister VOC July 5, 2024 Old West Canister VOC July 5, 2024 South Canister VOC July 5, 2024 North Canister VOC July 5, 2024 -647-281-8094 East Canister VOC July 5, 2024 Hamilton, ON Robin Hart Company Name: Contact Name: Sampled by: Address:

E-mail: 띰

2) please list all canisters on the chain of custody even if unused 1) please indicate on chain of custody if your samples are soil vapour or ambient air ON 153 ON 419 REPORTING REQUIREMENTS EDD Regulations

Notes

PROJECT SPECIFIC COMMENTS

BC CSR

Other

Cristina Bacchus

Bureau Veritas Contact:

Task Order/Line Item

* need approval from Bureau Veritas

Client Signature: Robin Hart

Bureau Veritas Quote #:

Received by:

Project #: Rain Carbon Canada Inc.
Name: Robin Hart
PO #: 4500610028

Rush 2 Business day *

Rush Other '

STD 10 Business day Rush 5 Business day

TAT Requirement

PROJECT INFORMATION

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms PLEASE RETURN ALL UNUSED EQUIPMENT Date/Time: available at http://www.bv/abs.com/terms-and-conditions 10:00 AM 8-Jul-24 Date/Time:

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Mississauga Ontario, L5N 2L8 6740 Campobello Rd

Toll Free: 1-800-668-0639 Phone: (905) 817-5700 (905) 817-5777

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CANISTERS NOT USED 2) please list all canisters on the chain of custody even if unused 1) please indicate on chain of custody if your samples are ANALYSIS REQUESTED PROJECT SPECIFIC COMMENTS Other Selected VOC's - please specify soil vapour or ambient air BTEX/F1 (C6-C10) and F2 (C10-C16) BTEX/Aromatic/Aliphatic Hydrocarbon FULL LIST OF VOCs (reference TO15A) Notes SAD BAJS-BUS AMBIENT/COMMERCIAL/INDUSTRIAL **AIA AOODNI\TN3IBMA** BC CSR ON 153 ON 419 REPORTING REQUIREMENTS **SOIL VAPOUR** EDD Regulations END VACUUM (inches of Hg) Other (BH TO EACHUM (inches of Hg) Rain Carbon Canada Collection 18-Jul-24 18-Jul-24 18-Jul-24 18-Jul-24 Date robin hart@raincarbon.com REPORT INFORMATION 725Strathearne Avenue Robin Hart Regulator Serial # Flow Cristina Bacchus 1-647-281-8094 Hamilton, ON Project #: Rain Carbon Canada Inc.
Name: Robin Hart
PO #: 4500610028 18251 2803 2774 130 24174 Received by: Canister Serial # Project Manager: Rain Carbon Canada Ind Company Name: PROJECT INFORMATION Bureau Veritas Contact: Bureau Veritas Quote #: Task Order/Line Item Address: E-mail: Ph: robin.hart@raincarbon.com INVOICE INFORMATION Field Sample ID 725Strathearne Avenue New West Canister VOC July 17, 2024 Old West Canister VOC July 17, 2024 Robin Hart * need approval from Bureau Veritas South Canister VOC July 17, 2024 North Canister VOC July 17, 2024 East Canister VOC July 17, 2024 -647-281-8094 Hamilton, ON Client Signature: Robin Hart Robin Hart Rush 2 Business day * STD 10 Business day Rush 5 Business day **TAT Requirement** Company Name: Contact Name: Sampled by: Rush Other ' Address: E-mail: 띰

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Date/Time:

2:30 PM

18-Jul-24

Date/Time:

PLEASE RETURN ALL UNUSED EQUIPMENT

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ANALYSIS REQUESTED

(905) 817-5777

CANISTERS NOT USED 2) please list all canisters on the chain of custody even if unused 1) please indicate on chain of custody if your samples are PLEASE RETURN ALL UNUSED EQUIPMENT PROJECT SPECIFIC COMMENTS Other Selected VOC's - please specify soil vapour or ambient air BTEX/F1 (C6-C10) and F2 (C10-C16) BTEX/Aromatic/Aliphatic Hydrocarbon FULL LIST OF VOCs (reference TO15A Notes SAD BAJS-BUS AMBIENT/COMMERCIAL/INDUSTRIAL ANA ROODNI\TN3I8MA BC CSR ON 153 ON 419 REPORTING REQUIREMENTS **SOIL VAPOUR** EDD Regulations END VACUUM (inches of Hg) Other (BH TO EACHUM (inches of Hg) Rain Carbon Canada Collection 22-Jul-24 Date robin hart@raincarbon.com REPORT INFORMATION 725Strathearne Avenue Robin Hart Regulator Serial # Flow Cristina Bacchus 1-647-281-8094 Hamilton, ON Project #: Rain Carbon Canada Inc.
Name: Robin Hart
PO #: 4500610028 1240 Received by: Date/Time: Canister Serial # Project Manager: Rain Carbon Canada Ind Company Name: PROJECT INFORMATION Bureau Veritas Contact: Bureau Veritas Quote #: Task Order/Line Item Address: E-mail: Ph: robin.hart@raincarbon.com INVOICE INFORMATION Field Sample ID 725Strathearne Avenue 9:15 AM New West Canister VOC July 19, 2024 Robin Hart * need approval from Bureau Veritas -647-281-8094 Hamilton, ON Client Signature: Robin Hart Robin Hart 22-Jul-24 Rush 2 Business day * STD 10 Business day Rush 5 Business day **TAT Requirement** Company Name: Contact Name: Sampled by: Rush Other ' Date/Time: Address: E-mail: 띰

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	INVOICE INFORMATION	_		REPORT IN	NEORMATION	NO					(MC					
Company Name:	e: Rain Carbon Canada Ind Company Name:	Sanada Inc	Company N		Rain Carb	Rain Carbon Canada			JAIS	701		(910	,			
Contact Name:	Robin Hart		Project Manager:	ager:	Robin Hart	<u></u>	ot Hg)		ATSUG		rence drocarl	-010)	γjioəds			
Address:	725Strathearne Avenue		Address:	725Strathearne Avenue	arne Avenı	Je						Z∃ bn	9886			025
	Hamilton, ON			Hamilton, ON	N							10) a	ıd - s			11110
E-mail:	robin hart@raincarbon.com	<u>om</u>	E-mail:	robin.hart@raincarbon.com	raincarbor	ı.com		มกด				ე-9ე	:00 <i>i</i>)N 30
Ph:	1-647-281-8094		Ph:	1-647-281-8094	8094			ЯΑν			mo₁A		√ bəi			3313
Sampled by:	Robin Hart						AATS V GN3	SOIL	IIBMA IIBMA	s-aus			Select	Other		CANIS
	Field Sample ID			Canister Serial#	Flow Regulator Serial#	Collection Date	-)		
					1 1				H		H					
East Canister Vo	East Canister VOC July 29, 2024			27655		30-Jul-24							×			
North Canister \	North Canister VOC July 29, 2024			27653		30-Jul-24							×			
Old West Canis	Old West Canister VOC July 29, 2024			2573		30-Jul-24							×			
South Canister	South Canister VOC July 29, 2024			17177		30-Jul-24							×			
New West Cani	New West Canister VOC July 29, 2024			18181		30-Jul-24							×			
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		1000		_		10000				Ì	_	_			-	
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STD 10 Business day	ss day	Project #:	Project #: Rain Carbon Canada Inc.	Canada Inc			EDD			soil vapo	soil vapour or ambient air	bient air			•	
Rush 5 Business day *		Name:	Name: Robin Hart				Regulations	ON 153		2) pleas	e list all c	anisters	on the cf	nain of cu	2) please list all canisters on the chain of custody even if unused	if unused
Rush 2 Business day *	s day *	PO #	4500610028					_								
Rush Other *		Bureau Veri	Bureau Veritas Quote #:				100	BC CSR		PROJE	PROJECT SPECIFIC COMMENTS	O SEIS	OMME	NTS		
		Bureau Veri	Bureau Veritas Contact:	Cristina Bacchus	ccuns		Other									
* need approva	* need approval from Bureau Veritas	Task Order/Line Item	r/Line Item													
Client Signature: Robin Hart	Robin Hart			Received by:												
Date/Time:	30-Inl-24 11:45 AM			Date/Time:						PI EAS	F RET	IRN AL	SINI	FD EQ	PLEASE RETURN ALL UNUSED EQUIPMENT	
				2): ii			2			

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APPENDIX D

Certificates of Analysis



Your P.O. #: 4500610028

Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/07/23

Report #: R8246750 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K9671 Received: 2024/07/09, 15:31

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2024/07/10	2024/07/23	BRL SOP-00201	_
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/07/12	2024/07/16	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/07/10	1	

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your P.O. #: 4500610028

Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/07/23

Report #: R8246750 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K9671 Received: 2024/07/09, 15:31

Encryption Key

Cristina (Maria) Bacchus Project Manager 23 Jul 2024 19:00:19

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZRK069	ZRK070	ZRK071	ZRK072	
Sampling Date		2024/07/05	2024/07/05	2024/07/05	2024/07/05	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH JULY 5,2024 ZOP-062-01	NORTH MONITOR PAH JULY 5,2024 ZOP-063-01	OLD WEST MONITOR PAH JULY 5,2024 ZOP-064-01	SOUTH MONITOR PAH JULY 5,2024 ZOP-065-01	QC Batch
Volume	m3	322.4	295.7	334.6	311.0	ONSITE
QC Batch = Quality Control B	atch					

Bureau Veritas ID		ZRK073	
Sampling Date		2024/07/05	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH JULY 5,2024 ZOP-066-01	QC Batch
Volume	m3	300.1	ONSITE
QC Batch = Quality Control Ba	atch		



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZRK069	ZRK070	ZRK071	ZRK072		
Sampling Date		2024/07/05	2024/07/05	2024/07/05	2024/07/05		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JULY 5,2024 ZOP-062-01	NORTH MONITOR PAH JULY 5,2024 ZOP-063-01	OLD WEST MONITOR PAH JULY 5,2024 ZOP-064-01	SOUTH MONITOR PAH JULY 5,2024 ZOP-065-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.24	0.10	5.10	0.16	0.10	9510492
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	69	64	71	70		9510492
D10-Fluoranthene	%	75	79	70	70		9510492
D10-Fluorene (FS)	%	4.0 (1)	4.0 (1)	8.0 (1)	6.0 (1)		9510492
D10-Phenanthrene	%	74	83	72	70		9510492
D12-Benzo(a)anthracene	%	87	85	92	90		9510492
D12-Benzo(a)pyrene	%	80	73	77	77		9510492
D12-Benzo(b)fluoranthene	%	81	79	89	83		9510492
D12-Benzo(ghi)perylene	%	81	78	82	80		9510492
D12-Benzo(k)fluoranthene	%	84	81	82	85		9510492
D12-Chrysene	%	84	80	88	86		9510492
D12-Indeno(1,2,3-cd)pyrene	%	84	80	85	83		9510492
D12-Perylene	%	81	77	83	81		9510492
D14-Dibenzo(a,h)anthracene	%	82	78	93	83		9510492
D14-Terphenyl (FS)	%	68	74	64	64		9510492
D8-Acenaphthylene	%	78	80	72	74		9510492
D8-Naphthalene	%	102	66	316 (2)	286 (2)		9510492

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

⁽¹⁾ Recovery above higher control limit. D14-Terphenyl Field Spike is within criteria. Review with caution.

⁽²⁾ Recovery above control limit, due to matrix interference. Minimal impact to data as labelled surrogate does not calculate native recovery and Napthalene is not a parameter of concern.



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZRK073		
Sampling Date		2024/07/05		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JULY 5,2024 ZOP-066-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.22	0.10	9510492
Surrogate Recovery (%)	-		•	
D10-2-Methylnaphthalene	%	71		9510492
D10-Fluoranthene	%	70		9510492
D10-Fluorene (FS)	%	6.0 (1)		9510492
D10-Phenanthrene	%	70		9510492
D12-Benzo(a)anthracene	%	87		9510492
D12-Benzo(a)pyrene	%	77		9510492
D12-Benzo(b)fluoranthene	%	81		9510492
D12-Benzo(ghi)perylene	%	78		9510492
D12-Benzo(k)fluoranthene	%	84		9510492
D12-Chrysene	%	83		9510492
D12-Indeno(1,2,3-cd)pyrene	%	82		9510492
D12-Perylene	%	79		9510492
D14-Dibenzo(a,h)anthracene	%	80		9510492
D14-Terphenyl (FS)	%	66		9510492
D8-Acenaphthylene	%	73		9510492
D8-Naphthalene	%	178 (2)		9510492

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

⁽¹⁾ Recovery above higher control limit. D14-Terphenyl Field Spike is within criteria. Review with caution.

⁽²⁾ Recovery above control limit, due to matrix interference. Minimal impact to data as labelled surrogate does not calculate native recovery and Napthalene is not a parameter of concern.



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZRK069		ZRK070		ZRK071		
Sampling Date		2024/07/05		2024/07/05		2024/07/05		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH JULY 5,2024 ZOP-062-01	RDL	NORTH MONITOR PAH JULY 5,2024 ZOP-063-01	RDL	OLD WEST MONITOR PAH JULY 5,2024 ZOP-064-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00074	0.00031	<0.00034	0.00034	0.0152	0.00030	9506925
RDL = Reportable Detection QC Batch = Quality Control								

Calculated Parameters	•				•	
	UNITS	SOUTH MONITOR PAH JULY 5,2024 ZOP-065-01	RDL	NEW WEST MONITOR PAH JULY 5,2024 ZOP-066-01	RDL	QC Batch
COC Number		N/A		N/A		
Sampling Date		2024/07/05		2024/07/05		
Bureau Veritas ID		ZRK072		ZRK073		

| RDL = Reportable Detection Limit | Calculated Parameters | Ug/m3 | 0.00051 | 0.00032 | 0.00073 | 0.00033 | 9506925 |

RDL = Reportable Detection Limit QC Batch = Quality Control Batch



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.		



Bureau Veritas Job #: C4K9671 RAIN CARBON Canada Inc.
Report Date: 2024/07/23 Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9510492	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/07/16		62	%	50 - 150
			D10-Fluoranthene	2024/07/16		82	%	50 - 150
			D10-Phenanthrene	2024/07/16		77	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/16		86	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/16		82	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/16		88	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/16		81	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/16		78	%	50 - 150
			D12-Chrysene	2024/07/16		86	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/16		84	%	50 - 150
			D12-Perylene	2024/07/16		84	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/16		80	%	50 - 150
			D8-Acenaphthylene	2024/07/16		73	%	50 - 150
			D8-Naphthalene	2024/07/16		66	%	50 - 150
			Benzo(a)pyrene	2024/07/16		83	%	50 - 150
9510492	CTC	RPD	Benzo(a)pyrene	2024/07/16	3.1		%	50
9510492	CTC	Method Blank	D10-2-Methylnaphthalene	2024/07/16		65	%	50 - 150
			D10-Fluoranthene	2024/07/16		79	%	50 - 150
			D10-Phenanthrene	2024/07/16		71	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/16		82	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/16		78	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/16		79	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/16		81	%	50 - 150
			D12-Chrysene	2024/07/16		81	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/16		78	%	50 - 150
			D12-Perylene	2024/07/16		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/16		74	%	50 - 150
			D8-Acenaphthylene	2024/07/16		73	%	50 - 150
			D8-Naphthalene	2024/07/16		70	%	50 - 150
			Benzo(a)pyrene	2024/07/16	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your P.O. #: 32669

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: n/a

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/07/23

Report #: R8246745 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8534 Received: 2024/07/09, 10:00

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2024/07/09	2024/07/09	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/07/12	2024/07/16	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/07/09		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your P.O. #: 32669

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: n/a

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/07/23

Report #: R8246745 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8534 Received: 2024/07/09, 10:00

Encryption Key



Bureau Veritas

23 Jul 2024 17:20:39

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.

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Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZRE047	
Sampling Date		2024/07/05	
COC Number		n/a	
		STN29164 05-JUL PUF	
	UNITS	#1	QC Batch
Volume	m3		QC Batch ONSITE



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZRE047		
Sampling Date		2024/07/05		
COC Number		n/a		
	UNITS	STN29164 05-JUL PUF #1	RDL	QC Batch
Benzo(a)pyrene	ug	<0.10	0.10	9510492
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	65		9510492
D10-Fluoranthene	%	83		9510492
D10-Fluorene (FS)	%	74		9510492
D10-Phenanthrene	%	81		9510492
D12-Benzo(a)anthracene	%	85		9510492
D12-Benzo(a)pyrene	%	74		9510492
D12-Benzo(b)fluoranthene	%	79		9510492
D12-Benzo(ghi)perylene	%	77		9510492
D12-Benzo(k)fluoranthene	%	82		9510492
D12-Chrysene	%	82		9510492
D12-Indeno(1,2,3-cd)pyrene	%	79		9510492
D12-Perylene	%	80		9510492
D14-Dibenzo(a,h)anthracene	%	77		9510492
D14-Terphenyl (FS)	%	76		9510492
D8-Acenaphthylene	%	82		9510492
D8-Naphthalene	%	64		9510492



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZRE047		
Sampling Date		2024/07/05		
COC Number		n/a		
	UNITS	STN29164 05-JUL PUF #1	RDL	QC Batch
_ , ,	7 , 0	:0.21	0.21	9504589
Benzo(a)pyrene	ng/m3	<0.31	0.31	9304369



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9510492	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/07/16		62	%	50 - 150
			D10-Fluoranthene	2024/07/16		82	%	50 - 150
			D10-Phenanthrene	2024/07/16		77	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/16		86	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/16		82	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/16		88	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/16		81	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/16		78	%	50 - 150
			D12-Chrysene	2024/07/16		86	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/16		84	%	50 - 150
			D12-Perylene	2024/07/16		84	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/16		80	%	50 - 150
			D8-Acenaphthylene	2024/07/16		73	%	50 - 150
			D8-Naphthalene	2024/07/16		66	%	50 - 150
			Benzo(a)pyrene	2024/07/16		83	%	50 - 150
9510492	CTC	RPD	Benzo(a)pyrene	2024/07/16	3.1		%	50
9510492	CTC	Method Blank	D10-2-Methylnaphthalene	2024/07/16		65	%	50 - 150
			D10-Fluoranthene	2024/07/16		79	%	50 - 150
			D10-Phenanthrene	2024/07/16		71	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/16		82	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/16		78	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/16		79	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/16		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/16		81	%	50 - 150
			D12-Chrysene	2024/07/16		81	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/16		78	%	50 - 150
			D12-Perylene	2024/07/16		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/16		74	%	50 - 150
			D8-Acenaphthylene	2024/07/16		73	%	50 - 150
			D8-Naphthalene	2024/07/16		70	%	50 - 150
			Benzo(a)pyrene	2024/07/16	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your P.O. #: 4500610028

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/06

Report #: R8265676 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M2250 Received: 2024/07/19, 15:55

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2024/07/20	2024/07/20	BRL SOP-00201	
Calculated Polyaromatic Hydrocarbons	4	2024/07/20	2024/08/06	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/07/23	2024/07/29	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/07/20		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (k) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your P.O. #: 4500610028

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/06

Report #: R8265676

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M2250 Received: 2024/07/19, 15:55

Encryption Key

Cristina (Maria) Bacchus Project Manager 06 Aug 2024 18:54:03

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

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Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZTY661	ZTY662	ZTY663	ZTY664	
Sampling Date		2024/07/18 10:28	2024/07/18 11:07	2024/07/18 11:01	2024/07/18 10:35	
COC Number		N/A	N/A	N/A	N/A	
	UNITS	EAST MONITOR PAH JULY 17, 2024 ZOP-146-01	NORTH MONITOR PAH JULY 17,2024 ZOP-147-01	OLD WEST MONITOR PAH JULY 17,2024 ZOP-148-01	SOUTH MONITOR PAH JULY 17,2024 ZOP-149-01	QC Batch
Volume	m3	311.4	301.3	334.9	311.7	ONSITE
QC Batch = Quality Cont	rol Batch					

Bureau Veritas ID		ZTY665	
Sampling Date		2024/07/18 10:46	
COC Number		N/A	
	UNITS	NEW WEST MONITOR PAH JULY 17,2024 ZOP-150-01	QC Batch
Volume	m3	309.4	ONSITE
QC Batch = Quality Control E	atch		



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZTY661	ZTY662	ZTY663	ZTY664		
Sampling Date		2024/07/18	2024/07/18	2024/07/18	2024/07/18		
Sampling Date		10:28	11:07	11:01	10:35		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JULY 17, 2024 ZOP-146-01	NORTH MONITOR PAH JULY 17,2024 ZOP-147-01	OLD WEST MONITOR PAH JULY 17,2024 ZOP-148-01	SOUTH MONITOR PAH JULY 17,2024 ZOP-149-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.72	0.42	0.40	0.32	0.10	9531791
Surrogate Recovery (%)			•		•		
D10-2-Methylnaphthalene	%	62	66	68	70		9531791
D10-Fluoranthene	%	67	84	76	72		9531791
D10-Fluorene (FS)	%	66	76	78	72		9531791
D10-Phenanthrene	%	67	82	74	70		9531791
D12-Benzo(a)anthracene	%	87	87	89	86		9531791
D12-Benzo(a)pyrene	%	72	75	68	74		9531791
D12-Benzo(b)fluoranthene	%	77	82	81	81		9531791
D12-Benzo(ghi)perylene	%	71	76	75	76		9531791
D12-Benzo(k)fluoranthene	%	79	82	79	80		9531791
D12-Chrysene	%	80	83	77	82		9531791
D12-Indeno(1,2,3-cd)pyrene	%	74	80	77	78		9531791
D12-Perylene	%	76	80	75	78		9531791
D14-Dibenzo(a,h)anthracene	%	71	75	74	75		9531791
D14-Terphenyl (FS)	%	64	72	68	66		9531791
D8-Acenaphthylene	%	70	85	82	77		9531791
D8-Naphthalene	%	607 (1)	88	75	230 (1)		9531791

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

⁽¹⁾ Recovery above control limit due to inteference. Minimal impact to data as labelled surrogate does not calculate native recovery and Napthalene is not a parameter of concern.



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZTY665		
Sampling Date		2024/07/18		
Sampling Date		10:46		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JULY 17,2024 ZOP-150-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.46	0.10	9531791
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	66		9531791
D10-Fluoranthene	%	81		9531791
D10-Fluorene (FS)	%	70		9531791
D10-Phenanthrene	%	77		9531791
D12-Benzo(a)anthracene	%	85		9531791
D12-Benzo(a)pyrene	%	71		9531791
D12-Benzo(b)fluoranthene	%	77		9531791
D12-Benzo(ghi)perylene	%	71		9531791
D12-Benzo(k)fluoranthene	%	76		9531791
D12-Chrysene	%	76		9531791
D12-Indeno(1,2,3-cd)pyrene	%	76		9531791
D12-Perylene	%	77		9531791
D14-Dibenzo(a,h)anthracene	%	72		9531791
D14-Terphenyl (FS)	%	74		9531791
D8-Acenaphthylene	%	77		9531791
D8-Naphthalene	%	103		9531791
RDL = Reportable Detection Li QC Batch = Quality Control Bat				



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZTY661		ZTY662		ZTY663		
Sampling Date		2024/07/18		2024/07/18		2024/07/18		
		10:28		11:07		11:01		
COC Number		N/A		N/A		N/A		
	UNITS	EAST MONITOR PAH JULY 17, 2024 ZOP-146-01	RDL	NORTH MONITOR PAH JULY 17,2024 ZOP-147-01	RDL	OLD WEST MONITOR PAH JULY 17,2024 ZOP-148-01	RDL	QC Batch
Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00231	0.00032	0.00139	0.00033	0.00119	0.00030	9528227
RDL = Reportable Detecti	on Limit			_			_	·
QC Batch = Quality Contr	ol Batch							

Bureau Veritas ID		ZTY664	ZTY665		
Sampling Date		2024/07/18 10:35	2024/07/18 10:46		
COC Number		N/A	N/A		
	UNITS	SOUTH MONITOR PAH JULY 17,2024 ZOP-149-01	NEW WEST MONITOR PAH JULY 17,2024 ZOP-150-01	RDL	QC Batch
Calculated Parameters					
Benzo(a)pyrene	ug/m3	0.00103	0.00149	0.00032	9528227
RDL = Reportable Detection L	imit	_		•	



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9531791	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/07/29		57	%	50 - 150
			D10-Fluoranthene	2024/07/29		77	%	50 - 150
			D10-Phenanthrene	2024/07/29		62	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/29		80	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/29		77	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/29		79	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/29		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/29		81	%	50 - 150
			D12-Chrysene	2024/07/29		77	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/29		77	%	50 - 150
			D12-Perylene	2024/07/29		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/29		72	%	50 - 150
			D8-Acenaphthylene	2024/07/29		65	%	50 - 150
			D8-Naphthalene	2024/07/29		63	%	50 - 150
			Benzo(a)pyrene	2024/07/29		78	%	50 - 150
9531791	CTC	RPD	Benzo(a)pyrene	2024/07/29	3.3		%	50
9531791	CTC	Method Blank	D10-2-Methylnaphthalene	2024/07/29		59	%	50 - 150
			D10-Fluoranthene	2024/07/29		69	%	50 - 150
			D10-Phenanthrene	2024/07/29		60	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/29		73	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/29		72	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/29		70	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/29		74	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/29		78	%	50 - 150
			D12-Chrysene	2024/07/29		75	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/29		75	%	50 - 150
			D12-Perylene	2024/07/29		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/29		70	%	50 - 150
			D8-Acenaphthylene	2024/07/29		67	%	50 - 150
			D8-Naphthalene	2024/07/29		66	%	50 - 150
			Benzo(a)pyrene	2024/07/29	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 4500610028 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/06

Report #: R8265846 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M2997 Received: 2024/07/22, 10:28

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2024/07/22	2024/07/23	BRL SOP-00201	_
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/07/23	2024/07/29	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/07/23	;	

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/06

Report #: R8265846 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M2997 Received: 2024/07/22, 10:28

Encryption Key



Bureau Veritas

06 Aug 2024 18:59:53

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.

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Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZUC780	
Sampling Date		2024/07/17	
COC Number		N/A	
	UNITS	STN29164 17-JUL	QC Batch
	Citiis	PUF#1 ZEP101-01	QC Batch
Volume	m3	PUF#1 ZEP101-01 315.6	ONSITE



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZUC780		
Sampling Date		2024/07/17		
COC Number		N/A		
	UNITS	STN29164 17-JUL PUF#1 ZEP101-01	RDL	QC Batch
Benzo(a)pyrene	ug	0.44	0.10	9531791
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	68		9531791
D10-Fluoranthene	%	89		9531791
D10-Fluorene (FS)	%	76		9531791
D10-Phenanthrene	%	84		9531791
D12-Benzo(a)anthracene	%	87		9531791
D12-Benzo(a)pyrene	%	76		9531791
D12-Benzo(b)fluoranthene	%	83		9531791
D12-Benzo(ghi)perylene	%	78		9531791
D12-Benzo(k)fluoranthene	%	80		9531791
D12-Chrysene	%	81		9531791
D12-Indeno(1,2,3-cd)pyrene	%	80		9531791
D12-Perylene	%	81		9531791
D14-Dibenzo(a,h)anthracene	%	77		9531791
D14-Terphenyl (FS)	%	78		9531791
D8-Acenaphthylene	%	88		9531791
D8-Naphthalene	%	78		9531791
RDL = Reportable Detection Li QC Batch = Quality Control Ba				



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZUC780		
Sampling Date		2024/07/17		
COC Number		N/A		
	UNITS	STN29164 17-JUL PUF#1 ZEP101-01	RDL	QC Batch
Benzo(a)pyrene	ng/m3	1.39	0.32	9529858



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9531791	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/07/29		57	%	50 - 150
			D10-Fluoranthene	2024/07/29		77	%	50 - 150
			D10-Phenanthrene	2024/07/29		62	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/29		80	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/29		77	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/29		79	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/29		76	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/29		81	%	50 - 150
			D12-Chrysene	2024/07/29		77	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/29		77	%	50 - 150
			D12-Perylene	2024/07/29		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/29		72	%	50 - 150
			D8-Acenaphthylene	2024/07/29		65	%	50 - 150
			D8-Naphthalene	2024/07/29		63	%	50 - 150
			Benzo(a)pyrene	2024/07/29		78	%	50 - 150
9531791	CTC	RPD	Benzo(a)pyrene	2024/07/29	3.3		%	50
9531791	CTC	Method Blank	D10-2-Methylnaphthalene	2024/07/29		59	%	50 - 150
			D10-Fluoranthene	2024/07/29		69	%	50 - 150
			D10-Phenanthrene	2024/07/29		60	%	50 - 150
			D12-Benzo(a)anthracene	2024/07/29		73	%	50 - 150
			D12-Benzo(a)pyrene	2024/07/29		72	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/07/29		70	%	50 - 150
			D12-Benzo(ghi)perylene	2024/07/29		74	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/07/29		78	%	50 - 150
			D12-Chrysene	2024/07/29		75	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/07/29		75	%	50 - 150
			D12-Perylene	2024/07/29		81	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/07/29		70	%	50 - 150
			D8-Acenaphthylene	2024/07/29		67	%	50 - 150
			D8-Naphthalene	2024/07/29		66	%	50 - 150
			Benzo(a)pyrene	2024/07/29	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC
Cristina Carriere, Senior Scientific Specialist
Criotina Bacchua
Cristina (Maria) Bacchus, Project Manager

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Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/14

Report #: R8276899 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5561 Received: 2024/07/31, 16:00

Sample Matrix: Puf And Filter # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	5	2024/08/01	2024/08/01	BRL SOP-00201	_
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2024/08/02	2024/08/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2024/08/01		

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: N/A

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/14

Report #: R8276899

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5561

Received: 2024/07/31, 16:00

Encryption Key

Julian Tong Project Manager Assistant 15 Aug 2024 10:44:40

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

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Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZWQ187	ZWQ188	ZWQ189	ZWQ190			
Sampling Date		2024/07/29	2024/07/29	2024/07/29	2024/07/29			
COC Number		N/A	N/A	N/A	N/A			
	UNITS	EAST MONITOR PAH JULY 29, 2024 ZOQ-466-01	NORTH MONITOR PAH JULY 29, 2024 ZOQ-467-01	OLD WEST MONITOR PAH JULY 29, 2024 ZOQ-468-01	SOUTH MONITOR PAH JULY 29, 2024 ZOQ-469-01	QC Batch		
Volume	m3	316.2	301.2	305.8	302.5	ONSITE		
QC Batch = Quality Control Batch								

Bureau Veritas ID		ZWQ191			
Sampling Date		2024/07/29			
COC Number		N/A			
	UNITS	NEW WEST MONITOR PAH JULY 29, 2024 ZOQ-470-01	QC Batch		
Volume	m3	311.3	ONSITE		
QC Batch = Quality Control Batch					



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZWQ187	ZWQ188	ZWQ189	ZWQ190		
Sampling Date		2024/07/29	2024/07/29	2024/07/29	2024/07/29		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	EAST MONITOR PAH JULY 29, 2024 ZOQ-466-01	NORTH MONITOR PAH JULY 29, 2024 ZOQ-467-01	OLD WEST MONITOR PAH JULY 29, 2024 ZOQ-468-01	SOUTH MONITOR PAH JULY 29, 2024 ZOQ-469-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.50	0.28	0.54	0.28	0.10	9555393
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	81	71	77	90		9555393
D10-Fluoranthene	%	85	87	75	91		9555393
D10-Fluorene (FS)	%	84	84	74	92		9555393
D10-Phenanthrene	%	87	88	78	95		9555393
D12-Benzo(a)anthracene	%	99	101	106	105		9555393
D12-Benzo(a)pyrene	%	75	78	80	86		9555393
D12-Benzo(b)fluoranthene	%	92	93	96	100		9555393
D12-Benzo(ghi)perylene	%	85	86	87	93		9555393
D12-Benzo(k)fluoranthene	%	86	86	89	91		9555393
D12-Chrysene	%	87	88	92	95		9555393
D12-Indeno(1,2,3-cd)pyrene	%	88	89	90	96		9555393
D12-Perylene	%	84	87	86	92		9555393
D14-Dibenzo(a,h)anthracene	%	82	84	84	90		9555393
D14-Terphenyl (FS)	%	78	78	72	84		9555393
D8-Acenaphthylene	%	80	78	72	90		9555393
D8-Naphthalene	%	80	72	102	69		9555393
RDL = Reportable Detection Lin	mit						

QC Batch = Quality Control Batch



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZWQ191		
Sampling Date		2024/07/29		
COC Number		N/A		
	UNITS	NEW WEST MONITOR PAH JULY 29, 2024 ZOQ-470-01	RDL	QC Batch
Semivolatile Organics				
Benzo(a)pyrene	ug	0.76	0.10	9555393
Surrogate Recovery (%)			-	
D10-2-Methylnaphthalene	%	76		9555393
D10-Fluoranthene	%	78		9555393
D10-Fluorene (FS)	%	78		9555393
D10-Phenanthrene	%	80		9555393
D12-Benzo(a)anthracene	%	105		9555393
D12-Benzo(a)pyrene	%	81		9555393
D12-Benzo(b)fluoranthene	%	100		9555393
D12-Benzo(ghi)perylene	%	92		9555393
D12-Benzo(k)fluoranthene	%	89		9555393
D12-Chrysene	%	94		9555393
D12-Indeno(1,2,3-cd)pyrene	%	95		9555393
D12-Perylene	%	89		9555393
D14-Dibenzo(a,h)anthracene	%	90		9555393
D14-Terphenyl (FS)	%	72		9555393
D8-Acenaphthylene	%	74		9555393
D8-Naphthalene	%	24 (1)		9555393

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

⁽¹⁾ Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZWQ187		ZWQ188	ZWQ189			
Sampling Date		2024/07/29		2024/07/29	2024/07/29			
COC Number		N/A		N/A	N/A			
	UNITS	EAST MONITOR PAH JULY 29, 2024 ZOQ-466-01	RDL	NORTH MONITOR PAH JULY 29, 2024 ZOQ-467-01	OLD WEST MONITOR PAH JULY 29, 2024 ZOQ-468-01	RDL	QC Batch	
Calculated Parameters								
Benzo(a)pyrene	ug/m3	0.00158	0.00032	0.00093	0.00177	0.00033	9552165	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Bureau Veritas ID		ZWQ190		ZWQ191		
Sampling Date		2024/07/29		2024/07/29		
COC Number		N/A		N/A		
	UNITS	SOUTH MONITOR PAH JULY 29, 2024 ZOQ-469-01	RDL	NEW WEST MONITOR PAH JULY 29, 2024 ZOQ-470-01	RDL	QC Batch
Calculated Parameters						
Benzo(a)pyrene	ug/m3	0.00093	0.00033	0.00244	0.00032	9552165



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only	to the items tested.		



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9555393	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/08/09		71	%	50 - 150
			D10-Fluoranthene	2024/08/09		87	%	50 - 150
			D10-Phenanthrene	2024/08/09		81	%	50 - 150
			D12-Benzo(a)anthracene	2024/08/09		96	%	50 - 150
			D12-Benzo(a)pyrene	2024/08/09		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/08/09		92	%	50 - 150
			D12-Benzo(ghi)perylene	2024/08/09		88	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/08/09		91	%	50 - 150
			D12-Chrysene	2024/08/09		94	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/08/09		91	%	50 - 150
			D12-Perylene	2024/08/09		92	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/08/09		83	%	50 - 150
			D8-Acenaphthylene	2024/08/09		78	%	50 - 150
			D8-Naphthalene	2024/08/09		76	%	50 - 150
			Benzo(a)pyrene	2024/08/09		85	%	50 - 150
9555393	CTC	RPD	Benzo(a)pyrene	2024/08/09	0		%	50
9555393	CTC	Method Blank	D10-2-Methylnaphthalene	2024/08/09		75	%	50 - 150
			D10-Fluoranthene	2024/08/09		87	%	50 - 150
			D10-Phenanthrene	2024/08/09		83	%	50 - 150
			D12-Benzo(a)anthracene	2024/08/09		92	%	50 - 150
			D12-Benzo(a)pyrene	2024/08/09		85	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/08/09		99	%	50 - 150
			D12-Benzo(ghi)perylene	2024/08/09		88	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/08/09		84	%	50 - 150
			D12-Chrysene	2024/08/09		99	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/08/09		90	%	50 - 150
			D12-Perylene	2024/08/09		93	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/08/09		82	%	50 - 150
			D8-Acenaphthylene	2024/08/09		78	%	50 - 150
			D8-Naphthalene	2024/08/09		82	%	50 - 150
			Benzo(a)pyrene	2024/08/09	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/14

Report #: R8276898 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N6079 Received: 2024/08/01, 09:29

Sample Matrix: Puf And Filter # Samples Received: 1

		Date	Date		
Analyses	Quantity	/ Extracted	Analyzed	Laboratory Method	Analytical Method
Calculated Polyaromatic Hydrocarbons	1	2024/08/03	1 2024/08/01	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2024/08/02	2 2024/08/10	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2024/08/01	-	

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Analysis was conducted according to Bureau Veritas' method BRL SOP-00201 and modified where applicable based on the sample matrix. Only the following parameters are accredited: Napthalene, 2-Methylnapthalene, Acenapthylene, Acenapthene, Anthracene, Benzo (a) anthracene, Dibenzo (a,h) anthracene, Fluorene, Benzo (e) pyrene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Chrysene, Fluoranthene, Indeno (1,2,3 cd) pyrene. Additional parameters are not Standards Council of Canada accredited for this matrix.



Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: N/A

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/14

Report #: R8276898 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N6079 Received: 2024/08/01, 09:29

Encryption Key



Bureau Veritas

14 Aug 2024 18:31:51

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.

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Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		ZWS950				
Sampling Date		2024/07/29				
COC Number	N/A					
	UNITS	STN29164 29-JUL PUF#1	QC Batch			
Volume	m3	319.6	ONSITE			
QC Batch = Quality Control Batch						



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (PUF AND FILTER)

Bureau Veritas ID		ZWS950		
Sampling Date		2024/07/29		
COC Number		N/A		
	UNITS	STN29164 29-JUL PUF#1	RDL	QC Batch
Benzo(a)pyrene	ug	0.18	0.10	9555393
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	88		9555393
D10-Fluoranthene	%	99		9555393
D10-Fluorene (FS)	%	94		9555393
D10-Phenanthrene	%	99		9555393
D12-Benzo(a)anthracene	%	106		9555393
D12-Benzo(a)pyrene	%	80		9555393
D12-Benzo(b)fluoranthene	%	105		9555393
D12-Benzo(ghi)perylene	%	95		9555393
D12-Benzo(k)fluoranthene	%	94		9555393
D12-Chrysene	%	100		9555393
D12-Indeno(1,2,3-cd)pyrene	%	100		9555393
D12-Perylene	%	92		9555393
D14-Dibenzo(a,h)anthracene	%	94		9555393
D14-Terphenyl (FS)	%	90		9555393
D8-Acenaphthylene	%	93		9555393
D8-Naphthalene	%	85		9555393
RDL = Reportable Detection Li QC Batch = Quality Control Bat				



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		ZWS950		
Sampling Date		2024/07/29		
COC Number		N/A		
	UNITS	STN29164 29-JUL PUF#1	RDL	QC Batch
Benzo(a)pyrene	ng/m3	0.56	0.31	9552165
RDL = Reportable Detection L QC Batch = Quality Control Ba				



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9555393	CTC	Spiked Blank	D10-2-Methylnaphthalene	2024/08/09		71	%	50 - 150
			D10-Fluoranthene	2024/08/09		87	%	50 - 150
			D10-Phenanthrene	2024/08/09		81	%	50 - 150
			D12-Benzo(a)anthracene	2024/08/09		96	%	50 - 150
			D12-Benzo(a)pyrene	2024/08/09		86	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/08/09		92	%	50 - 150
			D12-Benzo(ghi)perylene	2024/08/09		88	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/08/09		91	%	50 - 150
			D12-Chrysene	2024/08/09		94	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/08/09		91	%	50 - 150
			D12-Perylene	2024/08/09		92	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/08/09		83	%	50 - 150
			D8-Acenaphthylene	2024/08/09		78	%	50 - 150
			D8-Naphthalene	2024/08/09		76	%	50 - 150
			Benzo(a)pyrene	2024/08/09		85	%	50 - 150
9555393	CTC	RPD	Benzo(a)pyrene	2024/08/09	0		%	50
9555393	CTC	Method Blank	D10-2-Methylnaphthalene	2024/08/09		75	%	50 - 150
			D10-Fluoranthene	2024/08/09		87	%	50 - 150
			D10-Phenanthrene	2024/08/09		83	%	50 - 150
			D12-Benzo(a)anthracene	2024/08/09		92	%	50 - 150
			D12-Benzo(a)pyrene	2024/08/09		85	%	50 - 150
			D12-Benzo(b)fluoranthene	2024/08/09		99	%	50 - 150
			D12-Benzo(ghi)perylene	2024/08/09		88	%	50 - 150
			D12-Benzo(k)fluoranthene	2024/08/09		84	%	50 - 150
			D12-Chrysene	2024/08/09		99	%	50 - 150
			D12-Indeno(1,2,3-cd)pyrene	2024/08/09		90	%	50 - 150
			D12-Perylene	2024/08/09		93	%	50 - 150
			D14-Dibenzo(a,h)anthracene	2024/08/09		82	%	50 - 150
			D8-Acenaphthylene	2024/08/09		78	%	50 - 150
			D8-Naphthalene	2024/08/09		82	%	50 - 150
			Benzo(a)pyrene	2024/08/09	<0.10		ug	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Angel Guerrero, Supervisor, Ultra Trace Analysis, HRMS and SVOC

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Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/07/23

Report #: R8245804 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8187 Received: 2024/07/09, 15:31

Sample Matrix: Air # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	5	N/A	2024/07/17	7 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2024/07/17	7 BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: NA

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/07/23

Report #: R8245804

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8187 Received: 2024/07/09, 15:31

Encryption Key

Cristina (Maria) Bacchus Project Manager 23 Jul 2024 14:38:42

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

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Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZRC403	ZRC404	ZRC405	ZRC406		
Sampling Date		2024/07/05	2024/07/05	2024/07/05	2024/07/05		
COC Number		NA	NA	NA	NA		
	UNITS	EAST CANISTER VOC JULY 5, 2024/29302	NORTH CANISTER VOC JULY 5, 2024/14273	OLD WEST CANISTER VOC JULY 5, 2024/23388	SOUTH CANISTER VOC JULY 5, 2024/37350	QC Batch	
Volatile Organics							
Pressure on Receipt	psig	(-4.3)	(-3.4)	(-2.9)	(-4.5)	9521996	
QC Batch = Quality Control B	atch		-	-			

Bureau Veritas ID		ZRC407	
Sampling Date		2024/07/05	
COC Number		NA	
	UNITS	NEW WEST CANISTER VOC JULY 5, 2024/17188	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-3.1)	9521996



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZRC403			ZRC404				
Sampling Date		2024/07/05			2024/07/05				
COC Number		NA			NA				
	UNITS	EAST CANISTER VOC JULY 5, 2024/29302	ug/m3	DL (ug/m3)	NORTH CANISTER VOC JULY 5, 2024/14273	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	13.9	44.5	0.319	0.56	0.10	1.79	0.319	9519781
Surrogate Recovery (%)			•			•	•		
Bromochloromethane	%	88	N/A	N/A	86		N/A	N/A	9519781
D5-Chlorobenzene	%	88	N/A	N/A	85		N/A	N/A	9519781
Difluorobenzene	%	87	N/A	N/A	83		N/A	N/A	9519781
RDL = Reportable Detection QC Batch = Quality Control N/A = Not Applicable			•						

Bureau Veritas ID		ZRC405			ZRC406				
Sampling Date		2024/07/05			2024/07/05				
COC Number		NA			NA				
	UNITS	OLD WEST CANISTER VOC JULY 5, 2024/23388	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC JULY 5, 2024/37350	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	3.28	10.5	0.319	89.9	0.10	287	0.319	9519781
Surrogate Recovery (%)			-						
Bromochloromethane	%	84	N/A	N/A	83		N/A	N/A	9519781
D5-Chlorobenzene	%	86	N/A	N/A	84		N/A	N/A	9519781
Difluorobenzene	%	83	N/A	N/A	83		N/A	N/A	9519781

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable



Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZRC407				
Sampling Date		2024/07/05				
COC Number		NA				
	UNITS	NEW WEST CANISTER VOC JULY 5, 2024/17188	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	1.01	0.10	3.24	0.319	9519781
Surrogate Recovery (%)						
Bromochloromethane	%	81		N/A	N/A	9519781
D5-Chlorobenzene	%	82		N/A	N/A	9519781
Difluorobenzene	%	79		N/A	N/A	9519781
RDL = Reportable Detection	Limit					
QC Batch = Quality Control I	Batch					
N/A = Not Applicable						



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

1	Results relate only to the items tested.
ı	Results relate only to the items tested.



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9519781	NS2	Spiked Blank	Bromochloromethane	2024/07/17		103	%	60 - 140
			D5-Chlorobenzene	2024/07/17		105	%	60 - 140
			Difluorobenzene	2024/07/17		105	%	60 - 140
			Benzene	2024/07/17		108	%	70 - 130
9519781	NS2	Method Blank	Bromochloromethane	2024/07/17		104	%	60 - 140
			D5-Chlorobenzene	2024/07/17		98	%	60 - 140
			Difluorobenzene	2024/07/17		107	%	60 - 140
			Benzene	2024/07/17	<0.10		ppbv	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC



Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: NA

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/07/22

Report #: R8244403 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8005 Received: 2024/07/09, 10:00

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2024/07/16	5 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/07/16	5 BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: NA

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/07/22

Report #: R8244403 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4K8005 Received: 2024/07/09, 10:00

Encryption Key



Bureau Veritas

22 Jul 2024 10:42:47

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669

Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZRB244					
Sampling Date		2024/07/05					
COC Number		NA					
	UNITS	STN29164 05-JUL	QC Batch				
Volatile Organics							
Pressure on Receipt	psig	(-4.2)	9517665				
QC Batch = Quality Control Batch							



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZRB244								
Sampling Date		2024/07/05								
COC Number		NA								
	UNITS	STN29164 05-JUL	RDL	ug/m3	DL (ug/m3)	QC Batch				
Volatile Organics										
Benzene	ppbv	0.29	0.10	0.929	0.319	9517667				
Surrogate Recovery (%)										
Bromochloromethane	%	88		N/A	N/A	9517667				
D5-Chlorobenzene	%	85		N/A	N/A	9517667				
Difluorobenzene	%	89		N/A	N/A	9517667				
RDL = Reportable Detection L	RDL = Reportable Detection Limit									
QC Batch = Quality Control Ba	atch									
N/A = Not Applicable										



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC					·			
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9517667	DM2	Spiked Blank	Bromochloromethane	2024/07/16		130	%	60 - 140
			D5-Chlorobenzene	2024/07/16		133	%	60 - 140
			Difluorobenzene	2024/07/16		131	%	60 - 140
			Benzene	2024/07/16		103	%	70 - 130
9517667	DM2	Method Blank	Bromochloromethane	2024/07/16		95	%	60 - 140
			D5-Chlorobenzene	2024/07/16		91	%	60 - 140
			Difluorobenzene	2024/07/16		96	%	60 - 140
			Benzene	2024/07/16	< 0.10		ppbv	
9517667	DM2	RPD	Benzene	2024/07/16	0.64		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Habr	
Melanie Mabini, Team Leader	



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/02

Report #: R8261381 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M4277 Received: 2024/07/19, 15:55

Sample Matrix: Air # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	4	N/A	2024/07/26	5 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	4	N/A	2024/07/26	5 BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/02

Report #: R8261381

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M4277 Received: 2024/07/19, 15:55

Encryption Key

Cristina (Maria) Bacchus Project Manager 02 Aug 2024 13:16:50

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZUJ313	ZUJ314	ZUJ315	ZUJ316				
Sampling Date		2024/07/18	2024/07/18	2024/07/18	2024/07/18				
COC Number		na	na	na	na				
	UNITS	EAST CANISTER VOC JULY 17,2024#2774	NORTH CANISTER VOC JULY 17,2024#18251	OLD WEST CANISTER VOC JULY 17,2024#2803	SOUTH CANISTER VOC JULY 17,2024#130	QC Batch			
Volatile Organics									
Pressure on Receipt	psig	(-4.6)	(-3.9)	(-3.2)	(-4.5)	9540881			
QC Batch = Quality Control Batch									



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZUJ313			ZUJ314				
Sampling Date		2024/07/18			2024/07/18				
COC Number		na			na				
	UNITS	EAST CANISTER VOC JULY 17,2024#2774	ug/m3	DL (ug/m3)	NORTH CANISTER VOC JULY 17,2024#18251	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	37.5	120	0.319	2.05	0.10	6.56	0.319	9540245
Surrogate Recovery (%)			•			•	•	-	
Bromochloromethane	%	92	N/A	N/A	97		N/A	N/A	9540245
D5-Chlorobenzene	%	93	N/A	N/A	100		N/A	N/A	9540245
Difluorobenzene	%	93	N/A	N/A	103		N/A	N/A	9540245
RDL = Reportable Detectio QC Batch = Quality Control N/A = Not Applicable			•						

Bureau Veritas ID		ZUJ315			ZUJ316				
Sampling Date		2024/07/18			2024/07/18				
COC Number		na			na				
	UNITS	OLD WEST CANISTER VOC JULY 17,2024#2803	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC JULY 17,2024#130	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	1.15	3.68	0.319	21.1	0.10	67.3	0.319	9540245
Surrogate Recovery (%)	-		-					-	
Bromochloromethane	%	89	N/A	N/A	90		N/A	N/A	9540245
D5-Chlorobenzene	%	80	N/A	N/A	81		N/A	N/A	9540245
Difluorobenzene	%	90	N/A	N/A	93		N/A	N/A	9540245
l									

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.		



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9540245	ANE	Spiked Blank	Bromochloromethane	2024/07/26		99	%	60 - 140
			D5-Chlorobenzene	2024/07/26		109	%	60 - 140
			Difluorobenzene	2024/07/26		110	%	60 - 140
			Benzene	2024/07/26		95	%	70 - 130
9540245	ANE	Method Blank	Bromochloromethane	2024/07/26		103	%	60 - 140
			D5-Chlorobenzene	2024/07/26		103	%	60 - 140
			Difluorobenzene	2024/07/26		110	%	60 - 140
			Benzene	2024/07/26	< 0.10		ppbv	
9540245	ANE	RPD [ZUJ314-01]	Benzene	2024/07/26	19		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/02

Report #: R8261528 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M4313 Received: 2024/07/22, 15:28

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2024/07/26	5 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/07/26	5 BRL SOP-00304	EPA TO-15 m

Remarks:

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/02

Report #: R8261528 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M4313 Received: 2024/07/22, 15:28

Encryption Key

Cristina (Maria) Bacchus Project Manager 02 Aug 2024 15:32:39

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763



Your P.O. #: 45006100 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZUJ473	
Sampling Date		2024/07/22	
COC Number		na	
	UNITS	NEW WEST CANISTERVOC JULY 19,2024/1240	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-3.1)	9542038
QC Batch = Quality Control Ba	atch		



RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZUJ473								
Sampling Date		2024/07/22								
COC Number		na								
	UNITS	NEW WEST CANISTERVOC JULY 19,2024/1240	RDL	ug/m3	DL (ug/m3)	QC Batch				
Volatile Organics	/olatile Organics									
Benzene	ppbv	0.61	0.10	1.94	0.319	9542039				
Surrogate Recovery (%)			-							
Bromochloromethane	%	81		N/A	N/A	9542039				
D5-Chlorobenzene	%	75		N/A	N/A	9542039				
Difluorobenzene	%	79		N/A	N/A	9542039				
RDL = Reportable Detection QC Batch = Quality Control										
N/A = Not Applicable										



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.		



Report Date: 2024/08/02

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500610028 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9542039	DM2	Spiked Blank	Bromochloromethane	2024/07/26		104	%	60 - 140
			D5-Chlorobenzene	2024/07/26		104	%	60 - 140
			Difluorobenzene	2024/07/26		104	%	60 - 140
			Benzene	2024/07/26		110	%	70 - 130
9542039	DM2	Method Blank	Bromochloromethane	2024/07/26		88	%	60 - 140
			D5-Chlorobenzene	2024/07/26		81	%	60 - 140
			Difluorobenzene	2024/07/26		87	%	60 - 140
			Benzene	2024/07/26	< 0.10		ppbv	
9542039	DM2	RPD	Benzene	2024/07/26	1.3		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC



Your Project #: RAIN CARBON CANADA INC

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/02

Report #: R8261341 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M3213 Received: 2024/07/22, 10:28

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2024/07/24	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/07/24	BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/02

Report #: R8261341 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4M3213 Received: 2024/07/22, 10:28

Encryption Key



Bureau Veritas

02 Aug 2024 12:41:06

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

This report has been generated and distributed using a secure automated process.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZUD675			
Sampling Date		2024/07/17			
	UNITS	STN29164	QC Batch		
Pressure on Receipt	psig (-4.7) 95		9535779		
QC Batch = Quality Control Batch					



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZUD675									
Sampling Date		2024/07/17									
	UNITS	STN29164	RDL	ug/m3	DL (ug/m3)	QC Batch					
Benzene	ppbv	<0.10	0.10	<0.319	0.319	9535780					
Surrogate Recovery (%)	Surrogate Recovery (%)										
Bromochloromethane	%	88		N/A	N/A	9535780					
D5-Chlorobenzene	%	86		N/A	N/A	9535780					
Difluorobenzene	%	89		N/A	N/A	9535780					

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9535780	DM2	Spiked Blank	Bromochloromethane	2024/07/24		104	%	60 - 140
			D5-Chlorobenzene	2024/07/24		105	%	60 - 140
			Difluorobenzene	2024/07/24		106	%	60 - 140
			Benzene	2024/07/24		106	%	70 - 130
9535780	DM2	Method Blank	Bromochloromethane	2024/07/24		80	%	60 - 140
			D5-Chlorobenzene	2024/07/24		73	%	60 - 140
			Difluorobenzene	2024/07/24		80	%	60 - 140
ı			Benzene	2024/07/24	<0.10		ppbv	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/15

Report #: R8277410 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5208 Received: 2024/07/31, 16:00

Sample Matrix: Air # Samples Received: 5

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	5	N/A	2024/08/01	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2024/08/01	BRL SOP-00304	EPA TO-15 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

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 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: RAIN CARBON CANADA INC.

Your C.O.C. #: na

Attention: Robin Hart

RAIN CARBON Canada Inc. 725 Strathearne Ave North Hamilton, ON CANADA L8H 5L3

Report Date: 2024/08/15

Report #: R8277410

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5208 Received: 2024/07/31, 16:00

Encryption Key

Julian Tong Project Manager Assistant 15 Aug 2024 10:46:30

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763



RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZWO616	ZWO617	ZWO618	ZWO619					
Sampling Date		2024/07/29	2024/07/29	2024/07/29	2024/07/29					
COC Number		na	na	na	na					
	UNITS	EAST CANISTER VOC JULY 29, 2024	NORTH CANISTER VOC JULY 29, 2024	OLD WEST CANISTER VOC JULY 29, 2024	SOUTH CANISTER VOC JULY 29, 2024	QC Batch				
Volatile Organics										
Pressure on Receipt	psig	(-4.4)	(-3.9)	(-2.9)	(-4.6)	9553537				
QC Batch = Quality Control Batch										

Bureau Veritas ID		ZWO620			
Sampling Date	2024/07/29				
COC Number		na			
	UNITS	NEW WEST CANISTER VOC JULY 29, 2024	QC Batch		
Volatile Organics					
Pressure on Receipt	psig	(-3.3)	9553537		
QC Batch = Quality Control	l Batch		-		



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZWO616			ZWO617				
Sampling Date		2024/07/29			2024/07/29				
COC Number		na			na				
	UNITS	EAST CANISTER VOC JULY 29, 2024	ug/m3	DL (ug/m3)	NORTH CANISTER VOC JULY 29, 2024	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics								-	
Benzene	ppbv	6.60	21.1	0.319	1.10	0.10	3.51	0.319	9553539
Surrogate Recovery (%)			•			•		•	
Bromochloromethane	%	69	N/A	N/A	70		N/A	N/A	9553539
D5-Chlorobenzene	%	68	N/A	N/A	68		N/A	N/A	9553539
Difluorobenzene	%	68	N/A	N/A	68		N/A	N/A	9553539
RDL = Reportable Detection QC Batch = Quality Contro			,						
N/A = Not Applicable									

Bureau Veritas ID		ZWO618			ZWO619				
Sampling Date		2024/07/29			2024/07/29				
COC Number		na			na				
	UNITS	OLD WEST CANISTER VOC JULY 29, 2024	ug/m3	DL (ug/m3)	SOUTH CANISTER VOC JULY 29, 2024	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	9.62	30.7	0.319	45.5	0.10	145	0.319	9553539
Surrogate Recovery (%)									
Bromochloromethane	%	71	N/A	N/A	71		N/A	N/A	9553539
D5-Chlorobenzene	%	66	N/A	N/A	67		N/A	N/A	9553539
Difluorobenzene	%	69	N/A	N/A	70		N/A	N/A	9553539

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZWO620				
Sampling Date		2024/07/29				
COC Number		na				
	UNITS	NEW WEST CANISTER VOC JULY 29, 2024	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	1.70	0.10	5.43	0.319	9553539
Surrogate Recovery (%)			•			
Bromochloromethane	%	73		N/A	N/A	9553539
D5-Chlorobenzene	%	69		N/A	N/A	9553539
Difluorobenzene	%	71		N/A	N/A	9553539
RDL = Reportable Detection QC Batch = Quality Control B						
N/A = Not Applicable						



GENERAL COMMENTS

Results relate only to the items tested.		



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9553539	DM2	Spiked Blank	Bromochloromethane	2024/08/01		101	%	60 - 140
			D5-Chlorobenzene	2024/08/01		102	%	60 - 140
			Difluorobenzene	2024/08/01		99	%	60 - 140
			Benzene	2024/08/01		112	%	70 - 130
9553539	DM2	Method Blank	Bromochloromethane	2024/08/01		73	%	60 - 140
			D5-Chlorobenzene	2024/08/01		70	%	60 - 140
			Difluorobenzene	2024/08/01		74	%	60 - 140
			Benzene	2024/08/01	< 0.10		ppbv	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



RAIN CARBON Canada Inc. Client Project #: RAIN CARBON CANADA INC. Your P.O. #: 4500610028

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

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Your P.O. #: 32669

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/15

Report #: R8277415 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5774 Received: 2024/08/01, 09:29

Sample Matrix: Air # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Canister Pressure (TO-15)	1	N/A	2024/08/07	7 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2024/08/07	7 BRL SOP-00304	EPA TO-15 m

Remarks:

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your P.O. #: 32669

Your Project #: RAIN CARBON CANADA INC

Your C.O.C. #: na

Attention: Ruetgers list

Rotek Environmental Inc. 15 Keefer Court Hamilton, ON CANADA L8E 4V4

Report Date: 2024/08/15

Report #: R8277415 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4N5774 Received: 2024/08/01, 09:29

Encryption Key



Bureau Veritas

15 Aug 2024 07:23:01

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager

Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

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Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		ZWR495	
Sampling Date		2024/07/29	
COC Number		na	
	UNITS	STN29164 29-JUL	QC Batch
Pressure on Receipt	psig	(-4.9)	QC Batch 9563078



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		ZWR495					
bureau veritas ib		ZVVK495					
Sampling Date		2024/07/29					
COC Number		na					
	UNITS	STN29164 29-JUL	RDL	ug/m3	DL (ug/m3)	QC Batch	
Benzene	ppbv	0.44	0.10	1.40	0.319	9563267	
Surrogate Recovery (%)							
Bromochloromethane	%	74		N/A	N/A	9563267	
D5-Chlorobenzene	%	75		N/A	N/A	9563267	
Difluorobenzene	%	71		N/A	N/A	9563267	

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669 Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669 Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9563267	NS2	Spiked Blank	Bromochloromethane	2024/08/07		93	%	60 - 140
			D5-Chlorobenzene	2024/08/07		95	%	60 - 140
			Difluorobenzene	2024/08/07		95	%	60 - 140
			Benzene	2024/08/07		105	%	70 - 130
9563267	NS2	Method Blank	Bromochloromethane	2024/08/07		90	%	60 - 140
			D5-Chlorobenzene	2024/08/07		87	%	60 - 140
			Difluorobenzene	2024/08/07		93	%	60 - 140
			Benzene	2024/08/07	< 0.10		ppbv	
9563267	NS2	RPD	Benzene	2024/08/07	11		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



Rotek Environmental Inc. Client Project #: RAIN CARBON CANADA INC Your P.O. #: 32669

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

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APPENDIX E

Field Notes



PUF - Station Logs

	Sample Duration	ite) Sample Volume	(Z1.6 = 20.4 Hrs)
	Calculated	Sample Volume	F) (293.6 - 358.8 m ³)
	Kemova	(Date)	(Time EST)
		ETI Off	
	NOVE		5
		ETI On	
	NOVE		5
.,	Installation	(Date)	(Time EST)
	Movyom	INIAXXAIII	# CIIII
	P	Cartridge #	Maxxam ID#
	otol olumbo	Sample Date	(aa-mmm-yy)

23.22	77.07	26.60	23.04	23 41	1.02				
322.4	1.770	7	0 1.	26	2.0.5				
08 - Jul-24	10:00	18-Jul-24	10:28	30-Jul-24	09:11				
7631 07	† - - - -	20 727	4033.20	7679 60	60.0		,		
ø	3	98	8	30	3				
4608 72	4000+	1631 01	46.1.04	1665 20	4000				
ά	3	33	25	20	Ç,				
04-Jul-24	09:28	16-Jul-24	09:21	26-Jul-24	14:09				
ZOB-062-04	10-200-10-2	700 146 04	20L-140-0	700 466 04	10-00t-00-00				
PUF#1	ZOP-062-01	PUF#1	ZOP-146-01	PUF#1	ZOQ-466-01				
0.6 11 24	t7-100-00	47 Ind 24	47-Inc-71	70 [11]	47-Inc-67				

: East

: 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

Comments	3
Technician	Initial

BM	BM	BM		



PUF - Station Logs

	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN	ETI On	MAGN	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m³)	Sample Duration (21.6 - 26.4 Hrs)
70	PUF #2	ZOB 063 04	04-Jul-24	30	2020 62	90	2061 06	08-Jul-24	7 306 7	23 34
03-Jul-24	ZOP-063-01	10-con-107	09:28	၀	70.000	၀ှ	700 - 007	10:10	730.7	40.02 4
47 1.1 24	PUF #2	700	16-Jul-24	000	2061 06	Ç	0000	18-Jul-24	6 706	000
+7-100-71	ZOP-147-01		09:37	ဝိ	700.1.002	4	2002	11:07	6.100	23.33
00 In 00	PUF #2	700 467 04	26-Jul-24	000	2006 30	Ç	33 0000	30-Jul-24	200	20.00
43-Jul-67	ZOQ-467-01	20⊈-40/-01	14:19	ဝိ	7000 20	,	2300.00	09:19	2.100	23.30

: North: 725 Strathearne Avenue N, Hamilton: July 1 to September 30, 2024

4.00	
Technician	Initial

BM	BM	BM		



PUF - Station Logs

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN	ETI On	MAGN	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m³)	Sample Duration (21.6 - 26.4 Hrs)
5	PUF #3	700 064 04	04-Jul-24	000	4407 40	Ç	70 704	08 - Jul-24	200	73 67
03-3ul-24	ZOP-064-01	1001	09:55	9	04.	,	10.1264	10:22	5.0	70.07
2	PUF #3	7007	17-Jul-24	o	707	C	7544 00	18-Jul-24	0.700	22 70
17-Jul-24	ZOP-148-01	ZOF-148-01	09:50	S S	4521.07	ñ Y	4244.80	11:01	554.9	23.79
20 1:-1	PUF #3	700 468 04	26-Jul-24	o	1544 07	ç	450005	30-Jul-24	0 300	22 10
47-In	ZOQ-468-01	10004	10:05	07	4.0.4 0.44 0.44	5	4000.00	09:37	0.000	23.10

: Old West : 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

Comments	
Technician Initial	

NO.	BM	ВМ		



Station Location Period Quarter

PUF - Station Logs

on s)										
Sample Duration (21.6 - 26.4 Hrs)	00 00	72.30	70 00	16:33	70 00	70.22				
Calculated Sample Volume (293.6 - 358.8 m³)	7 7 7		6 7	7:	200	302.3				
Removal (Date) (Time EST)	08-Jul-24	10:40	18-Jul-24	10:35	30-Jul-24	09:29				
ETI Off	2412	4413.23	26 3877	7.00	1150 10	5				
MAGN	98	8	98	3	20	9				
ETI On	4300 30	4590.53	7413 20	44.0.49	4436.03	4400.43				
MAGN	000	၀	OC CT	9	37	, ,				
Installation (Date) (Time EST)	04-Jul-24	10:16	16-Jul-24	10:08	26-Jul-24	10:28				
Maxxam Filter ID #	70B 06B 04	- C007-L07	700 140 04	10-841-107	700 480 04					
PUF Cartridge # Maxxam ID#	PUF #4	ZOP-065-01	PUF #4	ZOP-149-01	PUF #4	ZOQ-469-01				
Sample Date (dd-mmm-yy)	20	03-3ul-24	47 Ind 24	+7-InC-7-	20 1.1 24	47-InC-67				

South725 Strathearne Avenue N, HamiltonJuly 1 to September 30, 2024

Comments	
Technician Initial	

ВМ	BM	BM		



PUF - Station Logs

Location Period

Quarter

Station

Removal Calculated Sample Duration MAGN PUF Maxxam (2.2.1) Sample Date Cé (dd-mmm-yy)

5	5		#O uo	Filter ID # (Time EST) On Off
	-			-
4208 86	34		4185 31 34	38 4185 31
2	5			10:04
1232 ED	αr		7008 86	38 4208 86 38
15.36.30	3	00:0024	00:0024	13:57
4256.08	30		7732 60 30	38 4232 50
1200.00	9	45.25.30	45.25.30	900

: New West : 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

Comments
Technician Initial

BM	ВМ	BM		



VOC - Station Logs

	Technician		
	Sample Duration	(24 6 26 4 Hrs)	(21.0 - 20.4 mis)
30000	Average On/On	Sample Flow	(3.15 - 3.85 mL/Min)
0.0000	Leilloval	(Date)	(Time EST)
30	5	Pressure	("Hg)
	Off Flow	(aim) (m)	(
	On Off Flow	Pressure (ml /min)	("Hg)
	On Flow	Pressure	(""L/""") ("Hg) (""L/""")
a citallator	5	Pressure	("Hg)
ocitellation		(Date) (ml /min) Pressure	" (Time EST) (""L/""") ("Hg)

20	N O	Ma	2	O. A.	Ā					
20	24.0		0. †	0.00	7 . 450					
			İ		I		-			I
08-Jul-24	10:04	18-Jul-24	10:30	30-Jul-24	09:13					
0	0.01	7	2	6	0.00					
	ļ		İ		ļ		ı			ļ
C	0.05-	0 08) ; ;	O C	0.00					
	l		1				I		1	ļ
04-Jul-24	06:30	16-Jul-24	09:25	26-Jul-24	14:11					
COCCO	79207	7777	t	3700	7,633					
20	05-JUI-24	47 In 94	†7-Inc- /-	70 1:1	43-Jul-64					

: East: 725 Strathearne Avenue N, Hamilton: July 1 to September 30, 2024

: Q2

	Comments	
Leak	Pressure (As	Left) (As



VOC - Station Logs

Technicia	citical	<u> </u>
Sample Duration Technicia	(21 6 26 4 Hrs)	(61114.02 - 0.12)
Average On/Off	Sample Flow	(3.15 - 3.85 mL/Min)
Removal	(Date)	(Time EST)
JJO	Pressure	("Hg)
Off Flow	_	()
ō	Pressure	("Hg)
On Flow	(aia)	(
č	5 3	
č	(Date)	(Time EST) (""L
VOC ID Installation On I	# (Date)	_ *

Ma	N O	Ma	<u>.</u>	V	Ā O					
0 70	74.0	24.0		2.0	24.0					
		I			-		-			I
08-Jul-24	10:13	18-Jul-24	11:09	30-Jul-24	09:22					
o) i	7	-10.0) - -					
	ļ		İ				ŀ			ļ
30.0	0.00	0 08) ;	300	c -63-					
			l				!		1	l
04-Jul-24	09:44	16-Jul-24	09:34	26-Jul-24	14:19					
14073	6/74-	18251		07663	27,033					
06 11 24	05-Jul-24		†7-Ino-7-	 	47-Inc-67					

: North : 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

	Comments	
Leak	Pressure (As	Left) (As



VOC - Station Logs

2										
Technicia Initial	BM		Ma	Š	Ma	5				
Sample Duration Technician (21.6 - 26.4 Hrs) Initial	0.80	24.0		24.0		0.45				
Average On/Off Sample Flow (3.15 - 3.85 mL/Min)		ı		l	I				l	l
Removal (Date) (Time EST)	08-Jul-24	10:24	18-Jul-24	10:59	30-Jul-24	09:39				
Off Pressure ("Hg)	7) `	0.4	2.	r.	?				
Off Flow (mL/min)			I			ļ				ł
On Pressure ("Hg)	0 08	0.000	0.00	0.65	30.0	9				
On Flow (mL/min)		l		l		l			l	
Installation (Date) (Time EST)	04-Jul-24	09:59	16-Jul-24	09:53	26-Jul-24	10:08				
VOC ID Canister #	23388	00000	2803	000	2673	2.7				
Sample Date (dd-mmm-yy)	05 1.1 24	47-InC-60	47_ [u]_24	+7-IDO-7-	20 1.1.24	+3-InC-67				

: Old West : 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

	Comments	
Leak	Pressure (As	Left) (As



VOC - Station Logs

Technician		nitia	
Sample Duration Technicia	Sample Daracion	(21 6 - 26 4 Hrs)	
Average On/Off	Sample Flow		(3.15 - 3.85 mL/Min)
Removal	(Date)	í (l	(IIMe ESI)
#O	Pressure)	(BH)
Off Flow	5	(mL/min)	•
ő	Pressure		(BH)
On Flow	5	(mL/min)	•
Installation	(Date)	į	(Time EST)
מו	2	Canister #	
otel clame	ואום חמום	-mmm-yy)	

BM	5	BM		NO	N O					
0.70) 	24.0		0.70	24.0					
		I					ł	-		I
08-Jul-24	10:42	18-Jul-24	18-Jul-24 10:37		30-Jul-24 09:31					
ע	9	0.01	2	, ,	0.00					
ļ			İ		!		i	l		l
-30.0		0.00	0.687-	300	0.62-					
!			l				I	I		ļ
04-Jul-24	10:20	16-Jul-24	16-Jul-24 		10:31					
37350		730	130		, , , , , , , , , , , , , , , , , , , ,		·	•		
05_111_24	17-1000	17-Jul-24		20 1.1	47-Inc-67					

: South : 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

	Comments	
Leak	Pressure (As	Left) (As



VOC - Station Logs

BM		BM		BM							
					0						
0.70	7	24.0		2.0	74.						
	I		I		ı			l	l		l
08-Jul-24	10:32	22-Jul-24	08:32	30-Jul-24	09:45						
0	-7.0		-6.0		-7.0					ı	
		1			l			İ	l	l	l
000	2	-30.0		008	0.00						
	I								ļ		ļ
04-Jul-24	10:07	18-Jul-24	10:50	26-Jul-24	10:20						
17188	17188		24174		18181						
0. I 24	05-Jul-24		† 7-In C-6	29-Jul-24							

: New West

: 725 Strathearne Avenue N, Hamilton : July 1 to September 30, 2024

	Comments	
Leak	Pressure (As	Left) (As