

REPORT

September 2025 Ambient Air Monitoring Report

Rain Carbon Canada Inc.

Submitted by:

Rain Carbon Canada Inc.

725 Strathearn Avenue North
Hamilton, Ontario
L8H 5L3

October 2025

Distribution List

Electronic copy - Ontario Ministry of the Environment, Conservation and Parks

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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 eighty third monthly report submitted as part of the Rain Carbon ambient monitoring program and summarizes the measurements taken in September 2025.

The ambient air monitoring measurements for September 2025 follow the December 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 September 2022 through December 2022 and resumed monitoring on September 7, 2023.

This report includes the following information for measurements taken in September 2025:

- 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.

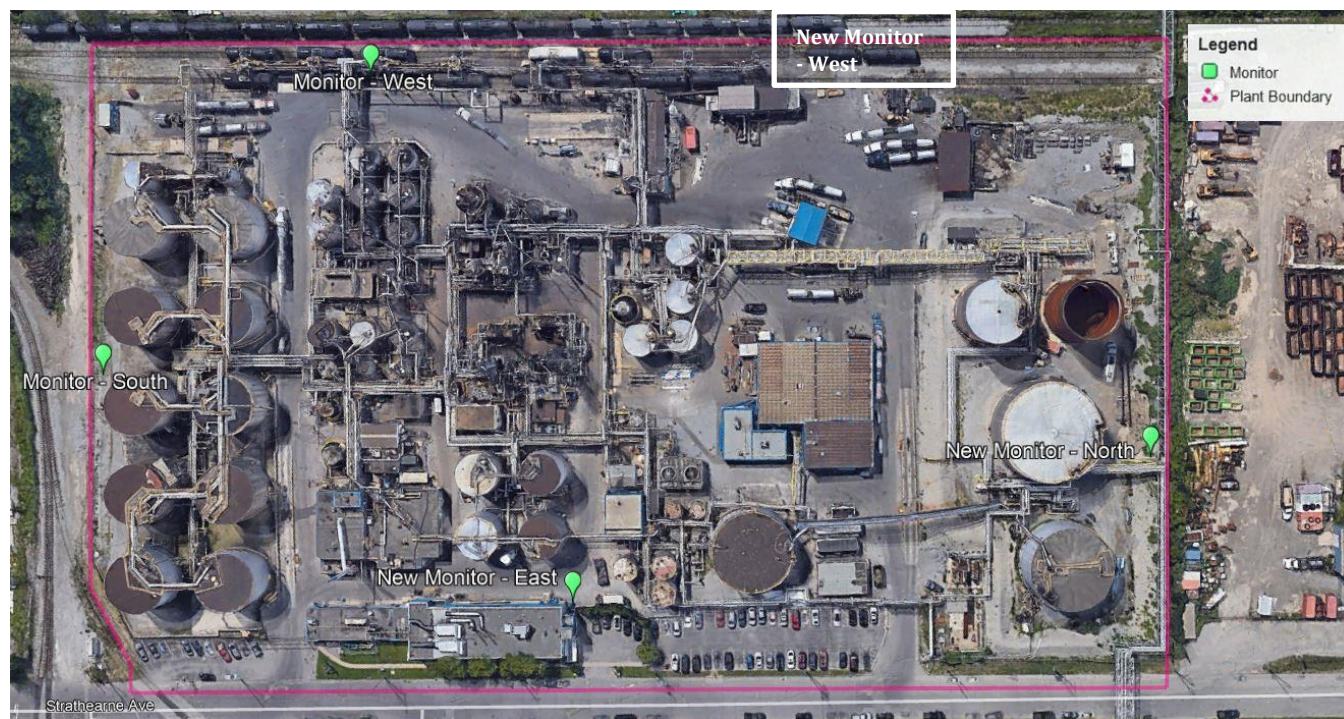


Figure 1: Monitor and Source Locations



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

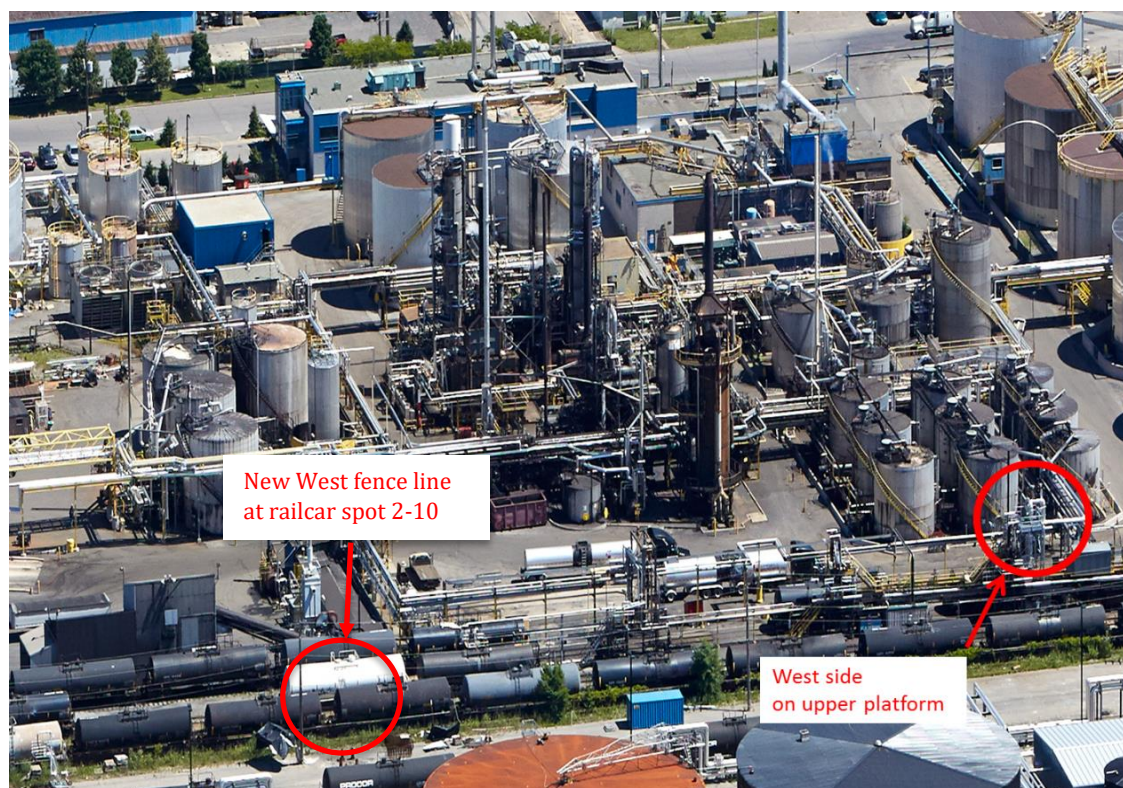


Figure 3: Monitor Locations on the West Side of the Facility



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 +/- 10% which is equivalent to total volumes between 293.6 m³ and 358.8 m³ over 24 hours. The summa canister pressures on receipt and PUF filter total volumes are presented below in Tables 2 and 3.

For the September 2025 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

For the September 2025 benzene monitoring results, all the summa canister pressures on receipt were within the MECP acceptable pressure of receipt range of between -1.6 to -13.4 inches Hg.

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

Monitoring Event Date	Benzene SUMMA Canister Pressure on Receipt (inches Hg)					
	East	North	Old West	South	New West	HAMN STN 29164
September 10	- 9.57	- 7.94	- 6.72	-5.70	- 7.74	-9.16
September 22	-7.94	- 6.11	-10.38*	-5.90	- 7.94	-7.94

*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.

Table 3: PUF Filter Total Volumes

Monitoring Event Date	+B(a)P PUF Total Volume [m ³]					
	East	North	Old West	South	New West	HAMN STN 29164
September 10	332.5	308.2	315.1	319.7	314.7	308.7
September 22	327.1	329.5	323.6	307.2	310.3	327.6

4.0 SUMMARY OF BENZENE MEASUREMENTS

Table 4: Summary of September 2025 Benzene Measurements

Monitoring Event Date	Measured Concentration [$\mu\text{g}/\text{m}^3$]					HAMN STN 29164
	East	North	Old West	South	New West	
September 10	17.0	45.1	15.6	23.2	12.1	0.948
September 22	25.7	14.1	0.709*	11.5	3.36	0.669

*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.

Two sets of benzene measurements were taken in September 2025. The measurements range from 0.669 $\mu\text{g}/\text{m}^3$ to **45.1 $\mu\text{g}/\text{m}^3$ benzene**, with the highest value being detected at the **north monitor** during the **Wednesday September 10, 2025, MECP monitoring event**.

All the benzene concentrations measured during the September 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of 100 $\mu\text{g}/\text{m}^3$ benzene.

5.0 SUMMARY OF B(a)P MEASUREMENTS.

Table 5: Summary of September 2025 B(a)P Measurements.

Monitoring Event Date	Measured Concentration [$\mu\text{g}/\text{m}^3$]					HAMN STN 29164
	East	North	Old West	South	New West	
September 10	0.00066	<0.00039	0.00083	0.00056	0.00095	<0.00032
September 22	<0.00031	0.00042	<0.00031	<0.00033	0.00045	<0.00031

Two sets of B(a)P measurements were taken in September 2025. The B(a)P measurements ranged from < 0.00031 $\mu\text{g}/\text{m}^3$ to **0.00095 $\mu\text{g}/\text{m}^3$ B(a)P**, with the highest value being detected at the **new west monitor** during the **Wednesday September 10, 2025, 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 two September 2025 monitoring events were below the **0.0043 $\mu\text{g}/\text{m}^3$ Measured Level Threshold (MLT)** and below the **24-hr Upper Risk Threshold (URT) of 0.0050 $\mu\text{g}/\text{m}^3$ B(a)P**.

6.0 CONCLUSIONS

All of the B(a)P concentrations measured during the two September 2025 monitoring events were below the $0.0043 \mu\text{g}/\text{m}^3$ Measured Level Threshold (MLT) and below the 24-hr Upper Risk Threshold (URT) of $0.0050 \mu\text{g}/\text{m}^3$ B(a)P.

All the benzene concentrations measured during the two September 2025 MECP monitoring events were below the 24-hour Upper Risk Threshold (URT) of $100 \mu\text{g}/\text{m}^3$ benzene.

All of the summa canister pressures on receipt were within the MECP acceptable pressure of receipt of between -1.6 to -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

1 PDF Copy - MECP, SDB, Toronto

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Figure 1 – Site Plan

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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.

Contaminant	Criteria	Monitor Location				
		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	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/m ³ (0.1 ng/m ³)
Benzene	Mass spectrometry or other detector(s) such as flame ionization detector (FID) or electron capture detector (ECD)	0.16 µg/m ³

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

A handwritten signature in black ink that reads "R. S. Hart". The signature is written in a cursive style with a large, stylized 'H'.

Robin S. Hart P.Eng.

Environmental Engineer

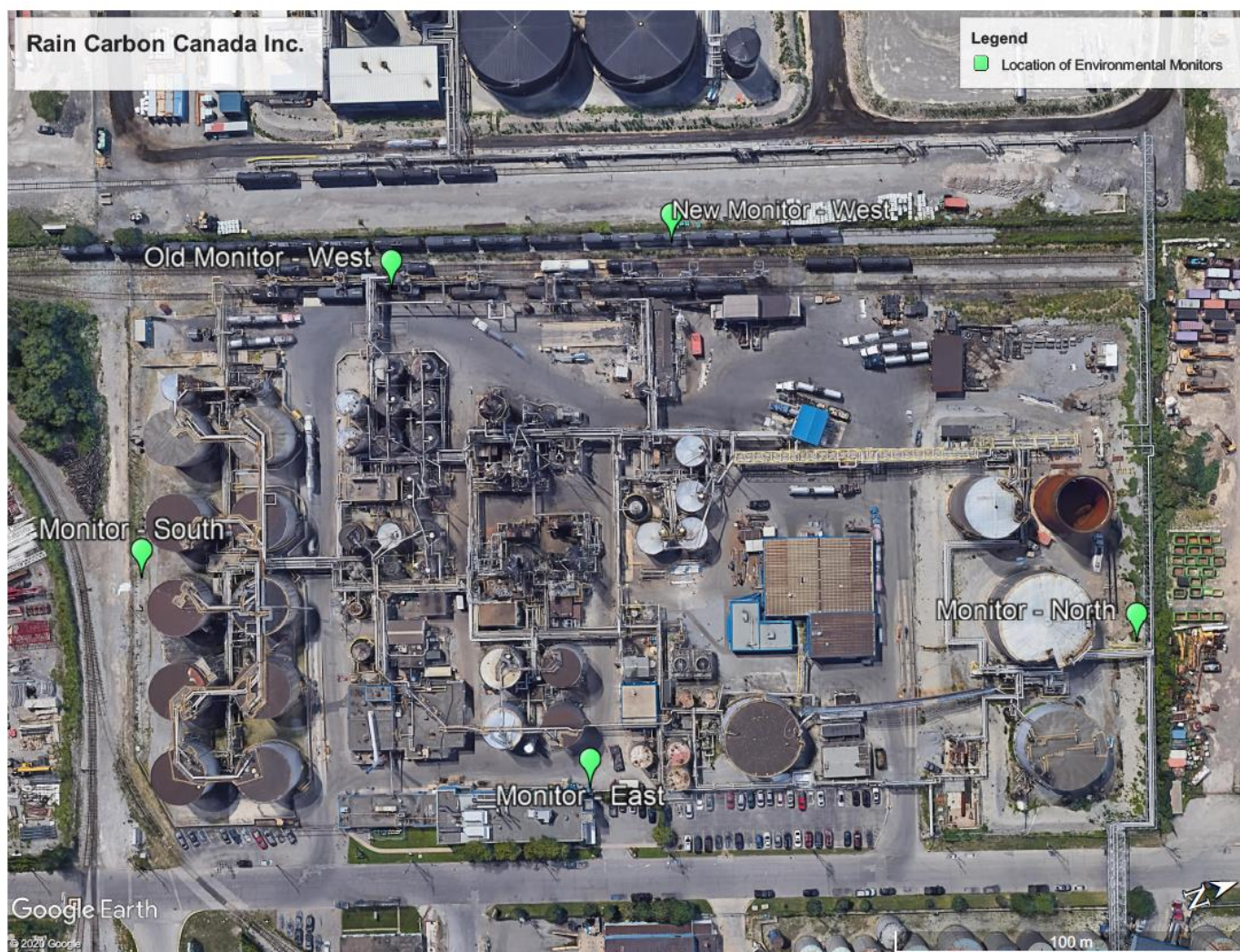
Rain Carbon Canada Inc.

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.

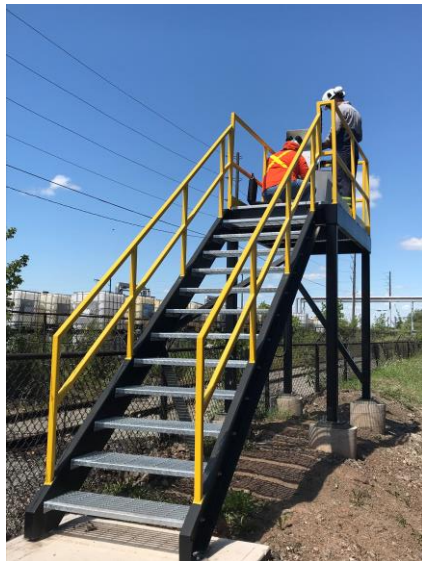


North monitor

Figure A3: Aerial View 1 – Existing South Monitoring Station



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



New West Monitor



East monitor



Figure A4: Aerial View 4 – East Monitoring Station

APPENDIX B

Laboratory Analysis

Rain Carbon Canada Inc. - Monthly BaP Sampling Report

Reporting Period	: September 2025
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

BaP
ng/m ³
0.315
0.8

Sample Date
September 10, 2025
September 22, 2025

Location					
East	North	Old West	South	New West	STN29164
0.66	0.39	0.83	0.56	0.95	0.16*
0.155	0.42	0.155	0.165	0.45	0.155*

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

0.41	0.405	0.49	0.36	0.70	0.1575*
0.66	0.42	0.83	0.56	0.95	0.16*
0.155	0.38	0.155	0.165	0.45	0.155*
0	0	1	0	1	0*
2	2	2	2	2	2*
100	100	100	100	100	100*

*These results alone follow Rotek reporting protocol.** Invalid sample as the total PUF volumes recorded were under the minimum volume requirement of 293.6 m³. ** Sample not obtained as no power to the PAH monitor. **Note:** All non detectable results reported as ½ the Reportable Detection Limit (RDL).

Comments:

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period	: September 2025
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/m ³
0.319
12.7

Sample Date
September 10, 2025
September 22, 2025

Location					
East	North	Old West	South	New West	STN29164
17.0	45.1	15.6	23.2	12.1	0.948*
25.7	14.1	0.709	11.5	3.36	0.669*

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

21.35	29.6	8.15	17.35	7.73	0.809*
25.7	45.1	15.6	23.2	12.1	0.948*
17.0	14.1	0.709	11.5	3.36	0.669*
2	2	1	1	0	0*
2	2	2	2	2	2*
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. - Monthly BaP Sampling Report

Reporting Period : September 2025
Sampling Method : CARB429(ARBM1,M2) mod
Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	BaP
Units	ng/m ³
Analytical RDL	0.315
Annual Site Specific Standard	0.8

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
10-Sep-25						0.16
22-Sep-25						0.16

Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.16
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.16
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.16
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	2
% Valid Data	100	100	100	100	100	100

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

Comments

Rain Carbon Canada Inc. - VOC Sampling Report

Reporting Period : September 2025
Sampling Methods : GC/MS (TO15)
Sampling Times : 24 hour duration starting at 00:00 EST on the Sample Date

Parameter	Benzene
Units	ug/m ³
Analytical RDL	0.319
Site Specific Standard	12.7

Sample Date	Location					
	East	North	Old West	South	New West	STN29164
10-Sep-25						0.95
22-Sep-25						0.67

Monthly Ave	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.81
Monthly Max	0.00	0.00	0.00	0.00	0.00	0.95
Monthly Min	0.00	0.00	0.00	0.00	0.00	0.67
No. of Samples >Standard	0	0	0	0	0	0
No. of Valid Samples	0	0	0	0	0	2
% Valid Data	100	100	100	100	100	100

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

Comments

APPENDIX C

Chain of Custody Forms



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

ANALYSIS REQUEST

Sampled by: Robin Hart

Field Sample ID	Total Volume Sampled	Flow Rate	Collection Date	Sample Collection Time
East Monitor PAH September 10, 2025 AUJC90-01	332.50		10/Sep/25	24 hours x
North Monitor PAH September 10, 2025 AUJC91-01	308.20		10/Sep/25	24 hours x
Old West Monitor PAH September 10, 2025 AUJC-92-01	315.10		10/Sep/25	24 hours x
South Monitor PAH September 10, 2025 AUJC93-01	319.70		10/Sep/25	24 hours x
New West Monitor PAH September 10, 2025 AUJC94-01	314.50		10/Sep/25	24 hours x

 NONT-2025-09-2837



NONT-2025-09-2837

	Notes
--	-------

Please note if these samples are "Industrial".
If submitting dustfall samples, please indicate
jar opening in cm.

PROJECT SPECIFIC COMMENTS

Received by: ANMOL P SINGH
Affiliation:
Date/Time: 2018/09/12 16:33

13/4/14 no C-S on SO

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 available at [conditions](#)

ROTEK
Environmental

15 Keefer Court
Hamilton, Ontario
L8E 4V4
Phone 905 573 9533
Fax 905 578 5167

Sample Date	10-Sep-25
Project ID	Rain Carbon Canada Inc
Sampler Model	TE-1000
Site Operator	York Zhang / Robin Hart

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station No.	Sample Date	PUF	Maxxam	Install Date	MAGN On	Removal Date	MAGN Off	Total Volume	Submission
		Cartridge #	Filter ID #	Install Time	inH2O	Removal Time	inH2O	m3	Date
STN29164	10 Sep 2025	PUF #1	AUHS71-01	09-Sep-25	38	11-Sep-25	34	308.7	15-Sep-25
		AUHS72-01		15:30		14:30			
Comment 1 :									
Comment 2 :									

2025/09/15 10:30



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

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

Chain of Custody Form - PUF / PAH

CAM FCD-01302 /3

Page 1 of 2

[illegible]

2025/09/25 14:06



Page 1 of 2

ANALYSIS REQUESTED



NONT-2025-09-5534

☐

26.

Please copy results to york.zhang@raincarbon.com,
robin.hart@raincarbon.com, jennifer.davies@rotekinc.com,
daszko@rotekinc.com

Date/Time: 2028/04/25 14:02

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0/7/4 on 54 no CS



15 Keefer Court
Hamilton, Ontario
L8E 4V4
Phone 905 573 9533
Fax 905 578 5167

PAH Sample Submission Sheet

Sample Date	22-Sep-25
Project ID	Rain Carbon Canada Inc
Sampler Model	TE-1000
Site Operator	York Zhang / Robin Hart

Purchase Order Number	Rain Carbon/ Robin Hart
Results to:	
Results to:	
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station No.	Sample Date	PUF Cartridge #	Maxxam Filter ID #	Install Date Install Time	MAGN On inH2O	Removal Date Removal Time	MAGN Off inH2O	Total Volume m3	Submission Date
EAST	22 Sep 2025	AUJF70-01	AUJF70-01	19-Sep-25	38	23-Sep-25	40	327.1	25-Sep-25
				14:22		10:25			
NORTH	22 Sep 2025	AUJF71-01	AUJF71-01	19-Sep-25	38	23-Sep-25	38	329.5	25-Sep-25
				14:40		11:00			
OLD WEST	22 Sep 2025	AUJF72-01	AUJF72-01	19-Sep-25	38	23-Sep-25	39	323.6	25-Sep-25
				16:45		11:50			
SOUTH	22 Sep 2025	AUJF73-01	AUJF73-01	19-Sep-25	38	23-Sep-25	38	307.2	25-Sep-25
				15:46		11:30			
NEW WEST	22 Sep 2025	AUJF74-01	AUJF74-01	19-Sep-25	38	23-Sep-25	38	310.3	25-Sep-25
				16:06		12:15			
Comment 1 :									
Comment 2 :									

2025/09/25 14:06



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

CAM FCD-01302 /3

Page 1 of 2

REPORT INFORMATION

Company Name: Rotek Environmental Inc.

Project Manager: Paul Daszko

Address 15 Keefer Court Hamilton
ON L8E 4V4

E-mail: jennifer.davies@rotekinc.com

Ph: 905 573 9533[illegible]Retrieval
Date

AUHS89-01

23-Sep-25

PROJECT INFORMATION				
---------------------	--	--	--	--

☒
☐
☐
☐

Name: Rain Carbon Canada Inc

Bureau Veritas Quote #:

Bureau Veritas Contact Cristina Bacchus

Task Order/Line Item

Received by:

Date/Time:

REPORTING REQUIREMENTS

EDD
Regulations ON 153
ON 419
BC CSR

Other

Notes

1) please indicate on chain of custody if your samples are soil vapour or ambient air
2) please list all canisters on the chain of custody even if unused

PROJECT SPECIFIC COMMENTS

Analyse for BaP only in ng/m3.

Please copy results to york.zhang@raincarbon.com,
robin.hart@raincarbon.com, jennifer.davies@rotekinc.com,
daszko@rotekinc.com

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 available at <http://www.bvlabs.com/terms-and-conditions>

5/6/4 on 9ce mol-f



NONT-2025-09-5533



15 Keefer Court
Hamilton, Ontario
L8E 4V4
Phone 905 573 9533
Fax 905 578 5167

PAH Sample Submission Sheet

Sample Date	22-Sep-25
Project ID	Rain Carbon Canada Inc
Sampler Model	TE-1000
Site Operator	York Zhang / Robin Hart

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

[illegible]

12-Sep-25 16:22

Julian Tong



C5B4264

CAM FCD-01302 /3

Page 1 1

		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 - Summary										CIV AIR-001																																																									
INVOICE INFORMATION Company Name: Rain Carbon Canada Inc. Contact Name: Robin Hart Address: 725 Strathearn Avenue Hamilton, ON E-mail: robin.hart@raincarbon.com Ph: 1-647-281-8094 Sampled by: Robin Hart				REPORT INFORMATION Company Name: Rain Carbon Canada Project Manager: Robin Hart Address: 725 Strathearn Avenue Hamilton, ON E-mail: robin.hart@raincarbon.com Ph: 1-647-281-8094				<table border="1"> <tr> <td>START VACUUM (inches of Hg)</td> <td>END VACUUM (inches of Hg)</td> <td>SOIL VAPOUR</td> <td>AMBIENT/INDOOR AIR</td> <td>AMBIENT COMMERCIAL/INDUSTRIAL</td> <td>SUB-SLAB GAS</td> <td>FULL LIST OF VOCs (reference TO15A)</td> <td>BTEX/Aromatic/Aliphatic Hydrocarbon Fractions</td> <td>BTEX/F1 (C6-C10) and F2 (C10-C16)</td> <td>Selected VOC's - please specify</td> <td>Other</td> <td>CANISTERS NOT USED</td> </tr> </table>										START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	CANISTERS NOT USED																																												
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TAT Requirement STD 10 Business day ☒ Rush 5 Business day * ☐ Rush 2 Business day * ☐ Rush Other * ☐ * need approval from Bureau Veritas		PROJECT INFORMATION Project #: Rain Carbon Canada Inc. Name: Robin Hart PO #: 4500625271 Bureau Veritas Quote #: Bureau Veritas Contact: Crislina Bacchus Task Order/Line Item		REPORTING REQUIREMENTS EDD ☐ Regulations ON 153 ☐ ON 419 ☐ BC CSR ☐ Other		Notes 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused PROJECT SPECIFIC COMMENTS																																																																			
Client Signature: Robin Hart Environmental Engineer		Received by: <i>Andy Vong</i> Date/Time: 12-Sep-25 6:00 PM		Date/Time: 2025/09/15 08:45 PLEASE RETURN ALL UNUSED EQUIPMENT																																																																					

JOB #

CLIENT NAME:

RAPIN CARBON

CAM FCD-01053/2

Page 1 of 1

Internal Sample Receipt Form											
Sample Identification		Date Sampled	Time Sampled	Matrix	# of Bottles	Comments					
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
Received by (Signature & Print):		Date	Time	Cooler ID	Temperature	Custody seal Present		Custody Seal Intact		Ice Present	
						YES	NO	YES	NO	YES	NO
Kamalpreet Kaur		2025/09/12	16:22		N/A		/		/		/



15 Keefer Court
Hamilton, Ontario
L8E 4V4
Phone 905 573 9533
Fax 905 578 5167

VOC Canister Sample Submission Sheet

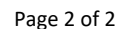
Sample Date	10-Sep-25
Project Name	Rain Carbon Canada Inc.
Contact Name	Paul Daszko
Contact Number	905 531 2815

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station Number	Canister ID Number	Sample Date dd/mm/yy	Installation Date dd/mm/yy	Installation Time EST	Initial Pressure inHg	Time On EST	Time Off EST	Elapsed Time Hours	Final Pressure inHg	Retrieval Date dd/mm/yy	Retrieval Time EST
STN29164	14076	10-Sep-25	09-Sep-25	15:30	-30.0	00:01	23:59	24.0	-10.0	11-Sep-25	14:30

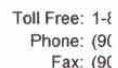
Comment 1 :

Comment 2 :



01 11 1 00001 010000000000000000000000

CSM AIR-001



REPORT INFORMATION

CSM

AIR-001

Summa™ Canister

Page 2 of 2

ANALYSIS REQUESTED

Page 1 of 1



15 Keefer Court
Hamilton, Ontario
L8E 4V4
Phone 905 573 9533
Fax 905 578 5167

VOC Canister Sample Submission Sheet

Sample Date	22-Sep-25
Project Name	Rain Carbon Canada Inc.
Contact Name	Paul Daszko
Contact Number	905 531 2815

Purchase Order Number	32669
Results to:	jennifer.davies@rotekinc.com
Results to:	daszko@rotekinc.com
Results to:	robin.hart@raincarbon.com
Results to:	york.zhang@raincarbon.com

Station Number	Canister ID Number	Sample Date dd/mm/yy	Installation Date dd/mm/yy	Installation Time EST	Initial Pressure inHg	Time On EST	Time Off EST	Elapsed Time Hours	Final Pressure inHg	Retrieval Date dd/mm/yy	Retrieval Time EST
STN29164	14511	22-Sep-25	19-Sep-25	09:15	-30.0	00:01	23:59	24.0	-8.5	23-Sep-25	15:00

Comment 1 :

Comment 2 :



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Mississauga Ontario, L5N 2L8
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Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 /3

Chain of Custody Form - Summa™ Canister

Page 2 of 2

INVOICE INFORMATION		REPORT INFORMATION		ANALYSIS REQUESTED											
Company Name:	Rotek Environmental Inc	Company Name:	Rotek Environmental Inc	START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	BTEX/Aromatic/Aliphatic Hydrocarbon Fractions	BTEX/F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other - Do Not Analyze	CANISTERS NOT USED
Contact Name:	Paul Daszko	Project Manager:	Paul Daszko												
Address:	15 Keefer Court Hamilton ON L8E 4V4	Address:	15 Keefer Court Hamilton ON L8E 4V4												
E-mail:	poore@rotekinc.com	E-mail:	jennifer.davies@rotekinc.com												
Ph:	905 573 9533	Ph:	905 573 9533												
Sampled by:	Robin Hart														
Field Sample ID	Canister Serial #	Flow Regulator Serial #	Retrieval Date												
STN29164	22-Sep-25	14511	---	23-Sep-25									X		

25-Sep-25 14:02			---												
Cristina (Maria) Bacchus			---												
CSC0240			---												
CSM AIR 001			---												
TAT Requirement STD 10 Business day ☒ Rush 5 Business day * ☐ Rush 2 Business day * ☐ Rush Other * ☐ * need approval from Bureau Veritas		PROJECT INFORMATION Project #: Name: Rain Carbon Canada Inc PO #: 32689 Bureau Veritas Quote #: Bureau Veritas Contact: Cristina Bacchus Task Order/Line Item		REPORTING REQUIREMENTS EDD Regulations ☐ ON 153 ☒ ON 419 ☐ BC CSR ☐ Other		Notes 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused PROJECT SPECIFIC COMMENTS Please issue Summa canister pressure upon receipt. Analyse for Benzene only in ug/m³. Please copy results to york.zhang@raincarbon.com, robin.hart@raincarbon.com, jennifer.davies@rotekinc.com, daszko@rotekinc.com									
Client Signature: Doug Cunningham		Received by: <i>Amel...</i>													
Date/Time: September 25 2025 2:00 PM		Date/Time: 6/29/25 14:02													

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APPENDIX D

Certificates of Analysis



Your P.O. #: 4500625271
Site Location: 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: 2025/09/19

Report #: R8615884

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B3920

Received: 2025/09/12, 16:22

Sample Matrix: Puf And Filter
Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	5	2025/09/15	2025/09/15	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/09/16	2025/09/19	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/09/15		

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, Acenaphthylene, Acenaphthene, 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. #: 4500625271
Site Location: 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: 2025/09/19
Report #: R8615884
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B3920

Received: 2025/09/12, 16:22

Encryption Key

Julian Tong
Project Manager Assistant
19 Sep 2025 14:20:18

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

=====

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.



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AVCJ90	AVCJ91	AVCJ92	AVCJ93	
Sampling Date		2025/09/10	2025/09/10	2025/09/10	2025/09/10	
COC Number		NA	NA	NA	NA	
	UNITS	EAST MONITOR PAH SEPTEMBER 10,2025 AUJC90-01	NORTH MONITOR PAH SEPTEMBER 10,2025 AUJC91-01	OLD WEST MONITOR PAH SEPTEMBER 10,2025 AUJC92-01	SOUTH MONITOR PAH SEPTEMBER 10,2025 AUJC93-01	QC Batch
Volume	m3	332.5	308.2	315.1	319.7	ONSITE
QC Batch = Quality Control Batch						

Bureau Veritas ID		AVCJ94	
Sampling Date		2025/09/10	
COC Number		NA	
	UNITS	NEW WEST MONITOR PAH SEPTEMBER 10,2025 AUJC94-01	QC Batch
Volume	m3	314.5	ONSITE
QC Batch = Quality Control Batch			



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

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

Bureau Veritas ID		AVCJ90	AVCJ91		AVCJ92		
Sampling Date		2025/09/10	2025/09/10		2025/09/10		
COC Number		NA	NA		NA		
	UNITS	EAST MONITOR PAH SEPTEMBER 10,2025 AUJC90-01	NORTH MONITOR PAH SEPTEMBER 10,2025 AUJC91-01	QC Batch	OLD WEST MONITOR PAH SEPTEMBER 10,2025 AUJC92-01	RDL	QC Batch
Semivolatile Organics							
Benzo(a)pyrene	ug	0.22	0.12	A011215	0.26	0.10	A011215
Surrogate Recovery (%)							
D10-2-Methylnaphthalene	%	84	84	A011215			
D10-Fluoranthene	%	102	104	A011215	84		A011215
D10-Phenanthrene	%	96	94	A011215	78		A011215
D12-Benzo(a)pyrene	%	72	66	A011215	74		A011215
D12-Benzo(b)fluoranthene	%	98	94	A011215	92		A011215
D12-Benzo(ghi)perylene	%	98	96	A011215	98		A011215
D12-Benzo(k)fluoranthene	%	90	90	A011215	92		A011215
D12-Chrysene	%	94	92	A011215	96		A011215
D12-Indeno(1,2,3-cd)pyrene	%	96	94	A011215	100		A011215
D12-Perylene	%	90	84	A011215	92		A011215
D14-Dibenzo(a,h)anthracene	%	100	98	A011215	100		A011215
D8-Acenaphthylene	%	78	74	A011215	68		A011215
D8-Naphthalene	%	98	106	A011215	116		A011215
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

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

Bureau Veritas ID		AVCJ93	AVCJ94		
Sampling Date		2025/09/10	2025/09/10		
COC Number		NA	NA		
	UNITS	SOUTH MONITOR PAH SEPTEMBER 10,2025 AUJC93-01	NEW WEST MONITOR PAH SEPTEMBER 10,2025 AUJC94-01	RDL	QC Batch
Semivolatile Organics					
Benzo(a)pyrene	ug	0.18	0.30	0.10	A011215
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	90	132		A011215
D10-Fluoranthene	%	96	102		A011215
D10-Phenanthrene	%	90	98		A011215
D12-Benzo(a)pyrene	%	72	72		A011215
D12-Benzo(b)fluoranthene	%	92	90		A011215
D12-Benzo(ghi)perylene	%	96	98		A011215
D12-Benzo(k)fluoranthene	%	90	88		A011215
D12-Chrysene	%	92	94		A011215
D12-Indeno(1,2,3-cd)pyrene	%	98	96		A011215
D12-Perylene	%	90	92		A011215
D14-Dibenzo(a,h)anthracene	%	98	100		A011215
D8-Acenaphthylene	%	80	84		A011215
D8-Naphthalene	%	126	126		A011215
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AVCJ90		AVCJ91	AVCJ92		
Sampling Date		2025/09/10		2025/09/10	2025/09/10		
COC Number		NA		NA	NA		
	UNITS	EAST MONITOR PAH SEPTEMBER 10,2025 AUJC90-01	RDL	NORTH MONITOR PAH SEPTEMBER 10,2025 AUJC91-01	OLD WEST MONITOR PAH SEPTEMBER 10,2025 AUJC92-01	RDL	QC Batch
Calculated Parameters							
Benzo(a)pyrene	ug/m3	0.00066	0.00030	0.00039	0.00083	0.00032	A010596
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

Bureau Veritas ID		AVCJ93		AVCJ94		
Sampling Date		2025/09/10		2025/09/10		
COC Number		NA		NA		
	UNITS	SOUTH MONITOR PAH SEPTEMBER 10,2025 AUJC93-01	RDL	NEW WEST MONITOR PAH SEPTEMBER 10,2025 AUJC94-01	RDL	QC Batch
Calculated Parameters						
Benzo(a)pyrene	ug/m3	0.00056	0.00031	0.00095	0.00032	A010596
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A011215	MPQ	Spiked Blank		D10-2-Methylnaphthalene	2025/09/18		74	%	50 - 150
				D10-Fluoranthene	2025/09/18		100	%	50 - 150
				D10-Phenanthrene	2025/09/18		86	%	50 - 150
				D12-Benzo(a)pyrene	2025/09/18		76	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/09/18		94	%	50 - 150
				D12-Benzo(ghi)perylene	2025/09/18		96	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/09/18		92	%	50 - 150
				D12-Chrysene	2025/09/18		90	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/09/18		98	%	50 - 150
				D12-Perylene	2025/09/18		94	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/09/18		100	%	50 - 150
				D8-Acenaphthylene	2025/09/18		78	%	50 - 150
				D8-Naphthalene	2025/09/18		72	%	50 - 150
				Benzo(a)pyrene	2025/09/18		88	%	50 - 150
A011215	MPQ	RPD		Benzo(a)pyrene	2025/09/18	2.9		%	50
A011215	MPQ	Method Blank		D10-2-Methylnaphthalene	2025/09/19		76	%	50 - 150
				D10-Fluoranthene	2025/09/19		96	%	50 - 150
				D10-Phenanthrene	2025/09/19		84	%	50 - 150
				D12-Benzo(a)pyrene	2025/09/19		72	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/09/19		92	%	50 - 150
				D12-Benzo(ghi)perylene	2025/09/19		94	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/09/19		88	%	50 - 150
				D12-Chrysene	2025/09/19		86	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/09/19		92	%	50 - 150
				D12-Perylene	2025/09/19		92	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/09/19		92	%	50 - 150
				D8-Acenaphthylene	2025/09/19		78	%	50 - 150
				D8-Naphthalene	2025/09/19		74	%	50 - 150
				Benzo(a)pyrene	2025/09/19	<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.



BUREAU
VERITAS

Bureau Veritas Job #: C5B3920

Report Date: 2025/09/19

RAIN CARBON Canada Inc.

Site Location: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Dipika Singh, Sample Reception

Melissa DiGrazia, Operations Manager, HRMS Department

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Your P.O. #: 32669
Site Location: 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: 2025/09/19
Report #: R8615886
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4464

Received: 2025/09/15, 10:30

Sample Matrix: Puf And Filter
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2025/09/15	2025/09/19	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/09/16	2025/09/19	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/09/15		

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, Acenaphthylene, Acenaphthene, 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. #: 32669
Site Location: 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: 2025/09/19
Report #: R8615886
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4464

Received: 2025/09/15, 10:30

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

19 Sep 2025 14:17:55

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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**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AVDT49	
Sampling Date		2025/09/10	
COC Number		N/A	
	UNITS	STN29164 10-SEP-25 PUF # 1 AUHS72-01	QC Batch
Volume	m3	308.7	ONSITE
QC Batch = Quality Control Batch			



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

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

Bureau Veritas ID		AVDT49		
Sampling Date		2025/09/10		
COC Number		N/A		
	UNITS	STN29164 10-SEP-25 PUF # 1 AUHS72-01	RDL	QC Batch
Benzo(a)pyrene	ug	<0.10	0.10	A011215
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	80		A011215
D10-Fluoranthene	%	96		A011215
D10-Phenanthrene	%	90		A011215
D12-Benzo(a)pyrene	%	70		A011215
D12-Benzo(b)fluoranthene	%	88		A011215
D12-Benzo(ghi)perylene	%	96		A011215
D12-Benzo(k)fluoranthene	%	88		A011215
D12-Chrysene	%	92		A011215
D12-Indeno(1,2,3-cd)pyrene	%	96		A011215
D12-Perylene	%	88		A011215
D14-Dibenzo(a,h)anthracene	%	96		A011215
D8-Acenaphthylene	%	76		A011215
D8-Naphthalene	%	74		A011215
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AVDT49		
Sampling Date		2025/09/10		
COC Number		N/A		
	UNITS	STN29164 10-SEP-25 PUF # 1 AUHS72-01	RDL	QC Batch
Benzo(a)pyrene	ng/m3	<0.32	0.32	A010596
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: 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
A011215	MPQ	Spiked Blank		D10-2-Methylnaphthalene	2025/09/18		74	%	50 - 150
				D10-Fluoranthene	2025/09/18		100	%	50 - 150
				D10-Phenanthrene	2025/09/18		86	%	50 - 150
				D12-Benzo(a)pyrene	2025/09/18		76	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/09/18		94	%	50 - 150
				D12-Benzo(ghi)perylene	2025/09/18		96	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/09/18		92	%	50 - 150
				D12-Chrysene	2025/09/18		90	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/09/18		98	%	50 - 150
				D12-Perylene	2025/09/18		94	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/09/18		100	%	50 - 150
				D8-Acenaphthylene	2025/09/18		78	%	50 - 150
				D8-Naphthalene	2025/09/18		72	%	50 - 150
				Benzo(a)pyrene	2025/09/18		88	%	50 - 150
A011215	MPQ	RPD		Benzo(a)pyrene	2025/09/18	2.9		%	50
A011215	MPQ	Method Blank		D10-2-Methylnaphthalene	2025/09/19		76	%	50 - 150
				D10-Fluoranthene	2025/09/19		96	%	50 - 150
				D10-Phenanthrene	2025/09/19		84	%	50 - 150
				D12-Benzo(a)pyrene	2025/09/19		72	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/09/19		92	%	50 - 150
				D12-Benzo(ghi)perylene	2025/09/19		94	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/09/19		88	%	50 - 150
				D12-Chrysene	2025/09/19		86	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/09/19		92	%	50 - 150
				D12-Perylene	2025/09/19		92	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/09/19		92	%	50 - 150
				D8-Acenaphthylene	2025/09/19		78	%	50 - 150
				D8-Naphthalene	2025/09/19		74	%	50 - 150
				Benzo(a)pyrene	2025/09/19	<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.



BUREAU
VERITAS

Bureau Veritas Job #: C5B4464

Report Date: 2025/09/19

Rotek Environmental Inc.

Site Location: 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:

Dipika Singh, Sample Reception

Melissa DiGrazia, Operations Manager, HRMS Department

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Your P.O. #: 4500625271
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: 2025/10/03

Report #: R8625154

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0170

Received: 2025/09/25, 14:06

Sample Matrix: Puf And Filter
Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	5	2025/09/25	2025/09/25	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	5	2025/09/26	2025/10/02	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	5	N/A	2025/09/25		

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, Acenaphthylene, Acenaphthene, 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. #: 4500625271
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: 2025/10/03

Report #: R8625154

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0170

Received: 2025/09/25, 14:06

Encryption Key

Julian Tong
Project Manager Assistant
03 Oct 2025 15:35:20

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant

Email: Julian.Tong@bureauveritas.com

Phone# (905) 817-5700

=====

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Total Cover Pages : 2

Page 2 of 9



BUREAU
VERITAS

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AVOH70	AVOH71	AVOH72	AVOH73	
Sampling Date		2025/09/22	2025/09/22	2025/09/22	2025/09/22	
COC Number		NA	NA	NA	NA	
	UNITS	EAST PAH 22-SEP PUF # 1 AUJF70-01	NORTH PAH 22-SEP PUF # 2 AUJF71-01	OLD WEST PAH 22-SEP PUF # 3 AUJF72-01	SOUTH PAH 22-SEP PUF # 4 AUJF73-01	QC Batch
Volume	m3	327.1	329.5	323.6	307.2	ONSITE
QC Batch = Quality Control Batch						

Bureau Veritas ID		AVOH74	
Sampling Date		2025/09/22	
COC Number		NA	
	UNITS	NEW WEST PAH 22-SEP PUF # 5 AUJF74-01	QC Batch
Volume	m3	310.3	ONSITE
QC Batch = Quality Control Batch			



BUREAU
VERITAS

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

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

Bureau Veritas ID		AVOH70		AVOH71		AVOH72		
Sampling Date		2025/09/22		2025/09/22		2025/09/22		
COC Number		NA		NA		NA		
	UNITS	EAST PAH 22-SEP PUF # 1 AUJF70-01	QC Batch	NORTH PAH 22-SEP PUF # 2 AUJF71-01	QC Batch	OLD WEST PAH 22-SEP PUF # 3 AUJF72-01	RDL	QC Batch

Semivolatile Organics								
Benzo(a)pyrene	ug	<0.10	A019558	0.14	A019558	<0.10	0.10	A019558
Surrogate Recovery (%)								
D10-2-Methylnaphthalene	%	64	A019558	4.0 (1)	A019558	82		A019558
D10-Fluoranthene	%	76	A019558	32 (1)	A019558	92		A019558
D10-Phenanthrene	%	76	A019558	30 (1)	A019558	88		A019558
D12-Benzo(a)anthracene	%	76	A019558	78	A019558	78		A019558
D12-Benzo(a)pyrene	%	70	A019558	74	A019558	70		A019558
D12-Benzo(b)fluoranthene	%	80	A019558	80	A019558	80		A019558
D12-Benzo(ghi)perylene	%	72	A019558	78	A019558	74		A019558
D12-Benzo(k)fluoranthene	%	70	A019558	74	A019558	70		A019558
D12-Chrysene	%	72	A019558	74	A019558	72		A019558
D12-Indeno(1,2,3-cd)pyrene	%	72	A019558	78	A019558	76		A019558
D12-Perylene	%	70	A019558	74	A019558	72		A019558
D14-Dibenzo(a,h)anthracene	%	72	A019558	80	A019558	76		A019558
D8-Acenaphthylene	%	64	A019558			84		A019558
D8-Naphthalene	%	58	A019558			78		A019558

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.



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

Bureau Veritas ID		AVOH73	AVOH74		
Sampling Date		2025/09/22	2025/09/22		
COC Number		NA	NA		
	UNITS	SOUTH PAH 22-SEP PUF # 4 AUJF73-01	NEW WEST PAH 22-SEP PUF # 5 AUJF74-01	RDL	QC Batch
Semivolatile Organics					
Benzo(a)pyrene	ug	<0.10	0.14	0.10	A019558
Surrogate Recovery (%)					
D10-2-Methylnaphthalene	%	68	68		A019558
D10-Fluoranthene	%	80	74		A019558
D10-Phenanthrene	%	74	70		A019558
D12-Benzo(a)anthracene	%	74	74		A019558
D12-Benzo(a)pyrene	%	66	70		A019558
D12-Benzo(b)fluoranthene	%	78	78		A019558
D12-Benzo(ghi)perylene	%	72	70		A019558
D12-Benzo(k)fluoranthene	%	66	68		A019558
D12-Chrysene	%	70	70		A019558
D12-Indeno(1,2,3-cd)pyrene	%	72	72		A019558
D12-Perylene	%	68	70		A019558
D14-Dibenzo(a,h)anthracene	%	72	72		A019558
D8-Acenaphthylene	%	64	66		A019558
D8-Naphthalene	%	60	66		A019558
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AVOH70		AVOH71		AVOH72		
Sampling Date		2025/09/22		2025/09/22		2025/09/22		
COC Number		NA		NA		NA		
	UNITS	EAST PAH 22-SEP PUF # 1 AUJF70-01	RDL	NORTH PAH 22-SEP PUF # 2 AUJF71-01	RDL	OLD WEST PAH 22-SEP PUF # 3 AUJF72-01	RDL	QC Batch

Calculated Parameters

Benzo(a)pyrene	ug/m3	<0.00031	0.00031	0.00042	0.00030	<0.00031	0.00031	A019209
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Bureau Veritas ID		AVOH73		AVOH74		
Sampling Date		2025/09/22		2025/09/22		
COC Number		NA		NA		
	UNITS	SOUTH PAH 22-SEP PUF # 4 AUJF73-01	RDL	NEW WEST PAH 22-SEP PUF # 5 AUJF74-01	RDL	QC Batch

Calculated Parameters

Benzo(a)pyrene	ug/m3	<0.00033	0.00033	0.00045	0.00032	A019209
----------------	-------	----------	---------	---------	---------	---------

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A019558	MPQ	Spiked Blank		D10-2-Methylnaphthalene	2025/10/02		74	%	50 - 150
				D10-Fluoranthene	2025/10/02		80	%	50 - 150
				D10-Phenanthrene	2025/10/02		78	%	50 - 150
				D12-Benzo(a)anthracene	2025/10/02		76	%	50 - 150
				D12-Benzo(a)pyrene	2025/10/02		78	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/10/02		80	%	50 - 150
				D12-Benzo(ghi)perylene	2025/10/02		76	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/10/02		72	%	50 - 150
				D12-Chrysene	2025/10/02		74	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/10/02		76	%	50 - 150
				D12-Perylene	2025/10/02		78	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/10/02		78	%	50 - 150
				D8-Acenaphthylene	2025/10/02		76	%	50 - 150
				D8-Naphthalene	2025/10/02		72	%	50 - 150
				Benzo(a)pyrene	2025/10/02		70	%	50 - 150
A019558	MPQ	RPD		Benzo(a)pyrene	2025/10/02	0		%	50
A019558	MPQ	Method Blank		D10-2-Methylnaphthalene	2025/10/02		62	%	50 - 150
				D10-Fluoranthene	2025/10/02		74	%	50 - 150
				D10-Phenanthrene	2025/10/02		70	%	50 - 150
				D12-Benzo(a)anthracene	2025/10/02		66	%	50 - 150
				D12-Benzo(a)pyrene	2025/10/02		68	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/10/02		78	%	50 - 150
				D12-Benzo(ghi)perylene	2025/10/02		68	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/10/02		60	%	50 - 150
				D12-Chrysene	2025/10/02		70	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/10/02		66	%	50 - 150
				D12-Perylene	2025/10/02		70	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/10/02		64	%	50 - 150
				D8-Acenaphthylene	2025/10/02		64	%	50 - 150
				D8-Naphthalene	2025/10/02		60	%	50 - 150
				Benzo(a)pyrene	2025/10/02	<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.



BUREAU
VERITAS

Bureau Veritas Job #: C5C0170

Report Date: 2025/10/03

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

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

Dipika Singh, Sample Reception

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.



Your P.O. #: 32669
Site Location: 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: 2025/10/03

Report #: R8625155

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0171

Received: 2025/09/25, 14:06

Sample Matrix: Puf And Filter
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Calculated Polyaromatic Hydrocarbons	1	2025/09/25	2025/10/03	BRL SOP-00201	
PAH's in MM5 SamplingTrains (CARB429mod) (1)	1	2025/09/26	2025/10/03	BRL SOP-00201	CARB429(ARBM1,M2)mod
Air Volume from HiVol Sampling	1	N/A	2025/09/25		

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, Acenaphthylene, Acenaphthene, 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. #: 32669
Site Location: 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: 2025/10/03
Report #: R8625155
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0171

Received: 2025/09/25, 14:06

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

03 Oct 2025 15:11:26

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.

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.



BUREAU
VERITAS

Bureau Veritas Job #: C5C0171
Report Date: 2025/10/03

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

RESULTS OF ANALYSES OF PUF AND FILTER

Bureau Veritas ID		AVOH76	
Sampling Date		2025/09/22	
COC Number		NA	
	UNITS	STN29164 22-SEP-25 PUF #1 AUHS89-01	QC Batch
Volume	m3	327.6	ONSITE
QC Batch = Quality Control Batch			



BUREAU
VERITAS

Bureau Veritas Job #: C5C0171

Report Date: 2025/10/03

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

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

Bureau Veritas ID		AVOH76		
Sampling Date		2025/09/22		
COC Number		NA		
	UNITS	STN29164 22-SEP-25 PUF #1 AUHS89-01	RDL	QC Batch
Benzo(a)pyrene	ug	<0.10	0.10	A019558
Surrogate Recovery (%)				
D10-2-Methylnaphthalene	%	66		A019558
D10-Fluoranthene	%	82		A019558
D10-Phenanthrene	%	78		A019558
D12-Benzo(a)anthracene	%	72		A019558
D12-Benzo(a)pyrene	%	70		A019558
D12-Benzo(b)fluoranthene	%	80		A019558
D12-Benzo(ghi)perylene	%	72		A019558
D12-Benzo(k)fluoranthene	%	66		A019558
D12-Chrysene	%	72		A019558
D12-Indeno(1,2,3-cd)pyrene	%	70		A019558
D12-Perylene	%	70		A019558
D14-Dibenzo(a,h)anthracene	%	70		A019558
D8-Acenaphthylene	%	70		A019558
D8-Naphthalene	%	56		A019558
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C5C0171

Report Date: 2025/10/03

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

CALCULATED SEMIVOLATILE ORGANICS (PUF AND FILTER)

Bureau Veritas ID		AVOH76		
Sampling Date		2025/09/22		
COC Number		NA		
	UNITS	STN29164 22-SEP-25 PUF #1 AUHS89-01	RDL	QC Batch
Benzo(a)pyrene	ng/m3	<0.31	0.31	A019209
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0171

Report Date: 2025/10/03

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0171

Report Date: 2025/10/03

Rotek Environmental Inc.

Site Location: 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
A019558	MPQ	Spiked Blank		D10-2-Methylnaphthalene	2025/10/02		74	%	50 - 150
				D10-Fluoranthene	2025/10/02		80	%	50 - 150
				D10-Phenanthrene	2025/10/02		78	%	50 - 150
				D12-Benzo(a)anthracene	2025/10/02		76	%	50 - 150
				D12-Benzo(a)pyrene	2025/10/02		78	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/10/02		80	%	50 - 150
				D12-Benzo(ghi)perylene	2025/10/02		76	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/10/02		72	%	50 - 150
				D12-Chrysene	2025/10/02		74	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/10/02		76	%	50 - 150
				D12-Perylene	2025/10/02		78	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/10/02		78	%	50 - 150
				D8-Acenaphthylene	2025/10/02		76	%	50 - 150
				D8-Naphthalene	2025/10/02		72	%	50 - 150
				Benzo(a)pyrene	2025/10/02		70	%	50 - 150
A019558	MPQ	RPD		Benzo(a)pyrene	2025/10/02	0		%	50
A019558	MPQ	Method Blank		D10-2-Methylnaphthalene	2025/10/02		62	%	50 - 150
				D10-Fluoranthene	2025/10/02		74	%	50 - 150
				D10-Phenanthrene	2025/10/02		70	%	50 - 150
				D12-Benzo(a)anthracene	2025/10/02		66	%	50 - 150
				D12-Benzo(a)pyrene	2025/10/02		68	%	50 - 150
				D12-Benzo(b)fluoranthene	2025/10/02		78	%	50 - 150
				D12-Benzo(ghi)perylene	2025/10/02		68	%	50 - 150
				D12-Benzo(k)fluoranthene	2025/10/02		60	%	50 - 150
				D12-Chrysene	2025/10/02		70	%	50 - 150
				D12-Indeno(1,2,3-cd)pyrene	2025/10/02		66	%	50 - 150
				D12-Perylene	2025/10/02		70	%	50 - 150
				D14-Dibenzo(a,h)anthracene	2025/10/02		64	%	50 - 150
				D8-Acenaphthylene	2025/10/02		64	%	50 - 150
				D8-Naphthalene	2025/10/02		60	%	50 - 150
				Benzo(a)pyrene	2025/10/02	<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.



BUREAU
VERITAS

Bureau Veritas Job #: C5C0171

Report Date: 2025/10/03

Rotek Environmental Inc.

Site Location: 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

Dipika Singh, Sample Reception

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.



Your P.O. #: 4500625271
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: 2025/09/25

Report #: R8619775

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4264

Received: 2025/09/12, 16:22

Sample Matrix: Air
Samples Received: 5

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Canister Pressure (TO-15)	3	N/A	2025/09/19	BRL SOP-00304	EPA TO-15 m
Canister Pressure (TO-15)	2	N/A	2025/09/22	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	3	N/A	2025/09/19	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	2	N/A	2025/09/22	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 P.O. #: 4500625271
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: 2025/09/25
Report #: R8619775
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4264

Received: 2025/09/12, 16:22

Encryption Key

Julian Tong
Project Manager Assistant
25 Sep 2025 14:37:28

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

=====

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.



BUREAU
VERITAS

Bureau Veritas Job #: C5B4264

Report Date: 2025/09/25

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AVDI44	AVDI45	AVDI46		AVDI47	
Sampling Date		2025/09/10	2025/09/10	2025/09/10		2025/09/10	
COC Number		na	na	na		na	
	UNITS	EAST CANISTER VOC SEPTEMBER 10, 2025	NORTH CANISTER VOC SEPTEMBER 10, 2025	OLD WEST CANISTER VOC SEPTEMBER 10, 2025	QC Batch	SOUTH CANISTER VOC SEPTEMBER 10, 2025	QC Batch

Volatile Organics

Pressure on Receipt	psig	(-4.7)	(-3.9)	(-3.3)	A014969	(-2.8)	A016442
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QC Batch = Quality Control Batch

Bureau Veritas ID		AVDI48	
Sampling Date		2025/09/10	
COC Number		na	
	UNITS	NEW WEST CANISTER VOC SEPTEMBER 10, 2025	QC Batch

Volatile Organics

Pressure on Receipt	psig	(-3.8)	A016442
---------------------	------	--------	---------

QC Batch = Quality Control Batch



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4264

Report Date: 2025/09/25

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVDI44			AVDI45				
Sampling Date		2025/09/10			2025/09/10				
COC Number		na			na				
	UNITS	EAST CANISTER VOC SEPTEMBER 10, 2025	ug/m3	DL (ug/m3)	NORTH CANISTER VOC SEPTEMBER 10, 2025	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics									
Benzene	ppbv	5.33	17.0	0.319	14.1	0.10	45.1	0.319	A014968
Surrogate Recovery (%)									
Bromochloromethane	%	91	N/A	N/A	92		N/A	N/A	A014968
D5-Chlorobenzene	%	82	N/A	N/A	84		N/A	N/A	A014968
Difluorobenzene	%	90	N/A	N/A	92		N/A	N/A	A014968
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
N/A = Not Applicable									

Bureau Veritas ID		AVDI46				AVDI47				
Sampling Date		2025/09/10				2025/09/10				
COC Number		na				na				
	UNITS	OLD WEST CANISTER VOC SEPTEMBER 10, 2025	ug/m3	DL (ug/m3)	QC Batch	SOUTH CANISTER VOC SEPTEMBER 10, 2025	RDL	ug/m3	DL (ug/m3)	QC Batch

Volatile Organics										
Benzene	ppbv	4.89	15.6	0.319	A014968	7.25	0.10	23.2	0.319	A015506
Surrogate Recovery (%)										
Bromochloromethane	%	88	N/A	N/A	A014968	90		N/A	N/A	A015506
D5-Chlorobenzene	%	83	N/A	N/A	A014968	90		N/A	N/A	A015506
Difluorobenzene	%	88	N/A	N/A	A014968	90		N/A	N/A	A015506
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										



BUREAU
VERITAS

Bureau Veritas Job #: C5B4264

Report Date: 2025/09/25

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVDI48				
Sampling Date		2025/09/10				
COC Number		na				
	UNITS	NEW WEST CANISTER VOC SEPTEMBER 10, 2025	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	3.79	0.10	12.1	0.319	A015506
Surrogate Recovery (%)						
Bromochloromethane	%	84		N/A	N/A	A015506
D5-Chlorobenzene	%	86		N/A	N/A	A015506
Difluorobenzene	%	81		N/A	N/A	A015506
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4264

Report Date: 2025/09/25

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A014968	ANE	Spiked Blank	Bromochloromethane	2025/09/19		107	%	60 - 140
			D5-Chlorobenzene	2025/09/19		104	%	60 - 140
			Difluorobenzene	2025/09/19		106	%	60 - 140
			Benzene	2025/09/19		97	%	70 - 130
A014968	ANE	Method Blank	Bromochloromethane	2025/09/19		98	%	60 - 140
			D5-Chlorobenzene	2025/09/19		87	%	60 - 140
			Difluorobenzene	2025/09/19		99	%	60 - 140
			Benzene	2025/09/19	<0.10		ppbv	
A015506	DVP	Spiked Blank	Bromochloromethane	2025/09/22		94	%	60 - 140
			D5-Chlorobenzene	2025/09/22		93	%	60 - 140
			Difluorobenzene	2025/09/22		93	%	60 - 140
			Benzene	2025/09/22		85	%	70 - 130
A015506	DVP	Method Blank	Bromochloromethane	2025/09/22		97	%	60 - 140
			D5-Chlorobenzene	2025/09/22		97	%	60 - 140
			Difluorobenzene	2025/09/22		98	%	60 - 140
			Benzene	2025/09/22	<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.



BUREAU
VERITAS

Bureau Veritas Job #: C5B4264

Report Date: 2025/09/25

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC.

Your P.O. #: 4500625271

Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Melanie Mabini, Team Leader

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.



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: 2025/09/26

Report #: R8620352

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4188

Received: 2025/09/15, 10:30

Sample Matrix: Air
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Canister Pressure (TO-15)	1	N/A	2025/09/23	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/09/23	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 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: 2025/09/26
Report #: R8620352
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5B4188

Received: 2025/09/15, 10:30

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

26 Sep 2025 09:57:26

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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BUREAU
VERITAS

Bureau Veritas Job #: C5B4188

Report Date: 2025/09/26

Rotek Environmental Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AVDD32	
Sampling Date		2025/09/10	
COC Number		na	
	UNITS	STN29164 10-SEP-25	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-4.5)	A017548
QC Batch = Quality Control Batch			



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVDD32				
Sampling Date		2025/09/10				
COC Number		na				
	UNITS	STN29164 10-SEP-25	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	0.30	0.10	0.948	0.319	A016470
Surrogate Recovery (%)						
Bromochloromethane	%	111		N/A	N/A	A016470
D5-Chlorobenzene	%	99		N/A	N/A	A016470
Difluorobenzene	%	108		N/A	N/A	A016470
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
N/A = Not Applicable						



**BUREAU
VERITAS**

Bureau Veritas Job #: C5B4188

Report Date: 2025/09/26

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.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A016470	DVP	Spiked Blank	Bromochloromethane	2025/09/23		101	%	60 - 140
			D5-Chlorobenzene	2025/09/23		100	%	60 - 140
			Difluorobenzene	2025/09/23		101	%	60 - 140
			Benzene	2025/09/23		99	%	70 - 130
A016470	DVP	Method Blank	Bromochloromethane	2025/09/23		116	%	60 - 140
			D5-Chlorobenzene	2025/09/23		110	%	60 - 140
			Difluorobenzene	2025/09/23		115	%	60 - 140
			Benzene	2025/09/23	<0.10		ppbv	
A016470	DVP	RPD	Benzene	2025/09/23	3.3		%	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.



BUREAU
VERITAS

Bureau Veritas Job #: C5B4188

Report Date: 2025/09/26

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:

Melanie Mabini, Team Leader

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Your P.O. #: 4500625271
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: 2025/10/07

Report #: R8626920

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0229

Received: 2025/09/25, 14:02

Sample Matrix: Air
Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Canister Pressure (TO-15)	5	N/A	2025/09/30 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2025/09/30 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.

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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 P.O. #: 4500625271
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: 2025/10/07
Report #: R8626920
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0229

Received: 2025/09/25, 14:02

Encryption Key

Cristina Bacchus

Cristina (Maria) Bacchus
Project Manager
07 Oct 2025 18:50:13

Please direct all questions regarding this Certificate of Analysis to:

Julian Tong, Project Manager Assistant
Email: Julian.Tong@bureauveritas.com
Phone# (905) 817-5700

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C5C0229

Report Date: 2025/10/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AVOJ79	AVOJ80	AVOJ81	AVOJ82	
Sampling Date		2025/09/22	2025/09/22	2025/09/22	2025/09/22	
COC Number		na	na	na	na	
	UNITS	EAST VOC 22-SEP	NORTH VOC 22-SEP	OLD WEST VOC 22-SEP	SOUTH VOC 22-SEP	QC Batch

Volatile Organics

Pressure on Receipt	psig	(-3.9)	(-3.0)	(-5.1)	(-2.9)	A023311
---------------------	------	--------	--------	--------	--------	---------

QC Batch = Quality Control Batch

Bureau Veritas ID		AVOJ83	
Sampling Date		2025/09/22	
COC Number		na	
	UNITS	NEW WEST VOC 22-SEP	QC Batch

Volatile Organics

Pressure on Receipt	psig	(-3.9)	A023311
---------------------	------	--------	---------

QC Batch = Quality Control Batch



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0229

Report Date: 2025/10/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVOJ79			AVOJ80				
Sampling Date		2025/09/22			2025/09/22				
COC Number		na			na				
	UNITS	EAST VOC 22-SEP	ug/m3	DL (ug/m3)	NORTH VOC 22-SEP	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	8.06	25.7	0.319	4.42	0.10	14.1	0.319	A022300
Surrogate Recovery (%)									
Bromochloromethane	%	91	N/A	N/A	102		N/A	N/A	A022300
D5-Chlorobenzene	%	93	N/A	N/A	100		N/A	N/A	A022300
Difluorobenzene	%	86	N/A	N/A	103		N/A	N/A	A022300
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
N/A = Not Applicable									

Bureau Veritas ID		AVOJ81			AVOJ82				
Sampling Date		2025/09/22			2025/09/22				
COC Number		na			na				
	UNITS	OLD WEST VOC 22-SEP	ug/m3	DL (ug/m3)	SOUTH VOC 22-SEP	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Benzene	ppbv	0.22	0.709	0.319	3.59	0.10	11.5	0.319	A022300
Surrogate Recovery (%)									
Bromochloromethane	%	91	N/A	N/A	100		N/A	N/A	A022300
D5-Chlorobenzene	%	87	N/A	N/A	99		N/A	N/A	A022300
Difluorobenzene	%	81	N/A	N/A	101		N/A	N/A	A022300
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
N/A = Not Applicable									



BUREAU
VERITAS

Bureau Veritas Job #: C5C0229

Report Date: 2025/10/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVOJ83				
Sampling Date		2025/09/22				
COC Number		na				
	UNITS	NEW WEST VOC 22-SEP	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Benzene	ppbv	1.05	0.10	3.36	0.319	A022300
Surrogate Recovery (%)						
Bromochloromethane	%	100		N/A	N/A	A022300
D5-Chlorobenzene	%	95		N/A	N/A	A022300
Difluorobenzene	%	98		N/A	N/A	A022300
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
N/A = Not Applicable						



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0229

Report Date: 2025/10/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A022300	DVP	Spiked Blank		Bromochloromethane	2025/09/30		110	%	60 - 140
				D5-Chlorobenzene	2025/09/30		106	%	60 - 140
				Difluorobenzene	2025/09/30		109	%	60 - 140
				Benzene	2025/09/30		92	%	70 - 130
A022300	DVP	Method Blank		Bromochloromethane	2025/09/30		108	%	60 - 140
				D5-Chlorobenzene	2025/09/30		104	%	60 - 140
				Difluorobenzene	2025/09/30		108	%	60 - 140
				Benzene	2025/09/30	<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.									



BUREAU
VERITAS

Bureau Veritas Job #: C5C0229

Report Date: 2025/10/07

RAIN CARBON Canada Inc.

Client Project #: RAIN CARBON CANADA INC

Your P.O. #: 4500625271

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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Your P.O. #: 32669
Site Location: 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: 2025/10/08
Report #: R8627579
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0240

Received: 2025/09/25, 14:02

Sample Matrix: Air
Samples Received: 1

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Canister Pressure (TO-15)	1	N/A	2025/10/01 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2025/10/01 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.

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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
Site Location: 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: 2025/10/08
Report #: R8627579
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5C0240

Received: 2025/09/25, 14:02

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

08 Oct 2025 09:50:05

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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**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0240

Report Date: 2025/10/08

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		AVOK31	
Sampling Date		2025/09/22	
COC Number		na	
	UNITS	STN29164 22-SEP-25	QC Batch
Pressure on Receipt	psig	(-3.9)	A021950
QC Batch = Quality Control Batch			



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		AVOK31				
Sampling Date		2025/09/22				
COC Number		na				
	UNITS	STN29164 22-SEP-25	RDL	ug/m3	DL (ug/m3)	QC Batch
Benzene	ppbv	0.21	0.10	0.669	0.319	A021922
Surrogate Recovery (%)						
Bromochloromethane	%	81		N/A	N/A	A021922
D5-Chlorobenzene	%	85		N/A	N/A	A021922
Difluorobenzene	%	79		N/A	N/A	A021922
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
N/A = Not Applicable						



**BUREAU
VERITAS**

Bureau Veritas Job #: C5C0240

Report Date: 2025/10/08

Rotek Environmental Inc.

Site Location: RAIN CARBON CANADA INC

Your P.O. #: 32669

Sampler Initials: RH

GENERAL COMMENTS

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A021922	TIM	Spiked Blank	Bromochloromethane	2025/09/30		100	%	60 - 140
			D5-Chlorobenzene	2025/09/30		103	%	60 - 140
			Difluorobenzene	2025/09/30		101	%	60 - 140
			Benzene	2025/09/30		95	%	70 - 130
A021922	TIM	Method Blank	Bromochloromethane	2025/09/30		88	%	60 - 140
			D5-Chlorobenzene	2025/09/30		87	%	60 - 140
			Difluorobenzene	2025/09/30		87	%	60 - 140
			Benzene	2025/09/30	<0.10		ppbv	
A021922	TIM	RPD	Benzene	2025/09/30	NC		%	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.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C5C0240

Report Date: 2025/10/08

Rotek Environmental Inc.

Site Location: 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

Station : East
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter Q3

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
12-Jul-25	ASJM47-01	ASJM47-01	11-Jul-25	36	5378.74	34	5401.97	14-Jul-25	318.1	23.23	RH	
	PUF#1		16:25					14:33				
24-Jul-25	ASJN19-01	ASJN19-01	23-Jul-25	38	5401.97	34	5425.28	28-Jul-25	322.9	23.31	RH	
	PUF#1		14:55					12:32				
05-Aug-25	ATLW29-01	ATLW29-01	01-Aug-25	38	5425.29	38	5448.74	07-Aug-25	333.8	23.45	RH	
	PUF#1		17:27					11:18				
17-Aug-25	ATLW56-01	ATLW56-01	15-Aug-25	36	5448.75	38	5472.10	19-Aug-25	328.2	23.35	RH	
	PUF#1		17:13					14:19				
29-Aug-25	ATLY18-01	ATLY18-01	28-Aug-25	38	5472.15	38	5495.39	03-Sep-25	332.1	23.24	RH	
	PUF#1		16:26					09:29				
10-Sep-25	AUJC90-01	AUJC90-01	09-Sep-25	36	5495.40	34	5518.79	11-Sep-25	332.5	23.39	RH	
	PUF#1		17:34					15:15				
22-Sep-25	AUJF70-01	AUJF70-01	19-Sep-25	38	5518.79	40	5542.23	23-Sep-25	327.1	23.44	RH/DC	
	PUF#1		14:22					10:25				



PUF - Station Logs

Station : North
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
12-Jul-25	ASJM48-01	ASJM48-01	11-Jul-25	38	3611.74	38	3635.23	14-Jul-25	315.4	23.49	RH	
	PUF#2		16:35					15:13				
24-Jul-25	ASJN20-01	ASJN20-01	23-Jul-25	38	3635.24	38	3658.73	28-Jul-25	316.4	23.49	RH	
	PUF#2		15:10					12:46				
05-Aug-25	ATLW30-01	ATLW30-01	01-Aug-25	36	3658.74	36	3682.13	07-Aug-25	310.8	23.39	RH	
	PUF#2		17:44					11:39				
17-Aug-25	ATLW57-01	ATLW57-01	15-Aug-25	34	3682.14	34	3705.60	19-Aug-25	301.9	23.46	RH	
	PUF#2		17:31					14:32				
29-Aug-25	ATLY19-01	ATLY19-01	28-Aug-25	36	3705.67	35	3729.17	03-Sep-25	311.8	23.50	RH	
	PUF#2		18:06					09:48				
10-Sep-25	AUJC91-01	AUJC91-01	09-Sep-25	38	3729.17	32	3752.57	11-Sep-25	308.2	23.40	RH	
	PUF#2		17:54					15:36				
22-Sep-25	AUJF71-01	AUJF71-01	19-Sep-25	38	3752.58	38	3775.97	23-Sep-25	329.5	23.39	RH	
	PUF#2		14:40					11:00				



PUF - Station Logs

Station : Old West
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
12-Jul-25	ASJM49-01	ASJM49-01	11-Jul-25	30	5233.24	30	5257.10	14-Jul-25	310.8	23.86	RH	
	PUF#3		17:34					16:36				
24-Jul-25	ASJN21-01	ASJN21-01	23-Jul-25	38	5257.10	32	5280.89	28-Jul-25	325.9	23.79	RH	
	PUF#3		16:50					15:28				
05-Aug-25	ATLW31-01	ATLW31-01	01-Aug-25	34	5280.90	32	5304.62	07-Aug-25	321.5	23.72	RH	
	PUF#3		18:43					16:35				
17-Aug-25	ATLW58-01	ATLW58-01	15-Aug-25	30	5304.63	32	5328.31	19-Aug-25	313.7	23.68	RH	
	PUF#3		18:22					16:16				
29-Aug-25	ATLY20-01	ATLY20-01	28-Aug-25	30	5328.39	32	5352.14	03-Sep-25	316.7	23.75	RH	
	PUF#3		18:58					11:11				
10-Sep-25	AUJC92-01	AUJC92-01	09-Sep-25	36	5352.14	32	5375.88	11-Sep-25	315.1	23.74	RH	
	PUF#3		18:10					17:21				
22-Sep-25	AUJF72-01	AUJF72-01	19-Sep-25	38	5375.89	38	5399.55	23-Sep-25	325.6	23.66	RH	
	PUF#3		16:45					11:50				



PUF - Station Logs

Station : South
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
12-Jul-25	ASJM50-01	ASJM50-01	11-Jul-25	34	5143.07	32	5166.01	14-Jul-25	299.0	22.94	RH	
	PUF#4		16:53					15:38				
24-Jul-25	ASJN22-01	ASJN22-01	23-Jul-25	38	5166.01	38	5188.92	28-Jul-25	317.0	22.91	RH	
	PUF#4		15:31					13:06				
05-Aug-25	ATLW32-01	ATLW32-01	01-Aug-25	38	5188.93	38	5211.85	07-Aug-25	320.4	22.92	RH	
	PUF#4		18:03					12:12				
17-Aug-25	ATLW59-01	ATLW59-01	15-Aug-25	38	5211.86	40	5234.74	19-Aug-25	321.9	22.88	RH	
	PUF#4		17:48					15:47				
29-Aug-25	ATLY21-01	ATLY21-01	28-Aug-25	38	5234.79	38	5257.71	03-Sep-25	321.9	22.92	RH	
	PUF#4		18:22					10:17				
10-Sep-25	AUJC93-01	AUJC93-01	09-Sep-25	38	5257.72	32	5280.63	11-Sep-25	319.7	22.91	RH	
	PUF#4		18:10					16:08				
22-Sep-25	AUJF73-01	AUJF73-01	19-Sep-25	38	5280.63	38	5303.55	23-Sep-25	307.2	22.92	RH	
	PUF#3		15:46					11:30				



PUF - Station Logs

Station : New West
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	PUF Cartridge # Maxxam ID#	Maxxam Filter ID #	Installation (Date) (Time EST)	MAGN On	ETI On	MAGN Off	ETI Off	Removal (Date) (Time EST)	Calculated Sample Volume (293.6 - 358.8 m ³)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Comments
12-Jul-25	ASJM51-01	ASJM51-01	11-Jul-25	38	4940.73	38	4964.29	14-Jul-25	316.4	23.56	RH	
	PUF#5		17:15					16:18				
24-Jul-25	ASJN23-01	ASJN23-01	23-Jul-25	34	4964.29	35	4987.86	28-Jul-25	#REF!	23.57	RH	
	PUF#5		15:50					15:10				
05-Aug-25	ATLW33-01	ATLW33-01	01-Aug-25	38	4987.87	36	5011.55	07-Aug-25	318.7	23.68	RH	
	PUF#5		18:22					16:07				
17-Aug-25	ATLW60-01	ATLW60-01	15-Aug-25	36	5011.55	40	5035.11	19-Aug-25	319.5	23.56	RH	
	PUF#5		18:06					15:39				
29-Aug-25	ATLY21-01	ATLY21-01	28-Aug-25	36	5035.17	36	5058.70	03-Sep-25	314.2	23.53	RH	
	PUF#5		18:42					10:42				
10-Sep-25	AUJC91-01	AUJC91-01	09-Sep-25	38	5082.23	34	5105.95	11-Sep-25	314.5	23.72	RH	Unit operated prior to Wednesday September 10, 2025 with no PUF cartridge installed on a non monitoring day Thursday September 4, 2025 as unit power not switched off.
	PUF#2		18:24					17:05				
22-Sep-25	AUJF74-01	AUJF74-01	19-Sep-25	38	5105.95	38	5129.60	23-Sep-25	310.3	23.65	RH	
	PUF#5		16:06					12:15				



VOC - Station Logs

Station : East
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As)	Comments
12-Jul-25	309	11-Jul	---	-30.0	---	-18.0	14-Jul-25	---	24.0	RH		The July 12, 2025, MECP monitoring day VOC monitor summa canister off pressure was - 18 inches Hg due to a VOC sampler timer valve flow restrictions.
		16:24					14:37					
15-Jul-25	305	14-Jul	---	-30.0	---	-18.0	17-Jul-25	---	24.0	RH		Additional East VOC Monitor Tuesday July 15, 2025, MECP monitoring day
		14:44					14:36					
19-Jul-25	14253	18-Jul	---	-30.0	---	-14.0	22-Jul-25	---	24.0	RH		# 1 Additional East VOC Monitor Saturday July 19, 2025, MECP monitoring day
		18:44					14:36					
19-Jul-25	14252	18-Jul	---	-30.0	---	0.0	22-Jul-25	---	24.0	RH		#2 Additional East VOC Monitor Saturday July 19, 2025, MECP monitoring day
		18:44					14:40					
24-Jul-25	23655	23-Jul	---	-30.0	---	-17.5	28-Jul-25	---	24.0	RH		
		15:00					12:35					
24-Jul-25	32572	23-Jul	---	-30.0	---	-9.5	28-Jul-25	---	24.0	RH		Additional Standalone East VOC Monitor Thursday July 24, 2025, MECP monitoring day
		16:40					12:36					
05-Aug-25	256	01-Aug	---	-30.0	---	-14.0	07-Aug-25	---	24.0	RH		
		17:30					11:20					
05-Aug-25	29297	01-Aug	---	-30.0	---	-10.0	07-Aug-25	---	24.0	RH		Additional Standalone East VOC Monitor Tuesday August 5, 2025, MECP monitoring day
		17:35					11:23					
17-Aug-25	7826	15-Aug	---	-30.0	---	-16.0	19-Aug-25	---	24.0	RH		Summa canister pressure on receipt outside MECP guidance. Sample invalidated.
		17:17					14:22					
17-Aug-25	280	15-Aug	---	-30.0	---	-3.0	19-Aug-25	---	24.0	RH		Additional Standalone East VOC Monitor Sunday August 17, 2025, MECP monitoring day. Summa canister pressure on receipt outside MECP guidance. Sample invalidated.
		17:20					14:23					
22-Aug-25	132	21-Aug	---	-30.0	---	-30.0	25-Aug-25	---	24.0	RH		Additional East VOC Monitor Friday August 22, 2025, monitoring day
		12:59					13:54					
26-Aug-25	132	25-Aug	---	-30.0	---	-9.0	27-Aug-25	---	24.0	RH		Additional East VOC Monitor Tuesday August 26, 2025, monitoring day
		13:54					10:42					
29-Aug-25	14938	28-Aug	---	-30.0	---	-10.0	03-Sep-25	---	24.0	RH		
		17:58					09:31					
10-Sep-25	14527	09-Sep	---	-30.0	---	-10.0	11-Sep-25	---	24.0	RH		
		17:57					15:37					
22-Sep-25	18275	19-Sep	---	-30.0	---	-8.5	23-Sep-25	---	24.0	RH/DC		
		14:26					10:25					



VOC - Station Logs

Station : North
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As	Comments
12-Jul-25	7812	11-Jul	---	-30.0	---	-17.0	14-Jul-25	---	24.0	RH		The July 12, 2025, MECP monitoring day VOC monitor summa canister off pressure was - 17 inches Hg due to a VOC sampler timer valve flow restrictions.
		16:40					14:58					
16-Jul-25	27575	15-Jul	---	-30.0	---	-11.0	17-Jul-25	---	24.0	RH		Additional North VOC Monitor July 16, 2025, MECP monitoring day
		14:17					14:45					
24-Jul-25	27659	23-Jul	---	-30.0	---	-10.0	28-Jul-25	---	24.0	RH		
		15:00					12:48					
05-Aug-25	279	01-Aug	---	-30.0	---	-10.0	07-Aug-25	---	24.0	RH		
		17:47					11:44					
17-Aug-25	269	15-Aug	---	-30.0	---	-30.0	19-Aug-25	---	24.0	RH		The August 17, 2025, MECP monitoring day VOC monitor summa canister off pressure was - 30 inches Hg due to a VOC sampler timer valve failure.
		17:35					14:34					
20-Aug-25	269	19-Aug	---	-30.0	---	-10.0	21-Aug-25	---	24.0	RH		Additional North VOC Monitor August 20, 2025, monitoring day.
		14:36					13:19					
29-Aug-25	14121	28-Aug	---	-30.0	---	-7.0	03-Sep-25	---	24.0	RH		
		18:10					09:50					
10-Sep-25	14238	09-Sep	---	-30.0	---	-8.0	11-Sep-25	---	24.0	RH		
		17:57					15:38					
22-Sep-25	1278	19-Sep	---	-30.0	---	-8.0	23-Sep-25	---	24.0	RH/DC		
		14:45					11:00					



VOC - Station Logs

Station : Old West
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As	Comments
12-Jul-25	14549	11-Jul	---	-30.0	---	-11.0	14-Jul-25	---	24.0	RH		
		17:37					16:38					
24-Jul-25	27696	23-Jul	---	-30.0	---	-11.0	24-Jul-25	---	24.0	RH		
		16:26					15:29					
05-Aug-25	1281	01-Aug	---	-30.0	---	-12.0	07-Aug-25	---	24.0	RH		
		18:47					16:37					
17-Aug-25	14267	15-Aug	---	-30.0	---	-12.0	19-Aug-25	---	24.0	RH		
		18:26					16:18					
29-Aug-25	14270	28-Aug	---	-30.0	---	-6.5	03-Sep-25	---	24.0	RH		
		19:02					11:13					
10-Sep-25	14913	09-Sep	---	-30.0	---	-7.0	11-Sep-25	---	24.0	RH		
		18:37					17:25					
22-Sep-25	32571	19-Sep	---	-30.0	---	-9.0	23-Sep-25	---	24.0	RH/DC		
		16:48					11:50					



VOC - Station Logs

Station : South
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As	Comments
12-Jul-25	7820	11-Jul	---	-30.0	---	-13.0	14-Jul-25	---	24.0	RH		
		16:59					15:40					
24-Jul-25	27589	23-Jul	---	-30.0	---	-12.5	28-Jul-25	---	24.0	RH		
		15:36					13:08					
05-Aug-25	14552	01-Aug	---	-30.0	---	-11.0	07-Aug-25	---	24.0	RH		
		18:06					12:14					
17-Aug-25	137	15-Aug	---	-30.0	---	-13.0	19-Aug-25	---	24.0	RH		
		15:49					15:48					
29-Aug-25	2796	28-Aug	---	-30.0	---	-6.0	03-Sep-25	---	24.0	RH		
		18:25					10:18					
10-Sep-25	27647	09-Sep	---	-30.0	---	-5.0	11-Sep-25	---	24.0	RH		
		18:13					16:10					
22-Sep-25	7824	19-Sep	---	-30.0	---	-7.5	23-Sep-25	---	24.0	RH/DC		
		15:49					11:30					



VOC - Station Logs

Station : New West
Location : 725 Strathearne Avenue N, Hamilton
Period : July 1 to September 30, 2025
Quarter : Q3

Sample Date (dd-mmm-yy)	VOC ID Canister #	Installation (Date) (Time EST)	On Flow (mL/min)	On Pressure ("Hg)	Off Flow (mL/min)	Off Pressure ("Hg)	Removal (Date) (Time EST)	Average On/Off Sample Flow (3.15 - 3.85 mL/Min)	Sample Duration (21.6 - 26.4 Hrs)	Technician Initial	Leak Pressure (As Left) (As	Comments
12-Jul-25	18251	11-Jul	---	-30.0	---	-8.0	14-Jul-25	---	24.0	RH		
		17:19					16:20					
24-Jul-25	17204	23-Jul	---	-30.0	---	-9.0	28-Jul-25	---	24.0	RH		
		16:08					15:14					
05-Aug-25	7824	01-Aug	---	-30.0	---	-8.5	07-Aug-25	---	24.0	RH		
		18:26					16:11					
17-Aug-25	23736	15-Aug	---	-30.0	---	-7.5	19-Aug-25	---	24.0	RH		
		18:09					16:02					
29-Aug-25	14907	28-Aug	---	-30.0	---	-7.0	03-Sep-25	---	24.0	RH		
		18:46					10:44					
10-Sep-25	18241	09-Sep	---	-30.0	---	-7.0	11-Sep-25	---	24.0	RH		
		18:28					17:07					
22-Sep-25	123	19-Sep	---	-30.0	---	-7.5	23-Sep-25	---	24.0	RH/DC		
		16:10					12:15					