



REGULAR COUNCIL MEETING AGENDA
Wednesday, September 2, 2026
In-Person Town Hall Council Chambers 2nd Floor

CLOSED SESSION BEGINNING AT 4:00 PM

OPEN SESSION BEGINNING AT 5:00 PM

Teleconference Toll Free Number – 1-833-311-4101
Access Code: 2630 911 0686

Video Conference Link: [Click Here](#)
Access Code: 2630 911 0686

1.	Call Meeting to Order
2.	Disclosure of Pecuniary Interest & General Nature Thereof
3.	Closed Session (Beginning at 4:00 PM)
	☒ Advice that is Subject to Solicitor-client Privilege, including Communications Necessary for that Purpose • One (1) Item, and; • Judicial Review
	☒ A Proposed or Pending Acquisition or Disposition of Land by the Municipality • One (1) Item
4.	Reporting Out of Closed Session
5.	Canadian National Anthem
6.	Land Acknowledgement Statement
7.	Public Question/Comment (Only Addressing Motion(s) or Reports on the Agenda)
8.	Disclosure Additional Items
9.	1. Delegation – Eastern Workforce Innovation Board (EWIB) – Frank O'Hearn, Executive Director and Sandra Wright, LMI Analyst

10.	Motion #26-150 – Approval of Minutes – Wednesday, August 12, 2026
11.	Unfinished Business
	John Morrison, Treasurer
	Council-FIN-2026-30 – Council Benefits and OMERS Entitlement
	Tanya Dallaire, Deputy Treasurer
	Council-FIN-2026-31 – Municipal Accommodation Tax (MAT) Revenue Report
	David Armstrong, Manager of Public Works
	Council-UTIL-2026-15 – East End Pumping Station – Monthly Project Update
12.	Staff Reports
	Melanie Kirkby, CAO
	Council-CAO-2026-12 – Mayoral Directive 2026-007 2027 Budget Directives – Ontario Provincial Police (OPP) Costing Estimate
	David Armstrong, Manager of Public Works
	Council-RDS-2026-18 – Public Works Yard Closure
	Council-UTIL-2026-13 – 2026 First (1 st) Quarter Water & Wastewater Reports
	Council-UTIL-2026-14 – 2026 Second (2 nd) Quarter Water & Wastewater Reports
	Andrew Dickson, Fire Chief
	Council-FIRE-2026-06 – Outfitting of New Fire Aerial Truck
13.	Motions (Council Direction to Staff)
	1. Ratification of Council Decisions – May 20 th , 2026 – Mayor Beddows
	2. Garbage Receptacles at Vehicle Charging Station – Mayor Beddows
	3. One-Time Renewal – Fall 2026 Curbside Pickup of Leaves and Brush at Town Expense – Mayor Beddows
	4. Recording and Making Public Full Audio/Video Recordings of Council Meetings – Mayor Beddows
	5. Re-Open Question of Recording and Making Public Full Audio/Video Recordings of Council Meetings – Mayor Beddows
14.	Correspondence
	1. First People's Performing Arts – Little Shoes Memorial – Request to Council
	2. Mayoral Directive 2026-007 – Request to Place on Council Agenda – Councillor Osmond

The Town invites and encourages people with disabilities to attend and voice their comments in relation to accessibility related reports. For those who are unable to attend, the Town encourages the use of the Customer Feedback Form found on the Accessibility Page on the Town's website.

15.	Notice Required Under the Notice By-law – None
16.	Committee Updates (Council Reps)
17.	Discussion of Additional Items
18.	Questions from the Media
19.	Confirmation By-law
	By-law No. 2026-074 – Confirm the proceedings of Council for the meeting held on Wednesday, September 2, 2026
20.	Next Meeting: Wednesday, September 16, 2026 @ 5:00 PM
21.	Adjournment

The Corporation of the Town of Gananoque

Land Acknowledgement Statement

We begin this meeting of Council by acknowledging that we are on traditional territory of the Haudenosaunee (*Hoe-den-oh-show-nee*) and Anishinabe (*A-nish-in-'a-bay*) and First Peoples. We do so respecting both the land and the Indigenous People who continue to walk with us through this world.

We are grateful for the opportunity to gather here.

In recognition of the contributions and importance of all Indigenous Peoples, we strongly support Truth and Reconciliation Calls to Action in our nation and commit to support local endeavors where possible.



Deputation Request to Appear Before Council
(This form is mandatory before any request is considered)

(*) Signifies required information.

***Name of person and/or associate or organization wishing to appear:**

Frank O'Hearn, Executive Director and Sandra Wright, LMI Analyst, Eastern Workforce

***Topic of discussion (please be specific, provide details, and attach any additional information).**

To provide an overview of EWIB and it's community resources that may impact and/or assist in community partners with labour market planning.

NOTE: All documents provided are open for public review to ensure transparency and openness of Council meetings. All information/documents are posted on the Town's website in advance of the meeting. If requesting a closed (in-camera) audience with Council the subject matter must meet the requirements under the *Municipal Act*, Section 239.

Additional Information attached: Yes ☐ No ☐

***Purpose of Request: (Please mark at least one)**

☐	Information or Educational Purposes only	X
☐	Requesting a Letter of Support	
☐	Requesting Funding – Amount of Request	\$
☐	Other (provide details)	

***Economic Impact** (Please mark and supply details)

	Target Market: Municipal Planners, job seekers, employees, employers, educators
	Partners: employment service providers, educators, economic development organizations, employers
	Budget Outline Attached: Yes ☐ No ☐

***Activities to date relevant to this matter:**

refer to handout

***Contact Person** (if different from above):

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***Mailing Address:**

375 William Street, Suite 142, Gananoque, Ontario K7G 1T2

*Telephone Number:	613 893 - 3334 - Frank O'Hearn
*Email Address:	frank@workforcedev.ca

***Council Date Requested:**

September 2, 2026

Council meetings are held on the 1st and 3rd Wednesday of each month and begin at 5:00 PM.



EASTERN WORKFORCE INNOVATION BOARD

Nurturing a stronger workforce

THE MISSION: To work collaboratively with community partners in identifying challenges affecting the local workforce and in developing opportunities to address these challenges.

The Eastern Workforce Innovation Board (EWIB) is one of twenty-five (25) workforce planning areas in the Province of Ontario. This Board was incorporated in 1996 and has been in operation for 30 years. The EWIB catchment area consists of the counties of Frontenac, Leeds and Grenville and Loyalist Township (within the county of Lennox and Addington). It receives its core funding from the Ministry of Labour, Immigration, Training and Skills Development.

The EWIB gathers information regarding the supply and demand concerns of the local labour market by working collaboratively with community partners. This information is compiled and reported in the annual Local Labour Market Planning (LLMP) Report. Members of the Board actively engage with both local organizations and community partners in local labour market endeavors.

Board of Directors

The Board of Directors of the EWIB consists of volunteer representatives from Labour, Business, Education, Trainers and Equity Groups.

Key Community Resources

1. Website – one stop shop for resources of EWIB

The EWIB has designed an interactive and informative website that offers a wide variety of resources for the community to access. The website features an array of labour market information that includes current and past Local Labour Market Planning (LLMP) reports, links to job boards, LMI news bulletins and community profiles. It also features an LMI Help Desk or “Ask the Expert” service where users can click on a link to ask questions about the labour market and receive a timely response from EWIB. This is a free service.

You are encouraged to visit the EWIB’s website at workforcedev.ca and to utilize the information provided to address your individual labour market concerns.

2. Local Labour Market Planning (LLMP Report)

The Local Labour Market Planning (LLMP) Report is an annual report that highlights significant changes in the local labour market. The report includes statistical data on local demographics, industry and occupational compositions, and job trends. It also identifies key workforce challenges and opportunities in the Eastern Workforce Innovation Board (EWIB) region.

The LLMP report is comprised of both quantitative and qualitative data. The quantitative information found in the document is derived from numerous data sources.

3. LMI Help Desk

The LMI Help Desk (Labour Market Information Help Desk) is a service to assist employers, employees, job seekers and other community partners with questions related to the local labour market data. You can access the LMI Help Desk by completing a questionnaire online, which will guide you to a personal email response for your inquiries. Click on [LMI Help Desk Questionnaire – Eastern Workforce Innovation Board](#) or visit workforcedev.ca/lmi-help-desk/

4. LMI Resource Data to Assist Employment Service Providers

Labour market information on employment, job postings, wage data and skilled trade links is produced annually. This data is mainly used by employment service providers, career counsellors and educators assist them with providing employment and counselling advice to clients/students. However, this information may be also useful to other partners including economic development organizations, municipalities, and employers.

The data is organized by tabs in one excel spreadsheet per geographical area listed below.

There is also a LMI Resource Guide attached that describes the resource data in more detail and provides a glossary.

Annual Data Update is provided for Leeds & Grenville, Brockville, Prescott, North Grenville, Gananoque, Kingston and Frontenac County.

5. Community Profiles and Links to Other Resources

Community Profiles (brochures) are produced following Census years highlighting labour market changes and information from Census data. These profiles are produced on the nineteen (19) municipalities within the EWIB catchment area. The last profiles were completed from the 2021 Census. Update profiles will be produced in 2028 – once all the data has been released from the 2026 Census.

6. LMI News Bulletins

EWIB produces six (6) LMI News Bulletins every year on local labour market topics of interest. These are distributed to community partners.

7. Projects and Partnerships

The EWIB partners with numerous organizations in the area on projects related to workforce planning and economic development.

Held on Wednesday, August 12, 2026, at 4:00 PM
Held Virtually and In-Person

Council Members Present		Staff Present
Mayor:	John Beddows	Melanie Kirkby, CAO
Councillors:	Colin Brown	Penny Kelly, Clerk / CEMC
	Matt Harper	Lynsey Zufelt, Deputy Clerk
	Patrick Kirkby	Brenda Guy, Manager of Planning and Development
	Anne-Marie Koiner	David Armstrong, Manager of Public Works
	Vicki Leahey	Jeff Johnston, Manager of Parks, Recreation and Facilities
	David Osmond	John Morrison, Treasurer
		Andrew Dickson, Fire Chief

1.	Call Meeting to Order
	Mayor Beddows called the meeting to order at 4:02 PM
2.	Disclosure of Pecuniary Interest
	1. Councillor Brown declared a Conflict of Interest regarding Item #9.2, Proposed Plan of Subdivision (SD2025-01) and Class III Development Permit (DP2026-04) – Vacant Lands South of Elmwood and West of Arthur Street (Brenda Guy, Manager of Planning and Development – Report Council-PD-2026-11) 2. Councillor Osmond declared a Conflict of Interest regarding Item #8, Veto of Council Motion – Report PD-2026-09 / By-law No. 2023-098, as the developer/owner donated to his campaign in 2018.
3.	Canadian National Anthem
	The National Anthem was sung.
4.	Land Acknowledgement Statement
	Mayor Beddows read the Land Acknowledgement Statement
5.	Public Question / Comment (Only Addressing Motion(s) or Reports on the Agenda)
***At this point, Councillor Osmond left the room.	
	Jeff McEwan spoke to Item #8, “Veto of Council Motion – Report PD-2026-09 / By-law No. 2023-098”.
***Councillor Osmond returned to the room.	
6.	Disclosure of Additional Items
	Councillor Koiner requested that the Order of Proceedings be amended. Council considered the following.
Motion #26-137 – Amend Order of Proceedings for August 12, 2026 Moved by: Councillor Koiner Seconded by: Councillor Brown BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE AMENDS THE ORDER OF PROCEEDINGS TO ADDRESS, IMMEDIATELY FOLLOWING ITEM #8 – VETO OF COUNCIL MOTION – REPORT PD-2026-09 / BY-LAW NO. 2023-098, TO BRING FORWARD AND CONSIDER THE FOLLOWING: 1. ITEM #13.3 – MAYOR BEDDOWS – OPEN LETTER TO COUNCIL, AND; 2. ITEM #11 – REPORT COUNCIL-CAO-2026-11 – 2023 TO 2026 LEGAL COSTS BY CATEGORY. CARRIED – UNANIMOUS	

7.	Approval of Minutes – Wednesday, July 15 and Tuesday, July 28, 2026
	Motion #26-136 – Approval of Minutes – Wednesday, July 15 and Tuesday, July 28, 2026 Moved By: Deputy Mayor Leakey Seconded By: Councillor Brown BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE HEREBY ADOPTS THE REGULAR COUNCIL MINUTES OF WEDNESDAY, JULY 15TH, 2026, AND ITS SPECIAL COUNCIL MINUTES OF TUESDAY, JULY 28TH, 2026. CARRIED – UNANIMOUS
8.	Veto of Council Motion – Report PD-2026-09 / By-law No. 2023-098
	***At this point, Councillor Osmond left the room.
	Motion #26-138 – Override Mayor’s Veto Dated July 30, 2026 – Report PD-2026-09 and By-law No. 2023-098 Moved By: Councillor Koiner Seconded By: Councillor Brown BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE OVERRIDES MAYOR JOHN BEDDOWS “VETO OF COUNCIL MOTION – REPORT PD-2026-09 / BY-LAW 2023-098” DATED JULY 30, 2026, ENACTED UNDER BILL 3, <i>STRONG MAYORS, BUILDING HOMES ACT</i>. CARRIED – UNANIMOUS
	***Councillor Osmond returned to the room. ***Item #13.3 titled “MAYOR BEDDOWS – OPEN LETTER TO COUNCIL” was brought forward for discussion and consideration. ***Discussion regarding the 2023-2026 Legal Update Report was postponed temporarily in order to begin the published Public Meeting beginning at 5:00 PM.
	***The Chair called a recess and the meeting resumed at 5:14 PM.
9.	Public Meeting
	1. Proposed Class III Development Permit (DP2026-05) – Operate a Building Contractor’s Shop and Manufacturing Plant for the Purposes of Coffee Roasting (Brenda Guy, Manager of Planning and Development – Report Council-PD-2026-10)
	• A Public Meeting was held regarding a proposed Class III Development Permit Application (DP2026-05) received from the Owner/Applicant: Songwood Contracting Ltd., regarding the property municipally and legally described as 215 James A. Brennan Road, Leeds Concession 1 Part Lot 13 Town of Gananoque, to operate a Building Contractor’s Shop and Manufacturing Plant for the purposes of coffee roasting to an existing building and construct a new storage building on the subject lands. • The Chair requested the Manager of Planning and Development to present the Application to Council. • Brenda Guy, Manager of Planning and Development provided an overview of Report Council PD-2026-10. • The Chair asked the Owner/Applicant if they had anything to add to the Staff overview. – None • The Chair asked if any member of Council had any questions or comments. – None • The Chair advised that under the Development Permit By-law, comments may be made by the public however, once a Permit has been approved the only party able to appeal to the Ontario Land Tribunal is the Applicant. • The Chair asked if any member of the public had any questions or comments. – None

	• If you wish to be notified of the decision of the Town of Gananoque in respect of the proposed Plan of Subdivision, you must make a written request to the Clerk. • Under the proposed Development Permit Application, comments may be made by the public, however, once a Permit has been approved the only party able to appeal to the Ontario Land Tribunal is the Applicant. The Development Permit Application relates to any reliefs being sought under the Development Permit By-law No. 2010-65.
	• The Chair called the Public Meeting to order to deal with the Plan of Subdivision and Development Permit at 5:45 PM. • The Chair requested the Manager of Planning and Development present the Plan of Subdivision and Development Permit Application. • Brenda Guy, Manager of Planning and Development, provided an overview of Report Council PD-2026-11. • Prior to moving forward, the Chair requested clarification regarding the process regarding this Public Meeting and should Council postpone, as per the recommendation of PAC, would Council be required to go this complete process when a report is brought back to Council again for consideration? • Brenda Guy, informed Council that there are three (3) options: 1. Council could move forward and approve what has been presented. Staff stated that this is not a preferred recommendation as Council is not in receipt of the draft conditions of approval. 2. Receive public comment as the public have come out to comment at this public meeting. This is recommended as it was advertised to be the Public Meeting, 3. Should Council defer the Applications, Council could choose that this matter be brought back directly to Council or; that this matter be referred to the Planning Advisory Committee (PAC).
	• The Chair requested that the Applicant / Owner present their project and if they have anything to add to the Staff overview. • Emily Elliot with MHBC, and Planning Consultant on behalf of the the owner provided a PowerPoint presentation titled “Development Proposal – Elmwood Drive Gananoque” (attached).
	• The Chair asked if any member of Council had any questions or comments pertaining to the Plan of Subdivision or Development Permit Application. • Deputy Mayor Leakey stated that this is a tremendous opportunity for more homes and this will help reduce taxes. She also commented that she appreciated the fact that the MHBC has taken comments and concerns from residents into consideration. Until all information is available, Deputy Mayor Leakey is in favor of deferring this matter. • Councillor Osmond asked when, roughly, the vacant lands were zoned residential, and; when is the next meeting of the Planning Advisory Committee (PAC)? • Brenda informed that the lands were zoned residential in 1971, and; it is also in the 1999 Official Plan as residential. • The next regular PAC meeting is scheduled for Tuesday, August 25, 2026. • Mayor Beddows asked would the main access for construction be via John Street or Elmwood Drive, or do we know that yet? • Brenda advised that as a condition of the draft approval the Applicants will submit a Plan to the Public Works Department and the Manager of Public Works will have discussions regarding the traffic routes.

	• Mayor Beddows noted that building would be done in two phases. Will it be the water phase going first or the more in-land phase? • Ms. Elliot advised that this is still to be determined. • Mayor Beddows referenced the 15m set back. The distance is less important than the elevation, when it comes to flood plain, and a little west there is a significant bluff on the river. With the location of the houses, even factoring the setback, is there a significant elevation to take them sufficiently above the flood plain. • Ms. Elliot confirmed that this is correct and; in some cases the setback, when you measure it from the flood plain as opposed to the water edge, is 30m. It is not 15m from the water edge, it's 15m from the flood plain and based on the elevation. • Regarding archeology, Mayor Beddows asked which Aboriginal Groups were consulted? • Ms. Elliot advised that they consulted with the Akwesasne. • Mayor Beddows asked with what we know now, this site is not necessarily an Aboriginal site? • Ms. Elliot admitted that she is not an archeologist and would defer the question to the archeological report for confirmation.
	• The Chair asked if any member of the public had any questions or comments pertaining to the Applications. 1. Marguerita Luensch (205 Elmwood Drive) advised that her property current floods and expressed her concerns regarding the development and further flood impacts she may encounter. 2. Mark Abley (175 Elizabeth Drive) expressed concerns regarding building in a flood plain (taking into account hydrological analysis, excess rainfall and stormwater). He suggested that improvements should be made to the Plan to allow the area to remain unaltered/naturally without need to rely on engineered measures. 3. Whitney Haynes (330 Elmwood Drive) asked: 3.1. Has there been a tree count? • Brenda advised that a condition of a draft approval is a tree number count as well as a Preservation Plan. 3.2. Ms. Haynes also enquired about green spaces being preserved during construction or will they be added after development? • Brenda advised that the areas are protected during construction. 3.3. Ms. Haynes remarked that the current plan shows a beautiful rendition, green across the water and wetlands, just wondering if this comes after or will the lands be clear cut in order to get the project started? • Brenda responded that should the Developer wish to move ahead and put road networking in, etc., an Application is required to be submitted to the Town / Council for approval of a Pre-Servicing Agreement. This is all at the risk of the Developer and must be approved by Council before this type of work is permitted. • Ms. Elliot advised that MBHC could apply for a Pre-Servicing Agreement, but the open space features and the watercourse are open space – their natural environment features are protected and through the Construction Management Plan there is a requirement for vegetation protection fencing to be placed around so that they are not disturbed during construction. Ms. Elliot added that as part of the conditions of approval there will be additional planting and mitigation that has to occur.

	3.4. Ms. Haynes is wondering in the Environmental Study by WSP, did they consider the corridor from McLeans Forest and the corridor through to Connors Woods, would they be obliged to consider how it affects the one forest to the next? • Ms. Elliot responded that WSB are required to look at the balance of the site and identify all the natural features and consider relations with adjacent lands.
	4. Mike Zahara (330 Elmwood Drive) noted that there are 74 listings in Gananoque area and which are not selling. This project is looking at developing 200 units, are we looking at 8-10 years of construction noise. What is the timeline of Phase 1 and 2? Is this a 10 year project? • Brenda advised that the timeline is 3-5 years. Every developer works slightly different than the next. 5. Mrs. Abley (175 Elizabeth Drive) asked if Council is taking into consideration discussions regarding Eco-Tourism, conservation of trees, and the fact that Gananoque is within the Frontenac Arch Biosphere Network (FABN)? Invite Council to consider what this would do to the natural environment over the next 50 years. 6. Giselle Goddard (155 Elmwood Drive) commented about the homes that are not selling in Gananoque and if these aren't selling, who will be buying in the new development. Ms. Goddard also questioned whether the Town has enough staffing within Policing and Fire to accommodate the increase in traffic and population? Ms. Goddard further commented that Elmwood does not have sidewalks. With the construction how are children safe, where is their freedom to ride bikes and play? 7. Tim Corbett (607 Arthur Street) advised that he bought his property 5 years ago and was advised there would be no future development behind his house. Mr. Corbett is concerned regarding the protection on his property with respect to the proposed new development and potential flooding in his yard. He also stated that a construction timeline of 3-5 years is not achievable and is dependent on sales. • Mayor Beddows advised that "we" (Council) haven't heard or seen, from anyone with a collective voice, i.e. neighbourhood survey; Petition to Council or an area recommendation from a collective group of residents. You do have the opportunity to poll the residents of the area and come back to Council with those who support or don't support the proposed development. 8. Marion Sprenger (140 Elmwood Drive) spoke to stormwater and seeking confirmation that we are not just looking at this development but the other areas surrounding. Ms. Sprenger explained that she had a large sink hole in her driveway, and if you look at Elmwood Drive you will see several other sink holes. The house across the street had to have their laterals replaced as their septic was backing up into their house. The point is that there is movement there. It is hoped that Public Works looks at the whole area due the heavy rains etc. Ms. Sprenger further explained that there is a hydro easement in her backyard and there has been a lot of major construction over the years where massive garages have been erected on the easement, and her backyard floods due to this. Concerned about more flooding going upstream. She would like to see a full comprehensive report from Public Works before a decision is made to clear the forest and have it sit there for 10 years before being developed.

	9. Linda Garrah addressed the issue of time and stated that this is a significant development that will affect a lot of people and will have a large impact in the area. Mrs. Garrah urged Council to consider not how fast we can push this through, but how well we push it through so that every possible planning procedure has been followed. She agrees with Councillor Osmond, that this matter should be referred back to PAC, at least once, in order for the Committee to resolve a number of issues, prior to presented back to Council for consideration.
	***At this point, the Chair called a recess at 7:07 PM. The meeting resumed at 7:24 PM.
	10. Ben Goernert (160 Charles Street South) asked about the lowering of the flood plain set back to only 5m and enquired if engineering justification was provided by the developer? - Brenda advised that part of this is based on flood plain mapping and what the Conservation Authority has within their setback requirements. The Town's set back is from a watercourse. The definitions vary a little bit from one agency to the Town. The Town has a 30m setback from structures, there is provision to reduce that to 15m provided that an Environmental Impact Statement is provided. This ties in with the Town's Development Permit By-law (break wall or justification in the EIS to do so). The Conservation Authority treats the set back different from the Town. Mr. Gorenert asked for clarification regarding the setback being 5m? - Mayor Beddows clarified that the setback is 15m.
	The Chair asked if the Applicant / Owner have any additional comments. - Emily Elliot responded to two comments. - With respect to CRCA comments on the development. Ms. Elliot clarified that Central Watercourse, in its first submission, did have a high degree of engineering as part of the design for the channel and stormwater management design. Based on feedback received from CRCA that water course is not engineered, except at the road crossing. MHBC did take the comments into consideration and removed engineering to the central watercourse. - Ms. Elliot also responded to the comments regarding grading on adjacent lands and stormwater management impacts that may occur. She noted that detailed design and lot grading plans will be prepared as part of the draft plan of approval conditions. This would confirm that there will be no stormwater management or drainage issues on adjacent property. This will come forward at the next meeting.
	- Mayor Beddows asked Brenda when we expect to hear from CRCA. - Brenda advised that a coordination for a meeting is being sought. Currently, there is no confirmed date. Attendees for the meeting would be the Applicant, CRCA and the Town.
	Council considered the following recommendation.
	Moved by Deputy Mayor Leakey and seconded by Councillor Osmond to add the following "AND FURTHER THAT THIS MATTER BE REFERRED BACK TO THE PLANNING ADVISORY COMMITTEE, PRIOR TO BEING RE-PRESENTED TO COUNCIL FOR FURTHER CONSIDERATION". CARRIED – UNANIMOUS, by those present

	Motion #26-140 – Plan of Subdivision (SD2025-01) and Class III Development Permit (DP2026-04) – MHBC Planning Ltd. Moved by: Deputy Mayor Leaky Seconded by: Councillor Osmond BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE DEFERS THE DRAFT PLAN OF SUBDIVISION APPLICATION SD2025-01 AND THE RELATED DEVELOPMENT PERMIT APPLICATION DP2026-04, PRIOR TO CONSIDERATION OF SAID APPLICATIONS, TO ADDRESS CATARAQUI REGION CONSERVATION AUTHORITY (CORRESPONDENCE DATED JULY 22, 2026), OPEN SPACE BLOCKS, ARCHAEOLOGICAL AND ACQUISITION OF LANDS, AS RECOMMENDED BY PLANNING ADVISORY COMMITTEE (PAC), STAFF REPORT DATED JULY 28, 2026, AND AS PRESENTED IN COUNCIL REPORT-DP-2026-11; AND FURTHER THAT THIS MATTER BE REFERRED BACK TO THE PLANNING ADVISORY COMMITTEE (PAC), PRIOR TO BEING PRESENTED TO COUNCIL FOR FURTHER CONSIDERATION. CARRIED – UNANIMOUS, as amended and by those present
	The Public Meeting adjourned at 7:08 PM.
	***Councillor Koiner left the meeting at 7:08 PM and did not return. ***Councillor Brown returned to the room. ***At this point, Council considered Item #11 – Report Council-CAO-2026-11 – 2023 to 2026 Legal Costs By Category.
10.	Unfinished Business
	***Following consideration of Item #11 – Report Council-CAO-2026-11 – 2023 to 2026 Legal Costs By Category, Councillors Harper and Kirkby left the meeting at 7:49 PM and did not return.
	Council-FIN-2026-27 – Information Technology (IT) Services
	Motion #26-141 – Information Technology (IT) Services Moved by: Mayor Beddows Seconded by: Councillor Brown BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES FOR INFORMATION THE TECHNOLOGY SERVICES CORPORATE SYSTEMS, EXPENDITURES AND MODERNIZATION REPORT, AS PRESENTED IN REPORT COUNCIL FIN-2026-27. CARRIED – UNANIMOUS, by those present
11.	Staff Reports
	Council-FIRE-2026-05 – Fire Department – First (1st) and Second (2nd) Quarter Update
	Motion #26-142 – Fire Department – First (1st) and Second (2nd) Quarter Update Moved by: Councillor Brown Seconded by: Councillor Osmond BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES THE 2026 FIRST (1ST) AND SECOND (2ND) QUARTER FIRE DEPARTMENT REPORT FOR INFORMATION, AS PRESENTED IN THE COUNCIL REPORT FIRE-2026-05. CARRIED – UNANIMOUS, by those present
	Council-FIN-2026-26 – 2026 Quarter Two (Q2) Forecast & Budget Variance
	Motion #26-143– 2026 Quarter Two (Q2) Forecast & Budget Variance Moved by: Mayor Beddows Seconded by: Councillor Osmond BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES THE 2026 Q2 BUDGET VARIANCE AND FORECAST, AS PRESENTED IN REPORT COUNCIL FIN-2026-26. CARRIED – UNANIMOUS, by those present

Council-FIN-2026-028 – 2026 – Quarter Two (Q2) Community Grant Program

Motion #26-144 – 2026 – Quarter Two (Q2) Community Grant Program

Moved by: Deputy Mayor Leakey

Seconded by: Councillor Brown

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES FOR INFORMATION, THE STATUS OF THE COMMUNITY GRANT PROGRAM AND CASINO RESERVES FUNDING, AS PRESENTED IN REPORT COUNCIL FIN-2026-28.

CARRIED – UNANIMOUS, *by those present*

Council-FIN-2026-29 – Ontario Infrastructure and Lands Corporation (“OILC”) Legal Team Request to Town

By-law No. 2026-071 – Repeal By-law No. 2026-065 – OILC Debenture Agreement

Moved by: Mayor Beddows

Seconded by: Councillor Osmond

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE PASS BY-LAW NO. 2026-071, BEING A BY-LAW TO REPEAL BY-LAW NO. 2026-065, BEING A BY-LAW TO AUTHORIZE THE SUBMISSION OF AN APPLICATION TO ONTARIO INFRASTRUCTURE AND LANDS CORPORATION ("OILC") FOR FINANCING OF CERTAIN CAPITAL WORK(S) OF THE CORPORATION OF THE TOWN OF GANANOQUE (THE "MUNICIPALITY"); TO AUTHORIZE TEMPORARY BORROWING FROM OILC, AS REQUESTED BY OILC'S LEGAL TEAM AND AS PRESENTED IN REPORT COUNCIL-FIN-2026-029.

CARRIED – UNANIMOUS, *by those present*

**By-law No. 2026-072 – Ontario Infrastructure and Lands Corporation (OILC) –
Financing Certain Capital Works Projects**

Moved by: Mayor Beddows

Seconded by: Deputy Mayor Leakey

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE PASS BY-LAW NO. 2026-072, BEING A BY-LAW TO AUTHORIZE THE SUBMISSION OF AN APPLICATION TO ONTARIO INFRASTRUCTURE AND LANDS CORPORATION ("OILC") FOR FINANCING OF CERTAIN CAPITAL WORK(S) OF THE CORPORATION OF THE TOWN OF GANANOQUE (THE "MUNICIPALITY"); AND TO AUTHORIZE LONG-TERM BORROWING FOR SUCH CAPITAL WORK(S) THROUGH THE ISSUE OF DEBENTURES TO OILC, AS AMENDED BY OILC'S LEGAL TEAM AND AS PRESENTED IN REPORT COUNCIL-FIN-2026-029.

CARRIED – UNANIMOUS, *by those present*

Council-CAO-2026-11 – 2023 to 2026 Legal Costs by Category

Motion #26-145 – 2023 to 2026 Legal Costs by Category

Moved by: Deputy Mayor Leakey

Seconded by: Mayor Beddows

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES FOR INFORMATION THE 2023 – 2026 LEGAL COSTS BY CATEGORY REPORT, AS PRESENTED IN REPORT COUNCIL CAO-2026-11.

CARRIED – UNANIMOUS, *by those present*

Council-CSC-2026-05 – Request for Extended Event Hours – Music Video Filming

By-law No. 2026-073 – Request for Extended Event Hours – Music Video Filming

Moved By: Councillor Brown

Seconded By: Mayor Beddows

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE APPROVES OPTION #1, PASS BY-LAW NO. 2026-073, BEING A BY-LAW TO AUTHORIZE AN EXEMPTION FROM THE REGULATE NOISE BY-LAW NO. 2010-046, TO PERMIT THE BAND FATAL VISION TO FILM A LIVE MUSIC VIDEO ON THURSDAY, SEPTEMBER 10, 2026, ALLOWING AMPLIFIED MUSIC TO EXTEND FROM 9:00 PM TO 11:00 PM., AS PRESENTED IN REPORT COUNCIL-CSC-2026-05.

CARRIED – UNANIMOUS, *by those present*

22.	Next Meeting: Regular Council – Wednesday, September 2, 2026 at 5:00 PM	
23.	Adjournment	
	Moved By: Mayor Beddows Be it resolved that the Council of the Town of Gananoque hereby adjourns the Wednesday, August 12 th , 2026, regular meeting of Council at 9:29 PM.	
	CARRIED – UNANIMOUS, <i>by those present</i>	
	John S. Beddows, Mayor	Penny Kelly, Clerk

Development Proposal Elmwood Drive, Gananoque

Town Council Meeting

August 12th, 2026



PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE

CONTEXT MAP

- Site Area: 11.59 hectares (28 ac)
- Vacant
- Contains a watercourse, wetland and a coastal wetland
- Surrounding uses: residential, commercial and institutional
- Frontage: Elmwood Drive, Arthur Street and John Street



ABOUT THE PROPOSAL

- Residential subdivision with townhouse and single detached dwellings. Parkland, a trail connection and conservation of environmental features is proposed.
- A **Development Permit Application** is proposed to establish site specific permissions and re-designate portions of the lands for parks, open space and natural heritage.
- A **Plan of Subdivision Application** is proposed to implement the proposed development.

PUBLIC NOTICE & TIMELINE

December 2024:	Pre-consultation with Town and CRCA
September 2025	Applications are submitted
January 2026	Applications are posted on the Town website
February 2026	Notice sign installed on the property. Applications circulated to Town departments, peer reviewers and commenting agencies, including CRCA
May 2026	Resubmission of a revised Draft Plan to address staff and agency comments
July 2026	Notice issued/mailed once the Planning Advisory Committee and Council meeting dates were scheduled
July 28, 2026	Planning Advisory Committee meeting
August 12, 2026	Public meeting at Council

PROPOSAL

- 66 single-detached units
- 23 street townhouse units
- 12-14 cluster townhouse units
- Two park blocks & a trail connection
- Watercourse and wetlands protected
- Connections from Elmwood Drive, John Street & Arthur Street





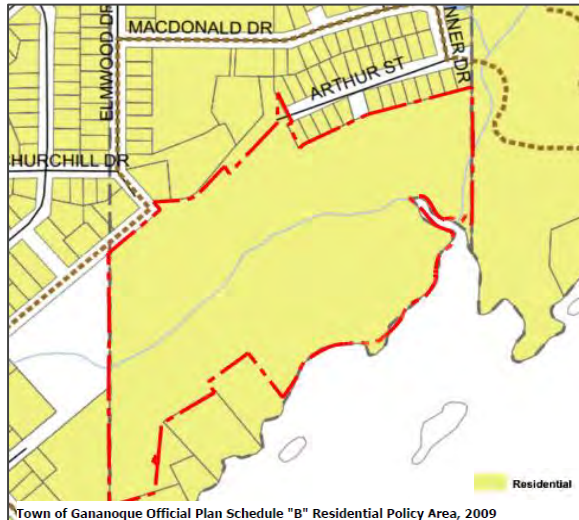
RENDERED PLAN

EXISTING LAND USE

Town Official Plan:

'Residential'

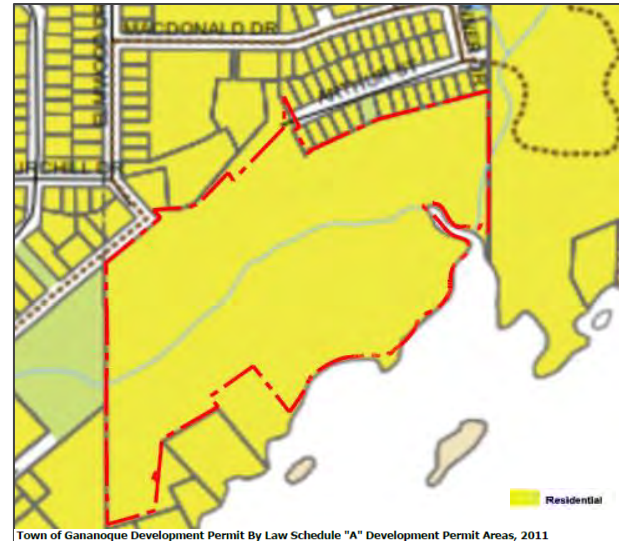
- Permits full range of dwelling types (low density to high density)
- Density required is 12 units/ha ; 12 units/ha proposed
- Proposal is consistent with the designation



Development Permit By-law:

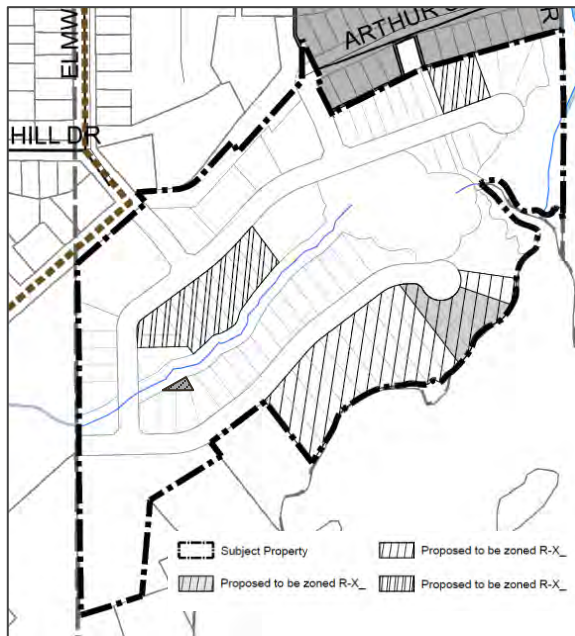
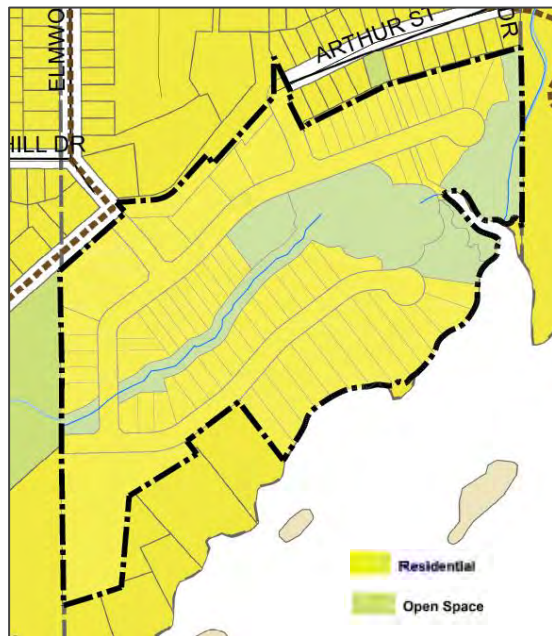
'Residential'

- Permits varied density of residential uses (low to high density)
- Proposal is consistent with the designation



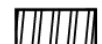
PROPOSED LAND USE

Amendments to the Development Permit By-law



 Proposed to be zoned R-X_

Holding provision requiring a Stage 4 Archaeological Assessment

 Proposed to be zoned R-X_

Lot frontage of 11 metres (from 15 metres)

 Proposed to be zoned R-X_

15 metre setback from the floodplain associated with the St. Lawrence River (from 30 metres)

TECHNICAL STUDIES

- **Planning Justification Report** – MHBC Planning
- **Archaeology Assessment (stage 1 -3)** - Abacus Archaeological Services
- **Stormwater Management Report** - Forefront Engineering Inc.
- **Servicing Options Report** - Forefront Engineering Inc.
- **Geotechnical Study** - Malroz Engineering Inc.
- **Environmental Impact Assessment** - WSP Canada Inc.
- **Traffic Impact Study** - GHD

PUBLIC FEEDBACK

Traffic

- Scope of traffic study
- Adjacent streets and intersections
- Traffic and pedestrian safety

Construction

- Truck routes, construction timeline
- Road safety

Density

- Increase density and unit types
- Include multi-storey condominium

Environment

- Habitat protection
- Natural features
- Tree preservation

Trail/waterfront access

- Waterfront trail
- Create waterfront recreation opportunities

Archaeology

- Stage 4 Assessment Areas

Flooding

- Flood risk and setback for lots along the St. Lawrence River

TRAFFIC

- Traffic Impact Study was completed by GHD.
- The TIS was completed based on a Terms of Reference approved by the Town. This confirmed the intersections to be studied, the timelines to be assessed, the study horizon, anticipated growth rates, anticipated development.
- The TIS was completed in the summer in order to capture traffic generated from tourism.
- Jewell Engineering completed a Peer Review of the study on July 21, 2026.
- GHD prepared a response to the Peer Review comments on July 27, 2026.
- The Draft Plan Conditions will require traffic calming measures and post-development analysis of traffic conditions. The Owner will be responsible for any additional traffic mitigation measures deemed to be required.

CONSTRUCTION

- Draft Plan of Approval Conditions will require the following, to the satisfaction of the Town:
 - Determination of construction traffic routes
 - Construction fencing along the development perimeter and around vegetation
 - Erosion and sediment control measures
 - Grading and drainage plan
 - Construction management plan, mud tracking prevention, sediment control and erosion prevention
- Construction phasing is anticipated to be 3 - 5 years

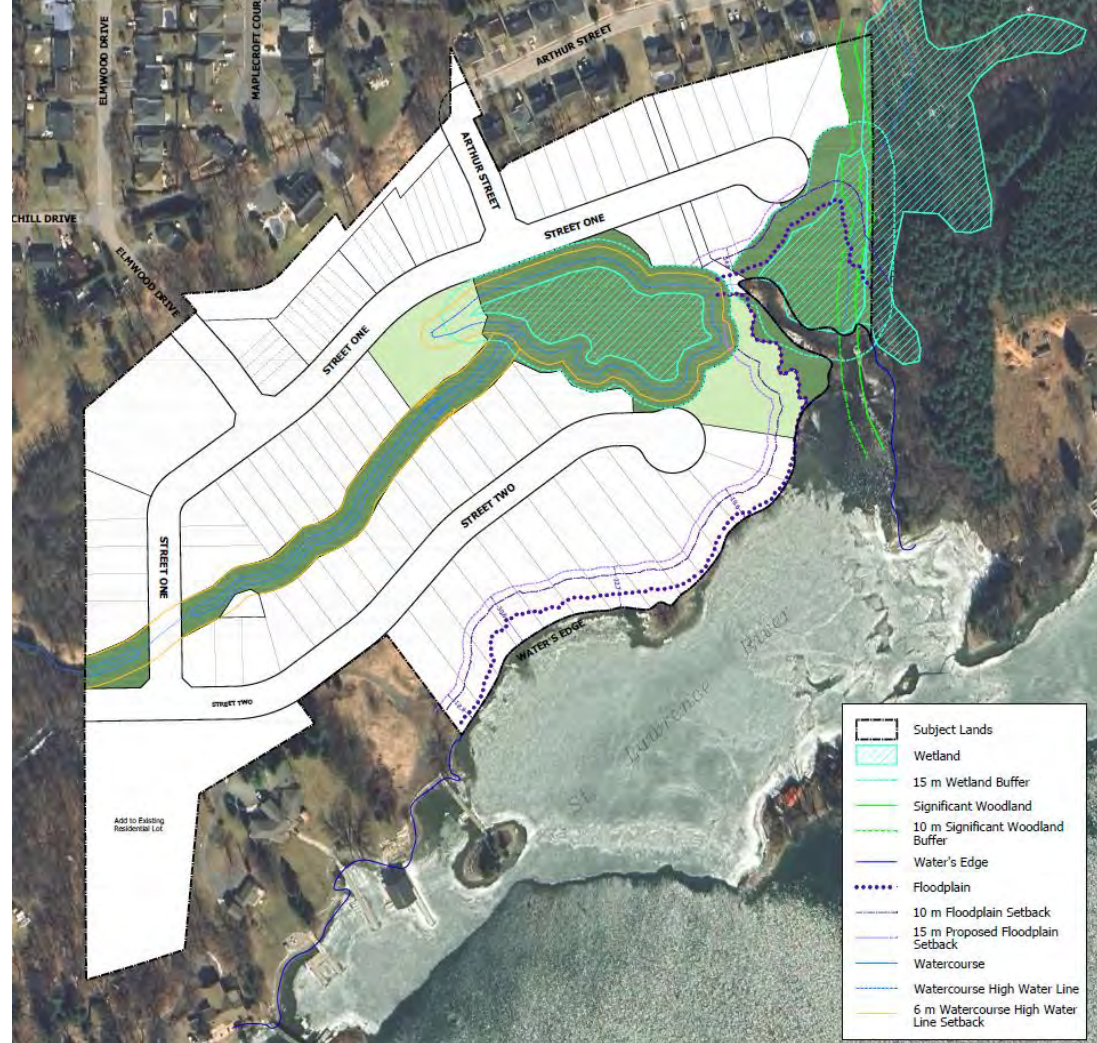
DENSITY

- Variety of housing types
 - 66 single family
 - 23 street townhouses
 - 14 multiple residential townhouses
- 16 singles with reduced lot frontage
- Built form is consistent with surrounding low-density neighbourhood
- 12 units per hectare required & 12 units per hectare proposed



ENVIRONMENT

- Environmental Impact Study was prepared and Peer Reviewed by Jewel Engineering
- Draft Plan of Approval conditions will ensure environmental protection:
 - Work plan for wetland improvements and enhancements
 - Require all mitigation measures recommended through EIS are implemented
- Draft Plan protects wetlands and significant habitat with appropriate buffers



TRAILS / WATERFRONT

- Subdivision will include a connection to the Town's existing trail system
- Public access to the waterfront will be provided enhancing current access and providing alternative active recreational opportunities
- Total park area provided is over 5,000m²
- Additional parkland dedication would be through cash-in-lieu

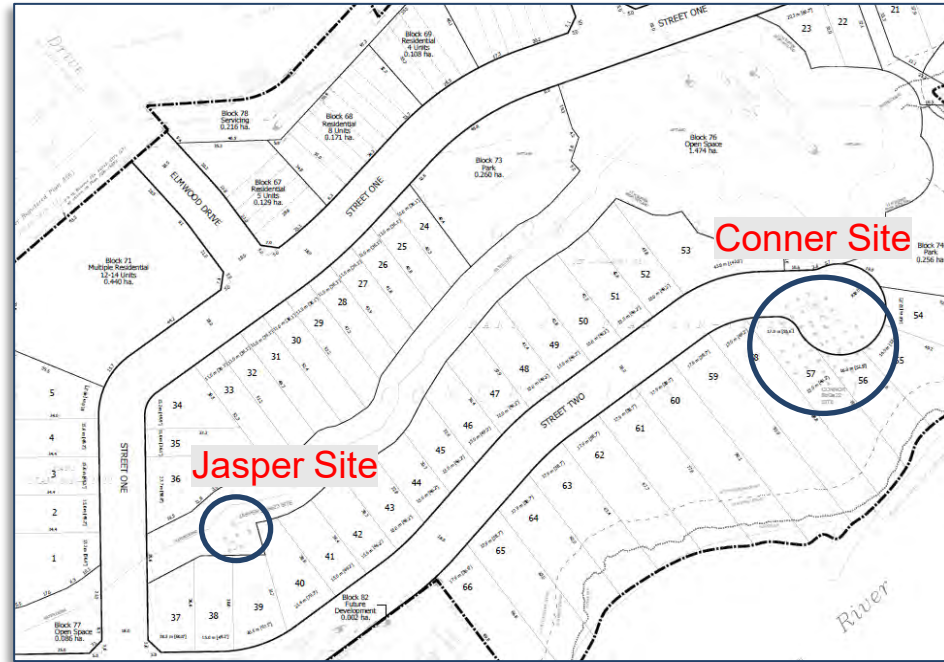


Park and Trail Map



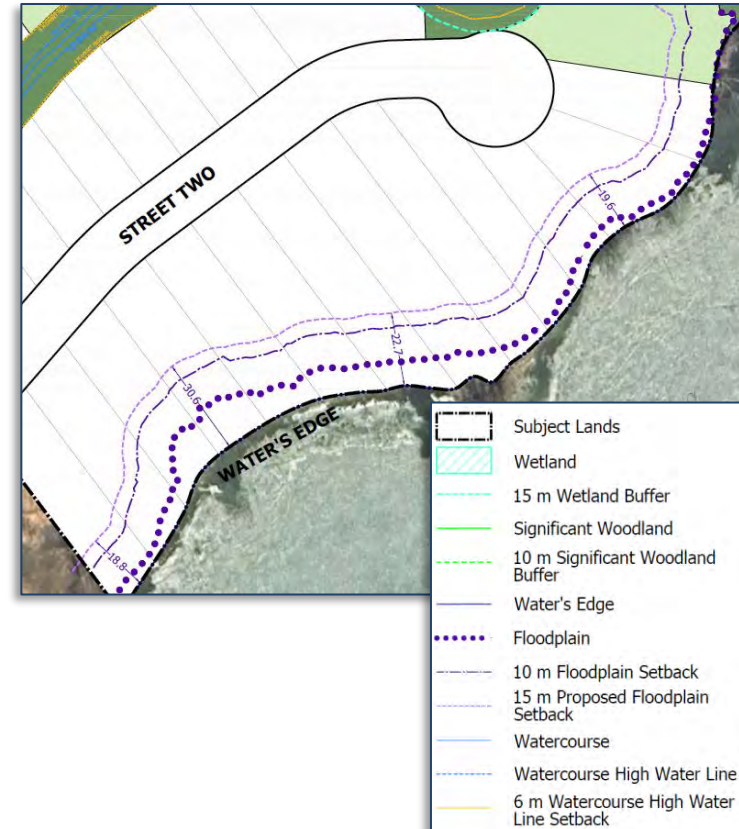
ARCHAEOLOGY

- Jasper and Conner sites will not be conveyed to the Town
- Both sites will be placed in separate blocks
- Stage 4 Archaeological Assessments will be required prior to development of each site
- Ministry approval will be required of the Archaeological Assessments



FLOODPLAIN – ST. LAWRENCE

- The Official Plan requires a 30 metre setback from the waterfront
- CRCA requires a 10 metre setback from buildings to the floodplain
- Floodplain limits are determined by CRCA based on recent mapping from February 2024
- The floodplain limit follows the regulated flood elevation and varies in distance from the water's edge based on topography (i.e. it's not a fixed setback, it can vary)
- A Floodplain Elevation and Setback Assessment was prepared, confirming that a 10 metre floodplain setback is adequate, in line with CRCA requirements
- The application proposes a 15 metre setback from the floodplain for all waterfront lots
- The overall setback to the water's edge varies, based on floodplain limits
- No development will be permitted in the floodplain



NEXT STEPS

- We support staff's recommendation that Council defer tonight's decision
- We request Council consider the applications at the September 2nd meeting
- We are working with the Town and CRCA on outstanding comments and will be resubmitting the Draft Plan
- We will work with the Town and CRCA on the Draft Plan conditions



Thank you

Report Council - FIN-2026-30

Date: September 2, 2026

☐ **IN CAMERA**

Subject: Council Benefits and OMERS Entitlement

Author: John Morrison, Treasurer

☒ **OPEN SESSION**

Recommendation:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE APPROVES OPTION #_____, AS PRESENTED IN REPORT COUNCIL FIN-2026-30.

STRATEGIC PLAN COMMENTS:

3. Cultivate a High-Performing and Future-Focused Municipal Team – 1) Invest in our people.

Background:

The purpose of this report is to respond to Motion #26-110 by outlining whether Council members could be provided medical, dental and OMERS coverage; summarizing available comparator information; identifying implementation choices; and presenting the associated financial and administrative implications for the Town of Gananoque.

At its regular Council meeting on June 3, 2026, Council passed Motion #26-110 directing staff to report on the potential cost of medical, dental and OMERS coverage for Council and to identify municipal comparator practices.

For planning purposes, staff used annual salaries of \$23,413 for the Mayor, \$19,664 for the Deputy Mayor, and \$16,709 for each of the five councillors, resulting in total modelled pensionable earnings of \$126,622. Estimates should be updated if remuneration or implementation timing changes.

INFORMATION/DISCUSSION

Policy and total-compensation context

Council remuneration should be considered as a complete package that may include salary, insured benefits, pension participation, allowances and expense reimbursement. Council should weigh equitable access to elected office, candidate attraction and retention, taxpayer affordability, transparency and consistency with municipal practice.

Health coverage may reduce a barrier for individuals without access to an employer-sponsored or retiree plan. OMERS would provide a retirement benefit but would also require member contributions and an equivalent Town contribution. The two components have different purposes and costs and may be considered separately.

Council service is an elected public office and is not the same as a conventional employment relationship. Any approved benefit or pension provision should be authorized expressly through the Council remuneration by-law and supporting policy.

Comparator survey findings

Staff reviewed 20 municipalities to determine whether health benefits are provided and whether Council participates in OMERS.

Eleven municipalities provide some form of health coverage and nine do not. Six participate in OMERS, 13 do not and one reports a hybrid arrangement. Health coverage is therefore more common than OMERS among the municipalities reviewed.

Municipality	Health benefits	OMERS	Notes
Prescott	No	No	
Edwardsburg Cardinal	Full	No	
Augusta	Full	No	
Brockville	Life only - \$25,000	No	
North Grenville	No	Yes	
Rideau Lakes	Full	Yes	
Front of Yonge	No	No	
Westport	No	No	
Merrickville-Wolford	No	No	
Athens	No	No	
TLTI	No	No	
Kincardine	Full	No	
Carleton Place	Full	Yes - recently started	
Grey Highlands	Full	Hybrid	Mayor in OMERS due to prior County employment; others receive 9% to RRSP
Kawartha Lakes	Full	No	
Russell Township	Full	Yes	
North Dundas	No	Yes	
Tweed	Full	No	
Stormont, Dundas and North Glengarry	No	Yes	
Marathon	Conditional	No	Coverage if no existing plan

Finding: 55% of the municipalities reviewed provide at least some health coverage. OMERS is reported by 30%, or 35% when the hybrid arrangement is included. The two benefits should therefore be considered separately.

Insured benefit coverage and cost implications

The Town benefits provider has confirmed that Council members would not be eligible for long-term disability (LTD) coverage. Council may be offered extended health care, dental, dependent life, basic life and accidental death and dismemberment (AD&D) coverage. Manulife has not yet provided a final determination on whether the basic life insurance maximum for Council would be \$10,000 or \$25,000. For planning purposes, staff have used a \$25,000 basic life benefit, which is the more conservative cost assumption and is consistent with the \$25,000 life benefit identified for Brockville in the comparator survey. AD&D has been costed at the same \$25,000 amount, consistent with the Town plan structure.

Benefit	Coverage limit
Extended health care	Ends at the earlier of age 70 or retirement
Dental	Ends at the earlier of age 70 or retirement

Benefit	Coverage limit
Basic life insurance	Council cap not yet confirmed by Manulife (\$10,000 or \$25,000); \$25,000 used for planning
Dependent life insurance	Ends at the earlier of the plan member reaching age 70 or retirement
AD&D	Costed at \$25,000 for planning, consistent with the assumed basic life amount
LTD	Not available to Council members

Because individual member elections are unknown, costs are shown as low and high scenarios. The low estimate of \$30,446.54 assumes all seven members elect single coverage. The high estimate of \$69,272.88 assumes all seven elect family coverage and is the proposed planning ceiling. These estimates exclude LTD, which is not available to Council, and use a \$25,000 basic life and AD&D amount pending final confirmation from Manulife.

Council position	Low - single	High - family
Mayor	\$4,349.51	\$9,896.13
Deputy Mayor	\$4,349.51	\$9,896.13
Councillor - each	\$4,349.51	\$9,896.13
Five councillors	\$21,747.53	\$49,480.63
All Council	\$30,446.54	\$69,272.88

The estimates include an 8% premium tax and use the \$3.60 monthly dependent-life rate stated in the benefit schedule. Vision (\$450 every two calendar years) and orthodontics (50% to a \$2,000 lifetime maximum) would continue to be paid as used under the administrative plan. If Manulife ultimately confirms a \$10,000 rather than \$25,000 basic life limit, the annual insured-benefit estimate would be approximately \$493 lower for all seven Council members combined.

OMERS implications

If Council is eligible and elects to participate in OMERS, member contributions would be matched by the Town. Effective January 1, 2027, the OMERS contribution rate for NRA 65 members on earnings below the YMPE is 8.6%. Using modelled pensionable earnings of \$126,622, the annual Town contribution is estimated at \$10,889.49. Actual contributions would follow confirmed OMERS eligibility and per-pay-period rules.

Planning basis	Pensionable earnings	Potential Town cost at 8.6%
Mayor	\$23,413	\$2,013.52
Deputy Mayor	\$19,664	\$1,691.10
Five councillors	\$83,545	\$7,184.87
All Council	\$126,622	\$10,889.49

Options

Option	Potential annual cost	Advantages	Considerations
1 - Status quo	\$0	No new cost	Does not address benefit access
2 - Insured benefits	\$30,447 - \$69,273	Addresses access; more common comparator practice	Actual cost depends on elections; usage claims extra
3 - OMERS only	\$10,889	Adds retirement benefit	Less common comparator practice
4 - Combined	\$41,336 - \$80,162	Most complete package	Highest potential cost; usage claims extra

Council may choose to maintain the status quo, provide insured benefits, extend OMERS participation, approve a combined package, or provide other direction. The revised insured-benefit costing reflects the confirmed exclusion of LTD and uses a \$25,000 life and AD&D planning assumption pending Manulife's final confirmation.

APPLICABLE POLICY/LEGISLATION:

Council remuneration by-law and applicable OMERS plan requirements, if Council selects pension participation.

FINANCIAL CONSIDERATIONS:

Component	Potential amount	Planning basis
Low insured-benefit scenario	\$30,446.54	All seven elect single coverage; \$25,000 life/AD&D; no LTD
High insured-benefit scenario	\$69,272.88	All seven elect family coverage; \$25,000 life/AD&D; no LTD; proposed ceiling
Vision exposure	Up to \$3,150 every two years	Paid only when used
Orthodontic exposure	Up to \$14,000 lifetime	Paid only when used
Potential OMERS Town contribution	\$10,889.49	2027 planning estimate at 8.6%
Combined low scenario	\$41,336.03	Benefits plus OMERS; excludes usage claims
Combined high scenario	\$80,162.38	Benefits plus OMERS; excludes usage claims

All amounts are potential planning costs. Actual benefit costs will depend on individual single or family elections, administrative-plan claims, Manulife's final confirmation of the Council life-insurance cap and rates in effect at implementation. Actual OMERS costs would depend on confirmed eligibility, contribution rates and pensionable earnings.

CONSULTATIONS:

Town benefits provider/insurer, OMERS and municipal comparator information.

ATTACHMENTS:

1. Cost of Council Benefits – Revised

APPROVAL	John Morrison, Treasurer Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions follow Council's own policies and guidelines and the <i>Municipal Act</i> and regulations. Melanie Kirkby, CAO
-----------------	---

Employee Life Insurance

Life insurance coverage is equal to two times annual earnings, rounded up to the next \$1,000, to a maximum coverage amount of \$280,000.

Monthly premium rate:

\$0.316 per \$1,000 of coverage

Dependant Life Insurance

Premiums are fixed.

\$3.60 per month

Accidental Death & Dismemberment (AD&D)

AD&D coverage is equal to the Employee Life Insurance coverage amount.

Monthly premium rate:

\$0.046 per \$1,000 of coverage

Extended Health Care and Dental

Premiums are fixed monthly amounts based on the coverage option selected.

Monthly		
	Family	Single
EHC	\$591.15	\$248.90
Dental	\$159.79	\$74.06

Orthodontics and Vision are on an administrative plan and covered separately.

Paramedical Benefits Coverage

Benefit	Coverage
Vision Care	\$450 every 2 calendar years
Prescription Drugs	100% coverage
Chiropractic	\$1,500/year
Massage Therapy	\$1,500/year
Physiotherapy	\$1,000/year
Psychology/Counselling	\$500/year
Emergency Travel Medical	100% coverage, up to \$5,000,000 lifetime
Orthodontics	50% reimbursement, up to \$2,000 lifetime maximum
Hearing Aids	\$500 every 5 years

Private Duty Nursing

\$10,000/year

OMERS

Part-time employees, have the option to enroll in the Ontario Municipal Employees Retirement System (OMERS) pension plan, subject to OMERS eligibility requirements and applicable legislation. Once you enroll in the OMERS pension plan, participation is mandatory for the duration of your eligible employment, and you may not opt out of the plan while employed in a qualifying position. Returning seasonal employees who were previously enrolled in OMERS will continue participation and contributions upon re-employment in an eligible position.

Contributions are equal to 9% of pensionable earnings deducted each pay period. The Employer matches contributions at a rate of 100%, in accordance with OMERS regulations.

	All of Council					
Manulife			Other Benefits		OMERS	
Family Coverage		\$69,272.88	Vision	\$3,150.00	Mayor	\$2,013.52
Single Coverage		\$30,446.54	Orthodontics	\$14,000.00	Deputy Mayor	\$1,691.10
					Councilors	\$7,184.87
Planning assumptions		Council LTD not available; Basic Life and AD&D costed at \$25,000 pending Manulife confirmation;			Annual Total (2027 @ 8.6%)	\$10,889.49
Family Coverage						

Mayor				Deputy Mayor				Councilors x5			
Annual Salary		23,413		Annual Salary		19,664		Annual Salary		16,709	
Benefit	Coverage	Monthly Premium	Annual Premium	Benefit	Coverage	Monthly Premium	Annual Premium	Benefit	Coverage	Monthly Premium	Annual Premium
Employee Life	\$25,000	\$7.90	\$94.80	Employee Life	\$25,000	\$7.90	\$94.80	Employee Life	\$25,000	\$7.90	\$94.80
Dependant Life		\$3.60	\$43.20	Dependant Life		\$3.60	\$43.20	Dependant Life		\$3.60	\$43.20
AD&D	\$25,000	\$1.15	\$13.80	AD&D	\$25,000	\$1.15	\$13.80	AD&D	\$25,000	\$1.15	\$13.80
LTD - not available to Council	Not available	\$0.00	\$0.00	LTD - not available to Council	Not available	\$0.00	\$0.00	LTD - not available to Council	Not available	\$0.00	\$0.00
EHC		\$591.15	\$7,093.80	EHC		\$591.15	\$7,093.80	EHC		\$591.15	\$7,093.80
Dental		\$159.79	\$1,917.48	Dental		\$159.79	\$1,917.48	Dental		\$159.79	\$1,917.48
*Vision				*Vision				*Vision			
*Orthodontics				*Orthodontics				*Orthodontics			
Total Insured Premium		\$763.59	\$9,163.08	Total Insured Premium		\$763.59	\$9,163.08	Total Insured Premium		\$763.59	\$9,163.08
Premium Tax (8%)		\$61.09	\$733.05	Premium Tax (8%)		\$61.09	\$733.05	Premium Tax (8%)		\$61.09	\$733.05
Total Cost		\$824.68	\$9,896.13	Total Cost		\$824.68	\$9,896.13	Total Cost		\$824.68	\$9,896.13

Single Coverage											
Mayor				Deputy Mayor				Councilors x5			
Annual Salary		23,413		Annual Salary		19,664		Annual Salary		16,709	
Benefit	Coverage	Monthly Premium	Annual Premium	Benefit	Coverage	Monthly Premium	Annual Premium	Benefit	Coverage	Monthly Premium	Annual Premium
Employee Life	\$25,000	\$7.90	\$94.80	Employee Life	\$25,000	\$7.90	\$94.80	Employee Life	\$25,000	\$7.90	\$94.80
Dependant Life		\$3.60	\$43.20	Dependant Life		\$3.60	\$43.20	Dependant Life		\$3.60	\$43.20
AD&D	\$25,000	\$1.15	\$13.80	AD&D	\$25,000	\$1.15	\$13.80	AD&D	\$25,000	\$1.15	\$13.80
LTD - not available to Council	Not available	\$0.00	\$0.00	LTD - not available to Council	Not available	\$0.00	\$0.00	LTD - not available to Council	Not available	\$0.00	\$0.00
EHC		\$248.90	\$2,986.80	EHC		\$248.90	\$2,986.80	EHC		\$248.90	\$2,986.80
Dental		\$74.06	\$888.72	Dental		\$74.06	\$888.72	Dental		\$74.06	\$888.72
*Vision				*Vision				*Vision			
*Orthodontics				*Orthodontics				*Orthodontics			
Total Insured Premium		\$335.61	\$4,027.32	Total Insured Premium		\$335.61	\$4,027.32	Total Insured Premium		\$335.61	\$4,027.32
Premium Tax (8%)		\$26.85	\$322.19	Premium Tax (8%)		\$26.85	\$322.19	Premium Tax (8%)		\$26.85	\$322.19
Total Cost		\$362.46	\$4,349.51	Total Cost		\$362.46	\$4,349.51	Total Cost		\$362.46	\$4,349.51

*This benefit is on a different benefits plan where we only pay when the benefit is used.

Council Report – FIN-2026-31

Date: September 2, 2026 ☐ **IN CAMERA**

Subject: Municipal Accommodation Tax (MAT) Revenue Report

Author: Tanya Dallaire, Deputy Treasurer ☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES FOR INFORMATION, THE SUMMARY OF MUNICIPAL ACCOMMODATION TAX (MAT) REVENUE, AS PRESENTED IN COUNCIL REPORT FIN-2026-31

STRATEGIC PLAN COMMENTS:

2 Champion a Strong and Sustainable Local Economy

2) Invest in tourism development, employment and industry growth to bolster long-term economic resilience.

BACKGROUND:

The intent of this report is to provide Council with a summary of Municipal Accommodation Tax (MAT) revenue from the program's inception October 31, 2019 through to July 31, 2026.

Municipal Accommodation Tax (MAT) is a tax charged on the purchase of short-term accommodations, such as hotel rooms, motels, inns, bed-and-breakfasts, and some vacation rentals. The tax is collected from visitors and remitted to the municipality. The tax is applied to accommodation charge before HST. Accommodation providers collect the tax from guests and remit it to the municipality on a quarterly basis. The tax is paid primarily by visitors rather than local residents.

The current rate for MAT for the Town of Gananoque is 4%.

INFORMATION/DISCUSSION:

Since its inception, the Municipal Accommodation Tax (MAT) has raised \$2,137,671 for the Town of Gananoque.

The following is a summary MAT revenue earned by year and by quarter:

Year	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Total
2019				324	324
2020	18,550	7,987	107,829	19,796	154,161
2021	9,095	17,764	179,704	50,331	256,895
2022	16,784	84,274	210,232	69,490	380,780
2023	21,511	84,404	233,097	57,189	396,201
2024	22,394	103,556	195,378	52,251	373,579
2025	25,984	97,050	267,987	67,746	458,768
2026	20,441	96,522	-	-	116,964
Total	134,759	491,557	1,194,227	317,128	2,137,671

As indicated in previous reports, MAT collected and remitted was adversely impacted by the COVID-19 pandemic but has continued to recover from 2022 to 2026.

On quarterly MAT returns, accommodation providers are required to report total accommodations revenue and the number of room-nights that correspond to the MAT collected and remitted.

Across all accommodation providers, it is estimated that the Town of Gananoque has 650 rooms available.

Based on the room-night information collected through quarterly MAT returns, the following is the estimated combined % occupancy by year and by quarter:

Year	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Total
2019				0%	0%
2020	5%	1%	29%	5%	10%
2021	3%	6%	53%	17%	19%
2022	7%	39%	56%	24%	31%
2023	4%	29%	53%	20%	26%
2024	7%	25%	40%	15%	22%
2025	11%	33%	68%	25%	34%
2026	9%	27%			18%

Some accommodation providers choose to open seasonally from approximately May to October. When closed, accommodation providers are required to file “nil” MAT returns.

APPLICABLE POLICY/LEGISLATION:
Town of Gananoque By-law No. 2019-058

FINANCIAL CONSIDERATIONS:
To keep municipal accommodation tax rate status-quo at 4% or consider an increase or decrease to meet the needs of accommodation providers and the Town.

CONSULTATIONS:
None

ATTACHMENTS:
None

APPROVAL	Tanya Dallaire, Deputy Treasurer John Morrison, Treasurer Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions follow Council's own policies and guidelines and the <i>Municipal Act</i> and regulations. Melanie Kirkby, CAO
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Report Council – UTIL-2026-15

Date: September 2, 2026 ☐ **IN CAMERA**
Subject: East End Pumping Station (EEPS) – Monthly Project Update
Author: David Armstrong, Manager of Public Works ☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVE THE EAST END PUMPING STATION – MONTHLY PROJECT UPDATE REPORT FOR INFORMATION, AS PRESENTED IN REPORT COUNCIL UTIL-2026-15.

STRATEGIC PLAN COMMENTS:

Priority 1 - PROVIDE QUALITY CORE SERVICES AND INFRASTRUCTURE.

Strategy 1 – Review, prioritize, and deliver core services according to responsible and sustainable service levels.

BACKGROUND:

Council requested a monthly update from Town staff for the East End Pumping Station project going forward at the regular Council meeting on June 3, 2026.

INFORMATION/DISCUSSION:

Project Status

Construction of the East End Sewage Pumping Station continued to advance during July 2026. Work is increasingly transitioning from major structural and building construction toward mechanical/electrical completion, controls, site works, testing and commissioning. Approximately \$8.06 million in work completed to date, before statutory and maintenance holdbacks and HST. Approximately \$458,800 of additional work was completed during the July billing period.

Major Progress During July

Significant progress was achieved on the building envelope. The preformed metal roofing reached 100% completion, aluminum windows increased from 10% to 100%, hollow metal doors reached 100%, and additional sealant and firestopping work was completed.

Mechanical and civil work also continued. Process piping advanced to approximately 93% complete, excavation and backfilling reached approximately 94%, and the 400 mm forcemain work is reported at approximately 90% complete. Electrical installation progressed substantially during the month.

Underground ducts, conduits and wiring reached approximately 98% complete, with continued work on wiring, conduit systems, transformers, disconnects, lighting and communications. Control panels are approximately 82% complete and control/instrumentation materials approximately 93% complete.

Forcemain / Change Work

In July several recently completed pending change items associated with ongoing field conditions, including the new watermain configuration (CCD-015), entrance tube removal (CCD-018), MH23 riser section (CCD-017), unforeseen additional obstructions, and existing forcemain subsurface investigations (CCD-019).

Work Remaining

Major activities remaining before the facility can be fully commissioned include:

- completion of remaining mechanical, electrical and instrumentation installations;
- completion of remaining works for WW #1 chamber modifications, process piping, valve chamber installation, flow meter chamber installation and pump refurbishments;
- PLC/SCADA programming, control narratives and system integration;
- New east and west forcemain relocation;
- emergency power operational and full-load testing;
- commissioning and operator training;
- preparation of O&M manuals and as-built drawings;
- completion of remaining forcemain-related work (hot tap and line stop installations and final connection to existing forcemain); and
- final site restoration, including fencing, asphalt, topsoil and seeding.

Overall Assessment

The project made substantial progress during July, particularly with completion of the building envelope and advancement of process piping and electrical work. The project is now moving toward the critical systems-integration and commissioning phase.

APPLICABLE POLICY/LEGISLATION:

N/A

FINANCIAL CONSIDERATIONS/GRANT OPPORTUNITIES:

June invoice submitted, reviewed, and approved for payment in late July. July invoice submitted and is currently under review. All invoiced items are within approved budgeted amounts.

CONSULTATIONS:

Don Richards – Water & Wastewater Utilities Projects Manager
Matthew Marcuccio – Sr. Environmental Engineer, JLR
Matt Hoult – Water & Wastewater Superintendent
Bob Luciano – Project Manager, Kingdom Construction Limited

ATTACHMENTS:

N/A

APPROVAL	_____ David Armstrong, Manager of Public Works _____ John Morrison, Treasurer Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions are in compliance with Council's own policies and guidelines and the <i>Municipal Act</i> and regulations. _____ Melanie Kirkby, CAO
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Report Council – CAO-2026-12

Date: September 2, 2026 ☐ **IN CAMERA**

Subject: Mayoral Directive 2026-007 2027 Budget Directives – Ontario Provincial Police (OPP) Costing Estimate

Author: Melanie Kirkby, CAO ☒ **OPEN COUNCIL**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE REQUESTS FROM THE ONTARIO PROVINCIAL POLICE (OPP) A COSTING ESTIMATE REPORT, AS PER MAYORAL DIRECTIVE 2026-007, 2027 BUDGET DIRECTIVES, AND AS PRESENTED IN REPORT COUNCIL-CAO-2026-12.

STRATEGIC PLAN COMMENTS:

Priority -1. Provide Quality Core Services and Infrastructure

Strategy - 1) Review, prioritize and deliver core services based on responsible and viable service levels.

Priority - 2 - Champion a Strong and Sustainable Local Economy

Strategy - 2 - Invest in tourism development, employment and industry growth to bolster long term economic resilience.

Strategy - 3 Improve the conditions and opportunities for planned, responsible housing.

BACKGROUND:

On August 21st, 2025, Mayor Beddows issued Mayoral Directive 2026-007 -Planning guidance and supplemental directive to the Treasurer and the CAO on the preparation of the 2027 Operating and Capital Budgets, reflective of the Corporation of the Town of Gananoque's current levels of service and the Asset Management Plan.

Section 2. The CAO will initiate and lead staff level discussions with neighbouring municipalities and explore and conduct a comparative analysis of options to reduce the impact of cost of policing in Gananoque on taxpayers. The choice of method of delivery of police services is a Council question, and completely under the authority of municipal councils. With the permission of the Police Service Board, the Chief of the Gananoque Police Service is to be leveraged as an expert advisor by staff and Council.

Options to explore include:

- Entering into an agreement to create a regional police force to create scale and economy in the administration of delivery of police services,
- OPP contract services - Understanding that there is a significant upfront cost to converting to OPP services, the full cost of conversion is to be provided, including a best estimate of all labour and contract costs and the increased cost of operating the Emergency Services Building without full occupancy. To be factored is a realistic appreciation of the
- Actual cost of OPP services
- Retain status quo.
- Concluding report to enable an objective cost-benefit analysis that informs a value proposition to taxpayers by Council.

INFORMATION/DISCUSSION:

As indicated by Gananoque Police Chief Rich Swann, in order to request an OPP cost estimate for service, Council would need to pass a motion requesting the estimate from the Ontario Provincial Police (OPP).

APPLICABLE POLICY/LEGISLATION:

Community Safety and Policing Act 2019

FINANCIAL CONSIDERATIONS:

As described.

CONSULTATIONS:

Police Chief, Rich Swann

ATTACHMENTS:

N/A

APPROVAL	Melanie Kirkby, CAO Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions follow Council's own policies and guidelines and the <i>Municipal Act</i> and regulations.
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Council Report – RDS-2026-18

Date: September 2, 2026 ☐ **IN CAMERA**
Subject: Public Works Yard Closure
Author: David Armstrong, Manager of Public Works ☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE DIRECT STAFF TO PURSUE OPTION #__ OF THE FOLLOWING REPORT AND REPORT BACK TO COUNCIL ON THE PROGRESS IN THE FIRST QUARTER OF 2027, AS PRESENTED IN REPORT COUNCIL RDS-2026-18.

STRATEGIC PLAN COMMENTS:

PROVIDE QUALITY CORE SERVICES AND INFRASTRUCTURE – Review, prioritize, and deliver core services according to responsible and sustainable service levels.

BACKGROUND:

The Public Works Yard, located at 665 Charles St. N. previously operated as a landfill under Ministry approval until August 1st, 1972, when the landfill was closed. There are historic records of communication between the Ministry and the Town between 1972 and 1987 where the Ministry encouraged the Town to apply for a waste transfer station, however, this seemingly was never accomplished. On November 4th, 1987, the Ministry delivered a notice to the Town revoking their approval. Currently, there is no MECP approval in place for the Site. Below is a topographic picture with an outline of the landfill area circa 1971:



Current staff are not aware of when the operations commenced or continued, however the Public Works Yard has been operating as an illegal waste transfer station. Some of the more recent activities at the Site have been:

- Leaf & Yard waste disposal
- E-Waste recycling
- Steel and metal recycling
- “Dump Day” disposal event
- Brush disposal

Below is a more current topographic picture with an outline of the landfill area circa 2024:



Staff reached out to the Ministry of Environment, Conservation, and Parks (MECP) in the Spring of 2025 to request guidance regarding how to properly handle and dispose of contaminated material that was recovered from a fuel spill from a commercial truck in town. The Inspector met with Public Works staff on site at 665 Charles St. N. and provided an Inspection Report following that visit. The action required of the Town from that visit were as follows:

The Town of Gananoque is required to retain a qualified person (QP) by August 31, 2025. Once retained, the QP is then to establish written contact with the undersigned Environmental Compliance Officer by August 31, 2025 confirming they have been retained and their qualifications. All on site excess soil stockpiles, and the stockpile of oil and grit separator material shall be characterized. MECP may request that these stockpiles be removed from Site if necessary.

AND

The Town of Gananoque is required to provide a plan detailing how they intend to manage the asphalt on Site by September 30, 2025.

Town staff engaged with Cambium Inc. in August 2025 and have been working with them for the last 12 months to satisfy the corrective actions originally requested by the MECP.

Throughout the last 6 months, staff were acting on the deadline date of ceasing non-field operation activities at the Public Works Yard before October 31st, 2026, however that date was provided by the MECP to remove all current materials that had been received at the site; the deadline date of ceasing non-field operation activities and receiving materials at the site was August 1st, 2026. Public Works staff had internal discussions on August 18th and 19th and ultimately decided it was in the best interest of the Town to close the Public Works Yard to the public and cease receiving any materials.

INFORMATION/DISCUSSION:

Removal of Received Materials

At the request of the MECP, staff arranged to have the existing stockpiles of excess soil tested and analyzed for contamination under O. Reg. 406/19 *On-Site and Excess Soil Management*. Below is a surveyed topographic picture of the stockpiles that were on site in late 2025:



Stockpile 1 (approximately 195 m³) was deemed contaminated and was removed from the site in 2026 to an approved receiving facility. There has been further technical review from MECP that has not been completed yet, but it is likely that the remaining volume of stockpiles on the site can be left and re-used in the future, under reporting guidelines through O. Reg. 406/19.

For context, Stockpile 2 is approximately 497 m³, Stockpile 3 is approximately 1,148 m³, Stockpile 4 is approximately 587 m³, and Stockpile 5 is approximately 473 m³.

Staff are currently working with a local contractor to remove the leaf, yard, and organic waste materials from the site, and the concrete and asphalt materials are going to be taken to a recycling facility for re-use. Below are current pictures of what is on site:



Brush Pile



Wood Chips and Bulk Wood from Tree Removal Operations



Asphalt



Concrete

The above noted items – except for the excess soil stockpiles – must be removed from the site no later than October 31st, 2026.

Groundwater Discharge

As staff worked through the corrective action items with the MECP, a resident called Town Hall on June 4th, 2026 to report a seeping liquid that was coming up out of the ground and running into Stocking Hill Creek along the trail that runs through 665 Charles St. N. Staff visited the area where the resident claimed to have witnessed the discharge. Staff took photos of the area and reported the incident to the MECP's Spills Action Centre (SAC). Below is a picture from the initial site visit on June 5th, 2026:



Trail Bridge at Stocking Hill Creek

Staff reached out directly to the MECP Inspector to discuss the report to SAC and to seek guidance on what would be required from the Town with this instance. Staff arranged to take samples over the weekend of June 6th, 2026 and take daily pictures to allow for staff and the MECP to monitor the discharge. The Ministry visited the site later in June and took further samples. To date the Town has not received the results of the MECP samples. Staff continue to monitor this area at the request of the MECP. A further picture of the discharge on June 18th, 2026 is below:



Discharge near Stocking Hill Creek

The groundwater discharge issue is still under review and discussion with the MECP. This same type of discharge was previously reported to SAC in 2023 and discussed between Town staff and the MECP.

Ministry Requirements and Corrective Action

In June 2025, MECP conducted an inspection of the municipal works yard, located at 665 Charles Street N. The inspection identified that the property was being used as waste transfer site for leaf and yard waste, e-waste, scrap metal and other wastes generated through municipal infrastructure activities without an Environmental Compliance Approval as required under the Environmental Protection Act.

In response, the ministry required the municipality to submit an action plan to address the compliance issues identified during the inspection. In November 2025, the municipality submitted an action plan outlining two options for future activities at the site:

1) Implement operational changes to allow for some of the activities previously occurring at the site to continue under field exemptions within Regulation 347 of the Environmental Protection Act or;

2) Submit an Environmental Compliance Approval Application to seek approval for previous waste management activities that were occurring at the site.

Field exemptions only apply to sites whose primary function is not for waste management purposes and accepts waste from operations occurring in the field (for example municipal road infrastructure waste can be bulked and stored at a municipal yard for disposal). Town staff had back and forth discussions with the MECP and Cambium Inc. regarding these options and was later notified by the MECP that they would require groundwater monitoring at the site due to the historical component of the closed landfill, paired with the continued acceptance of waste to the site since the landfill closure in 1972. Town staff worked with Cambium Inc. to prepare a monitoring plan and submitted this proposed plan to the MECP on May 29, 2026. There has been back and forth on the final decision for this monitoring to be implemented and the MECP should confirm direction in the Fall of 2026.

The municipality subsequently confirmed their preferred scenario would be to operate under existing 'Field Operations' provisions in Regulation 347 and advised that they were undertaking planning for an alternative leaf and yard waste collection mechanism. The current solid waste collection contractor submitted provisional pricing to undertake curbside collection of leaf and yard waste as part of their tender submission in 2025. Staff have discussed this with the contractor and are implementing this collection in the Fall of 2026.

On March 25th, 2026, MECP advised the municipality that drop-offs to the site must cease by August 1st, 2026, and that all waste generated from non-field operations activities must be removed from the site by August 14th, 2026. Following a request from the municipality, the ministry extended the waste removal deadline to October 31st, 2026. Town staff have been actively in discussions with the MECP throughout this process seeking to find the best solution for the site and the benefits to the residents of Gananoque.

Environmental Compliance Approval (ECA) Process & Estimated Costs

While the process can be lengthy and costly, this is an option for the Town to pursue. A typical application for this site should take between 12 – 24 months to complete from project initiation to approval, with an estimated cost of \$100,000 - \$250,000 in consulting/design/application costs. A more complex site (i.e. a closed landfill site) can exceed both the timeline and the projected costs. The MECP currently states that they have a one-year service standard for most ECA applications, although actual timing can be shorter or longer depending on application quality, responses to questions and consultation requirements.

For a waste transfer station, MECP requires key technical submissions such as a Design and Operations Report and Stormwater Management Report.

Phase	Typical Duration	Comments
Initial feasibility / regulatory review	1–2 months	Confirm ECA pathway, waste types, capacity, zoning, EA requirements
Pre-consultation with MECP	1–2 months	Recommended for a municipal project
Technical studies & preliminary design	3–6 months	Site plan, D&O report, stormwater, noise, odour, traffic, etc.
ECA application preparation	1–2 months	Assemble technical package and application
MECP completeness/screening	~1–3 months	May generate requests for additional information
MECP technical review	~6–12+ months	Main uncertainty
Public/agency consultation	Concurrent	Can extend schedule depending on project
Responses/revisions/final approval	2–6 months	Highly dependent on comments
Overall	12–24 months	~15–18 months is a reasonable target for planning

These materials typically address the site layout and surrounding land uses; waste types, sources, quantities, storage and facility capacity; hours of operation; site access, truck movements and waste flow; building and floor design; dust, litter, odour, noise and traffic controls; site security, emergency procedures, monitoring, inspection, and closure planning. MECP's checklist also requires details on zoning, nearby residences, equipment and waste-flow arrangements. For a municipal facility, staff should review traffic, noise, odour, stormwater, servicing, drainage and land-use compatibility early in the process.

Item	Preliminary budget
ECA regulatory strategy / pre-consultation	\$10k–\$25k
ECA application + Design & Operations Report	\$30k–\$60k
Stormwater/drainage engineering	\$15k–\$40k
Noise assessment	\$10k–\$25k
Odour assessment/management	\$10k–\$30k
Traffic/access assessment	\$10k–\$30k
Site/environmental investigations	\$10k–\$40k
Civil/site engineering & drawings	\$20k–\$60k
Consultation/MECP responses/revisions	\$15k–\$40k
Approximate professional/ECA budget	\$100k–\$250k+

These are planning-level estimates, not provincial fee schedules. Actual costs may vary significantly based on whether the facility is enclosed or outdoors, the waste streams handled, site drainage, nearby residences, existing municipal infrastructure, and how much design work is already complete. Staff have discussed the ECA process with a few members of Council already, and there is an understanding that some discussion has already occurred with the Ministry to request a streamlining of our application, if that is the direction of Council.

Options for Council

- Option 1: Direct staff to maintain ceased transfer station operations at 665 Charles St. N. and review Monitoring Plan once approved by MECP.
- Option 2: Direct staff to complete the ECA application and review technical requirements once received by the MECP, and review Monitoring Plan once approved by MECP.
- Option 3: Direct staff to continue to explore alternative waste disposal and recycling options, and review Monitoring Plan once approved by MECP.

APPLICABLE POLICY/LEGISLATION:

O.Reg. 347 Environmental Protection Act

O. Reg. 406/19 Rules for Soil Management and Excess Soil Quality Standards

Guidance Manual for Landfill Sites Receiving Municipal Waste (MOEE, 1993)

Landfill Standards: A guideline on the regulatory and approval requirements for new or expanding landfilling sites (MECP, 2021)

Monitoring and Reporting for Waste Disposal Sites, Groundwater and Surface Water, Technical Guidance Document (MOE, 2010)

FINANCIAL CONSIDERATIONS/GRANT OPPORTUNITIES:

The certain costs going forward are as follows:

- Groundwater Monitoring & Reporting - \$4,000 to \$20,000 annually (depending on the decision by the MECP to accept groundwater samples directly from Stocking Hill Creek, or to implement the requirement of test wells to be installed, or both)

Projected and tentative costs are as follows:

- ECA application and process - \$100,000 to \$250,000+ (one-time)
- Administration, Maintenance, and Reporting - \$10,000 to \$50,000 annually (could mostly be absorbed by tentative increased staffing resources)

CONSULTATIONS:

Ben Mac Neil, Compliance Coordinator

Brock Webb, Superintendent of Roads

Gary Muloin, Waste Resources Management Integrated Programs, Cambium Inc.

Alexander Marunde, Environmental Compliance Office, MEC

ATTACHMENTS:

MECP – Site Inspection Report on June 17, 2025

Cambium – Excess Soil Characterization Report, December 3, 2025

Cambium – Historical Landfill Assessment Report, May 29, 2026

APPROVAL	David Armstrong, Manager of Public Works John Morrison, Treasurer Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions are in compliance with Council's own policies and guidelines and the <i>Municipal Act</i> and regulations. Melanie Kirkby, CAO
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GANANOQUE WASTE TRANSFER STATION
Physical Address: 665 Charles St. N, Gananoque, ON K7G 1N8

INSPECTION REPORT

Entity: CORPORATION OF THE TOWN
OF GANANOQUE
Inspection Start Date: June 17, 2025
Site Inspection Date: June 17, 2025
Inspection End Date: July 31, 2025
Inspected By: Alexander Marunde
Badge #: P1545



(signature)

INTRODUCTION

Purpose

Following correspondence with Utilities Compliance Coordinator - Christine Brennan of the Town of Gananoque (the Town) on June 13, 2025, Ministry of the Environment, Conservation and Parks (MECP) officer Alexander Marunde believed that the Town may be operating a waste disposal site at 665 Charles St. N, Gananoque, ON (the Site) without an Environmental Compliance Approval. The purpose of the inspection completed on June 17, 2025 was to gather information regarding site conditions to assess compliance with the Environmental Protection Act and associated regulations.

Facility Contacts and Dates

Christine Brennan - Utilities Compliance Coordinator
Brock Webb - Roads Superintendent
Michelle Jones - Township Clerk
David Armstrong - Public Works Manager

Permissions/Approvals

The Site previously operated as a landfill under CofA A440201 until August 1, 1972 when the landfill was closed. There are historic records of communication between MECP and the Town, where the MECP encouraged the Town to apply for a waste transfer station, however, this seemingly was never accomplished. On November 4, 1987, MECP delivered a notice to the Town revoking their approval. Currently, there is no MECP approval in place for the Site.

Background and Compliance

During the inspection completed on June 17, 2025, it was determined by MECP Officer A. Marunde that the Site was being operated as a waste disposal site for the following reasons:

- The township utilizes Waste Connection bins to hold domestic waste collected by public works from township owned properties and receptacles; bins are emptied on an as need basis.
- There was brush and yard waste being accepted at the Site from the general public, which is supported by attestation from township personnel, and there is a gate along James A. Brennan Rd. with posted signage advertising "BRUSH AND YARD WASTE DROP OFF WED & SAT 8AM TO 12PM MAY TO NOV". Yard waste is managed by a third-party who transports to an alternate locate for composting. Brush was historically burnt on site which township personnel have attested too.
- Three (3) receptacles are present on Site that are utilized for the public disposal of styrofoam,

electronics and scrap metal; bins are emptied on an as need basis.

- There is a stockpile of oil and grit separator material present on Site that is continuously added to when the township clears their stormwater management system; characterization of waste not completed.

- Excess soil stockpiles are present throughout the property from township projects and road sweeping activities; characterization of soil not completed for all stockpiles.

NON-COMPLIANCE

The following item(s) have been identified as non-compliance, based on a "No" response captured for a legislative question(s). For additional information on each question see the Inspection Details section of the report.

Ministry Program: WASTE | **Regulated Activity:** Receiver Transfer Processing

Item	Question	Compliance Response/Corrective Action(s)
NC-1	Question ID: 1-E2RB6B Is the site only accepting wastes limited to the types specified in the ECA?	No, the Site which is currently operating as a waste transfer station is not accepting waste limited to the types specified in the ECA as the site does not have a valid ECA. MECP was never notified that the Town was operating a waste transfer station at 665 Charles St. North, Gananoque ON. Action: The Town of Gananoque is required to retain a qualified person (QP) by August 31, 2025. Once retained, the QP is then to establish written contact with the undersigned Environmental Compliance Officer by August 31, 2025 confirming they have been retained and their qualifications. All on site excess soil stockpiles, and the stockpile of oil and grit separator material shall be characterized. MECP may request that these stockpiles be removed from Site if necessary. The Town of Gananoque is required to make formal application for an Environmental Compliance Approval with MECP.

Ministry Program: WASTE | **Regulated Activity:** Receiver Transfer Processing

Item	Question	Compliance Response/Corrective Action(s)
NC-2	Question ID: 949100 Were the inspection questions	No, the township currently stores asphalt in a manor that contravenes O. Reg 347 under the Environmental Protection Act.

sufficient to address other identified
non-compliance items?

Action: The township is required to provide a
plan detailing how they intend to manage the
asphalt on Site by September 30, 2025.

RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: WASTE | **Regulated Activity:** Receiver Transfer Processing

Question ID	1-E2RB6B	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA 40;			
Question: Is the site only accepting wastes limited to the types specified in the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): No, the Site which is currently operating as a waste transfer station is not accepting waste limited to the types specified in the ECA as the site does not have a valid ECA. MECP was never notified that the Town was operating a waste transfer station at 665 Charles St. North, Gananoque ON. Action: The Town of Gananoque is required to retain a qualified person (QP) by August 31, 2025. Once retained, the QP is then to establish written contact with the undersigned Environmental Compliance Officer by August 31, 2025 confirming they have been retained and their qualifications. All on site excess soil stockpiles, and the stockpile of oil and grit separator material shall be characterized. MECP may request that these stockpiles be removed from Site if necessary. The Town of Gananoque is required to make formal application for an Environmental Compliance Approval with MECP.			

Ministry Program: WASTE | **Regulated Activity:** Receiver Transfer Processing

Question ID	1-E1GHQN	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the Site operated and maintained such that vermin, vectors, dust, litter, odour, noise and/or traffic do not create a nuisance?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Based on observations by Officer A. Marunde along with supporting information from township personnel, the Site appears to be operated and maintained such that vermin, vectors, dust, litter, odour, noise and/or traffic do not create a nuisance.

Question ID	949100	Question Type	Legislative
Legislative Requirement(s): Not Applicable			
Question: Were the inspection questions sufficient to address other identified non-compliance items?			
Compliance Response(s)/Corrective Action(s)/Observation(s): No, the township currently stores asphalt in a manor that contravenes O. Reg 347 under the Environmental Protection Act. Action: The township is required to provide a plan detailing how they intend to manage the asphalt on Site by September 30, 2025.			



Environmental

Geotechnical

Building Sciences

Construction Testing
& Inspections

Telephone
(866) 217.7900
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(705) 742.7907

Website
cambium-inc.com

Mailing Address
P.O. Box 325,
Peterborough, Ontario
Canada, K9J 6Z3

Locations
Peterborough
Kingston
Barrie
Ottawa
Whitby

Laboratory
Peterborough

 Professional Engineers
Ontario

APGO

December 3, 2025

Ontario Ministry of the Environment, Conservation and Parks
Kingston District Office
Unit 3, 1259 Gardiners Road
Kingston ON K7P 3J6

Attn: Sharilyn Kennedy and Alexander Marunde

Re: Excess Soil Characterization
Town of Gananoque, 665 Charles Street North, Gananoque, Ontario
Ministry Reference # 1-1521877848
Cambium Reference: 24372-002

Dear Sharilyn and Alexander,

Cambium Inc. (Cambium) was retained by the Town of Gananoque (Town) to assist with responding to action items identified from a compliance inspection at 665 Charles Street North, Town of Gananoque ('Site'; Figure 1) completed by staff from the Ministry of the Environment, Conservation and Parks (Ministry) on June 13, 2025. Findings of the Site inspection were documented by Ministry staff in an inspection report dated July 31, 2025 (Ministry event # 1-1521877848).

INTRODUCTION

On June 13, 2025, a Ministry inspection of the Site determined that waste (domestic, leaf and yard, Styrofoam, and electronics) was being stored without an approved Environmental Compliance Approval (ECA). The Site historically operated as a landfill under a now expired ECA (# A440201). The Site was used as a public works yard with no public access except for drop-off of leaf and yard waste, e-waste, scrap metal, and Styrofoam for recycling. In addition to the above, excess soil stockpiles which were understood to have originated from local road construction work were present at the Site which require characterization. The waste management and ECA-related items were addressed under separate cover. This Soil Characterization was prepared to address five stockpiles of soil that were identified on-site.



Environmental

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Construction Testing
& Inspections**Telephone**(866) 217.7900
(705) 742.7900**Facsimile**

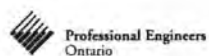
(705) 742.7907

Website

cambium-inc.com

Mailing AddressP.O. Box 325,
Peterborough, Ontario
Canada, K9J 6Z3**Locations**Peterborough
Kingston
Barrie
Ottawa
Whitby**Laboratory**

Peterborough

**APGO**

December 3, 2025

The excess soil characterization involved soil sampling and analysis to assess environmental quality, including the presence of contaminants and their respective concentration relative to regulatory standards.

The methodology for the excess soil characterization was based on the requirements of Ontario Regulation (O.Reg.) 406/19 and the associated "Rules for Soil Management and Excess Soil Quality Standards" (Soil Rules).

As it is understood that the stockpiled soil originated from local road construction projects, soil samples were submitted for the following contaminants of potential concern (COPCs) which are generally associated with municipal roadways:

- Metals, hydride-forming metals;
- Electrical conductivity (EC), sodium adsorption ratio (SAR);
- Petroleum hydrocarbon fractions 1 to 4 (PHC F1-F4);
- Benzene, toluene, ethylbenzene, xylenes (BTEX); and
- Polycyclic aromatic hydrocarbons (PAHs).

Site Information

The Site consists of the Town of Gananoque's Public Works yard located at 665 Charles Street North, on the north side of Charles Street approximately 50 m east of Stone Street North. More specifically, the investigated area of the Site consists of stockpiled soil located at the foot of James A. Brennan Road, approximately 370 m northeast of the Public Works building on-site. Site information and property owner information are summarized below. The Site location is shown on Figure 1.

Project Personnel Information

Property Owner
Town of Gananoque 30 King Street East Gananoque, ON



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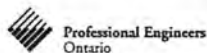
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Project Leader

David Armstrong
Public Works Manager
Town of Gananoque
Phone: (613) 382-2149 Ext.1615
E-mail: PWManager@gananoque.ca

Qualified Person

Alicia McDonald, P.Eng., QP_{ESA}
Project Manager
Cambium Inc.
31 Hyperion Court, Suite 201
Kingston, ON
Phone: (613) 389-2323
E-mail: Alicia.McDonald@cambium-inc.com

Methodology

The methodology for the excess soil characterization was developed by a qualified person (QP) based on the requirements of O.Reg. 406/19.

Cambium completed a survey of the five discrete soil stockpiles located at the property in September 2025. Based on the calculated volumes of soil, the following sampling frequencies were carried out:

Embedded Table 1 Stockpile Volumes and Sampling Requirements

Stockpile Number	Estimated Volume of Excess Soil (m ³)	Bulk Ex-Situ Samples Required	Quality Control Samples Required (10% of samples)	Notes
1	195	4	1	Catch basin cleaning
2	497	7	1	Asphalt
3	1,148	12	1	Excess soils generated from road reconstruction work along Pine Street
4	587	8	1	Excess soils generated from road reconstruction work along Arthur Street
5	473	7	1	Various sources, no details provided



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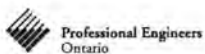
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Cambium personnel conducted the soil sampling on October 17, 2025. Cambium oversaw the advancement of 38 stockpile test pits by the Client throughout the stockpiles. Refer to Figure 2 for the sampling locations. Each stockpile test pit was advanced to a depth of about 0.3 to 1.0 m below stockpile surface.

Soil was examined for soil type, moisture content, presence of deleterious material, odour, and visual evidence of impacts such as staining. Soil samples from each stockpile were selected for analysis of the COPCs, as outlined in Embedded Table 1 above.

Based on the bulk laboratory analysis results which identified some modified Synthetic Precipitation Leaching Procedure (mSPLP)-applicable parameter exceedances, select samples were submitted for leachate analysis by mSPLP to assess leachate for off-site re-use. The mSPLP samples were generally submitted from the sampling locations where 90% (or higher) of the highest contaminant concentrations were identified. In addition, three soil samples were submitted for leachate analysis by Toxicity Characteristic Leaching Procedure (TCLP) to assess leachate for disposal options.

The soil samples were submitted to Paracel Laboratories Ltd. (Paracel), an accredited analytical laboratory.

Quality Assurance and Quality Control Results

Quality control duplicate samples were analyzed as part of a Quality Assurance/Quality Control (QA/QC) program. Blind duplicate soil samples were submitted for analysis, as follows:

- QAQC1 is a duplicate of SS101-01
- QAQC2 is a duplicate of SS105-02
- QAQC3 is a duplicate of SS103-01
- QAQC4 is a duplicate of SS102-01
- QAQC5 is a duplicate of SS104-01



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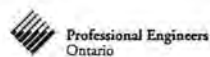
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Where analytical parameters were detected in both the parent and the duplicate samples at concentrations greater than five times the laboratory reported detection limit (RDL), relative percent difference (RPD) was calculated to assess the precision of the results. RPD between was calculated as follows:

$$RPD(\%) = \frac{|x_1 - x_2|}{x_m} \times 100\%$$

Where: x_1 = parent sample result

x_2 = duplicate sample result

x_m = arithmetic mean of parent and duplicate sample results

RPD are generally more sensitive at low parameter concentrations; as such, RPD is not calculated when the parameter concentration if the parent and/or duplicate sample is less than five times the laboratory RDL.

The calculated RPD results were compared to the performance criteria for each parameter group as outlined in the *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality*¹.

All calculated RPDs met the performance criteria except for the following:

- EC in the duplicate pairing QAQC1/SS101-01 with calculated RPD of 37% and performance standard of 10%, as well as fluoranthene (RPD of 108%), phenanthrene (RPD of 67%) and pyrene (RPD of 108%) with performance standards of 40%
- Fluoranthene (RPD of 49%) and pyrene (RPD of 53%) in the duplicate pairing QAQC4/SS102-01 with performance standards of 40%
- EC in the duplicate pairing QAQC3/SS103-01 with calculated RPD of 17% and performance standard of 10%, as well as PHC F3 (RPD of 99%) and PHC F4 (RPD of 48%) with performance standards of 30%

¹ Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and the Excess Soil Quality. MECP, 2021



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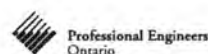
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- EC in the duplicate pairing QAQC2/SS105-02 with calculated RPD of 14% and performance standard of 10%, PHC F3 (RPD of 75%), PHC F4 (RPD of 48%) and PHC F4G (RPD of 104%) with performance standards of 30%, and boron (RPD of 43%), copper (RPD of 48%), lead (RPD of 113%) and zinc (RPD of 70%) with performance standards of 30%

The RPD exceedances could be attributed to soil heterogeneity; however, since the remaining RPDs are within the acceptable limits, and the parent and duplicate sample both either met or exceeded the ESQS, the elevated RPDs do not impact interpretation of results, and results were considered acceptable and suitable for use in evaluating soil quality at the Site.

Results

The excess soil generally consisted of sand and gravel. No odours, staining, deleterious material, or elevated vapours were noted in the soil samples; however, construction debris, metal pipes, concrete pieces and/or asphalt were noted throughout the stockpiles.

Soil analysis results were compared to the volume independent Table 1, Table 2.1, and Table 3.1 excess soil quality standards (ESQS) in Appendix 1 of the Soil Rules for all property uses – agricultural and other (AO); residential, parkland, institutional (RPI), and industrial, commercial, community (ICC).

The following is a summary of the excess soil quality standards that are met based on the analysis (Embedded Table 2). The full set of analyses is presented in the attached Table 3.

Embedded Table 2 Excess Soil Quality Standards Met

Sample ID	Sample Depth (m below top of stockpile)	Table 1 (AO)	Table 1 (RPI/ICC)	Table 2.1 (RPI)	Table 2.1 (ICC)	Table 3.1 (RPI)	Table 3.1 (ICC)
Stockpile 1 – Catch Basin Cleanout							
SS101-01 / QAQC1	0.3 -1.0	X [EC, PHCs, PAHs]	X [EC, PHCs, PAHs]	X [EC, PHCs, PAHs]	X [EC, PHCs, PAHs]	X [EC, PHCs, PAHs]	X [EC, PHCs, PAHs]

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Sample ID	Sample Depth (m below top of stockpile)	Table 1 (AO)	Table 1 (RPI/ICC)	Table 2.1 (RPI)	Table 2.1 (ICC)	Table 3.1 (RPI)	Table 3.1 (ICC)
SS101-02	0.3 -1.0	✗ [PHCs, EC, SAR]	✗ [PHCs]	✓	✓	✓	✓
SS101-03	0.3 -1.0	✓*	✓	✓	✓	✓	✓
SS101-04		✗ [PHCs, PAHs, EC, SAR]	✗ [PHCs, EC]	✓	✓	✓	✓
Stockpile 2 – Asphalt							
SS102-01 / QAQC4	0.3 -1.0	✗ [PHCs, PAHs]	✗ [PHCs, PAHs]	✓	✓	✓	✓
SS102-02	0.3 -1.0	✗ [PAHs, metals]	✓	✓	✓	✓	✓
SS102-03	0.3 -1.0	✗ [PAHs, metals]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]
SS102-04	0.3 -1.0	✗ [PAHs, metals]	✗ [PAHs, metals]	✗ [PAHs, metals]	✓	✗ [PAHs, metals]	✓
SS102-05	0.3 -1.0	✗ [PAHs, metals]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]
SS102-06	0.3 -1.0	✗ [PAHs, metals]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]
SS102-07	0.3 -1.0	✗ [PAHs, metals, PHCs]	✗ [PAHs, PHCs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]	✗ [PAHs]
Stockpile 3 – Pine Street Reconstruction							
SS103-01 / QAQC3	0.3 -1.0	✗ [PAHs, PHCs]	✗ [PHCs]	✓	✓	✓	✓
SS103-02	0.3 -1.0	✗ [Metals]	✗ [Metals]	✓	✓	✓	✓

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Sample ID	Sample Depth (m below top of stockpile)	Table 1 (AO)	Table 1 (RPI/ICC)	Table 2.1 (RPI)	Table 2.1 (ICC)	Table 3.1 (RPI)	Table 3.1 (ICC)
SS103-03	0.3 -1.0	✗ [PAHs, PHCs]	✗ [PHCs]	✓	✓	✓	✓
SS103-04	0.3 -1.0	✗ [PAHs, PHCs]	✗ [PHCs]	✓	✓	✓	✓
SS103-05	0.3 -1.0	✗ [PAHs, metals]	✓	✓	✓	✓	✓
SS103-06	0.3 -1.0	✗ [BTEX]	✗ [BTEX]	✗ [BTEX]	✓	✗ [BTEX]	✓
SS103-07	0.3 -1.0	✗ [PAHs, PHCs, metals]	✗ [PAHs, PHCs]	✗ [PAHs, PHCs]	✗ [PAHs, PHCs]	✗ [PAHs, PHCs]	✗ [PAHs, PHCs]
SS103-08	0.3 -1.0	✗ [PHCs, metals, SAR]	✗ [PHCs]	✓	✓	✓	✓
SS103-09	0.3 -1.0	✓	✓	✓	✓	✓	✓
SS103-10	0.3 -1.0	✗ [Metals]	✗ [Metals]	✓	✓	✓	✓
SS103-11	0.3 -1.0	✗ [PHCs]	✗ [PHCs]	✓	✓	✓	✓
SS103-12	0.3 -1.0	✓	✓	✓	✓	✓	✓
Stockpile 4 – Arthur Street Reconstruction							
SS104-01 / QAQC5	0.3 -1.0	✓*	✓*	✓	✓	✓	✓
SS104-02	0.3 -1.0	✓*	✓	✓	✓	✓	✓
SS104-03	0.3 -1.0	✓*	✓	✓	✓	✓	✓
SS104-04	0.3 -1.0	✓*	✓	✓	✓	✓	✓
SS104-05	0.3 -1.0	✗ [PAHs, SAR]	✓*	✓	✓	✓	✓
SS104-06	0.3 -1.0	✓*	✓	✓	✓	✓	✓
SS104-07	0.3 -1.0	✗	✗	✓	✓	✓	✓

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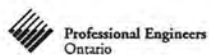
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Sample ID	Sample Depth (m below top of stockpile)	Table 1 (AO)	Table 1 (RPI/ICC)	Table 2.1 (RPI)	Table 2.1 (ICC)	Table 3.1 (RPI)	Table 3.1 (ICC)
		[PHCs, SAR]	[PHCs, SAR]				
SS104-08	0.3 -1.0	X [Metals, SAR]	X [Metals]	X [Metals]	X [Metals]	X [Metals]	X [Metals]
Stockpile 5 – Various Sources							
SS105-01 / QAQC2	0.3 -1.0	X [PHCs, PAHs, SAR]	X [PHCs, PAHs, SAR]	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]
SS105-02	0.3 -1.0	X [PHCs, PAHs, metals, SAR]	X [PHCs]	X [PHCs]	X [PHCs]	X [PHCs]	X [PHCs]
SS105-03	0.3 -1.0	✓*	✓*	✓	✓	✓	✓
SS105-04	0.3 -1.0	X [PHCs]	X [PHCs]	✓	✓	✓	✓
SS105-05	0.3 -1.0	X [PHCs]	X [PHCs]	✓	✓	✓	✓
SS105-06	0.3 -1.0	X [PHCs, PAHs, Metals]	X [PHCs, Metals]	✓	✓	✓	✓
SS105-07	0.3 -1.0	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]	X [PHCs, PAHs]

X exceeds standard ✓ meets standard ✓* exceeds for SAR and/or EC only

[Exceeding Parameter Group(s)]





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Paracel reported that the laboratory reportable detection limit (RDL) for some soil samples (SS103-07, SS105-01, QAQC2, SS105-02, SS105-07) were elevated due to the nature of the sample matrix. This resulted in the PHC F2 concentrations exceeding the applicable ESQS. Additional sampling and laboratory analysis would be required to confirm whether the PHC F2 concentrations at these locations meet the applicable ESQS.

The mSPLP leachate results met the O.Reg. 406/19 Appendix 2 *Generic Leachate Screening Levels for Excess Soil* for Table 1, Table 2.1, and Table 3.1. The TCLP leachate results met the O.Reg. 558 Schedule 4 leachate criteria and the soil is considered non-leachate toxic.

The bulk soil results compared to the applicable standards are provided in Table 1. The mSPLP and TCLP leachate results compared to the applicable standards are provided in Table 2 and Table 3, respectively. The original laboratory Certificates of Analysis for bulk soil and leachate analyses are attached, with bulk soil results compared to Table 1 RPIICC standards.

SALT-IMPACTED EXCESS SOIL

Salt-related contaminants, SAR and/or EC, were present in some samples at levels exceeding the standards. As noted in the Soil Rules, ESQS are deemed to be met for those chemicals in soil resulting solely from the use of a substance for the safety of vehicular or pedestrian traffic applied under conditions of snow or ice or both (e.g., SAR and EC), if the salt-impacted excess soil is placed in accordance with subsection 1(3) of Section D in Part I (attached).

ASPHALT-IMPACTED EXCESS SOIL

Based on the recent O.Reg. 406/19 amendments, asphalt-impacted excess soil (AIES) has been defined as excess soil that exceeds one or more standards for parameters specified in the ESQS, solely because of the discharge of a contaminant from asphalt.

Asphalt-related contaminants, specifically PAHs and PHCs F3 and F4 (as listed in paragraph 3 of subsection 1(10.1) of Section A of Part II of the Soil Rules),



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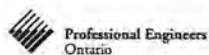
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were present in some samples at levels exceeding the standards. The applicable standards for specified parameters associated with asphalt contamination are deemed to be met if certain criteria are satisfied, including that it is finally placed in accordance with the Soil Rules and that it is unlikely that potentially contaminating activities (PCAs) have contributed to the concentrations of those parameters. Based on the sources of the excess soil (i.e. local road reconstruction work primarily in residential areas), it is unlikely that other PCAs have contributed to the identified PAH and PHC impacts. As such, ESQS are deemed to be met if the AIES is placed in accordance with the Soil Rules, including that it must be finally placed in any area that will either be covered by asphalt pavement, such as a road and parking lot, or an associated road shoulder that is not covered by asphalt. AIES cannot be placed in asphalt paths that are part of parkland or agricultural land uses, or areas (i.e., ditches) designed to convey water, unless the water is conveyed to a municipal sanitary sewer.

Recommendations

Cambium collected 38 bulk samples and 5 QA/QC duplicates from a total of five stockpiles within the Site. Bulk soil samples were analyzed for metals, hydride-forming metals, BTEX, PHCs, PAHs, EC, and SAR. An additional three soil samples were analyzed for leachate by mSPLP, and three were analyzed for leachate by TCLP.

Excess soil with concentrations meeting various ESQS can be reused off-site at an appropriate reuse/receiving site accepting such materials. Excess soil to be reused off-site must be placed in accordance with the salt-impacted excess soil rules and subject to applicable municipal fill bylaws. Fill material containing debris should be segregated based on visual observations. Fill material containing debris (e.g. construction debris, bricks, waste) cannot be reused unless the debris is sifted out. Excess soil exceeding Table 3.1 ICC ESQS requires disposal at a licensed waste disposal facility.

The following options are available for the soil tested at Stockpile 1:



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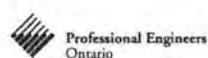
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- Reuse at a Table 1 RPI/ICC receiving site, a Table 2.1 RPI or ICC receiving site, or a Table 3.1 RPI or ICC receiving site, in accordance with the **salt-impacted and asphalt-impacted excess soil rules**, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws; or
- Reuse at a Table 2.1 ICC receiving site, or a Table 3.1 ICC receiving site, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws

The following options are available for the soil tested at Stockpile 2:

- Reuse at a Table 1 RPI/ICC receiving site, a Table 2.1 RPI or ICC receiving site, or a Table 3.1 RPI or ICC receiving site, in accordance with the **asphalt-impacted excess soil rules**, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws; or
- Disposal at a licensed waste disposal facility.

The following options are available for the soil tested at Stockpile 3:

- With the exception of stockpile soil sample SS103-07, reuse at a Table 2.1 RPI or ICC receiving site, or a Table 3.1 RPI or ICC receiving site, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws. Delineation in the vicinity of stockpile soil sample SS103-07 is recommended to determine the potential extents of the PAH impacts.

The following options are available for the soil tested at Stockpile 4:

- Reuse at a Table 2.1 RPI or ICC receiving site, or a Table 3.1 RPI or ICC receiving site, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws.

The following options are available for the soil tested at Stockpile 5:

- Reuse at a Table 2.1 RPI or ICC receiving site, or a Table 3.1 RPI or ICC receiving site, with the **asphalt-impacted excess soil rules**, under the guidance of the receiving site's QP, and subject to applicable municipal fill bylaws.



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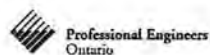
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Recommendations provided herein are based solely on the analysis of samples obtained and do not represent acceptance or suitability of this material on behalf of an intended receiving site. Should conditions encountered during excavation vary from those described in this report, Cambium should be notified to evaluate the need for further work.

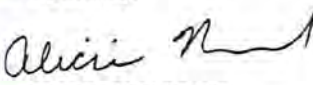
Closing

We trust that this report meets your requirements. Should you have any questions or concerns regarding any aspect of this report, or should you require any further assistance, please do not hesitate to contact our office

Best regards,

Cambium Inc.

Signed by:


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Alicia McDonald, P.Eng., QP_{ESA}
Project Manager

*Encl. Cambium Qualifications and Limitations
Salt-Impacted Excess Soil Reuse Rules
Figure 1 – Site Location Plan
Figure 2 – Sample Locations
Table 1 – Soil Quality
Table 2 – Soil Leachate Quality (mSPLP)
Table 3 – Soil Leachate Quality (TCLP)
Laboratory Certificate of Analysis*

Copies: David Armstrong, Public Works Manager, Town of Gananoque

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Barrie
Ottawa
Whitby**Laboratory**

Peterborough

December 3, 2025

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**APGO**



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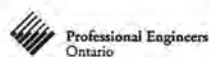
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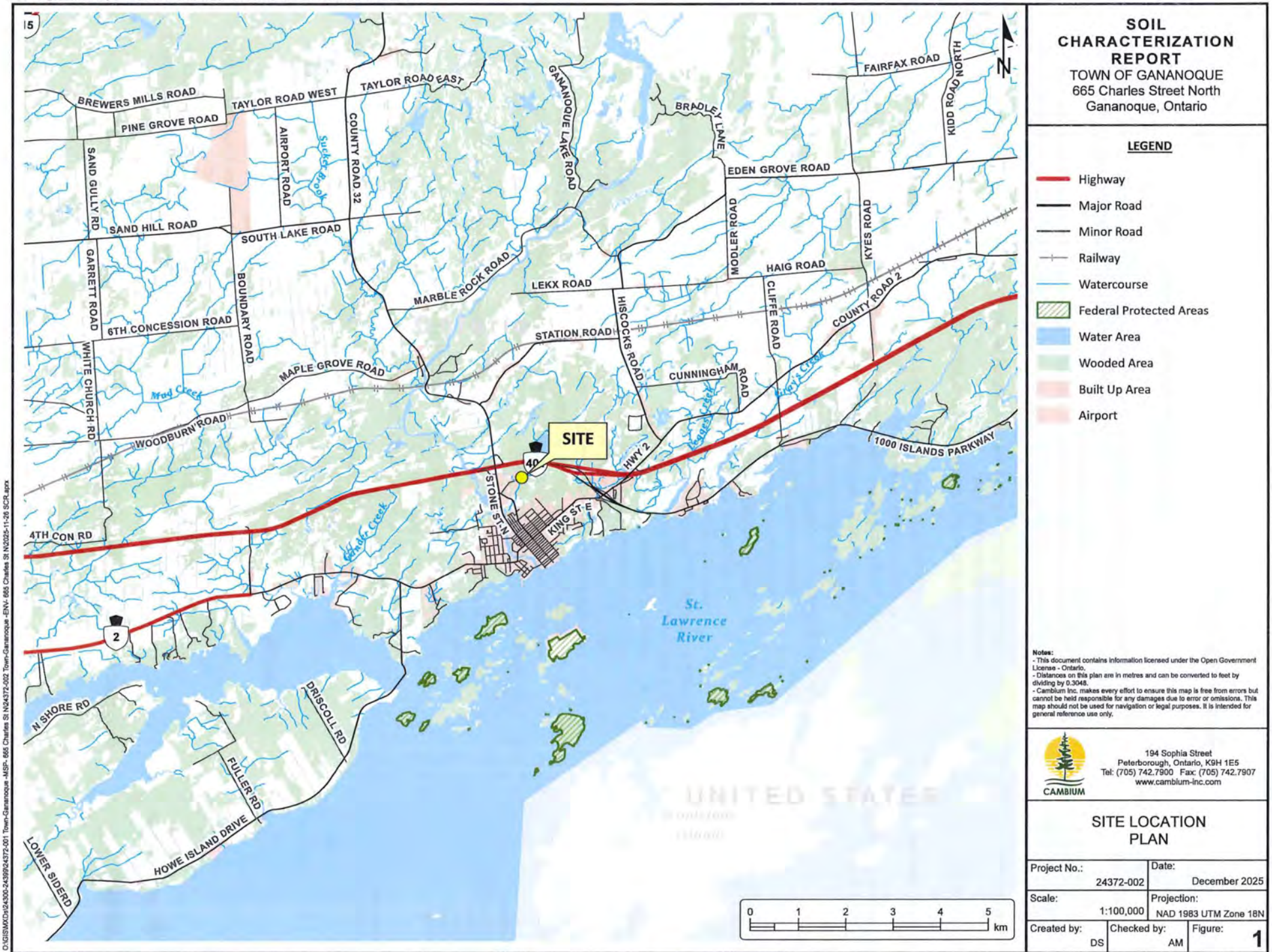


December 3, 2025

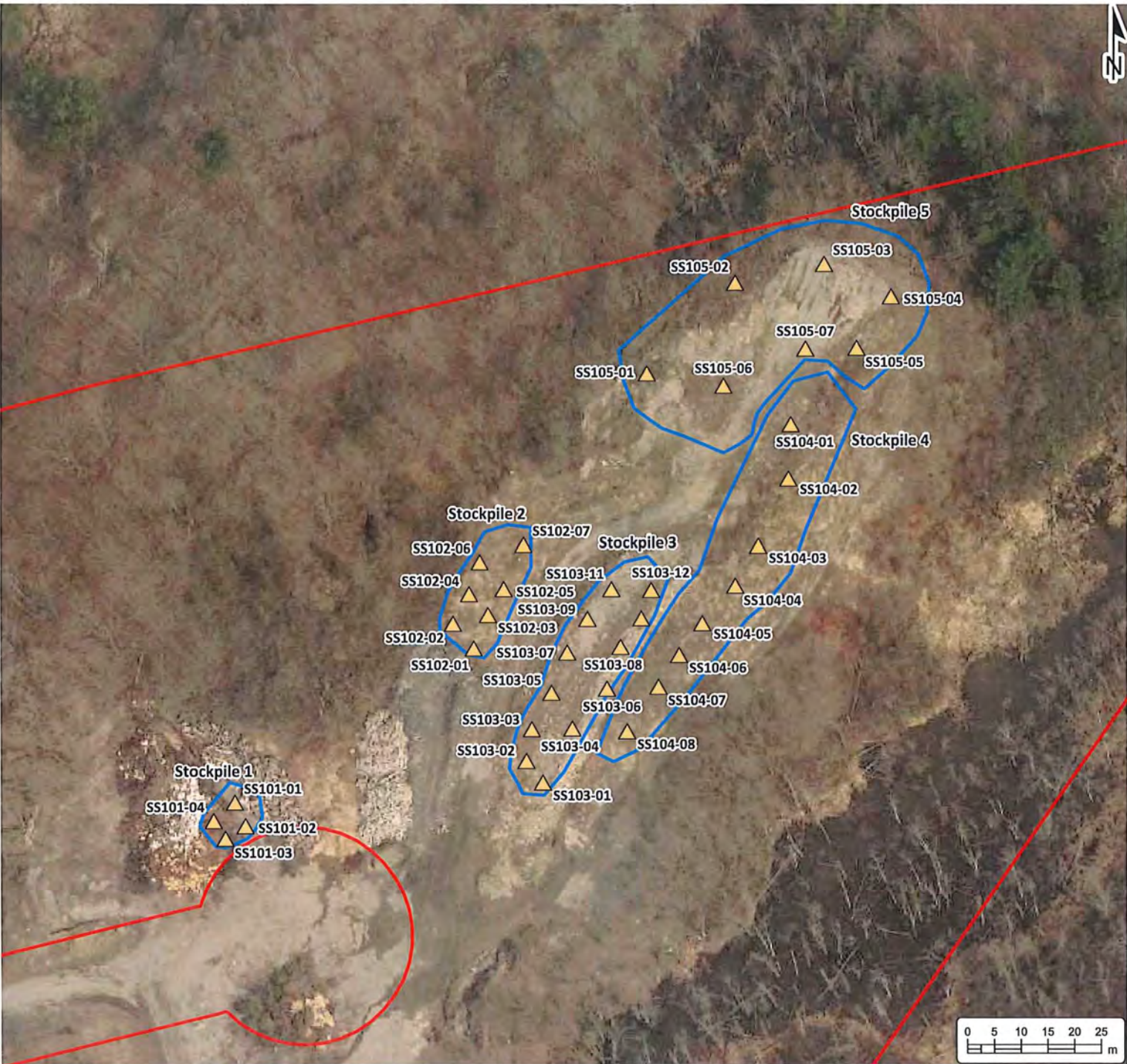
Salt-Impacted Excess Soil Reuse Rules

1. For the purposes of deemed compliance with excess soil quality standards as set out in paragraph 1 of subsection 1 (10.1) of Section A in Part II, salt-impacted excess soil shall be placed in accordance with the following:
 - a. Salt-impacted excess soil may be placed in any area of the reuse site where it is anticipated a substance will be applied for the safety of vehicular or pedestrian traffic under conditions of snow or ice.
 - b. Salt-impacted excess soil may be placed at any reuse site used for an industrial or commercial property use.
 - c. In respect of a reuse site used for a community, parkland, institutional, or residential use,
 - i. salt-impacted excess soil may be placed at a depth of at least 1.5 metres below the soil surface, or
 - ii. if subparagraph i does not apply, it must be finally placed in accordance with a landscape plan described in subsection 5(8) of the regulation that meets the requirements set out in paragraph 3.
 - d. In respect of a reuse site used for an agricultural or other property use,
 - i. salt-impacted excess soil may be finally placed at a depth of at least 1.5 metres below the soil surface, or
 - ii. if subparagraph i does not apply, in areas that will not be vegetated and only to achieve a grade necessary to construct a planned building, including a barn or greenhouse, or install a driveway or parking area.
2. Despite paragraph 1, in all cases, salt-impacted excess soil shall not be finally placed at any of the following areas of a reuse site:
 - a. within 30 metres of a waterbody;
 - b. within 100 metres of a potable water well or, with respect to an approved lot that may require a potable water well, within 100 metres of the planned water well location or if the location of the well is unknown, the centre of the lot; or
 - c. an area that will be used for growing crops or pasturing livestock unless the salt-impacted excess soil is placed 1.5 metres or greater below the soil surface.
3. A landscape plan for the purposes of subsection 5(8) of the regulation and subclause 1.c)(ii) shall:
 - A. Identify the areas within the reuse site in which salt-impacted excess soil can be finally placed, which shall include only the following:
 - a. An area that will be unvegetated and that is not an area of the reuse site described in paragraph 2.
 - b. An area that is not an area described in paragraph 2 and that will be vegetated with vegetation that,
 - i. may tolerate elevated levels of chemicals associated with salt-impacted excess soil, or
 - ii. requires less than 1.5 metres of soil that meets applicable excess soil quality standards to grow successfully.
 - B. Identify, for each area mentioned in subparagraph A.b):
 - a. The types of vegetation that may be planted in that area,
 - b. The acceptable levels of salt-related contaminants that may be tolerated by the vegetation mentioned in subparagraph A.b)i, if applicable, and
 - c. The depth of soil that must meet the applicable excess soil quality standards in order for the vegetation mentioned in subparagraph A.b)ii to grow successfully, if applicable.

Be signed by a person with qualifications as set out in subsection 5(10) of the regulation



C:\GIS\MapDocs\4300-4399\4372-001 Town-Gananoque -JSP- 665 Charles St N24372-002 Town-Gananoque -ENV- 665 Charles St N2025-11-26 SCR.BOX



**SOIL
CHARACTERIZATION
REPORT**
TOWN OF GANANOQUE
665 Charles Street North
Gananoque, Ontario

LEGEND

- Stockpile Sample
- Stockpile
- Project Area (approximate)

Notes:
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**STOCKPILE SAMPLE
LOCATION PLAN**

Project No.:	Date:		
24372-002	December 2025		
Scale:	Projection:		
1:1,000	NAD 1983 UTM Zone 18N		
Created by:	Checked by:	Figure:	
DS	AM	2	



Table 1 - Soil Quality

Soil Quality			Location Code		Stockpile 1					Stockpile 2						
			Field ID		QAQC1	SS101-01	SS101-02	SS101-03	SS101-04	QAQC4	SS102-01	SS102-02	SS102-03	SS102-04	SS102-05	
			Date		15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	
	Unit	RDL	Table 1 SCS (AO)	Table 1 SCS (RPIIC)	Table 2.1 EROS (RPI)	Table 3.1 EROS (ICC)										
BTEX																
Benzene	µg/g	0.02	0.02	0.02	0.02	0.034	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.05	0.2	0.2	0.2	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	0.05	0.05	1.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (m & p)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (o)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Total	µg/g	0.05	0.05	0.05	0.05	0.091	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
PHCs																
F1	µg/g	7	17	25	25	25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
F2	µg/g	4 - 40	10	10	10	26	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
F3	µg/g	8 - 80	240	240	240	1,700	252	298	129	75	164	110	112	68	18	35
F4	µg/g	6 - 60	120	120	2,800	3,300	439	500	173	52	328	259	300	90	19	52
F4G	µg/g	50	120	120	2,800	3,300	877	1,020	777	-	467	359	367	-	-	-
PAHs																
Acenaphthene	µg/g	0.02 - 0.4	0.05	0.072	2.5	15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.05	0.05
Acenaphthylene	µg/g	0.02 - 0.4	0.093	0.093	0.093	0.093	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12	0.08	0.37
Anthracene	µg/g	0.02 - 0.4	0.05	0.16	0.16	0.16	0.05	0.05	<0.02	<0.02	0.03	0.03	0.04	<0.02	0.21	0.14
Benzo(a)anthracene	µg/g	0.02 - 0.4	0.095	0.36	0.5	1	0.10	0.29	0.04	0.03	0.12	0.07	0.12	0.05	0.28	0.78
Benzo(a)pyrene	µg/g	0.02 - 0.4	0.05	0.3	0.31	0.7	0.10	0.30	0.05	0.03	0.11	0.08	0.14	0.07	0.65	0.33
Benzo(g,h,i)perylene	µg/g	0.02 - 0.4	0.2	0.68	8.6	13	0.08	0.21	0.06	0.03	0.10	0.07	0.13	0.05	0.49	0.22
Benzo(b)fluoranthene	µg/g	0.02 - 0.4	0.05	0.48	3.1	7	0.08	0.20	0.03	<0.02	0.06	0.05	0.08	0.03	0.34	0.18
Benzo(k)fluoranthene	µg/g	0.02 - 0.4	0.3	0.47	3.2	7	0.11	0.37	0.05	0.04	0.11	0.09	0.14	0.07	0.63	0.32
Chrysene	µg/g	0.02 - 0.4	0.18	2.8	7	14	0.10	0.33	0.05	0.03	0.12	0.08	0.12	0.08	0.52	0.28
Dibenz(a,h)anthracene	µg/g	0.02 - 0.4	0.1	0.1	0.57	0.7	<0.02	0.05	<0.02	<0.02	<0.02	0.03	<0.02	0.12	0.05	0.19
Fluorene	µg/g	0.02 - 0.4	0.24	0.56	0.69	70	0.27	0.91	0.11	0.06	0.30	0.17	0.28	0.14	1.26	0.66
Fluoranthene	µg/g	0.02 - 0.4	0.05	0.12	6.8	6.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	0.04	0.12
Indeno(1,2,3-c,d)pyrene	µg/g	0.02 - 0.4	0.11	0.23	0.38	0.76	0.06	0.19	0.04	<0.02	0.08	0.06	0.10	0.04	0.42	0.20
Methylnaphthalene - 1	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.02	0.06
Methylnaphthalene - 2	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.03	0.06
Methylnaphthalene 1 & 2	µg/g	0.04 - 0.8	0.05	0.59	0.59	8.7	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.08	0.05	0.12
Naphthalene	µg/g	0.01 - 0.2	0.05	0.09	0.2	1.8	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.01	0.04	0.02	0.07
Phenanthrene	µg/g	0.02 - 0.4	0.19	0.69	6.2	12	0.16	0.32	0.04	0.03	0.14	0.08	0.15	0.07	0.63	0.46
Pyrene	µg/g	0.02 - 0.4	0.19	1	26	70	0.21	0.70	0.09	0.05	0.23	0.14	0.24	0.12	1.10	0.55
Metals																
Antimony	µg/g	1	1	1.3	7.5	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	1	11	18	18	18	1.7	1.9	1.8	2.2	2.4	3.5	3.3	4.3	4.3	5.3
Barium	µg/g	1	210	220	390	670	50.6	66.4	60.2	85.3	111	159	172	124	217	175
Beryllium	µg/g	0.5	2.5	2.5	4	8	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.7	0.6	0.9	0.7
Boron	µg/g	5	36 ^W	36 ^W	120 ^W	120 ^W	7.3	8.1	6.8	7.7	10.2	10.6	11.2	8.3	10.3	12.0
Cadmium	µg/g	0.5	1	1.2	1.2	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.8	<0.5	<0.5	<0.5
Chromium (total)	µg/g	5	67	70	160	160	28.6	31.8	21.3	18.3	37.7	30.1	31.3	27.7	39.5	36.8
Cobalt	µg/g	1	19	21	22	80	4.1	5.4	4.2	5.9	7.3	9.4	10.0	9.0	13.4	11.9
Copper	µg/g	5	62	92	140	230	17.1	16.5	28.0	14.5	28.4	30.3	34.5	26.8	35.8	35.4
Lead	µg/g	1	45	120	120	120	10.0	11.2	13.7	23.3	29.7	33.6	32.0	81.0	53.9	70.8
Molybdenum	µg/g	1	2	2	6.9	40	1.5	1.5	1.7	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	5	37	82	106	270	9.2	10.1	8.9	12.3	15.3	24.5	24.3	17.5	27.8	25.5
Selenium	µg/g	1	1.2	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.3	0.5	0.5	26	40	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	µg/g	1	1	1	1	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	µg/g	1	1.9	2.5	23	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	10	86	86	86	86	17.2	19.5	19.9	26.7	32.6	39.1	40.5	38.1	55.9	48.5
Zinc	µg/g	20	290	290	340	340	87.2	87.8	56.9	49.7	92.1	102	107	92.9	111	118
ORPs																
Electrical Conductivity (Lab)	µS/cm	5	476	570	700	1,400	339	785	545	517	639	203	206	176	168	236
Sodium Adsorption Ratio	-	0.01	1	2.4	5	12	0.30	0.25	1.54	1.49	1.74	0.09	0.12	0.10	0.09	0.09

Comments

#1 Table 1 Full Depth Background SCS for Agricultural or Other Property Use

#2 Table 1 Full Depth Background SCS for RPIIC Property Use

#3 Table 2.1 Full Depth Excess SQS in a Potable Ground Water Condition, RPI Property Use

#4 Table 3.1 Full Depth Excess SQS in a Non-Potable Ground Water Condition, ICC Property Use

#5 Total Boron standard is for sub-surface soil (>1.5 m).

[A] Concentration exceeds Table 7 SCS #1

[A] Concentration exceeds Table 7 SCS #1

[A] Concentration exceeds Table 7 SCS #1

[A] Concentration exceeds Table 7 SCS #1

RDL - Reportable Detection Limit

RPI - Residential / Parkland / Institutional Property Use

ICC - Industrial / Commercial / Community Property Use

SCS - Site Condition Standard

** - Parameter not analyzed

* - Less than reported detection limit

NV - No Value

µg/g - microgram per gram



Table 1 - Soil Quality

Location Code	Field ID	Stockpile 2 (cont'd)					Stockpile 3									
		SS102-06		SS102-07		QAQC3	SS103-01		SS103-02		SS103-03		SS103-04		SS103-05	
		Date	15 Oct 2025	Date	15 Oct 2025	15 Oct 2025	Date	15 Oct 2025	Date	15 Oct 2025	Date	15 Oct 2025	Date	15 Oct 2025	Date	15 Oct 2025
Table 1 SCS (A0)	Table 1 SCS (RPIIC)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)	Table 2.1 ESQS (RPI)
Unit	RDL															
BTEX																
Benzene	µg/g	0.02	0.02	0.02	0.02	0.034	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.05	0.2	0.2	0.2	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	0.05	0.05	1.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (m & p)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (o)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Total	µg/g	0.05	0.05	0.05	0.05	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
PHCs																
F1	µg/g	7	17	25	25	25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
F2	µg/g	4 - 40	10	10	10	26	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
F3	µg/g	8 - 80	240	240	240	1,700	22	144	60	178	49	190	93	28	45	763
F4	µg/g	6 - 60	120	120	120	2,500	27	291	89	145	85	203	125	29	44	1,350
F4G	µg/g	50	120	120	120	2,500	3,300	727	-	257	-	244	118	-	-	530
PAHs																
Acenaphthene	µg/g	0.02 - 0.4	0.05	0.072	2.5	15	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	µg/g	0.02 - 0.4	0.093	0.093	0.093	0.093	3.12	0.12	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	µg/g	0.02 - 0.4	0.05	0.16	0.16	0.16	0.16	0.34	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	µg/g	0.02 - 0.4	0.095	0.36	0.3	1	0.35	0.49	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Benzo(a)pyrene	µg/g	0.02 - 0.4	0.05	0.3	0.31	0.7	0.44	0.58	0.15	0.04	0.03	0.05	0.06	0.06	0.04	0.04
Benzo(b)fluoranthene	µg/g	0.02 - 0.4	0.2	0.68	6.6	13	0.30	0.39	0.13	0.05	0.03	0.25	0.09	0.09	0.11	0.61
Benzo(k)fluoranthene	µg/g	0.02 - 0.4	0.05	0.48	3.1	7	0.34	0.24	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(l)fluoranthene	µg/g	0.02 - 0.4	0.3	0.47	3.2	7	0.44	0.42	0.10	0.03	0.03	0.04	0.04	0.05	0.03	0.03
Chrysene	µg/g	0.02 - 0.4	0.18	2.8	7	14	0.34	0.56	0.13	0.03	0.03	0.04	0.05	0.06	0.03	0.03
Dibenz(a,h)anthracene	µg/g	0.02 - 0.4	0.1	0.1	0.57	0.7	0.07	0.10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	µg/g	0.02 - 0.4	0.24	0.56	0.59	70	0.65	1.13	0.36	0.08	0.07	0.07	0.10	0.15	0.07	0.07
Fluorene	µg/g	0.02 - 0.4	0.05	0.12	6.8	6.8	0.04	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-c,d)pyrene	µg/g	0.02 - 0.4	0.11	0.23	0.38	0.76	0.27	0.36	0.06	<0.02	<0.02	0.04	0.03	0.04	0.02	0.02
Methylanthracene - 1	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	0.04	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methylanthracene - 2	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	0.04	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methylanthracene 1 & 2	µg/g	0.04 - 0.5	0.05	0.59	0.59	8.7	0.09	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Naphthalene	µg/g	0.01 - 0.2	0.05	0.09	0.3	1.8	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	µg/g	0.02 - 0.4	0.19	0.69	6.3	12	0.39	0.88	0.25	0.04	0.04	0.06	0.05	0.12	0.05	0.04
Pyrene	µg/g	0.02 - 0.4	0.19	1	28	70	0.61	0.57	0.35	0.08	0.06	0.10	0.12	0.13	0.07	0.06
Metals																
Antimony	µg/g	1	1	1.3	7.5	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	1	11	18	18	18	4.2	4.4	2.3	1.8	3.1	1.9	4.5	2.7	4.2	3.7
Barium	µg/g	1	210	220	250	670	197	184	69.3	89.7	45.2	52.3	47.5	94.3	63.5	120
Beryllium	µg/g	0.5	2.5	2.5	8	8	0.5	0.8	0.6	0.7	<0.5	0.6	<0.5	0.7	0.5	0.7
Boron	µg/g	5	36 ^{RA}	36 ^{RA}	120 ^{RA}	120 ^{RA}	11.5	11.5	6.3	7.2	<5.0	5.3	5.7	7.4	6.1	9.2
Cadmium	µg/g	0.5	1	1.2	1.3	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (total)	µg/g	5	67	70	160	160	39.6	33.0	16.7	18.9	10.0	12.2	12.5	19.7	13.7	28.6
Cobalt	µg/g	1	19	21	20	80	12.5	11.9	5.1	5.7	3.5	4.3	4.2	7.3	4.8	10.4
Copper	µg/g	5	62	92	140	230	35.2	34.4	14.5	16.5	12.2	15.6	13.5	32.8	15.7	34.3
Lead	µg/g	1	45	120	120	120	55.3	61.6	22.5	25.3	25.8	34.6	23.5	95.4	41.3	63.9
Molybdenum	µg/g	1	2	2	6.3	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	5	37	82	100	270	26.4	23.9	10.4	12.2	6.7	8.6	8.2	13.8	9.3	12.7
Selenium	µg/g	1	1.2	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.3	0.5	0.5	20	40	<0.3	<0.3	<0.3	<0.3	1.1	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	µg/g	1	1	1	1	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	µg/g	1	1.5	2.5	23	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	10	86	86	86	86	54.3	46.9	24.6	26.9	15.4	18.7	18.8	33.2	21.8	41.7
Zinc	µg/g	20	290	290	340	340	157	157	33.2	36.9	26.6	34.3	25.3	102	43.2	75.5
ORPs																
Electrical Conductivity (µS/cm)	µS/cm	5	479	570	700	1,400	235	197	172	145	130	126	127	147	146	243
Sodium Adsorption Ratio	-	0.01	1	2.4	5	12	1.07	0.29	0.84	0.42	0.11	0.10	0.09	0.44	0.20	1.88

Comments
#1 Table 1 Full Depth Background SCS for Agricultural or Other Property Use
#2 Table 1 Full Depth Background SCS for RPIIC Property Use
#3 Table 2.1 Full Depth Excess SQS in a Potable Ground Water Condition, RPI Property Use
#4 Table 3.1 Full Depth Excess SQS in a Non-Potable Ground Water Condition, ICC Property Use
#5 Total Boron standard is for sub-surface soil (>1.5 m).
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
RDL - Reportable Detection Limit
RPI - Residential / Parkland / Institutional Property Use
ICC - Industrial / Commercial / Community Property Use
SCS - Site Condition Standard
*- Parameter not analyzed
*- Less than reported detection limit
NV - No Value
µg/g - microgram per gram



Table 1 - Soil Quality

Soil Quality		Location Code																
		Field ID				Stockpile 3 (cont'd)				QA/QC				Stockpile 4				
		Date				SS103-09	SS103-10	SS103-11	SS103-12	SS104-01	SS104-02	SS104-03	SS104-04	SS104-05	SS104-06			
		Unit	RDL	Table 1 SCS (AO)	Table 1 SCS (RPIBC)	Table 2.1 ES06 (RPI)	Table 3.1 ES06 (ICC)	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	
BTEX																		
Benzene	µg/g	0.02	0.02	0.02	0.02	0.02	0.034	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Toluene	µg/g	0.05	0.2	0.2	0.2	0.2	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Ethylbenzene	µg/g	0.05	0.05	0.05	0.05	0.05	1.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Xylene (m & p)	µg/g	0.05	NV	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Xylene (o)	µg/g	0.05	NV	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Xylene Total	µg/g	0.05	0.05	0.05	0.05	0.091	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
PHCs																		
F1	µg/g	7	17	25	25	25	25	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	
F2	µg/g	4-40	10	10	10	10	26	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
F3	µg/g	8-80	240	240	240	240	1,700	49	22	96	122	31	33	31	18	29	34	
F4	µg/g	6-60	120	120	120	120	2,900	3,300	27	22	201	108	58	59	55	28	43	
F4G	µg/g	50	120	120	120	120	2,900	3,300	-	-	233	-	-	-	-	-	-	
PAHs																		
Acenaphthene	µg/g	0.02-0.4	0.05	0.072	0.05	0.072	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Acenaphthylene	µg/g	0.02-0.4	0.093	0.093	0.093	0.093	0.093	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Anthracene	µg/g	0.02-0.4	0.05	0.16	0.16	0.16	0.16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	
Benzo[a]anthracene	µg/g	0.02-0.4	0.095	0.35	0.5	1	0.03	0.04	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	<0.02	
Benzo[a]pyrene	µg/g	0.02-0.4	0.05	0.3	0.31	0.3	0.03	0.04	0.03	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	0.07	<0.02	
Benzo[b]fluoranthene	µg/g	0.02-0.4	0.2	0.68	0.6	13	0.07	0.03	0.14	0.12	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	
Benzo[k]fluoranthene	µg/g	0.02-0.4	0.05	0.48	3.1	7	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.07	<0.02	
Benzo[e]fluoranthene	µg/g	0.02-0.4	0.3	0.47	3.2	7	0.03	0.05	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	
Chrysene	µg/g	0.02-0.4	0.18	2.9	7	14	0.04	0.05	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	<0.02	
Dibenz[a,h]anthracene	µg/g	0.02-0.4	0.1	0.1	0.57	0.7	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Fluoranthene	µg/g	0.02-0.4	0.24	0.56	0.69	70	0.08	0.10	0.04	0.06	<0.02	<0.02	0.04	<0.02	<0.02	0.20	<0.02	
Fluorene	µg/g	0.02-0.4	0.05	0.12	0.8	6.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Indeno[1,2,3-cd]pyrene	µg/g	0.02-0.4	0.11	0.23	0.38	0.78	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	
Methylnaphthalene-1	µg/g	0.02-0.4	0.05	0.59	NV	NV	NV	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Methylnaphthalene-2	µg/g	0.02-0.4	0.05	0.59	NV	NV	NV	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	
Methylnaphthalene 1 & 2	µg/g	0.04-0.8	0.05	0.59	0.59	0.59	0.59	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	<0.04	
Naphthalene	µg/g	0.01-0.2	0.05	0.09	0.2	1.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	0.01	
Phenanthrene	µg/g	0.02-0.4	0.19	0.69	0.2	12	0.04	0.07	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.21	<0.02	
Pyrene	µg/g	0.02-0.4	0.19	1	28	70	0.07	0.09	0.04	0.06	<0.02	<0.02	0.03	<0.02	<0.02	0.17	<0.02	
Metals																		
Antimony	µg/g	1	1	1.3	7.5	40	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	µg/g	1	11	18	18	18	18	1.7	3.6	2.4	2.3	2.2	1.9	2.5	2.2	2.7	2.9	
Barium	µg/g	1	210	220	390	670	670	29.5	78.2	48.3	39.0	91.6	88.1	99.8	80.0	109	96.0	
Beryllium	µg/g	0.5	2.5	2.5	4	8	8	<0.5	0.7	0.5	<0.5	<0.5	<0.5	0.8	0.5	0.6	0.6	
Boron	µg/g	5	38 ^{AB}	38 ^{AB}	129 ^{AB}	129 ^{AB}	129 ^{AB}	<5.0	5.8	6.9	5.5	9.0	10.0	8.5	7.1	9.7	8.1	
Cadmium	µg/g	0.5	1	1.2	1.2	1.9	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Chromium (total)	µg/g	5	67	70	190	180	180	10.9	18.4	12.8	11.4	15.2	18.7	21.1	16.7	22.3	19.6	
Cobalt	µg/g	1	19	21	22	80	80	4.2	6.1	4.6	4.1	7.2	7.5	7.7	7.2	8.2	8.1	
Copper	µg/g	5	62	92	140	230	230	12.9	22.0	14.9	14.6	14.4	15.4	16.0	16.1	17.8	17.3	
Lead	µg/g	1	45	120	120	120	120	10.6	71.3	20.8	16.3	13.4	11.5	15.0	13.0	18.1	17.5	
Molybdenum	µg/g	1	2	2	8.9	40	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Nickel	µg/g	5	37	82	190	270	270	8.7	11.5	8.9	7.7	12.6	12.4	14.3	11.8	15.4	14.1	
Selenium	µg/g	1	1.2	1.5	2.4	5.5	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	µg/g	0.3	0.5	0.5	30	40	40	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Thallium	µg/g	1	1	1	1	3.3	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Uranium	µg/g	1	1.9	2.5	23	33	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	µg/g	10	86	86	86	86	86	16.3	28.0	19.4	16.6	24.6	25.9	31.8	25.1	33.6	30.6	
Zinc	µg/g	20	290	290	340	340	340	<20.0	62.0	31.4	22.0	34.4	36.7	40.8	37.8	45.3	44.6	
ORPs																		
Electrical Conductivity (Lab)	µS/cm	5	470	570	700	1,400	1,400	103	166	117	125	419	428	307	321	319	361	
Sodium Adsorption Ratio	-	0.01	1	2.4	5	12	12	0.09	0.36	0.09	0.27	2.69	2.59	1.96	2.38	1.99	2.50	



Table 1 - Soil Quality

1 - Soil Quality		Location Code Field ID Date		Stockpile 4 (cont'd)						Stockpile 5					
				SS104-01	SS104-08	SS105-01	QAQC2	SS105-02	SS105-03	SS105-04	SS105-05	SS105-06	SS105-07		
				15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025	15 Oct 2025		
	Unit	RDL	Table 1 SCS (AO)	Table 1 SCS (RPIIC)	Table 2.1 EPQS (RPV)	Table 3.1 EPQS (IC)									
BTEX															
Benzene	µg/g	0.02	0.02	0.02	0.02	0.034	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.05	0.2	0.2	0.2	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	0.05	0.05	0.65	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (m & p)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene (o)	µg/g	0.05	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Total	µg/g	0.05	0.05	0.05	0.05	0.891	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
PHCs															
F1	µg/g	7	17	25	32	25	<7	<7	<7	<7	<7	<7	<7	<7	<7
F2	µg/g	4 - 40	10	10	10	26	<4	<4	<4	<4	<4	<4	<4	<4	<4
F3	µg/g	8 - 80	240	240	240	1,700	83	40	736	372	170	71	118	81	133
F4	µg/g	6 - 60	120	120	2,800	3,300	200	90	2,410	1,490	913	105	191	161	325
F4G	µg/g	50	120	120	2,800	3,300	527	-	5,700	1,940	609	-	-	462	1,350
PAHs															
Acenaphthene	µg/g	0.02 - 0.4	0.05	0.072	2.5	15	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Acenaphthylene	µg/g	0.02 - 0.4	0.093	0.093	0.593	0.093	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Anthracene	µg/g	0.02 - 0.4	0.05	0.16	0.16	0.16	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Benzo(a)anthracene	µg/g	0.02 - 0.4	0.035	0.36	0.5	1	0.02	<0.02	<0.40	<0.40	0.05	0.03	0.04	0.03	<0.40
Benzo(a)pyrene	µg/g	0.02 - 0.4	0.05	0.3	0.3	0.3	0.02	<0.02	<0.40	<0.40	0.06	0.04	0.04	0.05	<0.40
Benzo(b)fluoranthene	µg/g	0.02 - 0.4	0.2	0.68	0.6	13	<0.02	<0.02	<0.40	<0.40	0.05	0.04	0.04	0.03	<0.40
Benzo(k)fluoranthene	µg/g	0.02 - 0.4	0.05	0.48	0.3	7	<0.02	<0.02	<0.40	<0.40	0.03	<0.02	0.02	0.03	<0.40
Benzo(l)fluoranthene	µg/g	0.02 - 0.4	0.3	0.47	0.2	7	0.03	<0.02	<0.40	<0.40	0.07	0.04	0.05	0.04	<0.40
Chrysene	µg/g	0.02 - 0.4	0.18	2.8	7	14	0.02	<0.02	<0.40	<0.40	0.06	0.03	0.04	0.03	<0.40
Dibenz(a,h)anthracene	µg/g	0.02 - 0.4	0.1	0.1	0.57	0.7	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Fluoranthene	µg/g	0.02 - 0.4	0.24	0.56	0.59	70	0.05	0.03	<0.40	<0.40	0.13	0.06	0.07	0.05	<0.40
Fluorene	µg/g	0.02 - 0.4	0.05	0.12	0.6	6.8	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Indeno(1,2,3-c,d)pyrene	µg/g	0.02 - 0.4	0.11	0.23	0.38	0.76	<0.02	<0.02	<0.40	<0.40	0.03	0.02	0.02	0.02	<0.40
Methylanthracene-1	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Methylanthracene-2	µg/g	0.02 - 0.4	0.05	0.59	NV	NV	<0.02	<0.02	<0.40	<0.40	<0.02	<0.02	<0.02	<0.02	<0.40
Methylanthracene 1 & 2	µg/g	0.04 - 0.8	0.05	0.59	0.59	8.7	<0.04	<0.04	<0.80	<0.80	<0.04	<0.04	<0.04	<0.04	<0.80
Naphthalene	µg/g	0.01 - 0.2	0.05	0.09	0.2	1.8	<0.01	0.02	<0.20	<0.20	<0.01	<0.01	<0.01	<0.01	<0.20
Phenanthrene	µg/g	0.02 - 0.4	0.19	0.69	6.2	12	0.03	0.03	<0.40	<0.40	0.06	0.03	0.04	<0.02	0.05
Pyrene	µg/g	0.02 - 0.4	0.19	1	26	70	0.04	0.03	<0.40	<0.40	0.10	0.05	0.06	0.05	<0.40
Metals															
Antimony	µg/g	1	1	1.3	7.5	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	1	11	18	18	18	2.5	3.7	3.4	3.6	2.9	2.6	2.6	2.7	1.8
Barium	µg/g	1	210	220	380	670	87.8	166	121	115	125	108	100	122	74.9
Beryllium	µg/g	0.5	2.5	2.5	4	8	<0.5	0.5	0.5	<0.5	<0.5	0.5	<0.5	0.6	<0.5
Boron	µg/g	5	36 ^{HA}	36 ^{HA}	120 ^{HA}	120 ^{HA}	7.7	25.4	7.8	8.5	13.1	10.2	9.5	8.1	8.1
Cadmium	µg/g	0.5	1	1.2	1.2	1.9	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (total)	µg/g	5	67	70	100	160	19.0	27.9	21.5	18.9	22.3	19.9	17.7	25.3	20.4
Cobalt	µg/g	1	19	21	22	80	6.9	8.5	8.1	7.9	7.4	6.8	6.3	6.5	4.3
Copper	µg/g	5	62	92	140	230	19.9	78.3	18.9	16.4	26.9	20.8	24.9	22.5	20.8
Lead	µg/g	1	45	120	130	120	25.7	41.5	19.7	13.3	48.2	31.6	25.1	29.9	26.7
Molybdenum	µg/g	1	2	2	6.3	40	<1.0	<1.0	1.2	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	µg/g	5	37	82	100	270	11.8	14.6	16.0	14.7	16.2	13.8	12.5	16.3	10.3
Selenium	µg/g	1	1.2	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/g	0.3	0.5	0.5	20	40	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	µg/g	1	1	1	1	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	µg/g	1	1.9	2.5	23	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	10	86	86	86	86	26.4	31.7	34.7	31.5	29.0	28.8	23.5	37.9	32.5
Zinc	µg/g	20	290	290	340	340	51.7	129	65.6	50.8	106	78.4	66.9	75.4	63.9
ORPs															
Electrical Conductivity (Lab)	µS/cm	5	470	570	700	1,400	368	381	414	381	437	578	437	394	243
Sodium Adsorption Ratio	-	0.01	1	2.4	5	12	2.74	1.76	2.82	2.76	1.48	3.08	0.64	0.92	0.36

Comments
#1 Table 1 Full Depth Background SCS for Agricultural or Other Property Use
#2 Table 1 Full Depth Background SCS for RPIIC Property Use
#3 Table 2.1 Full Depth Excess SCS in a Potable Ground Water Condition, RPI Property Use
#4 Table 3.1 Full Depth Excess SCS in a Non-Potable Ground Water Condition, ICC Property Use
#5 Total Boron standard is for sub-surface soil (>1.5 m).
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
A Concentration exceeds Table 7 SCS #1
RDL - Reportable Detection Limit
RPI - Residential / Parkland / Institutional Property Use
ICC - Industrial / Commercial / Community Property Use
SCS - Site Condition Standard
*- Parameter not analyzed
*- Less than reported detection limit
NV - No Value
µg/g - microgram per gram



Table 2 - Soil Quality (mSPLP Leachate)

Soil Quality (mSPLP Leachate)			Location Code	SS103-02	SS104-08	SS105-06
			Date	15 Oct 2025	15 Oct 2025	15 Oct 2025
			Field ID	SS103-02	SS104-08	SS105-06
			Depth	0.3 - 1.0	0.3 - 1.0	0.3 - 1.0
	Unit	RDL	Table 2.1 LSL (RPI) #1			
Metals						
Antimony	µg/L	0.5	5	<0.5	<0.5	<0.5
Arsenic	µg/L	1	NV	<1.0	2.2	1.6
Barium	µg/L	1	1,000	33.3	77.8	55.7
Beryllium	µg/L	0.5	4	<0.5	<0.5	<0.5
Boron	µg/L	10	5,000	<10.0	25.6	13.5
Cadmium	µg/L	0.2	NV	<0.2	<0.2	<0.2
Chromium (total)	µg/L	1	50	2.6	5.3	4.5
Cobalt	µg/L	0.5	3.8	0.5	1.5	1.6
Copper	µg/L	0.5	14	4.3	12.3	9.1
Lead	µg/L	0.2	NV	7.8	8.0	11.0
Molybdenum	µg/L	0.5	23	0.7	1.9	1.1
Nickel	µg/L	1	78	1.9	3.4	3.3
Selenium	µg/L	1	10	<1.0	<1.0	<1.0
Silver	µg/L	0.2	0.3	<0.2	<0.2	<0.2
Thallium	µg/L	0.5	2	<0.5	<0.5	<0.5
Uranium	µg/L	0.2	20	<0.2	0.3	0.2
Vanadium	µg/L	0.5	NV	3.9	11.2	10.8
Zinc	µg/L	5	180	10.8	21.0	24.7

Comments

#1 Table 2.1 LSL for Full Depth Excess Soil in a Potable Ground Water Condition, RPI Property Use

A Concentration exceeds Table 2.1 LSL (RPI) #1

RDL - Reportable Detection Limit

RPI - Residential / Parkland / Institutional Property Use

ICC - Industrial / Commercial / Community Property Use

SCS - Site Condition Standard

* - Parameter not analyzed

* - Less than reported detection limit

NV - No Value

µg/L - microgram per litre



Table 3 - Soil Quality (TCLP Leachate)

				Location Code	SS102-05	SS104-08	SS105-01
				Field ID	SS102-05	SS104-08	SS105-01
				Date	15 Oct 2025	15 Oct 2025	15 Oct 2025
				Lab Report Number	2542144	2542144	2542144
	Unit	RDL	O.Reg 558 #1				
BTEX							
Benzene	mg/L	5	0.5	<0.005	<0.005	<0.005	<0.005
PAHs							
Benzo(a)pyrene	mg/L	0.1	0.001	<0.0001	<0.0001	<0.0001	<0.0001
PCBs							
PCBs total	mg/L	3	0.3	<0.003	<0.003	<0.003	<0.003
VOCs							
Carbon tetrachloride	mg/L	5	0.5	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	mg/L	4	8	<0.004	<0.004	<0.004	<0.004
Chloroform	mg/L	6	10	<0.006	<0.006	<0.006	<0.006
Dichlorobenzene, 1,2-	mg/L	4	20	<0.004	<0.004	<0.004	<0.004
Dichlorobenzene, 1,4-	mg/L	4	0.5	<0.004	<0.004	<0.004	<0.004
Dichloroethane, 1,2-	mg/L	5	0.5	<0.005	<0.005	<0.005	<0.005
Dichloroethylene, 1,1-	mg/L	6	1.4	<0.006	<0.006	<0.006	<0.006
Dichloromethane	mg/L	40	5	<0.04	<0.04	<0.04	<0.04
Methyl Ethyl Ketone	mg/L	300	200	<0.30	<0.30	<0.30	<0.30
Tetrachloroethylene	mg/L	5	3	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	mg/L	4	5	<0.004	<0.004	<0.004	<0.004
Vinyl chloride	mg/L	5	0.2	<0.005	<0.005	<0.005	<0.005
Metals							
Arsenic	mg/L	1	2.5	<0.05	<0.05	<0.05	<0.05
Barium	mg/L	1	100	0.75	0.61	0.77	0.77
Boron	mg/L	10	500	<0.1	0.2	<0.1	<0.1
Cadmium	mg/L	0.2	0.5	<0.01	<0.02	<0.01	<0.01
Chromium (total)	mg/L	1	5	<0.05	<0.05	<0.05	<0.05
Lead	mg/L	0.2	5	<0.05	<0.05	<0.05	<0.05
Selenium	mg/L	1	1	<0.05	<0.1	<0.05	<0.05
Silver	mg/L	0.2	5	<0.05	<0.05	<0.05	<0.05
Uranium	mg/L	0.2	10	<0.05	<0.05	<0.05	<0.05
ORPs							
Cyanide (Free)	mg/L	20	20	<0.02	<0.02	<0.02	<0.02
Mercury	mg/L	5	0.1	<0.005	<0.005	<0.005	<0.005
Nitrate (as N)	mg/L	1		<1	<1	<1	<1
Nitrite (as N)	mg/L	1		<1	<1	<1	<1
Nitrite + Nitrate as N	mg/L	2	1,000	<2	<2	<2	<2
Other							
Fluoride	mg/L	0.05	150	0.14	0.23	0.12	0.12

Comments

#1 Ontario Regulation 558/00

A Concentration exceeds O.Reg 558 #1

RDL - Reportable Detection Limit

RPI - Residential / Parkland / Institutional Property Use

ICC - Industrial / Commercial / Community Property Use

SCS - Site Condition Standard

*- Parameter not analyzed

*< - Less than reported detection limit

NV - No Value

mg/L - milligram per litre



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Certificate of Analysis

Cambium Inc. (Kingston)

102-31 Hyperion Court
Kingston, ON K7K 7G3
Attn: Alicia Mcdonald

Client PO:

Project: 24372-002

Custody: 149027,028,031,030,029

Report Date: 21-Oct-2025

Order Date: 15-Oct-2025

Order #: 2542144

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	Paracel ID	Client ID
2542144-01	SS101-01	2542144-17	SS103-03
2542144-02	QAQC1	2542144-18	SS103-04
2542144-03	SS101-02	2542144-19	SS103-05
2542144-04	SS101-03	2542144-20	SS103-06
2542144-05	SS101-04	2542144-21	SS103-07
2542144-06	SS102-01	2542144-22	SS103-08
2542144-07	QAQC4	2542144-23	SS103-09
2542144-08	SS102-02	2542144-24	SS103-10
2542144-09	SS102-03	2542144-25	SS103-11
2542144-10	SS102-04	2542144-26	SS103-12
2542144-11	SS102-05	2542144-27	SS104-01
2542144-12	SS102-06	2542144-28	QAQC5
2542144-13	SS102-07	2542144-29	SS104-02
2542144-14	SS103-01	2542144-30	SS104-03
2542144-15	QAQC3	2542144-31	SS104-04
2542144-16	SS103-02	2542144-32	SS104-05

Approved By:

Mark Foto

Mark Foto, M.Sc.

Laboratory Director



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Paracel ID	Client ID
2542144-33	SS104-06
2542144-34	SS104-07
2542144-35	SS104-08
2542144-36	SS105-01
2542144-37	QAQC2
2542144-38	SS105-02
2542144-39	SS105-03
2542144-40	SS105-04
2542144-41	SS105-05
2542144-42	SS105-06
2542144-43	SS105-07

**Order #: 2542144**

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	17-Oct-25	18-Oct-25
Conductivity	MOE E3138 - probe @25 °C, water ext	17-Oct-25	21-Oct-25
PHC F1	CWS Tier 1 - P&T GC-FID	17-Oct-25	18-Oct-25
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	20-Oct-25	21-Oct-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	17-Oct-25	21-Oct-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	17-Oct-25	17-Oct-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	17-Oct-25	21-Oct-25
SAR	Calculated	17-Oct-25	17-Oct-25
Solids, %	CWS Tier 1 - Gravimetric	16-Oct-25	17-Oct-25



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Summary of Criteria Exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS101-01	Conductivity	5 uS/cm	785	0.57 mS/cm	-
SS101-01	F3 PHCs (C16-C34)	8 ug/g	298	240 ug/g	-
SS101-01	F4 PHCs (C34-C50)	6 ug/g	500 [2]	120 ug/g	-
SS101-01	F4G PHCs (gravimetric)	50 ug/g	1020	120 ug/g	-
SS101-01	Fluoranthene	0.02 ug/g	0.91	0.56 ug/g	-
QAQC1	F3 PHCs (C16-C34)	8 ug/g	252	240 ug/g	-
QAQC1	F4 PHCs (C34-C50)	6 ug/g	439 [2]	120 ug/g	-
QAQC1	F4G PHCs (gravimetric)	50 ug/g	877	120 ug/g	-
SS101-02	F4 PHCs (C34-C50)	6 ug/g	173 [2]	120 ug/g	-
SS101-02	F4G PHCs (gravimetric)	50 ug/g	777	120 ug/g	-
SS101-04	Conductivity	5 uS/cm	639	0.57 mS/cm	-
SS101-04	F4 PHCs (C34-C50)	6 ug/g	328 [2]	120 ug/g	-
SS101-04	F4G PHCs (gravimetric)	50 ug/g	467	120 ug/g	-
SS102-01	F4 PHCs (C34-C50)	6 ug/g	300 [2]	120 ug/g	-
SS102-01	F4G PHCs (gravimetric)	50 ug/g	367	120 ug/g	-
QAQC4	F4 PHCs (C34-C50)	6 ug/g	259 [2]	120 ug/g	-
QAQC4	F4G PHCs (gravimetric)	50 ug/g	359	120 ug/g	-
SS102-03	Acenaphthylene	0.02 ug/g	0.12	0.093 ug/g	-
SS102-03	Anthracene	0.02 ug/g	0.21	0.16 ug/g	-
SS102-03	Benzo [a] anthracene	0.02 ug/g	0.57	0.36 ug/g	-
SS102-03	Benzo [a] pyrene	0.02 ug/g	0.65	0.3 ug/g	-
SS102-03	Benzo [b] fluoranthene	0.02 ug/g	0.63	0.47 ug/g	-

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Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS102-03	Dibenzo [a,h] anthracene	0.02 ug/g	0.12	0.1 ug/g	-
SS102-03	Fluoranthene	0.02 ug/g	1.26	0.56 ug/g	-
SS102-03	Pyrene	0.02 ug/g	1.10	1 ug/g	-
SS102-04	Benzo [a] pyrene	0.02 ug/g	0.33	0.3 ug/g	-
SS102-04	Fluoranthene	0.02 ug/g	0.66	0.56 ug/g	-
SS102-05	Acenaphthene	0.02 ug/g	0.09	0.072 ug/g	-
SS102-05	Acenaphthylene	0.02 ug/g	0.22	0.093 ug/g	-
SS102-05	Anthracene	0.02 ug/g	0.44	0.16 ug/g	-
SS102-05	Benzo [a] anthracene	0.02 ug/g	0.78	0.36 ug/g	-
SS102-05	Benzo [a] pyrene	0.02 ug/g	0.86	0.3 ug/g	-
SS102-05	Benzo [b] fluoranthene	0.02 ug/g	0.90	0.47 ug/g	-
SS102-05	Benzo [g,h,i] perylene	0.02 ug/g	0.79	0.68 ug/g	-
SS102-05	Benzo [k] fluoranthene	0.02 ug/g	0.51	0.48 ug/g	-
SS102-05	Dibenzo [a,h] anthracene	0.02 ug/g	0.19	0.1 ug/g	-
SS102-05	Fluoranthene	0.02 ug/g	1.51	0.56 ug/g	-
SS102-05	Phenanthrene	0.02 ug/g	1.14	0.69 ug/g	-
SS102-05	Pyrene	0.02 ug/g	1.42	1 ug/g	-
SS102-06	Acenaphthylene	0.02 ug/g	0.12	0.093 ug/g	-
SS102-06	Benzo [a] pyrene	0.02 ug/g	0.44	0.3 ug/g	-
SS102-06	Fluoranthene	0.02 ug/g	0.65	0.56 ug/g	-
SS102-07	F4 PHCs (C34-C50)	6 ug/g	291 [2]	120 ug/g	-
SS102-07	F4G PHCs (gravimetric)	50 ug/g	727	120 ug/g	-



Order #: 2542144

Certificate of Analysis

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Summary of Criteria Exceedances

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Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS102-07	Acenaphthene	0.02 ug/g	0.08	0.072 ug/g	-
SS102-07	Acenaphthylene	0.02 ug/g	0.12	0.093 ug/g	-
SS102-07	Anthracene	0.02 ug/g	0.24	0.16 ug/g	-
SS102-07	Benzo [a] anthracene	0.02 ug/g	0.49	0.36 ug/g	-
SS102-07	Benzo [a] pyrene	0.02 ug/g	0.56	0.3 ug/g	-
SS102-07	Fluoranthene	0.02 ug/g	1.13	0.56 ug/g	-
SS102-07	Phenanthrene	0.02 ug/g	0.89	0.69 ug/g	-
SS103-01	F4 PHCs (C34-C50)	6 ug/g	145 [2]	120 ug/g	-
SS103-01	F4G PHCs (gravimetric)	50 ug/g	257	120 ug/g	-
SS103-02	Silver	0.3 ug/g	1.1	0.5 ug/g	-
SS103-03	F4 PHCs (C34-C50)	6 ug/g	203 [2]	120 ug/g	-
SS103-03	F4G PHCs (gravimetric)	50 ug/g	244	120 ug/g	-
SS103-04	F4 PHCs (C34-C50)	6 ug/g	125 [2]	120 ug/g	-
SS103-06	Ethylbenzene	0.05 ug/g	0.27	0.05 ug/g	-
SS103-06	Xylenes, total	0.05 ug/g	0.44	0.05 ug/g	-
SS103-07	F2 PHCs (C10-C16)	4 ug/g	<40 [1]	10 ug/g	-
SS103-07	F3 PHCs (C16-C34)	8 ug/g	743	240 ug/g	-
SS103-07	F4 PHCs (C34-C50)	6 ug/g	1390 [2]	120 ug/g	-
SS103-07	F4G PHCs (gravimetric)	50 ug/g	530	120 ug/g	-
SS103-07	Acenaphthene	0.02 ug/g	<0.40 [1]	0.072 ug/g	-
SS103-07	Acenaphthylene	0.02 ug/g	<0.40 [1]	0.093 ug/g	-
SS103-07	Anthracene	0.02 ug/g	<0.40 [1]	0.16 ug/g	-

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Summary of Criteria Exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS103-07	Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.36 ug/g	-
SS103-07	Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.3 ug/g	-
SS103-07	Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	0.1 ug/g	-
SS103-07	Fluorene	0.02 ug/g	<0.40 [1]	0.12 ug/g	-
SS103-07	Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	0.59 ug/g	-
SS103-07	Naphthalene	0.01 ug/g	<0.20 [1]	0.09 ug/g	-
SS103-08	F4 PHCs (C34-C50)	6 ug/g	163 [2]	120 ug/g	-
SS103-08	F4G PHCs (gravimetric)	50 ug/g	782	120 ug/g	-
SS103-11	F4 PHCs (C34-C50)	6 ug/g	201 [2]	120 ug/g	-
SS103-11	F4G PHCs (gravimetric)	50 ug/g	233	120 ug/g	-
SS104-01	SAR	0.01 N/A	2.59	2.4 N/A	-
QAQC5	SAR	0.01 N/A	2.69	2.4 N/A	-
SS104-05	SAR	0.01 N/A	2.50	2.4 N/A	-
SS104-07	SAR	0.01 N/A	2.74	2.4 N/A	-
SS104-07	F4 PHCs (C34-C50)	6 ug/g	200 [2]	120 ug/g	-
SS104-07	F4G PHCs (gravimetric)	50 ug/g	527	120 ug/g	-
SS104-08	Arsenic	1.0 ug/g	27.1	18 ug/g	-
SS105-01	SAR	0.01 N/A	2.82	2.4 N/A	-
SS105-01	F2 PHCs (C10-C16)	4 ug/g	<40 [1]	10 ug/g	-
SS105-01	F3 PHCs (C16-C34)	8 ug/g	736	240 ug/g	-
SS105-01	F4 PHCs (C34-C50)	6 ug/g	2410 [2]	120 ug/g	-
SS105-01	F4G PHCs (gravimetric)	50 ug/g	3380	120 ug/g	-

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Summary of Criteria Exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS105-01	Acenaphthene	0.02 ug/g	<0.40 [1]	0.072 ug/g	-
SS105-01	Acenaphthylene	0.02 ug/g	<0.40 [1]	0.093 ug/g	-
SS105-01	Anthracene	0.02 ug/g	<0.40 [1]	0.16 ug/g	-
SS105-01	Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.36 ug/g	-
SS105-01	Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.3 ug/g	-
SS105-01	Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	0.1 ug/g	-
SS105-01	Fluorene	0.02 ug/g	<0.40 [1]	0.12 ug/g	-
SS105-01	Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	0.59 ug/g	-
SS105-01	Naphthalene	0.01 ug/g	<0.20 [1]	0.09 ug/g	-
QAQC2	SAR	0.01 N/A	2.76	2.4 N/A	-
QAQC2	F2 PHCs (C10-C16)	4 ug/g	<40 [1]	10 ug/g	-
QAQC2	F3 PHCs (C16-C34)	8 ug/g	372	240 ug/g	-
QAQC2	F4 PHCs (C34-C50)	6 ug/g	1490 [2]	120 ug/g	-
QAQC2	F4G PHCs (gravimetric)	50 ug/g	1940	120 ug/g	-
QAQC2	Acenaphthene	0.02 ug/g	<0.40 [1]	0.072 ug/g	-
QAQC2	Acenaphthylene	0.02 ug/g	<0.40 [1]	0.093 ug/g	-
QAQC2	Anthracene	0.02 ug/g	<0.40 [1]	0.16 ug/g	-
QAQC2	Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.36 ug/g	-
QAQC2	Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.3 ug/g	-
QAQC2	Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	0.1 ug/g	-
QAQC2	Fluorene	0.02 ug/g	<0.40 [1]	0.12 ug/g	-
QAQC2	Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	0.59 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Summary of Criteria Exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
QAQC2	Naphthalene	0.01 ug/g	<0.20 [1]	0.09 ug/g	-
SS105-02	F2 PHCs (C10-C16)	4 ug/g	<40 [1]	10 ug/g	-
SS105-02	F4 PHCs (C34-C50)	6 ug/g	913 [2]	120 ug/g	-
SS105-02	F4G PHCs (gravimetric)	50 ug/g	609	120 ug/g	-
SS105-03	SAR	0.01 N/A	3.08	2.4 N/A	-
SS105-03	Conductivity	5 uS/cm	578	0.57 mS/cm	-
SS105-04	F4 PHCs (C34-C50)	6 ug/g	191	120 ug/g	-
SS105-05	F4 PHCs (C34-C50)	6 ug/g	161 [2]	120 ug/g	-
SS105-05	F4G PHCs (gravimetric)	50 ug/g	462	120 ug/g	-
SS105-06	Copper	5.0 ug/g	104	92 ug/g	-
SS105-06	F4 PHCs (C34-C50)	6 ug/g	325 [2]	120 ug/g	-
SS105-06	F4G PHCs (gravimetric)	50 ug/g	538	120 ug/g	-
SS105-07	F2 PHCs (C10-C16)	4 ug/g	<40 [1]	10 ug/g	-
SS105-07	F4 PHCs (C34-C50)	6 ug/g	729 [2]	120 ug/g	-
SS105-07	F4G PHCs (gravimetric)	50 ug/g	1350	120 ug/g	-
SS105-07	Acenaphthene	0.02 ug/g	<0.40 [1]	0.072 ug/g	-
SS105-07	Acenaphthylene	0.02 ug/g	<0.40 [1]	0.093 ug/g	-
SS105-07	Anthracene	0.02 ug/g	<0.40 [1]	0.16 ug/g	-
SS105-07	Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.36 ug/g	-
SS105-07	Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.3 ug/g	-
SS105-07	Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	0.1 ug/g	-
SS105-07	Fluorene	0.02 ug/g	<0.40 [1]	0.12 ug/g	-



Certificate of Analysis
Client: Cambium Inc. (Kingston)
Client PO:

Order #: 2542144

Report Date: 21-Oct-2025
Order Date: 15-Oct-2025
Project Description: 24372-002

Summary of Criteria Exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -T1 Res/Park/Ind/Com	-
SS105-07	Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	0.59 ug/g	-
SS105-07	Naphthalene	0.01 ug/g	<0.20 [1]	0.09 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19 -T1
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	95.7	96.9	94.0	83.9	-
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General Inorganics

SAR	0.01 N/A	0.25	0.30	1.54	1.49	2.4 N/A
Conductivity	5 uS/cm	785	539	545	517	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	1.9	1.7	1.8	2.2	18 ug/g
Barium	1.0 ug/g	66.4	60.6	60.2	85.3	220 ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	8.1	7.3	6.8	7.7	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	31.8	28.6	21.3	18.3	70 ug/g
Cobalt	1.0 ug/g	5.4	4.1	4.2	5.9	21 ug/g
Copper	5.0 ug/g	16.5	17.1	29.0	14.5	92 ug/g
Lead	1.0 ug/g	11.2	10.0	13.7	23.3	120 ug/g
Molybdenum	1.0 ug/g	1.5	1.5	1.7	<1.0	2 ug/g
Nickel	5.0 ug/g	10.1	9.2	8.9	12.3	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	19.5	17.2	19.9	26.7	86 ug/g
Zinc	20.0 ug/g	87.8	87.2	56.9	49.7	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19 -T1
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	96.8%	96.5%	98.1%	104%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	298	252	129	75	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	500 [2]	439 [2]	173 [2]	52	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	1020	877	777	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	0.05	0.05	<0.02	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.29	0.10	0.04	0.03	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.30	0.10	0.05	0.03	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.37	0.11	0.05	0.04	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.21	0.08	0.06	0.03	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.20	0.06	0.03	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	0.33	0.10	0.05	0.03	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.05	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.91	0.27	0.11	0.06	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19 -T1
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.19	0.06	0.04	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	0.32	0.16	0.04	0.03	0.69 ug/g	-
Pyrene	0.02 ug/g	0.70	0.21	0.09	0.05	1 ug/g	-
2-Fluorobiphenyl	Surrogate	62.8%	92.6%	65.1%	70.2%	-	-
Terphenyl-d14	Surrogate	75.1%	80.6%	73.9%	71.1%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19 -T1
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	89.9	90.0	89.1	90.8	-
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General Inorganics

SAR	0.01 N/A	1.74	0.12	0.09	0.10	2.4 N/A
Conductivity	5 uS/cm	639	206	203	176	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	2.4	3.3	3.5	4.0	18 ug/g
Barium	1.0 ug/g	111	172	159	124	220 ug/g
Beryllium	0.5 ug/g	<0.5	0.7	0.6	0.6	2.5 ug/g
Boron	5.0 ug/g	10.2	11.2	10.6	8.3	36 ug/g
Cadmium	0.5 ug/g	<0.5	0.8	0.6	<0.5	1.2 ug/g
Chromium	5.0 ug/g	37.7	31.3	30.1	27.7	70 ug/g
Cobalt	1.0 ug/g	7.3	10.0	9.4	9.0	21 ug/g
Copper	5.0 ug/g	28.4	34.5	30.3	25.6	92 ug/g
Lead	1.0 ug/g	29.7	32.0	33.6	61.0	120 ug/g
Molybdenum	1.0 ug/g	1.1	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	15.3	24.3	24.5	17.5	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	32.6	40.5	39.1	38.1	86 ug/g
Zinc	20.0 ug/g	92.1	107	102	92.9	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19 -T1
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	101%	99.4%	99.4%	99.1%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	164	112	110	68	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	328 [2]	300 [2]	259 [2]	90	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	467	367	359	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	0.03	0.04	0.03	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.12	0.12	0.07	0.05	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.11	0.14	0.08	0.07	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.11	0.14	0.09	0.07	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.10	0.13	0.07	0.05	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.06	0.08	0.05	0.03	0.48 ug/g	-
Chrysene	0.02 ug/g	0.12	0.12	0.08	0.06	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	0.03	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.30	0.28	0.17	0.14	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19 -T1 -
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.08	0.10	0.06	0.04	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	0.02	0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	0.14	0.15	0.08	0.07	0.69 ug/g	-
Pyrene	0.02 ug/g	0.23	0.24	0.14	0.12	1 ug/g	-
2-Fluorobiphenyl	Surrogate	69.6%	77.6%	82.8%	83.9%	-	-
Terphenyl-d14	Surrogate	73.4%	93.3%	80.1%	80.6%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 -T1
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	90.6	87.4	91.6	88.8	-	-
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General Inorganics

SAR	0.01 N/A	0.09	0.09	0.09	1.07	2.4 N/A	-
Conductivity	5 uS/cm	168	236	169	235	0.57 mS/cm	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g	-
Arsenic	1.0 ug/g	4.3	4.3	5.3	4.2	18 ug/g	-
Barium	1.0 ug/g	217	211	175	197	220 ug/g	-
Beryllium	0.5 ug/g	0.9	0.8	0.7	0.9	2.5 ug/g	-
Boron	5.0 ug/g	10.3	9.3	12.0	11.5	36 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	39.5	36.8	29.5	39.6	70 ug/g	-
Cobalt	1.0 ug/g	13.4	11.9	11.8	12.5	21 ug/g	-
Copper	5.0 ug/g	35.8	35.4	46.0	35.2	92 ug/g	-
Lead	1.0 ug/g	53.9	70.8	106	55.3	120 ug/g	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g	-
Nickel	5.0 ug/g	27.8	25.5	23.8	26.4	82 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g	-
Vanadium	10.0 ug/g	55.9	48.5	44.5	54.3	86 ug/g	-
Zinc	20.0 ug/g	111	118	162	157	290 ug/g	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g	-
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 -T1
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	99.7%	101%	101%	101%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	18	35	72	22	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	19	52	69	27	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	0.04	0.05	0.09	0.03	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	0.12	0.08	0.22	0.12	0.093 ug/g	-
Anthracene	0.02 ug/g	0.21	0.14	0.44	0.16	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.57	0.28	0.78	0.35	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.65	0.33	0.86	0.44	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.63	0.32	0.90	0.44	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.49	0.22	0.79	0.30	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.34	0.18	0.51	0.24	0.48 ug/g	-
Chrysene	0.02 ug/g	0.52	0.28	0.73	0.34	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.12	0.05	0.19	0.07	0.1 ug/g	-
Fluoranthene	0.02 ug/g	1.26	0.66	1.51	0.65	0.56 ug/g	-
Fluorene	0.02 ug/g	0.05	0.04	0.12	0.04	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.44	0.20	0.70	0.27	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 -T1 -
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Semi-Volatiles

1-Methylnaphthalene	0.02 ug/g	0.04	0.02	0.06	0.04	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	0.04	0.03	0.06	0.04	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	0.08	0.05	0.12	0.09	0.59 ug/g	-
Naphthalene	0.01 ug/g	0.04	0.02	0.07	0.04	0.09 ug/g	-
Phenanthrene	0.02 ug/g	0.63	0.46	1.14	0.39	0.69 ug/g	-
Pyrene	0.02 ug/g	1.10	0.55	1.42	0.61	1 ug/g	-
2-Fluorobiphenyl	Surrogate	80.4%	64.3%	59.8%	77.9%	-	-
Terphenyl-d 14	Surrogate	84.4%	61.2%	73.5%	75.5%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 -T1
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	90.8	93.6	94.1	93.2	-
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General Inorganics

SAR	0.01 N/A	0.29	0.42	0.84	0.11	2.4 N/A
Conductivity	5 uS/cm	197	145	172	130	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	4.4	2.3	2.3	1.8	18 ug/g
Barium	1.0 ug/g	184	89.7	69.3	45.2	220 ug/g
Beryllium	0.5 ug/g	0.8	0.7	0.6	<0.5	2.5 ug/g
Boron	5.0 ug/g	11.5	7.2	6.3	<5.0	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	33.0	18.9	16.7	10.0	70 ug/g
Cobalt	1.0 ug/g	11.9	5.7	5.1	3.5	21 ug/g
Copper	5.0 ug/g	34.4	16.5	14.5	12.2	92 ug/g
Lead	1.0 ug/g	61.6	25.3	22.5	25.8	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	23.9	12.2	10.4	6.7	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	1.1	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	46.9	26.9	24.6	15.4	86 ug/g
Zinc	20.0 ug/g	157	36.9	33.2	26.6	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 -T1
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	99.8%	98.0%	98.7%	99.6%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	8	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	144 [3]	178	60	49	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	291 [2]	145 [2]	89	85	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	727	257	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	0.08	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	0.12	<0.02	0.03	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	0.24	<0.02	0.08	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.49	0.04	0.16	0.03	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.56	0.04	0.15	0.03	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.42	0.03	0.10	0.03	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.39	0.05	0.13	0.03	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.24	<0.02	0.06	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	0.56	0.03	0.13	0.03	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.10	<0.02	0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	1.13	0.08	0.36	0.07	0.56 ug/g	-
Fluorene	0.02 ug/g	0.08	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 -T1
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.36	<0.02	0.08	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	0.07	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	0.06	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	0.13	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	0.07	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	0.89	0.04	0.25	0.04	0.69 ug/g	-
Pyrene	0.02 ug/g	0.97	0.08	0.35	0.06	1 ug/g	-
2-Fluorobiphenyl	Surrogate	73.1%	78.0%	73.0%	76.0%	-	-
Terphenyl-d14	Surrogate	74.7%	73.5%	66.5%	74.3%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19 -T1
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.3	93.2	94.0	94.0	-	-
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General Inorganics

SAR	0.01 N/A	0.10	0.09	0.44	0.20	2.4 N/A	-
Conductivity	5 uS/cm	126	127	147	146	0.57 mS/cm	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g	-
Arsenic	1.0 ug/g	3.1	1.9	4.5	2.7	18 ug/g	-
Barium	1.0 ug/g	52.3	47.5	94.3	63.5	220 ug/g	-
Beryllium	0.5 ug/g	0.6	<0.5	0.7	0.5	2.5 ug/g	-
Boron	5.0 ug/g	5.3	5.7	7.4	6.1	36 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	12.2	12.5	19.7	13.7	70 ug/g	-
Cobalt	1.0 ug/g	4.3	4.2	7.3	4.8	21 ug/g	-
Copper	5.0 ug/g	15.6	13.5	32.8	15.7	92 ug/g	-
Lead	1.0 ug/g	34.6	23.5	95.4	41.3	120 ug/g	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g	-
Nickel	5.0 ug/g	8.6	8.2	13.8	9.3	82 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g	-
Vanadium	10.0 ug/g	18.7	18.8	33.2	21.8	86 ug/g	-
Zinc	20.0 ug/g	34.3	25.3	102	43.2	290 ug/g	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g	-
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19 -T1
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	0.27	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	0.44	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	0.44	0.05 ug/g	-
Toluene-d8	Surrogate	98.2%	99.1%	82.9%	83.3%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	13	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	190	93	28	45	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	203 [2]	125 [2]	29	44	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	244	118	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	0.02	<0.02	0.03	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.04	0.06	0.06	0.03	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.05	0.06	0.06	0.04	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.04	0.04	0.05	0.03	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.25	0.09	0.09	0.11	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	0.03	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	0.04	0.05	0.06	0.03	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.07	0.10	0.15	0.07	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19 - T1
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.04	0.03	0.04	0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	0.04	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	0.04	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	0.07	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	0.03	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	0.06	0.05	0.12	0.05	0.69 ug/g	-
Pyrene	0.02 ug/g	0.10	0.12	0.13	0.07	1 ug/g	-
2-Fluorobiphenyl	Surrogate	77.5%	78.0%	77.2%	93.8%	-	-
Terphenyl-d14	Surrogate	95.6%	70.6%	73.9%	85.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 -T1
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.3	93.4	92.9	91.1	-
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General Inorganics

SAR	0.01 N/A	0.16	1.88	0.09	0.36	2.4 N/A
Conductivity	5 uS/cm	140	243	103	166	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	4.2	3.7	1.7	3.6	18 ug/g
Barium	1.0 ug/g	63.0	120	29.5	78.2	220 ug/g
Beryllium	0.5 ug/g	0.5	0.7	<0.5	0.7	2.5 ug/g
Boron	5.0 ug/g	6.0	9.2	<5.0	5.8	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	17.0	28.6	10.9	18.4	70 ug/g
Cobalt	1.0 ug/g	6.2	10.4	4.2	6.1	21 ug/g
Copper	5.0 ug/g	22.4	34.3	12.9	22.0	92 ug/g
Lead	1.0 ug/g	63.9	47.9	10.6	71.3	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	12.7	19.0	6.7	11.5	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	27.0	41.7	16.3	28.0	86 ug/g
Zinc	20.0 ug/g	54.5	75.5	<20.0	62.0	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 -T1
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	82.7%	83.5%	85.0%	84.6%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<40 [1]	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	743	58	49	22	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	1390 [2]	163 [2]	27	22	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	530	782	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.03	0.03	0.04	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.04	0.03	0.04	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.40 [1]	0.03	0.03	0.05	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.61	0.03	0.07	0.03	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	0.03	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.40 [1]	0.03	0.04	0.05	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.40 [1]	0.07	0.08	0.10	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 -T1
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.40 [1]	0.02	<0.02	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.20 [1]	0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.40 [1]	0.04	0.04	0.07	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.40 [1]	0.06	0.07	0.09	1 ug/g	-
2-Fluorobiphenyl	Surrogate	60.7%	73.9%	67.4%	59.9%	-	-
Terphenyl-d14	Surrogate	76.5%	79.8%	72.7%	67.5%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19 -T1
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.5	95.4	94.5	93.9	-
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General Inorganics

SAR	0.01 N/A	0.09	0.27	2.59	2.69	2.4 N/A
Conductivity	5 uS/cm	117	125	428	419	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	2.4	2.3	1.9	2.2	18 ug/g
Barium	1.0 ug/g	48.3	39.0	88.1	91.6	220 ug/g
Beryllium	0.5 ug/g	0.5	<0.5	<0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	6.9	5.5	10.0	9.0	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	12.8	11.4	18.7	15.2	70 ug/g
Cobalt	1.0 ug/g	4.6	4.1	7.5	7.2	21 ug/g
Copper	5.0 ug/g	14.9	14.6	15.4	14.4	92 ug/g
Lead	1.0 ug/g	20.8	16.3	11.5	13.4	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	8.9	7.7	12.4	12.6	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	19.4	16.6	25.9	24.6	86 ug/g
Zinc	20.0 ug/g	31.4	22.0	36.7	34.4	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19 -T1
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	83.4%	82.6%	83.1%	81.8%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	96	122	33	31	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	201 [2]	108	59	58	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	233	-	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.02	0.03	<0.02	<0.02	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.03	0.04	<0.02	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.02	0.03	<0.02	<0.02	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.14	0.12	<0.02	<0.02	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	0.02	0.03	<0.02	<0.02	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.04	0.06	<0.02	<0.02	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19 -T1
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	0.02	<0.02	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	0.03	<0.02	<0.02	0.69 ug/g	-
Pyrene	0.02 ug/g	0.04	0.06	<0.02	<0.02	1 ug/g	-
2-Fluorobiphenyl	Surrogate	78.9%	70.4%	76.6%	66.7%	-	-
Terphenyl-d14	Surrogate	83.8%	93.8%	78.0%	77.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19 -T1
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	90.9	92.0	88.8	91.1	-	-
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General Inorganics

SAR	0.01 N/A	1.96	2.38	1.99	2.50	2.4 N/A	-
Conductivity	5 uS/cm	307	321	319	361	0.57 mS/cm	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g	-
Arsenic	1.0 ug/g	2.5	2.2	2.7	2.9	18 ug/g	-
Barium	1.0 ug/g	99.8	80.0	109	96.0	220 ug/g	-
Beryllium	0.5 ug/g	0.6	0.5	0.6	0.6	2.5 ug/g	-
Boron	5.0 ug/g	8.5	7.1	9.7	8.1	36 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	21.1	16.7	22.3	19.6	70 ug/g	-
Cobalt	1.0 ug/g	7.7	7.2	8.2	8.1	21 ug/g	-
Copper	5.0 ug/g	16.0	16.1	17.8	17.3	92 ug/g	-
Lead	1.0 ug/g	15.0	13.0	18.1	17.5	120 ug/g	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g	-
Nickel	5.0 ug/g	14.3	11.8	15.4	14.1	82 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g	-
Vanadium	10.0 ug/g	31.8	25.1	33.6	30.6	86 ug/g	-
Zinc	20.0 ug/g	40.8	37.6	45.3	44.0	290 ug/g	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g	-
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Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19 -T1
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	85.9%	85.9%	86.2%	85.1%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	31	31	16	29	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	65	55	28	43	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.08	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.07	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.07	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	0.08	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.04	<0.02	<0.02	0.20	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.03	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19 -T1 -
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Semi-Volatiles

1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	0.05	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	0.08	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	0.21	0.69 ug/g	-
Pyrene	0.02 ug/g	0.03	<0.02	<0.02	0.17	1 ug/g	-
2-Fluorobiphenyl	Surrogate	54.0%	66.5%	56.2%	55.6%	-	-
Terphenyl-d14	Surrogate	69.0%	78.4%	77.2%	75.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19 -T1
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	91.9	91.2	92.7	92.9	-	-
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General Inorganics

SAR	0.01 N/A	2.08	2.74	1.76	2.82	2.4 N/A	-
Conductivity	5 uS/cm	353	368	381	414	0.57 mS/cm	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g	-
Arsenic	1.0 ug/g	2.8	2.5	27.1	3.7	18 ug/g	-
Barium	1.0 ug/g	113	87.8	166	121	220 ug/g	-
Beryllium	0.5 ug/g	0.6	<0.5	0.5	0.5	2.5 ug/g	-
Boron	5.0 ug/g	9.8	7.7	25.4	7.8	36 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	0.6	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	22.7	19.0	27.9	21.5	70 ug/g	-
Cobalt	1.0 ug/g	8.4	6.9	6.9	8.1	21 ug/g	-
Copper	5.0 ug/g	17.7	19.9	70.3	18.9	92 ug/g	-
Lead	1.0 ug/g	15.5	25.7	41.5	19.7	120 ug/g	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	1.2	2 ug/g	-
Nickel	5.0 ug/g	15.6	11.8	14.6	16.0	82 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g	-
Vanadium	10.0 ug/g	34.7	26.4	31.7	34.7	86 ug/g	-
Zinc	20.0 ug/g	44.6	51.7	129	65.6	290 ug/g	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g	-
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19 -T1
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	84.8%	84.1%	83.5%	84.0%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<40 [1]	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	34	63	40	736	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	70	200 [2]	90	2410 [2]	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	-	527	-	3380	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	0.03	<0.02	<0.40 [1]	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	0.05	0.03	<0.40 [1]	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19 -T1
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.80 [1]	0.59 ug/g	-
Naphthalene	0.01 ug/g	0.01	<0.01	0.02	<0.20 [1]	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	0.03	0.03	<0.40 [1]	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.02	0.04	0.03	<0.40 [1]	1 ug/g	-
2-Fluorobiphenyl	Surrogate	63.8%	71.2%	65.7%	63.9%	-	-
Terphenyl-d14	Surrogate	68.4%	76.4%	63.8%	73.1%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19 -T1
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	93.8	85.4	87.6	91.0	-
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General Inorganics

SAR	0.01 N/A	2.76	1.48	3.08	0.64	2.4 N/A
Conductivity	5 uS/cm	381	437	578	437	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	3.4	3.6	2.9	2.6	18 ug/g
Barium	1.0 ug/g	115	125	108	100	220 ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	8.5	13.1	10.2	9.5	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	18.9	22.3	19.9	17.7	70 ug/g
Cobalt	1.0 ug/g	7.9	7.4	6.8	6.3	21 ug/g
Copper	5.0 ug/g	16.4	26.9	20.8	24.9	92 ug/g
Lead	1.0 ug/g	13.3	48.2	31.6	25.1	120 ug/g
Molybdenum	1.0 ug/g	1.1	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	14.7	16.2	13.8	12.5	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	31.5	29.0	28.8	23.5	86 ug/g
Zinc	20.0 ug/g	50.8	106	78.4	66.9	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19 -T1
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	-
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Toluene-d8	Surrogate	83.8%	86.0%	85.5%	84.5%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<40 [1]	<40 [1]	<4	<4	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	372	170	71	118	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	1490 [2]	913 [2]	105	191	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	1940	609	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.05	0.03	0.04	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.06	0.04	0.04	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.40 [1]	0.07	0.04	0.05	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.40 [1]	0.05	0.04	0.04	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.40 [1]	0.03	<0.02	0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.40 [1]	0.06	0.03	0.04	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.40 [1]	0.13	0.06	0.07	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19 -T1
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.40 [1]	0.03	0.02	0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	<0.04	<0.04	<0.04	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.20 [1]	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.40 [1]	0.06	0.03	0.04	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.40 [1]	0.10	0.05	0.06	1 ug/g	-
2-Fluorobiphenyl	Surrogate	92.5%	73.2%	68.6%	68.3%	-	-
Terphenyl-d14	Surrogate	79.8%	75.4%	87.6%	74.6%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19 -T1
Sample ID:	2542144-41	2542144-42	2542144-43		Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil		
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	88.7	87.3	93.1	-	-
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General Inorganics

SAR	0.01 N/A	0.92	0.80	0.36	-	2.4 N/A
Conductivity	5 uS/cm	394	243	183	-	0.57 mS/cm

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	-	1.3 ug/g
Arsenic	1.0 ug/g	2.6	2.7	1.8	-	18 ug/g
Barium	1.0 ug/g	122	106	74.9	-	220 ug/g
Beryllium	0.5 ug/g	0.6	0.6	<0.5	-	2.5 ug/g
Boron	5.0 ug/g	8.1	8.4	8.1	-	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	-	1.2 ug/g
Chromium	5.0 ug/g	25.3	21.9	20.4	-	70 ug/g
Cobalt	1.0 ug/g	8.5	7.5	4.3	-	21 ug/g
Copper	5.0 ug/g	22.5	104	20.8	-	92 ug/g
Lead	1.0 ug/g	29.9	26.7	17.9	-	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	-	2 ug/g
Nickel	5.0 ug/g	16.3	15.1	10.3	-	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	-	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	-	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	-	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	-	2.5 ug/g
Vanadium	10.0 ug/g	37.9	32.5	22.3	-	86 ug/g
Zinc	20.0 ug/g	75.4	120	63.9	-	290 ug/g

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	-	0.02 ug/g
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Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19 -T1
Sample ID:	2542144-41	2542144-42	2542144-43		Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil		
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	-	0.2 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Toluene-d8	Surrogate	94.1%	89.1%	86.5%	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	-	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<40 [1]	-	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	81	133	148	-	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	161 [2]	325 [2]	729 [2]	-	120 ug/g	-
F4G PHCs (gravimetric)	50 ug/g	462	538	1350	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	0.03	<0.40 [1]	-	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.03	0.06	<0.40 [1]	-	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.05	0.09	<0.40 [1]	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.04	0.08	<0.40 [1]	-	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.03	0.08	<0.40 [1]	-	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.03	0.04	<0.40 [1]	-	0.48 ug/g	-
Chrysene	0.02 ug/g	0.03	0.07	<0.40 [1]	-	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.05	0.10	0.46	-	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.12 ug/g	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19 -T1 -
Sample ID:	2542144-41	2542144-42	2542144-43		Res/Park/Ind/Com
Matrix:	Soil	Soil	Soil		
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.02	0.06	<0.40 [1]	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.59 ug/g -
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	0.59 ug/g -
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.80 [1]	-	0.59 ug/g -
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.20 [1]	-	0.09 ug/g -
Phenanthrene	0.02 ug/g	<0.02	0.05	<0.40 [1]	-	0.69 ug/g -
Pyrene	0.02 ug/g	0.05	0.10	0.46	-	1 ug/g -
2-Fluorobiphenyl	Surrogate	69.2%	67.6%	85.9%	-	-
Terphenyl-d14	Surrogate	70.6%	74.2%	81.7%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Hydrocarbons								
F4G PHCs (gravimetric)	ND	50	ug/g					
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.964		%	72.3	50-140			
Surrogate: Terphenyl-d14	1.32		%	99.2	50-140			
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	6.73		%	84.1	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.23	0.01	N/A	0.25			8.3	30	
Conductivity	800	5	uS/cm	785			2.0	5	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	287	8	ug/g	298			3.8	30	
F4 PHCs (C34-C50)	499	6	ug/g	500			0.3	30	
F4G PHCs (gravimetric)	1200	50	ug/g	1520			23.4	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	1.9	1.0	ug/g	1.9			0.3	30	
Barium	53.8	1.0	ug/g	66.4			20.8	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron	8.0	5.0	ug/g	8.1			2.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	33.4	5.0	ug/g	31.8			5.0	30	
Cobalt	5.3	1.0	ug/g	5.4			2.9	30	
Copper	16.9	5.0	ug/g	16.5			2.4	30	
Lead	10.4	1.0	ug/g	11.2			6.9	30	
Molybdenum	1.5	1.0	ug/g	1.5			1.5	30	
Nickel	9.6	5.0	ug/g	10.1			5.6	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	17.8	10.0	ug/g	19.5			9.0	30	
Zinc	77.6	20.0	ug/g	87.8			12.4	30	
Physical Characteristics									
% Solids	84.5	0.1	% by Wt.	84.9			0.5	25	
Semi-Volatiles									



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.026	0.02	ug/g	0.049			NC	40	
Benzo [a] anthracene	0.054	0.02	ug/g	0.288			NC	40	
Benzo [a] pyrene	0.068	0.02	ug/g	0.303			NC	40	
Benzo [b] fluoranthene	0.095	0.02	ug/g	0.372			NC	40	
Benzo [g,h,i] perylene	0.090	0.02	ug/g	0.206			NC	40	
Benzo [k] fluoranthene	0.049	0.02	ug/g	0.196			NC	40	
Chrysene	0.068	0.02	ug/g	0.329			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	0.048			NC	40	
Fluoranthene	0.189	0.02	ug/g	0.913			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.048	0.02	ug/g	0.188			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.105	0.02	ug/g	0.323			NC	40	
Pyrene	0.150	0.02	ug/g	0.704			NC	40	
Surrogate: 2-Fluorobiphenyl	0.892		%		64.1	50-140			
Surrogate: Terphenyl-d14	1.06		%		76.4	50-140			
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.15		%		84.0	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	168	7	ug/g	ND	97.5	85-115			
F2 PHCs (C10-C16)	97	4	ug/g	ND	116	60-140			
F3 PHCs (C16-C34)	558	8	ug/g	298	127	60-140			
F4 PHCs (C34-C50)	596	6	ug/g	500	73.7	60-140			
F4G PHCs (gravimetric)	900	50	ug/g	ND	90.0	80-120			
Metals									
Antimony	38.3	1.0	ug/g	ND	76.0	70-130			
Arsenic	47.4	1.0	ug/g	ND	93.3	70-130			
Barium	68.5	1.0	ug/g	26.5	84.0	70-130			
Beryllium	48.2	0.5	ug/g	ND	96.2	70-130			
Boron	47.6	5.0	ug/g	ND	88.7	70-130			
Cadmium	45.1	0.5	ug/g	ND	90.1	70-130			
Chromium	65.3	5.0	ug/g	12.7	105	70-130			
Cobalt	50.1	1.0	ug/g	2.2	95.8	70-130			
Copper	52.1	5.0	ug/g	6.6	91.0	70-130			
Lead	46.4	1.0	ug/g	4.5	83.9	70-130			
Molybdenum	48.1	1.0	ug/g	ND	95.0	70-130			
Nickel	51.9	5.0	ug/g	ND	95.7	70-130			
Selenium	44.1	1.0	ug/g	ND	88.0	70-130			
Silver	42.1	0.3	ug/g	ND	84.1	70-130			
Thallium	45.0	1.0	ug/g	ND	90.0	70-130			
Uranium	46.2	1.0	ug/g	ND	92.1	70-130			
Vanadium	58.4	10.0	ug/g	ND	101	70-130			
Zinc	73.6	20.0	ug/g	35.1	76.9	70-130			
Semi-Volatiles									
Acenaphthene	0.108	0.02	ug/g	ND	60.3	50-140			
Acenaphthylene	0.120	0.02	ug/g	ND	67.2	50-140			
Anthracene	0.142	0.02	ug/g	ND	79.4	50-140			
Benzo [a] anthracene	0.138	0.02	ug/g	0.032	59.9	50-140			
Benzo [a] pyrene	0.136	0.02	ug/g	0.036	56.1	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	0.133	0.02	ug/g	0.027	59.1	50-140			
Benzo [g,h,i] perylene	0.126	0.02	ug/g	0.034	51.2	50-140			
Benzo [k] fluoranthene	0.108	0.02	ug/g	ND	60.3	50-140			
Chrysene	0.152	0.02	ug/g	0.034	65.8	50-140			
Dibenzo [a,h] anthracene	0.126	0.02	ug/g	ND	70.8	50-140			
Fluoranthene	0.162	0.02	ug/g	0.067	53.2	50-140			
Fluorene	0.108	0.02	ug/g	ND	60.7	50-140			
Indeno [1,2,3-cd] pyrene	0.132	0.02	ug/g	0.023	60.7	50-140			
1-Methylnaphthalene	0.115	0.02	ug/g	ND	64.3	50-140			
2-Methylnaphthalene	0.098	0.02	ug/g	ND	55.1	50-140			
Naphthalene	0.133	0.01	ug/g	0.013	66.8	50-140			
Phenanthrene	0.146	0.02	ug/g	0.041	58.9	50-140			
Pyrene	0.161	0.02	ug/g	0.062	55.4	50-140			
Surrogate: 2-Fluorobiphenyl	0.733		%		51.3	50-140			
Surrogate: Terphenyl-d14	0.926		%		64.9	50-140			
Volatiles									
Benzene	3.41	0.02	ug/g	ND	85.1	60-130			
Ethylbenzene	3.52	0.05	ug/g	ND	87.9	60-130			
Toluene	3.53	0.05	ug/g	ND	88.3	60-130			
m,p-Xylenes	7.16	0.05	ug/g	ND	89.5	60-130			
o-Xylene	3.56	0.05	ug/g	ND	88.9	60-130			
Surrogate: Toluene-d8	6.55		%		81.9	50-140			



Order #: 2542144

Certificate of Analysis

Client: Cambium Inc. (Kingston)

Client PO:

Report Date: 21-Oct-2025

Order Date: 15-Oct-2025

Project Description: 24372-002

Qualifier Notes:

Sample Qualifiers :

- 1: Elevated reporting limits due to the nature of the sample matrix.
- 2: GC-FID signal did not return to baseline by C50
Applies to Samples: SS101-01, QAQC1, SS101-02, SS101-04, SS102-01, QAQC4, SS102-07, SS103-01, SS103-03, SS103-04, SS103-07, SS103-08, SS103-11, SS104-07, SS105-01, QAQC2, SS105-02, SS105-05, SS105-06, SS105-07
- 3: Some peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup. Results may be biased high.
Applies to Samples: SS102-07

QC Qualifiers:

Sample Data Revisions:

None



Order #: 2542144

Certificate of Analysis

Report Date: 21-Oct-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Work Order Revisions / Comments:

None

Other Report Notes:

n/a; not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Parcel ID: 2542144

PARACEL

TI
RE
RIParcel Order Number
(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149027

Client Name: Cambium	Project Ref: 24372-002	Page 1 of 25
Contact Name: Alicia McDonald	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular Date Required:
Address:	PO #:	
Telephone: 613-328-6034	E-mail: alicia.mcdonald arlie.flynn	

☐ REG 153/04 ☒ REG 406/19 Other Regulation ☒ Table 1 ☐ Agri/Other ☐ Med/Env ☐ REG 558 ☐ PWQP ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ CCME ☐ MSA ☐ Table 3 ☐ Ind/Comm ☐ SU - Sanit ☐ SU - Storm ☐ Table _____ For RSC: ☐ Yes ☒ No ☐ Other:	Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)	Required Analysis PHCs F1-F4+STX VOCs PAHs Metals by ICP Hg Cr-VI B (HWE) SAR EY
Sample ID/Location Name 1 SS101-01 2 QAQC1 3 SS101-02 4 SS101-03 5 SS101-04 6 SS102-01 7 QAQC4 8 SS102-02 9 SS102-03 10 SS102-04	Matrix Air Volume # of Containers Field Filtered Sample Taken Date Time	PHCs F1-F4+STX VOCs PAHs Metals by ICP Hg Cr-VI B (HWE) SAR EY

Comments:

Method of Delivery:

walk in

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellab.com

Relinquished By (Sign): <i>Patricia Leslie</i>	Received at Depot: <i>Oct 15 14:00</i>	Received at Lab: <i>LTJ</i>	Verified By: <i>AL</i>
By (Print): Patricia Leslie	Date/Time: Oct 15 14:00	Date/Time: 16/10/25, 11:08	Date/Time: Oct 15 14:53
15/10/25	Temperature: 15.4 °C	Temperature: 14.4, 9.0, 18.3	pH Verified: ☐ 8% 3.5, 6.7

Jr. (Rev) 10/15/2010

PARACEL

Parcel ID: 2542144

T
R
E



Parcel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149028

Client Name: Cambium
Contact Name: Alicia McDonald
Address:
Telephone: 613-328-8034

Project Ref: 24372-002
Quote #:
PO #:
E-mail: alicia.mcdonald@arlie.flynn

Page 2 of 5
Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☐ REG 153/04 ☒ REG 406/19 Other Regulation
☒ Table 1 ☐ Agr/Other ☐ Med/Fine ☐ REG 558 ☐ P/ACO
☐ Table 2 ☒ Res/Park ☒ Course ☐ CCME ☐ MISA
☐ Table 3 ☐ Ind/Comm ☐ SU - Sani ☐ SU - Storm
☐ Table _____
For RSC: ☐ Yes ☒ No ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	CAR	SAR
					Date	Time									
1 SS102-05	S		3		15/10/25	10:50	✓	✓	✓	✓				✓	✓
2 SS102-06						10:55	✓	✓	✓	✓				✓	✓
3 SS102-07						11:00	✓	✓	✓	✓				✓	✓
4 SS103-01						9:15	✓	✓	✓	✓				✓	✓
5 QAQC3							✓	✓	✓	✓				✓	✓
6 SS103-02						9:20	✓	✓	✓	✓				✓	✓
7 SS103-03						9:25	✓	✓	✓	✓				✓	✓
8 SS103-04						9:30	✓	✓	✓	✓				✓	✓
9 SS103-05						9:35	✓	✓	✓	✓				✓	✓
10 SS103-06						9:40	✓	✓	✓	✓				✓	✓

Comments:

Method of Delivery: Walk-in

Unless otherwise negotiated by the parties, by signing Parcel's Chain of Custody form, you are agreeing to Parcel's Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign): <u>Raige Leslie</u>	Received at Depot: <u>CEL</u>	Received at Lab: <u>LIT</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Raige Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25; 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.9</u> °C	pH Verified: ☐ by:

Chain of Custody Form - Revision 10

10.2 0.0 0.1

Parcel ID: 2542144

PARACEL

Parcel Order Number
(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149031

Client Name: <u>Cambium</u>	Project Ref: <u>24372-002</u>	Page <u>3</u> of <u>5</u>
Contact Name:	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address:	PO #:	
Telephone: <u>613-328-6034</u>	E-mail: <u>alicia.mcdonald</u> <u>arlie.flynn</u>	
Date Required:		

☐ REG 153/04 ☒ REG 405/19 ☒ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☒ No	Other Regulation ☐ REG 558 ☐ PW/QO ☐ CCME ☐ MSA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed.) <u>GW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis												
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken Date Time		PHCs FI-P-Q-BTEX	VOCC	PAHs	Metals by ICP	Hg	CvI	B (HWE)	SAR	EC
1 <u>SS103-07</u>	<u>S</u>		<u>3</u>		<u>15/10/25</u>	<u>9:45</u>	☒	☒	☒	☒				☒	☒
2 <u>SS103-08</u>	<u>S</u>		<u>1</u>			<u>9:50</u>	☒	☒	☒	☒				☒	☒
3 <u>SS103-09</u>	<u>S</u>		<u>1</u>			<u>9:55</u>	☒	☒	☒	☒				☒	☒
4 <u>SS103-10</u>	<u>S</u>		<u>1</u>			<u>10:00</u>	☒	☒	☒	☒				☒	☒
5 <u>SS103-11</u>	<u>S</u>		<u>1</u>			<u>10:05</u>	☒	☒	☒	☒				☒	☒
6 <u>SS103-12</u>	<u>S</u>		<u>1</u>			<u>10:10</u>	☒	☒	☒	☒				☒	☒
7 <u>SS104-01</u>	<u>S</u>		<u>1</u>			<u>11:40</u>	☒	☒	☒	☒				☒	☒
8 <u>QAQCS</u>	<u>S</u>		<u>1</u>			<u>—</u>	☒	☒	☒	☒				☒	☒
9 <u>SS104-02</u>	<u>S</u>		<u>1</u>			<u>11:50</u>	☒	☒	☒	☒				☒	☒
10 <u>SS104-03</u>	<u>S</u>		<u>1</u>			<u>11:55</u>	☒	☒	☒	☒				☒	☒

Comments:

Method of Delivery:

WalkinUnless otherwise negotiated by the parties, by signing Parcel's Chain of Custody form, you are agreeing to Parcel's laboratory Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracelab.com

Relinquished By (Sign): <u>Payge Leslie</u>	Received at Depot: <u>CREF</u>	Received at Lab: <u>LTI</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Payge Leslie</u>	Date/Time: <u>15/10/25 14:00</u>	Date/Time: <u>16/10/25 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.9</u> °C	all Verified: ☐ By: <u>13 E.C.7</u>

Chain of Custody (Third) - Revision 7.0

PARACEL

Parcel ID: 2542144



Parcel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149030

Page 2 of 5

Client Name: Cambium
 Contact Name: Alicia McDonald
 Address:
 Telephone: 613-328-6034

Project Ref: 24372-002

Quote #:

PO #:

E-mail: alicia.mcdonald@arlie.flynn

Turnaround Time

☐ 1 day ☐ 3 day

☐ 2 day ☒ Regular

Date Required:

☐ REG 153/04 ☒ REG 406/19 Other Regulation

☒ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ REG 55B ☐ PWRQO

☐ Table 2 ☒ Res/Park ☒ Coarse ☐ CCME ☐ MGA

☐ Table 3 ☐ Ind/Comm ☐ SU - Semi ☐ SU - Storm

☐ Table ☐ For RSC: ☐ Yes ☒ No ☐ Other:

Matrix Type: S (Soil/Sed) GW (Ground Water)
 SW (Surface Water) SS (Storm/Sanitary Sewer)
 P (Paint) A (Air) O (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs FL-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	SAR	EC
						Date	Time									
1	SS104-04	S		W		15/10/25	12:00	✓	✓	✓	✓				✓	✓
2	SS104-05						12:05	✓	✓	✓	✓				✓	✓
3	SS104-06						12:10	✓	✓	✓	✓				✓	✓
4	SS104-07						12:15	✓	✓	✓	✓				✓	✓
5	SS104-08						12:20	✓	✓	✓	✓				✓	✓
6	SS105-01						8:10	✓	✓	✓	✓				✓	✓
7	QAQC2							✓	✓	✓	✓				✓	✓
8	SS105-02						8:20	✓	✓	✓	✓				✓	✓
9	SS105-03						8:30	✓	✓	✓	✓				✓	✓
10	SS105-04						8:40	✓	✓	✓	✓				✓	✓

Comments:

Method of Delivery:

COURIER

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Relinquished By (Sign): Paige Leslie

Received at Depot: CRT

Received at Lab: LTY

Verified By: Oct 15 14:53

Relinquished By (Print): Paige Leslie

Date/Time: Oct 15 14:00

Date/Time: 16/10/25, 11:08

Date/Time:

Date/Time: 15/10/25

Temperature: 15.4 °C

Temperature: 14.4 °C, 18.3

PH Verified: ☐ By:

Paracel ID: 2542144

PARACEL



Paracel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149029

Client Name: <u>Campium</u>	Project Ref: <u>24372-002</u>	Page <u>5</u> of <u>45</u>
Contact Name: <u>Alicia McDonald</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular Date Required:
Address:	PO #:	
Telephone: <u>613-329-6034</u>	E-mail: <u>alicia.mcdonald@arhe.flynn</u>	

☐ REG 153/04 ☒ REG 406/19 ☒ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☒ No	Other Regulation ☐ REG 55B ☐ PWQO ☐ CCME ☐ MGA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed.) <u>GW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis PHC ₃ FI-F4-BTEX VOCs PAHs Metals by ICP Hg CrVI B (HWE) SAR EC												
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHC ₃ FI-F4-BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	SAR	EC
1 <u>SS105-05</u>	<u>S</u>		<u>3</u>		<u>15/10/25</u>	<u>8:50</u>	☒		☒	☒				☒	☒
2 <u>SS105-06</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>	<u>9:00</u>	☒		☒	☒				☒	☒
3 <u>SS105-07</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>	<u>9:10</u>	☒		☒	☒				☒	☒
4															
5															
6															
7															
8															
9															
10															

Comments:	Method of Delivery: <u>Lab Use</u>
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Relinquished By (Sign): <u>[Signature]</u>	Received at Depot: <u>CRT</u>	Received at Lab: <u>LTT</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Pidge Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25, 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.9</u> °C	Not Verified: ☐ By: _____



300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Cambium Inc. (Kingston)

102-31 Hyperion Court
Kingston, ON K7K 7G3
Attn: Alicia McDonald

Client PO:
Project: 24372-002

Custody: 149027,028,031,030,029

Report Date: 26-Nov-2025
Order Date: 15-Oct-2025

Revised Report

Order #: 2542144

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	Paracel ID	Client ID
2542144-01	SS101-01	2542144-17	SS103-03
2542144-02	QAQC1	2542144-18	SS103-04
2542144-03	SS101-02	2542144-19	SS103-05
2542144-04	SS101-03	2542144-20	SS103-06
2542144-05	SS101-04	2542144-21	SS103-07
2542144-06	SS102-01	2542144-22	SS103-08
2542144-07	QAQC4	2542144-23	SS103-09
2542144-08	SS102-02	2542144-24	SS103-10
2542144-09	SS102-03	2542144-25	SS103-11
2542144-10	SS102-04	2542144-26	SS103-12
2542144-11	SS102-05	2542144-27	SS104-01
2542144-12	SS102-06	2542144-28	QAQC5
2542144-13	SS102-07	2542144-29	SS104-02
2542144-14	SS103-01	2542144-30	SS104-03
2542144-15	QAQC3	2542144-31	SS104-04
2542144-16	SS103-02	2542144-32	SS104-05

Approved By:

A. Torra

Adriana Tirca, B.Eng (Chem)

Supervisor



Certificate of Analysis

Client: Cambium Inc. (Kingston)

Client PO:

Paracel ID	Client ID
2542144-33	SS104-06
2542144-34	SS104-07
2542144-35	SS104-08
2542144-36	SS105-01
2542144-37	QAQC2
2542144-38	SS105-02
2542144-39	SS105-03
2542144-40	SS105-04
2542144-41	SS105-05
2542144-42	SS105-06
2542144-43	SS105-07

Order #: 2542144

Report Date: 26-Nov-2025

Order Date: 15-Oct-2025

Project Description: 24372-002



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	17-Oct-25	18-Oct-25
Conductivity	MOE E3138 - probe @25 °C, water ext	17-Oct-25	21-Oct-25
Metals, ICP-MS	TCLP EPA 6020 - Digestion - ICP-MS	25-Nov-25	25-Nov-25
PHC F1	CWS Tier 1 - P&T GC-FID	17-Oct-25	18-Oct-25
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	20-Oct-25	21-Oct-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	17-Oct-25	21-Oct-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	17-Oct-25	17-Oct-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	17-Oct-25	21-Oct-25
REG 406: Metals, leachate	mSPLP EPA 6020 - Digestion - ICP-MS	24-Nov-25	25-Nov-25
REG 558 - Cyanide	TCLP MOE E3015- Auto Colour	25-Nov-25	25-Nov-25
REG 558 - Fluoride	TCLP EPA 340.2 - ISE	25-Nov-25	25-Nov-25
REG 558 - Mercury by CVAA	TCLP EPA 7470A, CVAA	25-Nov-25	25-Nov-25
REG 558 - NO3/NO2	TCLP EPA 300.1 - IC	25-Nov-25	25-Nov-25
REG 558 - PAHs	TCLP EPA 625 - GC-MS	25-Nov-25	25-Nov-25
REG 558 - PCBs	TCLP EPA 608 - GC-ECD	25-Nov-25	25-Nov-25
REG 558 - VOCs	TCLP ZHE EPA 624 - P&T GC-MS	25-Nov-25	25-Nov-25
SAR	Calculated	17-Oct-25	17-Oct-25
Solids, %	CWS Tier 1 - Gravimetric	16-Oct-25	17-Oct-25



Certificate of Analysis
Client: Cambium Inc. (Kingston)
Client PO:

Order #: 2542144

Report Date: 26-Nov-2025
Order Date: 15-Oct-2025
Project Description: 24372-002

Summary of Criteria Exceedances

If this page is blank, then there are no exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 406/19 -Leachate T1 Res/Park/Ind/Com	Reg 558 Schedule 4
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	95.7	96.9	94.0	83.9	-	-
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General Inorganics

SAR	0.01 N/A	0.25	0.30	1.54	1.49	-	-
Conductivity	5 uS/cm	785	539	545	517	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.9	1.7	1.8	2.2	-	-
Barium	1.0 ug/g	66.4	60.6	60.2	85.3	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	8.1	7.3	6.8	7.7	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	31.8	28.6	21.3	18.3	-	-
Cobalt	1.0 ug/g	5.4	4.1	4.2	5.9	-	-
Copper	5.0 ug/g	16.5	17.1	29.0	14.5	-	-
Lead	1.0 ug/g	11.2	10.0	13.7	23.3	-	-
Molybdenum	1.0 ug/g	1.5	1.5	1.7	<1.0	-	-
Nickel	5.0 ug/g	10.1	9.2	8.9	12.3	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	19.5	17.2	19.9	26.7	-	-
Zinc	20.0 ug/g	87.8	87.2	56.9	49.7	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:	
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19	Reg 558 Schedule 4
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	-Leachate T1	
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com	
MDL/Units						

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	96.8%	96.5%	98.1%	104%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	298	252	129	75	-	-
F4 PHCs (C34-C50)	6 ug/g	500 [4]	439 [4]	173 [4]	52	-	-
F4G PHCs (gravimetric)	50 ug/g	1020	877	777	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	0.05	0.05	<0.02	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.29	0.10	0.04	0.03	-	-
Benzo [a] pyrene	0.02 ug/g	0.30	0.10	0.05	0.03	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.37	0.11	0.05	0.04	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.21	0.08	0.06	0.03	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.20	0.06	0.03	<0.02	-	-
Chrysene	0.02 ug/g	0.33	0.10	0.05	0.03	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.05	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	0.91	0.27	0.11	0.06	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-01	QAQC1	SS101-02	SS101-03	Criteria:
Sample Date:	15-Oct-25 07:35	15-Oct-25 00:00	15-Oct-25 07:45	15-Oct-25 07:50	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-01	2542144-02	2542144-03	2542144-04	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.19	0.06	0.04	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	0.32	0.16	0.04	0.03	-	-
Pyrene	0.02 ug/g	0.70	0.21	0.09	0.05	-	-
2-Fluorobiphenyl	Surrogate	62.8%	92.6%	65.1%	70.2%	-	-
Terphenyl-d14	Surrogate	75.1%	80.6%	73.9%	71.1%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	89.9	90.0	89.1	90.8	-	-
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General Inorganics

SAR	0.01 N/A	1.74	0.12	0.09	0.10	-	-
Conductivity	5 uS/cm	639	206	203	176	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.4	3.3	3.5	4.0	-	-
Barium	1.0 ug/g	111	172	159	124	-	-
Beryllium	0.5 ug/g	<0.5	0.7	0.6	0.6	-	-
Boron	5.0 ug/g	10.2	11.2	10.6	8.3	-	-
Cadmium	0.5 ug/g	<0.5	0.8	0.6	<0.5	-	-
Chromium	5.0 ug/g	37.7	31.3	30.1	27.7	-	-
Cobalt	1.0 ug/g	7.3	10.0	9.4	9.0	-	-
Copper	5.0 ug/g	28.4	34.5	30.3	25.6	-	-
Lead	1.0 ug/g	29.7	32.0	33.6	61.0	-	-
Molybdenum	1.0 ug/g	1.1	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	15.3	24.3	24.5	17.5	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	32.6	40.5	39.1	38.1	-	-
Zinc	20.0 ug/g	92.1	107	102	92.9	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	Reg 558 Schedule 4
Matrix:	Soil	Soil	Soil	Soil	-Leachate T1
					Res/Park/Ind/Com
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	101%	99.4%	99.4%	99.1%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	164	112	110	68	-	-
F4 PHCs (C34-C50)	6 ug/g	328 [4]	300 [4]	259 [4]	90	-	-
F4G PHCs (gravimetric)	50 ug/g	467	367	359	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	0.03	0.04	0.03	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.12	0.12	0.07	0.05	-	-
Benzo [a] pyrene	0.02 ug/g	0.11	0.14	0.08	0.07	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.11	0.14	0.09	0.07	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.10	0.13	0.07	0.05	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.06	0.08	0.05	0.03	-	-
Chrysene	0.02 ug/g	0.12	0.12	0.08	0.06	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	0.03	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	0.30	0.28	0.17	0.14	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS101-04	SS102-01	QAQC4	SS102-02	Criteria:
Sample Date:	15-Oct-25 07:55	15-Oct-25 10:30	15-Oct-25 00:00	15-Oct-25 10:35	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-05	2542144-06	2542144-07	2542144-08	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.08	0.10	0.06	0.04	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	0.02	0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	0.14	0.15	0.08	0.07	-	-
Pyrene	0.02 ug/g	0.23	0.24	0.14	0.12	-	-
2-Fluorobiphenyl	Surrogate	69.6%	77.6%	82.8%	83.9%	-	-
Terphenyl-d14	Surrogate	73.4%	93.3%	80.1%	80.6%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	90.6	87.4	91.6	88.8	-	-
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EPA 1311 - TCLP Leachate Inorganics

Fluoride	0.05 mg/L	-	-	0.14	-	-	150 mg/L
Nitrate as N	1 mg/L	-	-	<1 [2]	-	-	1000 mg/L
Nitrite as N	1 mg/L	-	-	<1 [2]	-	-	1000 mg/L
Nitrate + Nitrite as N	2 mg/L	-	-	<2 [2]	-	-	1000 mg/L
Cyanide, free	0.02 mg/L	-	-	<0.02 [2]	-	-	20 mg/L

EPA 1311 - TCLP Leachate Metals

Arsenic	0.05 mg/L	-	-	<0.05	-	-	2.5 mg/L
Barium	0.05 mg/L	-	-	0.75	-	-	100 mg/L
Boron	0.10 mg/L	-	-	<0.10	-	-	500 mg/L
Cadmium	0.01 mg/L	-	-	<0.01	-	-	0.5 mg/L
Chromium	0.05 mg/L	-	-	<0.05	-	-	5 mg/L
Lead	0.05 mg/L	-	-	<0.05	-	-	5 mg/L
Mercury	0.005 mg/L	-	-	<0.005 [2]	-	-	0.1 mg/L
Selenium	0.05 mg/L	-	-	<0.05	-	-	1 mg/L
Silver	0.05 mg/L	-	-	<0.05	-	-	5 mg/L
Uranium	0.05 mg/L	-	-	<0.05	-	-	10 mg/L

EPA 1311 - TCLP Leachate Volatiles

Benzene	0.005 mg/L	-	-	<0.005 [2]	-	-	0.5 mg/L
Carbon Tetrachloride	0.005 mg/L	-	-	<0.005 [2]	-	-	0.5 mg/L
Chlorobenzene	0.004 mg/L	-	-	<0.004 [2]	-	-	8 mg/L
Chloroform	0.006 mg/L	-	-	<0.006 [2]	-	-	10 mg/L
1,2-Dichlorobenzene	0.004 mg/L	-	-	<0.004 [2]	-	-	20 mg/L
1,4-Dichlorobenzene	0.004 mg/L	-	-	<0.004 [2]	-	-	0.5 mg/L



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

EPA 1311 - TCLP Leachate Volatiles

1,2-Dichloroethane	0.005 mg/L	-	-	<0.005 [2]	-	0.5 mg/L
1,1-Dichloroethylene	0.006 mg/L	-	-	<0.006 [2]	-	1.4 mg/L
Methyl Ethyl Ketone (2-Butanone)	0.30 mg/L	-	-	<0.30 [2]	-	200 mg/L
Methylene Chloride	0.04 mg/L	-	-	<0.04 [2]	-	5 mg/L
Tetrachloroethylene	0.005 mg/L	-	-	<0.005 [2]	-	3 mg/L
Trichloroethylene	0.004 mg/L	-	-	<0.004 [2]	-	5 mg/L
Vinyl chloride	0.005 mg/L	-	-	<0.005 [2]	-	0.2 mg/L
Dibromofluoromethane	Surrogate	-	-	103% [2]	-	-
4-Bromofluorobenzene	Surrogate	-	-	102% [2]	-	-
Toluene-d8	Surrogate	-	-	103% [2]	-	-

EPA 1311 - TCLP Leachate Organics

Benzo [a] pyrene	0.0001 mg/L	-	-	<0.0001	-	0.001 mg/L
Terphenyl-d14	Surrogate	-	-	90.5%	-	-
PCBs, total	0.003 mg/L	-	-	<0.003 [2]	-	0.3 mg/L
Decachlorobiphenyl	Surrogate	-	-	106% [2]	-	-

General Inorganics

SAR	0.01 N/A	0.09	0.09	0.09	1.07	-
Conductivity	5 uS/cm	168	236	169	235	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-
Arsenic	1.0 ug/g	4.3	4.3	5.3	4.2	-
Barium	1.0 ug/g	217	211	175	197	-
Beryllium	0.5 ug/g	0.9	0.8	0.7	0.9	-
Boron	5.0 ug/g	10.3	9.3	12.0	11.5	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-
Chromium	5.0 ug/g	39.5	36.8	29.5	39.6	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Metals

Cobalt	1.0 ug/g	13.4	11.9	11.8	12.5	-	-
Copper	5.0 ug/g	35.8	35.4	46.0	35.2	-	-
Lead	1.0 ug/g	53.9	70.8	106	55.3	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	27.8	25.5	23.8	26.4	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	55.9	48.5	44.5	54.3	-	-
Zinc	20.0 ug/g	111	118	162	157	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	99.7%	101%	101%	101%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	18	35	72	22	-	-
F4 PHCs (C34-C50)	6 ug/g	19	52	69	27	-	-

Semi-Volatiles



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-03	SS102-04	SS102-05	SS102-06	Criteria:
Sample Date:	15-Oct-25 10:40	15-Oct-25 10:45	15-Oct-25 10:50	15-Oct-25 10:55	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-09	2542144-10	2542144-11	2542144-12	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Acenaphthene	0.02 ug/g	0.04	0.05	0.09	0.03	-	-
Acenaphthylene	0.02 ug/g	0.12	0.08	0.22	0.12	-	-
Anthracene	0.02 ug/g	0.21	0.14	0.44	0.16	-	-
Benzo [a] anthracene	0.02 ug/g	0.57	0.28	0.78	0.35	-	-
Benzo [a] pyrene	0.02 ug/g	0.65	0.33	0.86	0.44	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.63	0.32	0.90	0.44	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.49	0.22	0.79	0.30	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.34	0.18	0.51	0.24	-	-
Chrysene	0.02 ug/g	0.52	0.28	0.73	0.34	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.12	0.05	0.19	0.07	-	-
Fluoranthene	0.02 ug/g	1.26	0.66	1.51	0.65	-	-
Fluorene	0.02 ug/g	0.05	0.04	0.12	0.04	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.44	0.20	0.70	0.27	-	-
1-Methylnaphthalene	0.02 ug/g	0.04	0.02	0.06	0.04	-	-
2-Methylnaphthalene	0.02 ug/g	0.04	0.03	0.06	0.04	-	-
Methylnaphthalene (1&2)	0.04 ug/g	0.08	0.05	0.12	0.09	-	-
Naphthalene	0.01 ug/g	0.04	0.02	0.07	0.04	-	-
Phenanthrene	0.02 ug/g	0.63	0.46	1.14	0.39	-	-
Pyrene	0.02 ug/g	1.10	0.55	1.42	0.61	-	-
2-Fluorobiphenyl	Surrogate	80.4%	64.3%	59.8%	77.9%	-	-
Terphenyl-d14	Surrogate	84.4%	61.2%	73.5%	75.5%	-	-

Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	90.8	93.6	94.1	93.2	-	-
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mSPLP Leachate Metals

Antimony	0.5 ug/L	-	-	-	<0.5	-	-
Arsenic	1.0 ug/L	-	-	-	<1.0	-	-
Barium	1.0 ug/L	-	-	-	33.3	-	-
Beryllium	0.5 ug/L	-	-	-	<0.5	-	-
Boron	10.0 ug/L	-	-	-	<10.0	-	-
Cadmium	0.2 ug/L	-	-	-	<0.2	-	-
Chromium	1.0 ug/L	-	-	-	2.6	-	-
Cobalt	0.5 ug/L	-	-	-	0.5	-	-
Copper	0.5 ug/L	-	-	-	4.3	-	-
Lead	0.2 ug/L	-	-	-	7.8	-	-
Molybdenum	0.5 ug/L	-	-	-	0.7	23 ug/L	-
Nickel	1.0 ug/L	-	-	-	1.9	-	-
Selenium	1.0 ug/L	-	-	-	<1.0	-	-
Silver	0.2 ug/L	-	-	-	<0.2	0.3 ug/L	-
Thallium	0.5 ug/L	-	-	-	<0.5	2 ug/L	-
Uranium	0.2 ug/L	-	-	-	<0.2	-	-
Vanadium	0.5 ug/L	-	-	-	3.9	-	-
Zinc	5.0 ug/L	-	-	-	10.8	-	-

General Inorganics

SAR	0.01 N/A	0.29	0.42	0.84	0.11	-	-
Conductivity	5 uS/cm	197	145	172	130	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Metals

Arsenic	1.0 ug/g	4.4	2.3	2.3	1.8	-	-
Barium	1.0 ug/g	184	89.7	69.3	45.2	-	-
Beryllium	0.5 ug/g	0.8	0.7	0.6	<0.5	-	-
Boron	5.0 ug/g	11.5	7.2	6.3	<5.0	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	33.0	18.9	16.7	10.0	-	-
Cobalt	1.0 ug/g	11.9	5.7	5.1	3.5	-	-
Copper	5.0 ug/g	34.4	16.5	14.5	12.2	-	-
Lead	1.0 ug/g	61.6	25.3	22.5	25.8	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	23.9	12.2	10.4	6.7	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	1.1	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	46.9	26.9	24.6	15.4	-	-
Zinc	20.0 ug/g	157	36.9	33.2	26.6	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	99.8%	98.0%	98.7%	99.6%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	8	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	144 [5]	178	60	49	-	-
F4 PHCs (C34-C50)	6 ug/g	291 [4]	145 [4]	89	85	-	-
F4G PHCs (gravimetric)	50 ug/g	727	257	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	0.08	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	0.12	<0.02	0.03	<0.02	-	-
Anthracene	0.02 ug/g	0.24	<0.02	0.08	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.49	0.04	0.16	0.03	-	-
Benzo [a] pyrene	0.02 ug/g	0.56	0.04	0.15	0.03	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.42	0.03	0.10	0.03	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.39	0.05	0.13	0.03	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.24	<0.02	0.06	<0.02	-	-
Chrysene	0.02 ug/g	0.56	0.03	0.13	0.03	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.10	<0.02	0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	1.13	0.08	0.36	0.07	-	-
Fluorene	0.02 ug/g	0.08	<0.02	<0.02	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.36	<0.02	0.08	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	0.07	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	0.06	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	0.13	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	0.07	<0.01	<0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	0.89	0.04	0.25	0.04	-	-
Pyrene	0.02 ug/g	0.97	0.08	0.35	0.06	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS102-07	SS103-01	QAQC3	SS103-02	Criteria:
Sample Date:	15-Oct-25 11:00	15-Oct-25 09:15	15-Oct-25 00:00	15-Oct-25 09:20	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-13	2542144-14	2542144-15	2542144-16	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

2-Fluorobiphenyl	Surrogate	73.1%	78.0%	73.0%	76.0%	-	-
Terphenyl-d14	Surrogate	74.7%	73.5%	66.5%	74.3%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	94.3	93.2	94.0	94.0	-	-
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General Inorganics

SAR	0.01 N/A	0.10	0.09	0.44	0.20	-	-
Conductivity	5 uS/cm	126	127	147	146	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	3.1	1.9	4.5	2.7	-	-
Barium	1.0 ug/g	52.3	47.5	94.3	63.5	-	-
Beryllium	0.5 ug/g	0.6	<0.5	0.7	0.5	-	-
Boron	5.0 ug/g	5.3	5.7	7.4	6.1	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	12.2	12.5	19.7	13.7	-	-
Cobalt	1.0 ug/g	4.3	4.2	7.3	4.8	-	-
Copper	5.0 ug/g	15.6	13.5	32.8	15.7	-	-
Lead	1.0 ug/g	34.6	23.5	95.4	41.3	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	8.6	8.2	13.8	9.3	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	18.7	18.8	33.2	21.8	-	-
Zinc	20.0 ug/g	34.3	25.3	102	43.2	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	0.27	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	0.44	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	0.44	-	-
Toluene-d8	Surrogate	98.2%	99.1%	82.9%	83.3%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	13	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	190	93	28	45	-	-
F4 PHCs (C34-C50)	6 ug/g	203 [4]	125 [4]	29	44	-	-
F4G PHCs (gravimetric)	50 ug/g	244	118	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	0.02	<0.02	0.03	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.04	0.06	0.06	0.03	-	-
Benzo [a] pyrene	0.02 ug/g	0.05	0.06	0.06	0.04	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.04	0.04	0.05	0.03	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.25	0.09	0.09	0.11	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	0.03	<0.02	-	-
Chrysene	0.02 ug/g	0.04	0.05	0.06	0.03	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	0.07	0.10	0.15	0.07	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-03	SS103-04	SS103-05	SS103-06	Criteria:
Sample Date:	15-Oct-25 09:25	15-Oct-25 09:30	15-Oct-25 09:35	15-Oct-25 09:40	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-17	2542144-18	2542144-19	2542144-20	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.04	0.03	0.04	0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	0.04	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	0.04	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	0.07	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	<0.01	0.03	<0.01	-	-
Phenanthrene	0.02 ug/g	0.06	0.05	0.12	0.05	-	-
Pyrene	0.02 ug/g	0.10	0.12	0.13	0.07	-	-
2-Fluorobiphenyl	Surrogate	77.5%	78.0%	77.2%	93.8%	-	-
Terphenyl-d14	Surrogate	95.6%	70.6%	73.9%	85.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.3	93.4	92.9	91.1	-	-
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General Inorganics

SAR	0.01 N/A	0.16	1.88	0.09	0.36	-	-
Conductivity	5 uS/cm	140	243	103	166	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	4.2	3.7	1.7	3.6	-	-
Barium	1.0 ug/g	63.0	120	29.5	78.2	-	-
Beryllium	0.5 ug/g	0.5	0.7	<0.5	0.7	-	-
Boron	5.0 ug/g	6.0	9.2	<5.0	5.8	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	17.0	28.6	10.9	18.4	-	-
Cobalt	1.0 ug/g	6.2	10.4	4.2	6.1	-	-
Copper	5.0 ug/g	22.4	34.3	12.9	22.0	-	-
Lead	1.0 ug/g	63.9	47.9	10.6	71.3	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	12.7	19.0	6.7	11.5	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	27.0	41.7	16.3	28.0	-	-
Zinc	20.0 ug/g	54.5	75.5	<20.0	62.0	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	82.7%	83.5%	85.0%	84.6%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<40 [1]	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	743	58	49	22	-	-
F4 PHCs (C34-C50)	6 ug/g	1390 [4]	163 [4]	27	22	-	-
F4G PHCs (gravimetric)	50 ug/g	530	782	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.03	0.03	0.04	-	-
Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.04	0.03	0.04	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.40 [1]	0.03	0.03	0.05	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.61	0.03	0.07	0.03	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	0.03	-	-
Chrysene	0.02 ug/g	<0.40 [1]	0.03	0.04	0.05	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	<0.40 [1]	0.07	0.08	0.10	-	-
Fluorene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-07	SS103-08	SS103-09	SS103-10	Criteria:
Sample Date:	15-Oct-25 09:45	15-Oct-25 09:50	15-Oct-25 09:55	15-Oct-25 10:00	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-21	2542144-22	2542144-23	2542144-24	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.40 [1]	0.02	<0.02	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	<0.20 [1]	0.01	<0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	<0.40 [1]	0.04	0.04	0.07	-	-
Pyrene	0.02 ug/g	<0.40 [1]	0.06	0.07	0.09	-	-
2-Fluorobiphenyl	Surrogate	60.7%	73.9%	67.4%	59.9%	-	-
Terphenyl-d14	Surrogate	76.5%	79.8%	72.7%	67.5%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	94.5	95.4	94.5	93.9	-	-
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General Inorganics

SAR	0.01 N/A	0.09	0.27	2.59	2.69	-	-
Conductivity	5 uS/cm	117	125	428	419	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.4	2.3	1.9	2.2	-	-
Barium	1.0 ug/g	48.3	39.0	88.1	91.6	-	-
Beryllium	0.5 ug/g	0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	6.9	5.5	10.0	9.0	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	12.8	11.4	18.7	15.2	-	-
Cobalt	1.0 ug/g	4.6	4.1	7.5	7.2	-	-
Copper	5.0 ug/g	14.9	14.6	15.4	14.4	-	-
Lead	1.0 ug/g	20.8	16.3	11.5	13.4	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	8.9	7.7	12.4	12.6	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	19.4	16.6	25.9	24.6	-	-
Zinc	20.0 ug/g	31.4	22.0	36.7	34.4	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	Reg 558 Schedule 4
Matrix:	Soil	Soil	Soil	Soil	-Leachate T1
MDL/Units					Res/Park/Ind/Com

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	83.4%	82.6%	83.1%	81.8%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	96	122	33	31	-	-
F4 PHCs (C34-C50)	6 ug/g	201 [4]	108	59	58	-	-
F4G PHCs (gravimetric)	50 ug/g	233	-	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.02	0.03	<0.02	<0.02	-	-
Benzo [a] pyrene	0.02 ug/g	0.03	0.04	<0.02	<0.02	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.02	0.03	<0.02	<0.02	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.14	0.12	<0.02	<0.02	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Chrysene	0.02 ug/g	0.02	0.03	<0.02	<0.02	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	0.04	0.06	<0.02	<0.02	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS103-11	SS103-12	SS104-01	QAQC5	Criteria:
Sample Date:	15-Oct-25 10:05	15-Oct-25 10:10	15-Oct-25 11:40	15-Oct-25 00:00	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-25	2542144-26	2542144-27	2542144-28	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	0.02	<0.02	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	<0.02	0.03	<0.02	<0.02	-	-
Pyrene	0.02 ug/g	0.04	0.06	<0.02	<0.02	-	-
2-Fluorobiphenyl	Surrogate	78.9%	70.4%	76.6%	66.7%	-	-
Terphenyl-d14	Surrogate	83.8%	93.8%	78.0%	77.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	90.9	92.0	88.8	91.1	-	-
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General Inorganics

SAR	0.01 N/A	1.96	2.38	1.99	2.50	-	-
Conductivity	5 uS/cm	307	321	319	361	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.5	2.2	2.7	2.9	-	-
Barium	1.0 ug/g	99.8	80.0	109	96.0	-	-
Beryllium	0.5 ug/g	0.6	0.5	0.6	0.6	-	-
Boron	5.0 ug/g	8.5	7.1	9.7	8.1	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	21.1	16.7	22.3	19.6	-	-
Cobalt	1.0 ug/g	7.7	7.2	8.2	8.1	-	-
Copper	5.0 ug/g	16.0	16.1	17.8	17.3	-	-
Lead	1.0 ug/g	15.0	13.0	18.1	17.5	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	14.3	11.8	15.4	14.1	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	31.8	25.1	33.6	30.6	-	-
Zinc	20.0 ug/g	40.8	37.6	45.3	44.0	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	85.9%	85.9%	86.2%	85.1%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	31	31	16	29	-	-
F4 PHCs (C34-C50)	6 ug/g	65	55	28	43	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.08	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.07	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.07	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.04	-	-
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	0.08	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	0.04	<0.02	<0.02	0.20	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.03	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-02	SS104-03	SS104-04	SS104-05	Criteria:
Sample Date:	15-Oct-25 11:50	15-Oct-25 11:55	15-Oct-25 12:00	15-Oct-25 12:05	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-29	2542144-30	2542144-31	2542144-32	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	0.05	-	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	0.08	-	-
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	0.21	-	-
Pyrene	0.02 ug/g	0.03	<0.02	<0.02	0.17	-	-
2-Fluorobiphenyl	Surrogate	54.0%	66.5%	56.2%	55.6%	-	-
Terphenyl-d14	Surrogate	69.0%	78.4%	77.2%	75.8%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	91.9	91.2	92.7	92.9	-	-
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mSPLP Leachate Metals

Antimony	0.5 ug/L	-	-	<0.5	-	-	-
Arsenic	1.0 ug/L	-	-	2.2	-	-	-
Barium	1.0 ug/L	-	-	77.8	-	-	-
Beryllium	0.5 ug/L	-	-	<0.5	-	-	-
Boron	10.0 ug/L	-	-	25.6	-	-	-
Cadmium	0.2 ug/L	-	-	<0.2	-	-	-
Chromium	1.0 ug/L	-	-	5.3	-	-	-
Cobalt	0.5 ug/L	-	-	1.5	-	-	-
Copper	0.5 ug/L	-	-	12.3	-	-	-
Lead	0.2 ug/L	-	-	8.0	-	-	-
Molybdenum	0.5 ug/L	-	-	1.9	-	23 ug/L	-
Nickel	1.0 ug/L	-	-	3.4	-	-	-
Selenium	1.0 ug/L	-	-	<1.0	-	-	-
Silver	0.2 ug/L	-	-	<0.2	-	0.3 ug/L	-
Thallium	0.5 ug/L	-	-	<0.5	-	2 ug/L	-
Uranium	0.2 ug/L	-	-	0.3	-	-	-
Vanadium	0.5 ug/L	-	-	11.2	-	-	-
Zinc	5.0 ug/L	-	-	21.0	-	-	-

EPA 1311 - TCLP Leachate Inorganics

Fluoride	0.05 mg/L	-	-	0.23	0.12	-	150 mg/L
Nitrate as N	1 mg/L	-	-	<1 [2]	<1 [2]	-	1000 mg/L
Nitrite as N	1 mg/L	-	-	<1 [2]	<1 [2]	-	1000 mg/L
Nitrate + Nitrite as N	2 mg/L	-	-	<2 [2]	<2 [2]	-	1000 mg/L


Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

EPA 1311 - TCLP Leachate Inorganics

Cyanide, free	0.02 mg/L	-	-	<0.02 [2]	<0.02 [2]	-	20 mg/L
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EPA 1311 - TCLP Leachate Metals

Arsenic	0.05 mg/L	-	-	<0.05	<0.05	-	2.5 mg/L
Barium	0.05 mg/L	-	-	0.61	0.77	-	100 mg/L
Boron	0.10 mg/L	-	-	0.20	<0.10	-	500 mg/L
Cadmium	0.01 mg/L	-	-	<0.01	<0.01	-	0.5 mg/L
Chromium	0.05 mg/L	-	-	<0.05	<0.05	-	5 mg/L
Lead	0.05 mg/L	-	-	<0.05	<0.05	-	5 mg/L
Mercury	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	0.1 mg/L
Selenium	0.05 mg/L	-	-	<0.05	<0.05	-	1 mg/L
Silver	0.05 mg/L	-	-	<0.05	<0.05	-	5 mg/L
Uranium	0.05 mg/L	-	-	<0.05	<0.05	-	10 mg/L

EPA 1311 - TCLP Leachate Volatiles

Benzene	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	0.5 mg/L
Carbon Tetrachloride	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	0.5 mg/L
Chlorobenzene	0.004 mg/L	-	-	<0.004 [2]	<0.004 [2]	-	8 mg/L
Chloroform	0.006 mg/L	-	-	<0.006 [2]	<0.006 [2]	-	10 mg/L
1,2-Dichlorobenzene	0.004 mg/L	-	-	<0.004 [2]	<0.004 [2]	-	20 mg/L
1,4-Dichlorobenzene	0.004 mg/L	-	-	<0.004 [2]	<0.004 [2]	-	0.5 mg/L
1,2-Dichloroethane	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	0.5 mg/L
1,1-Dichloroethylene	0.006 mg/L	-	-	<0.006 [2]	<0.006 [2]	-	1.4 mg/L
Methyl Ethyl Ketone (2-Butanone)	0.30 mg/L	-	-	<0.30 [2]	<0.30 [2]	-	200 mg/L
Methylene Chloride	0.04 mg/L	-	-	<0.04 [2]	<0.04 [2]	-	5 mg/L
Tetrachloroethylene	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	3 mg/L
Trichloroethylene	0.004 mg/L	-	-	<0.004 [2]	<0.004 [2]	-	5 mg/L



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

EPA 1311 - TCLP Leachate Volatiles

Vinyl chloride	0.005 mg/L	-	-	<0.005 [2]	<0.005 [2]	-	0.2 mg/L
Toluene-d8	Surrogate	-	-	103% [2]	101% [2]	-	-
4-Bromofluorobenzene	Surrogate	-	-	104% [2]	104% [2]	-	-
Dibromofluoromethane	Surrogate	-	-	123% [2]	124% [2]	-	-

EPA 1311 - TCLP Leachate Organics

Benzo [a] pyrene	0.0001 mg/L	-	-	<0.0001	<0.0001	-	0.001 mg/L
Terphenyl-d14	Surrogate	-	-	78.5%	80.7%	-	-
PCBs, total	0.003 mg/L	-	-	<0.003 [2]	<0.003 [2]	-	0.3 mg/L
Decachlorobiphenyl	Surrogate	-	-	114% [2]	108% [2]	-	-

General Inorganics

SAR	0.01 N/A	2.08	2.74	1.76	2.82	-	-
Conductivity	5 uS/cm	353	368	381	414	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.8	2.5	27.1	3.7	-	-
Barium	1.0 ug/g	113	87.8	166	121	-	-
Beryllium	0.5 ug/g	0.6	<0.5	0.5	0.5	-	-
Boron	5.0 ug/g	9.8	7.7	25.4	7.8	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	0.6	<0.5	-	-
Chromium	5.0 ug/g	22.7	19.0	27.9	21.5	-	-
Cobalt	1.0 ug/g	8.4	6.9	6.9	8.1	-	-
Copper	5.0 ug/g	17.7	19.9	70.3	18.9	-	-
Lead	1.0 ug/g	15.5	25.7	41.5	19.7	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	1.2	-	-
Nickel	5.0 ug/g	15.6	11.8	14.6	16.0	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Metals

Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	34.7	26.4	31.7	34.7	-	-
Zinc	20.0 ug/g	44.6	51.7	129	65.6	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	84.8%	84.1%	83.5%	84.0%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<40 [1]	-	-
F3 PHCs (C16-C34)	8 ug/g	34	63	40	736	-	-
F4 PHCs (C34-C50)	6 ug/g	70	200 [4]	90	2410 [4]	-	-
F4G PHCs (gravimetric)	50 ug/g	-	527	-	3380	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS104-06	SS104-07	SS104-08	SS105-01	Criteria:
Sample Date:	15-Oct-25 12:10	15-Oct-25 12:15	15-Oct-25 12:20	15-Oct-25 08:10	Reg 406/19
Sample ID:	2542144-33	2542144-34	2542144-35	2542144-36	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Semi-Volatiles

Benzo [b] fluoranthene	0.02 ug/g	<0.02	0.03	<0.02	<0.40 [1]	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Chrysene	0.02 ug/g	<0.02	0.02	<0.02	<0.40 [1]	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Fluoranthene	0.02 ug/g	<0.02	0.05	0.03	<0.40 [1]	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.40 [1]	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.80 [1]	-	-
Naphthalene	0.01 ug/g	0.01	<0.01	0.02	<0.20 [1]	-	-
Phenanthrene	0.02 ug/g	<0.02	0.03	0.03	<0.40 [1]	-	-
Pyrene	0.02 ug/g	<0.02	0.04	0.03	<0.40 [1]	-	-
2-Fluorobiphenyl	Surrogate	63.8%	71.2%	65.7%	63.9%	-	-
Terphenyl-d14	Surrogate	68.4%	76.4%	63.8%	73.1%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Reg 558 Schedule 4
MDL/Units					Res/Park/Ind/Com

Physical Characteristics

% Solids	0.1 % by Wt.	93.8	85.4	87.6	91.0	-	-
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General Inorganics

SAR	0.01 N/A	2.76	1.48	3.08	0.64	-	-
Conductivity	5 uS/cm	381	437	578	437	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	3.4	3.6	2.9	2.6	-	-
Barium	1.0 ug/g	115	125	108	100	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	0.5	<0.5	-	-
Boron	5.0 ug/g	8.5	13.1	10.2	9.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	18.9	22.3	19.9	17.7	-	-
Cobalt	1.0 ug/g	7.9	7.4	6.8	6.3	-	-
Copper	5.0 ug/g	16.4	26.9	20.8	24.9	-	-
Lead	1.0 ug/g	13.3	48.2	31.6	25.1	-	-
Molybdenum	1.0 ug/g	1.1	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	14.7	16.2	13.8	12.5	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	31.5	29.0	28.8	23.5	-	-
Zinc	20.0 ug/g	50.8	106	78.4	66.9	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Volatiles

Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	83.8%	86.0%	85.5%	84.5%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<40 [1]	<40 [1]	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	372	170	71	118	-	-
F4 PHCs (C34-C50)	6 ug/g	1490 [4]	913 [4]	105	191	-	-
F4G PHCs (gravimetric)	50 ug/g	1940	609	-	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	<0.40 [1]	0.05	0.03	0.04	-	-
Benzo [a] pyrene	0.02 ug/g	<0.40 [1]	0.06	0.04	0.04	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.40 [1]	0.07	0.04	0.05	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.40 [1]	0.05	0.04	0.04	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.40 [1]	0.03	<0.02	0.02	-	-
Chrysene	0.02 ug/g	<0.40 [1]	0.06	0.03	0.04	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g	<0.40 [1]	0.13	0.06	0.07	-	-
Fluorene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	QAQC2	SS105-02	SS105-03	SS105-04	Criteria:
Sample Date:	15-Oct-25 00:00	15-Oct-25 08:20	15-Oct-25 08:30	15-Oct-25 08:40	Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-37	2542144-38	2542144-39	2542144-40	-Leachate T1
Matrix:	Soil	Soil	Soil	Soil	Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.40 [1]	0.03	0.02	0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.40 [1]	<0.02	<0.02	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.80 [1]	<0.04	<0.04	<0.04	-	-
Naphthalene	0.01 ug/g	<0.20 [1]	<0.01	<0.01	<0.01	-	-
Phenanthrene	0.02 ug/g	<0.40 [1]	0.06	0.03	0.04	-	-
Pyrene	0.02 ug/g	<0.40 [1]	0.10	0.05	0.06	-	-
2-Fluorobiphenyl	Surrogate	92.5%	73.2%	68.6%	68.3%	-	-
Terphenyl-d14	Surrogate	79.8%	75.4%	87.6%	74.6%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19
Sample ID:	2542144-41	2542144-42	2542144-43		-Leachate T1
Matrix:	Soil	Soil	Soil		Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Physical Characteristics

% Solids	0.1 % by Wt.	88.7	87.3	93.1	-	-
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mSPLP Leachate Metals

Antimony	0.5 ug/L	-	<0.5	-	-	-
Arsenic	1.0 ug/L	-	1.6	-	-	-
Barium	1.0 ug/L	-	55.7	-	-	-
Beryllium	0.5 ug/L	-	<0.5	-	-	-
Boron	10.0 ug/L	-	13.5	-	-	-
Cadmium	0.2 ug/L	-	<0.2	-	-	-
Chromium	1.0 ug/L	-	4.5	-	-	-
Cobalt	0.5 ug/L	-	1.6	-	-	-
Copper	0.5 ug/L	-	9.1	-	-	-
Lead	0.2 ug/L	-	11.0	-	-	-
Molybdenum	0.5 ug/L	-	1.1	-	-	23 ug/L
Nickel	1.0 ug/L	-	3.3	-	-	-
Selenium	1.0 ug/L	-	<1.0	-	-	-
Silver	0.2 ug/L	-	<0.2	-	-	0.3 ug/L
Thallium	0.5 ug/L	-	<0.5	-	-	2 ug/L
Uranium	0.2 ug/L	-	0.2	-	-	-
Vanadium	0.5 ug/L	-	10.8	-	-	-
Zinc	5.0 ug/L	-	24.7	-	-	-

General Inorganics

SAR	0.01 N/A	0.92	0.80	0.36	-	-
Conductivity	5 uS/cm	394	243	183	-	-

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	-	-
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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-41	2542144-42	2542144-43		-Leachate T1
Matrix:	Soil	Soil	Soil		Res/Park/Ind/Com
MDL/Units					

Metals

Arsenic	1.0 ug/g	2.6	2.7	1.8	-	-
Barium	1.0 ug/g	122	106	74.9	-	-
Beryllium	0.5 ug/g	0.6	0.6	<0.5	-	-
Boron	5.0 ug/g	8.1	8.4	8.1	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	25.3	21.9	20.4	-	-
Cobalt	1.0 ug/g	8.5	7.5	4.3	-	-
Copper	5.0 ug/g	22.5	104	20.8	-	-
Lead	1.0 ug/g	29.9	26.7	17.9	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	16.3	15.1	10.3	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	37.9	32.5	22.3	-	-
Zinc	20.0 ug/g	75.4	120	63.9	-	-

Volatiles

Benzene	0.02 ug/g	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	94.1%	89.1%	86.5%	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19
Sample ID:	2542144-41	2542144-42	2542144-43		-Leachate T1
Matrix:	Soil	Soil	Soil		Res/Park/Ind/Com
MDL/Units					Reg 558 Schedule 4

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<40 [1]	-	-
F3 PHCs (C16-C34)	8 ug/g	81	133	148	-	-
F4 PHCs (C34-C50)	6 ug/g	161 [4]	325 [4]	729 [4]	-	-
F4G PHCs (gravimetric)	50 ug/g	462	538	1350	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
Acenaphthylene	0.02 ug/g	<0.02	0.03	<0.40 [1]	-	-
Anthracene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
Benzo [a] anthracene	0.02 ug/g	0.03	0.06	<0.40 [1]	-	-
Benzo [a] pyrene	0.02 ug/g	0.05	0.09	<0.40 [1]	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.04	0.08	<0.40 [1]	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.03	0.08	<0.40 [1]	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.03	0.04	<0.40 [1]	-	-
Chrysene	0.02 ug/g	0.03	0.07	<0.40 [1]	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
Fluoranthene	0.02 ug/g	0.05	0.10	0.46	-	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.02	0.06	<0.40 [1]	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.40 [1]	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.80 [1]	-	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.20 [1]	-	-
Phenanthrene	0.02 ug/g	<0.02	0.05	<0.40 [1]	-	-
Pyrene	0.02 ug/g	0.05	0.10	0.46	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Client ID:	SS105-05	SS105-06	SS105-07		Criteria:
Sample Date:	15-Oct-25 08:50	15-Oct-25 09:00	15-Oct-25 09:10		Reg 406/19 Reg 558 Schedule 4
Sample ID:	2542144-41	2542144-42	2542144-43		-Leachate T1
Matrix:	Soil	Soil	Soil		Res/Park/Ind/Com
MDL/Units					

Semi-Volatiles

2-Fluorobiphenyl	Surrogate	69.2%	67.6%	85.9%	-	-	-
Terphenyl-d14	Surrogate	70.6%	74.2%	81.7%	-	-	-



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics								
Cyanide, free	ND	0.02	mg/L					
Fluoride	ND	0.05	mg/L					
Nitrate as N	ND	1	mg/L					
Nitrite as N	ND	1	mg/L					
Nitrate + Nitrite as N	ND	2	mg/L					
EPA 1311 - TCLP Leachate Metals								
Arsenic	ND	0.05	mg/L					
Barium	ND	0.05	mg/L					
Boron	ND	0.10	mg/L					
Cadmium	ND	0.01	mg/L					
Chromium	ND	0.05	mg/L					
Lead	ND	0.05	mg/L					
Mercury	ND	0.005	mg/L					
Selenium	ND	0.05	mg/L					
Silver	ND	0.05	mg/L					
Uranium	ND	0.05	mg/L					
EPA 1311 - TCLP Leachate Organics								
Benzo [a] pyrene	ND	0.0001	mg/L					
Surrogate: Terphenyl-d14	0.17		%	83.0	37-156			
PCBs, total	ND	0.003	mg/L					
Surrogate: Decachlorobiphenyl	0.011		%	106	62-138			
EPA 1311 - TCLP Leachate Volatiles								
Benzene	ND	0.005	mg/L					
Carbon Tetrachloride	ND	0.005	mg/L					
Chlorobenzene	ND	0.004	mg/L					
Chloroform	ND	0.006	mg/L					
1,2-Dichlorobenzene	ND	0.004	mg/L					
1,4-Dichlorobenzene	ND	0.004	mg/L					
1,2-Dichloroethane	ND	0.005	mg/L					
1,1-Dichloroethylene	ND	0.006	mg/L					
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L					



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PQ:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Methylene Chloride	ND	0.04	mg/L					
Tetrachloroethylene	ND	0.005	mg/L					
Trichloroethylene	ND	0.004	mg/L					
Vinyl chloride	ND	0.005	mg/L					
Surrogate: 4-Bromofluorobenzene	0.623		%	90.5	83-134			
Surrogate: Dibromofluoromethane	0.788		%	115	78-124			
Surrogate: Toluene-d8	0.595		%	86.4	76-118			
General Inorganics								
Conductivity	ND	5	uS/cm					
Hydrocarbons								
F4G PHCs (gravimetric)	ND	50	ug/g					
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
mSPLP Leachate Metals								
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					

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Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.964		%	72.3	50-140			
Surrogate: Terphenyl-d14	1.32		%	99.2	50-140			
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	6.73		%	84.1	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.12	0.05	mg/L	0.12			0.8	15	
Nitrate as N	ND	1	mg/L	ND			NC	20	
Nitrite as N	ND	1	mg/L	ND			NC	20	
Cyanide, free	ND	0.02	mg/L	ND			NC	20	
EPA 1311 - TCLP Leachate Metals									
Arsenic	ND	0.05	mg/L	ND			NC	29	
Barium	0.784	0.05	mg/L	0.747			4.9	34	
Boron	ND	0.10	mg/L	ND			NC	33	
Cadmium	ND	0.01	mg/L	ND			NC	33	
Chromium	ND	0.05	mg/L	ND			NC	32	
Lead	ND	0.05	mg/L	ND			NC	32	
Mercury	ND	0.005	mg/L	ND			NC	30	
Selenium	ND	0.05	mg/L	ND			NC	28	
Silver	ND	0.05	mg/L	ND			NC	28	
Uranium	ND	0.05	mg/L	ND			NC	27	
EPA 1311 - TCLP Leachate Organics									
Benzo [a] pyrene	ND	0.0001	mg/L	ND			NC	50	
Surrogate: Terphenyl-d14	0.17		%		83.5	37-156			
PCBs, total	ND	0.003	mg/L	ND			NC	30	
Surrogate: Decachlorobiphenyl	0.013		%		126	62-138			
EPA 1311 - TCLP Leachate Volatiles									
Benzene	ND	0.005	mg/L	ND			NC	25	
Carbon Tetrachloride	ND	0.005	mg/L	ND			NC	25	
Chlorobenzene	ND	0.004	mg/L	ND			NC	25	
Chloroform	ND	0.006	mg/L	ND			NC	25	
1,2-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,4-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,2-Dichloroethane	ND	0.005	mg/L	ND			NC	25	
1,1-Dichloroethylene	ND	0.006	mg/L	ND			NC	25	
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L	ND			NC	25	



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Methylene Chloride	ND	0.04	mg/L	ND			NC	25	
Tetrachloroethylene	ND	0.005	mg/L	ND			NC	25	
Trichloroethylene	ND	0.004	mg/L	ND			NC	25	
Vinyl chloride	ND	0.005	mg/L	ND			NC	25	
Surrogate: 4-Bromofluorobenzene	0.614		%		89.2	83-134			
Surrogate: Dibromofluoromethane	0.784		%		114	78-124			
Surrogate: Toluene-d8	0.605		%		87.9	76-118			
General Inorganics									
SAR	0.23	0.01	N/A	0.25			8.3	30	
Conductivity	800	5	uS/cm	785			2.0	5	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	287	8	ug/g	298			3.8	30	
F4 PHCs (C34-C50)	499	6	ug/g	500			0.3	30	
F4G PHCs (gravimetric)	1200	50	ug/g	1520			23.4	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	1.9	1.0	ug/g	1.9			0.3	30	
Barium	53.8	1.0	ug/g	66.4			20.8	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron	8.0	5.0	ug/g	8.1			2.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	33.4	5.0	ug/g	31.8			5.0	30	
Cobalt	5.3	1.0	ug/g	5.4			2.9	30	
Copper	16.9	5.0	ug/g	16.5			2.4	30	
Lead	10.4	1.0	ug/g	11.2			6.9	30	
Molybdenum	1.5	1.0	ug/g	1.5			1.5	30	
Nickel	9.6	5.0	ug/g	10.1			5.6	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	17.8	10.0	ug/g	19.5			9.0	30	
Zinc	77.6	20.0	ug/g	87.8			12.4	30	
mSPLP Leachate Metals									
Antimony	ND	0.5	ug/L	ND			NC	50	
Arsenic	ND	1.0	ug/L	ND			NC	50	
Barium	35.3	1.0	ug/L	33.3			5.9	50	
Beryllium	ND	0.5	ug/L	ND			NC	50	
Boron	ND	10.0	ug/L	ND			NC	50	
Cadmium	ND	0.2	ug/L	ND			NC	50	
Chromium	2.68	1.0	ug/L	2.56			4.5	50	
Cobalt	0.55	0.5	ug/L	0.53			4.5	50	
Copper	4.26	0.5	ug/L	4.27			0.2	50	
Lead	7.89	0.2	ug/L	7.80			1.2	50	
Molybdenum	0.68	0.5	ug/L	0.66			2.2	50	
Nickel	1.96	1.0	ug/L	1.86			4.9	50	
Selenium	ND	1.0	ug/L	ND			NC	50	
Silver	ND	0.2	ug/L	ND			NC	50	
Thallium	ND	0.5	ug/L	ND			NC	50	
Uranium	ND	0.2	ug/L	ND			NC	50	
Vanadium	4.15	0.5	ug/L	3.86			7.1	50	
Zinc	10.9	5.0	ug/L	10.8			0.4	50	
Physical Characteristics									
% Solids	84.5	0.1	% by Wt.	84.9			0.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.026	0.02	ug/g	0.049			NC	40	
Benzo [a] anthracene	0.054	0.02	ug/g	0.288			NC	40	
Benzo [a] pyrene	0.068	0.02	ug/g	0.303			NC	40	



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	0.095	0.02	ug/g	0.372			NC	40	
Benzo [g,h,i] perylene	0.090	0.02	ug/g	0.206			NC	40	
Benzo [k] fluoranthene	0.049	0.02	ug/g	0.196			NC	40	
Chrysene	0.068	0.02	ug/g	0.329			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	0.048			NC	40	
Fluoranthene	0.189	0.02	ug/g	0.913			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.048	0.02	ug/g	0.188			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.105	0.02	ug/g	0.323			NC	40	
Pyrene	0.150	0.02	ug/g	0.704			NC	40	
Surrogate: 2-Fluorobiphenyl	0.892		%		64.1	50-140			
Surrogate: Terphenyl-d14	1.06		%		76.4	50-140			
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.15		%		84.0	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.65	0.05	mg/L	0.12	106	77-129			
Nitrate as N	10	1	mg/L	ND	97.9	81-112			
Nitrite as N	9	1	mg/L	ND	93.0	76-107			
Cyanide, free	0.091	0.02	mg/L	ND	91.4	40-115			
EPA 1311 - TCLP Leachate Metals									
Arsenic	45.9	0.05	mg/L	0.098	91.7	83-119			
Barium	118	0.05	mg/L	74.7	85.8	80-120			
Boron	51.2	0.10	mg/L	6.06	90.3	71-128			
Cadmium	40.8	0.01	mg/L	0.075	81.5	78-119			
Chromium	54.1	0.05	mg/L	0.195	108	80-124			
Lead	38.9	0.05	mg/L	0.569	76.7	77-126			QM-07
Mercury	0.0294	0.005	mg/L	ND	98.1	70-130			
Selenium	39.4	0.05	mg/L	0.089	78.6	75-125			
Silver	40.6	0.05	mg/L	ND	81.1	70-128			
Uranium	42.2	0.05	mg/L	0.119	84.2	70-131			
EPA 1311 - TCLP Leachate Organics									
Benzo [a] pyrene	0.0494	0.0001	mg/L	ND	98.8	39-123			
Surrogate: Terphenyl-d14	0.17		%		83.6	37-156			
PCBs, total	0.045	0.003	mg/L	ND	113	86-145			
Surrogate: Decachlorobiphenyl	0.014		%		136	62-138			
EPA 1311 - TCLP Leachate Volatiles									
Benzene	0.335	0.005	mg/L	ND	97.5	55-141			
Carbon Tetrachloride	0.352	0.005	mg/L	ND	102	49-149			
Chlorobenzene	0.417	0.004	mg/L	ND	121	64-137			
Chloroform	0.352	0.006	mg/L	ND	102	58-138			
1,2-Dichlorobenzene	0.349	0.004	mg/L	ND	101	60-150			
1,4-Dichlorobenzene	0.324	0.004	mg/L	ND	94.2	63-132			
1,2-Dichloroethane	0.338	0.005	mg/L	ND	98.1	50-140			
1,1-Dichloroethylene	0.368	0.006	mg/L	ND	107	43-153			
Methyl Ethyl Ketone (2-Butanone)	1.05	0.30	mg/L	ND	122	26-153			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Methylene Chloride	0.386	0.04	mg/L	ND	112	58-149			
Tetrachloroethylene	0.367	0.005	mg/L	ND	107	51-145			
Trichloroethylene	0.394	0.004	mg/L	ND	115	52-135			
Vinyl chloride	0.264	0.005	mg/L	ND	76.9	31-159			
Surrogate: 4-Bromofluorobenzene	0.580		%		84.4	83-134			
Surrogate: Dibromofluoromethane	0.662		%		96.2	78-124			
Surrogate: Toluene-d8	0.566		%		82.3	76-118			
Hydrocarbons									
F1 PHCs (C6-C10)	168	7	ug/g	ND	97.5	85-115			
F2 PHCs (C10-C16)	97	4	ug/g	ND	116	60-140			
F3 PHCs (C16-C34)	558	8	ug/g	298	127	60-140			
F4 PHCs (C34-C50)	596	6	ug/g	500	73.7	60-140			
F4G PHCs (gravimetric)	900	50	ug/g	ND	90.0	80-120			
Metals									
Antimony	38.3	1.0	ug/g	ND	76.0	70-130			
Arsenic	47.4	1.0	ug/g	ND	93.3	70-130			
Barium	68.5	1.0	ug/g	26.5	84.0	70-130			
Beryllium	48.2	0.5	ug/g	ND	96.2	70-130			
Boron	47.6	5.0	ug/g	ND	88.7	70-130			
Cadmium	45.1	0.5	ug/g	ND	90.1	70-130			
Chromium	65.3	5.0	ug/g	12.7	105	70-130			
Cobalt	50.1	1.0	ug/g	2.2	95.8	70-130			
Copper	52.1	5.0	ug/g	6.6	91.0	70-130			
Lead	46.4	1.0	ug/g	4.5	83.9	70-130			
Molybdenum	48.1	1.0	ug/g	ND	95.0	70-130			
Nickel	51.9	5.0	ug/g	ND	95.7	70-130			
Selenium	44.1	1.0	ug/g	ND	88.0	70-130			
Silver	42.1	0.3	ug/g	ND	84.1	70-130			
Thallium	45.0	1.0	ug/g	ND	90.0	70-130			
Uranium	46.2	1.0	ug/g	ND	92.1	70-130			
Vanadium	58.4	10.0	ug/g	ND	101	70-130			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	73.6	20.0	ug/g	35.1	76.9	70-130			
mSPLP Leachate Metals									
Antimony	45.4	0.5	ug/L	ND	90.0	60-130			
Arsenic	48.0	1.0	ug/L	ND	94.5	70-130			
Barium	77.2	1.0	ug/L	33.3	87.8	70-130			
Beryllium	46.5	0.5	ug/L	ND	92.7	70-130			
Boron	56.4	10.0	ug/L	ND	96.2	70-130			
Cadmium	45.2	0.2	ug/L	ND	90.3	70-130			
Chromium	50.4	1.0	ug/L	2.56	95.8	70-130			
Cobalt	48.5	0.5	ug/L	0.53	95.9	70-130			
Copper	48.5	0.5	ug/L	4.27	88.5	70-130			
Lead	53.2	0.2	ug/L	7.80	90.9	70-130			
Molybdenum	50.8	0.5	ug/L	0.66	100	70-130			
Nickel	46.5	1.0	ug/L	1.86	89.3	70-130			
Selenium	48.3	1.0	ug/L	ND	96.6	70-130			
Silver	44.1	0.2	ug/L	ND	88.0	70-130			
Thallium	45.8	0.5	ug/L	ND	91.6	70-130			
Uranium	47.7	0.2	ug/L	ND	95.1	70-130			
Vanadium	53.9	0.5	ug/L	3.86	100	70-130			
Zinc	56.4	5.0	ug/L	10.8	91.1	70-130			
Semi-Volatiles									
Acenaphthene	0.108	0.02	ug/g	ND	60.3	50-140			
Acenaphthylene	0.120	0.02	ug/g	ND	67.2	50-140			
Anthracene	0.142	0.02	ug/g	ND	79.4	50-140			
Benzo [a] anthracene	0.138	0.02	ug/g	0.032	59.9	50-140			
Benzo [a] pyrene	0.136	0.02	ug/g	0.036	56.1	50-140			
Benzo [b] fluoranthene	0.133	0.02	ug/g	0.027	59.1	50-140			
Benzo [g,h,i] perylene	0.126	0.02	ug/g	0.034	51.2	50-140			
Benzo [k] fluoranthene	0.108	0.02	ug/g	ND	60.3	50-140			
Chrysene	0.152	0.02	ug/g	0.034	65.8	50-140			
Dibenzo [a,h] anthracene	0.126	0.02	ug/g	ND	70.8	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Fluoranthene	0.162	0.02	ug/g	0.067	53.2	50-140			
Fluorene	0.108	0.02	ug/g	ND	60.7	50-140			
Indeno [1,2,3-cd] pyrene	0.132	0.02	ug/g	0.023	60.7	50-140			
1-Methylnaphthalene	0.115	0.02	ug/g	ND	64.3	50-140			
2-Methylnaphthalene	0.098	0.02	ug/g	ND	55.1	50-140			
Naphthalene	0.133	0.01	ug/g	0.013	66.8	50-140			
Phenanthrene	0.146	0.02	ug/g	0.041	58.9	50-140			
Pyrene	0.161	0.02	ug/g	0.062	55.4	50-140			
Surrogate: 2-Fluorobiphenyl	0.733		%		51.3	50-140			
Surrogate: Terphenyl-d14	0.926		%		64.9	50-140			
Volatiles									
Benzene	3.41	0.02	ug/g	ND	85.1	60-130			
Ethylbenzene	3.52	0.05	ug/g	ND	87.9	60-130			
Toluene	3.53	0.05	ug/g	ND	88.3	60-130			
m,p-Xylenes	7.16	0.05	ug/g	ND	89.5	60-130			
o-Xylene	3.56	0.05	ug/g	ND	88.9	60-130			
Surrogate: Toluene-d8	6.55		%		81.9	50-140			



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Qualifier Notes:

Login Qualifiers :

Sample - One or more parameter received or added past hold time. Directed by client to proceed with analysis - Reg 558 PAHs, PCBs, VOCs, Cr, F-, Hg, N02/N03
Applies to Samples: SS102-05, SS104-08, SS105-01

Sample Qualifiers :

- 1: Elevated reporting limits due to the nature of the sample matrix.
- 2: Holding time had been exceeded upon receipt of the sample at the laboratory or prior to the analysis being requested.
- 4: GC-FID signal did not return to baseline by C50
Applies to Samples: SS101-01, QAQC1, SS101-02, SS101-04, SS102-01, QAQC4, SS102-07, SS103-01, SS103-03, SS103-04, SS103-07, SS103-08, SS103-11, SS104-07, SS105-01, QAQC2, SS105-02, SS105-05, SS105-06, SS105-07
- 5: Some peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup. Results may be biased high.
Applies to Samples: SS102-07

QC Qualifiers:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions:

None



Order #: 2542144

Certificate of Analysis

Report Date: 26-Nov-2025

Client: Cambium Inc. (Kingston)

Order Date: 15-Oct-2025

Client PO:

Project Description: 24372-002

Work Order Revisions / Comments:

Revision-1: This report includes additional mSPLP Metals data for 2542144-16, 2542144-35, 2542144-42 And Additional TCLP data for 2542144-11, 2542144-35, and 2542144-36 as per the client.

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Parcel ID: 2542144

PARACEL

TF
RT
RI

Parcel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149027

Client Name: <u>Cambium</u>	Project Ref: <u>24372-002</u>	Page <u>1</u> of <u>45</u>
Contact Name: <u>Alicia McDonald</u>	Quote #: _____	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular Date Required: _____
Address: _____	PO #: _____	
Telephone: <u>613-328-6034</u>	E-mail: <u>alicia.mcdonald</u> <u>arlie.flynn</u>	

☐ REG 153/04 ☒ REG 406/19 ☒ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For PSC: ☐ Yes ☒ No	Other Regulation ☐ REG 558 ☐ PWQO ☐ CCME ☐ MSA ☐ SU - Sanit ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed.) <u>GW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis <table border="1"> <tr> <th>PHCs F1-F4-BTEX</th> <th>VOCs</th> <th>PAHs</th> <th>Metals by ICP</th> <th>HS</th> <th>CVI</th> <th>B (HWE)</th> <th>SAR</th> <th>EC</th> </tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td>✓</td><td>✓</td></tr> </table>	PHCs F1-F4-BTEX	VOCs	PAHs	Metals by ICP	HS	CVI	B (HWE)	SAR	EC	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓				✓	✓
PHCs F1-F4-BTEX	VOCs	PAHs	Metals by ICP	HS	CVI	B (HWE)	SAR	EC																																																																																					
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Sample ID/Location Name		Matrix Air Volume # of Containers Field Filtered Sample Taken <table border="1"> <tr> <th>Date</th> <th>Time</th> </tr> <tr><td>15/10/2025</td><td>7:35</td></tr> <tr><td></td><td></td></tr> <tr><td></td><td>7:45</td></tr> <tr><td></td><td>7:50</td></tr> <tr><td></td><td>7:55</td></tr> <tr><td></td><td>10:30</td></tr> <tr><td></td><td></td></tr> <tr><td></td><td>10:35</td></tr> <tr><td></td><td>10:40</td></tr> <tr><td></td><td>10:45</td></tr> </table>	Date	Time	15/10/2025	7:35				7:45		7:50		7:55		10:30				10:35		10:40		10:45	Method of Delivery: <u>walk in</u>																																																																				
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Comments:

Method of Delivery:

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracelids.com

Relinquished By (Sign): <u>Pargie Leslie</u>	Received at Depot: <u>Oct 15 14:00</u>	Received at Lab: <u>L TJ</u>	Verified By: <u>AL</u>
By (Print): <u>Pargie Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25, 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
<u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>4.4, 9.0, 18.3</u>	pH Verified: ☐ By: <u>3.5, 6.7</u>

By (Print): Pargie Leslie

PARACEL

Parcel ID: 2542144



Parcel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149028

Client Name: <u>Cambium</u>	Project Ref: <u>24372-002</u>	Page <u>2 of 2</u>
Contact Name: <u>Alicia McDonald</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address:	PO #:	
Telephone: <u>613-328-8034</u>	E-mail: <u>alicia.mcdonald@arlie.flynn</u>	Date Required:

☐ REG 153/04 ☒ REG 406/19 ☒ Table 1 ☐ Agri/Other ☐ Mod/line ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☒ No	Other Regulation ☐ REG 558 ☐ PAQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed.) <u>GW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis PHCs F1-F4+DTEX VOCs PAHs Metals by ICP Hg CrVI B (HWE) CAR ALU												
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs F1-F4+DTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	CAR	ALU
1 <u>SS102-05</u>	<u>S</u>		<u>3</u>		<u>15/10/25</u>	<u>10:50</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
2 <u>SS102-06</u>	<u>↓</u>					<u>10:55</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
3 <u>SS102-07</u>	<u>↓</u>					<u>11:08</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
4 <u>SS103-01</u>	<u>↓</u>					<u>9:15</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
5 <u>QAQCL3</u>	<u>↓</u>					<u>—</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
6 <u>SS103-02</u>	<u>↓</u>					<u>9:20</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
7 <u>SS103-03</u>	<u>↓</u>					<u>9:25</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
8 <u>SS103-04</u>	<u>↓</u>					<u>9:30</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
9 <u>SS103-05</u>	<u>↓</u>					<u>9:35</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>
10 <u>SS103-06</u>	<u>↓</u>					<u>9:40</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>✓</u>	<u>✓</u>

Comments:	Method of Delivery: <u>Walk-in</u>
-----------	------------------------------------

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracel-labs.com

Relinquished By (Sign): <u>Paige Leslie</u>	Received at Depot: <u>CLF</u>	Received at Lab: <u>LIT</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Paige Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.9</u> °C	pH Verified: ☐ by: _____

Chain of Custody (Enviro) - Revision #0

10.2 9.0 1.7

Paracel ID: 2542144

PARACEL



Paracel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149031

Client Name: <u>Cambium</u>	Project Ref: <u>24372-002</u>	Page <u>3</u> of <u>5</u>
Contact Name:	Quote #	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address:	PO #	
Telephone: <u>613-328-6034</u>	E-mail: <u>alicia.mcdonald</u> <u>arlie.flynn</u>	Date Required:

☐ REG 153/04 ☒ REG 405/19 ☒ Table 1 ☐ Agri/Other ☐ Med/Fine ☐ Table 2 ☒ Res/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☒ No	Other Regulation ☐ REG 558 ☐ PWQO ☐ CCME ☐ MSA ☐ SU - Sanit ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed) <u>SW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis PHCS FI-P4-BTEX VOCs PAHs Metals by ICP Hg Cu B (HWE) SAR SEC										
Sample ID/Location Name	Matrix	Alt Volume	# of Containers	Field Filtered	Sample Taken								
					Date	Time							
1 <u>SS103-07</u>	<u>S</u>		<u>3</u>		<u>15/10/25</u>	<u>9:45</u>	☒	☒	☒	☒	☒	☒	☒
2 <u>SS103-08</u>	<u>S</u>		<u>1</u>			<u>9:50</u>	☒	☒	☒	☒	☒	☒	☒
3 <u>SS103-09</u>	<u>S</u>					<u>9:55</u>	☒	☒	☒	☒	☒	☒	☒
4 <u>SS103-10</u>	<u>S</u>					<u>10:00</u>	☒	☒	☒	☒	☒	☒	☒
5 <u>SS103-11</u>	<u>S</u>					<u>10:05</u>	☒	☒	☒	☒	☒	☒	☒
6 <u>SS103-12</u>	<u>S</u>					<u>10:10</u>	☒	☒	☒	☒	☒	☒	☒
7 <u>SS104-01</u>	<u>S</u>					<u>11:40</u>	☒	☒	☒	☒	☒	☒	☒
8 <u>QAQCS</u>						<u>—</u>	☒	☒	☒	☒	☒	☒	☒
9 <u>SS104-02</u>	<u>S</u>					<u>11:50</u>	☒	☒	☒	☒	☒	☒	☒
10 <u>SS104-03</u>	<u>S</u>					<u>11:55</u>	☒	☒	☒	☒	☒	☒	☒

Comments:

Method of Delivery:

Walkin(Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracelabs.com)

Relinquished By (Sign): <u>Payge Leslie</u>	Received at Depot: <u>CREF</u>	Received at Lab: <u>LITJ</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Payge Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.96, 9.83</u> °C	All Met/Ed: ☐ By: _____

Chain of Custody (Rev) 10/15/2010

13 K.C.7

PARACEL

Parcel ID: 2542144



Parcel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149030

4 PL PL

Page 2 of 5

Client Name: Cambium
Contact Name: Alicia McDonald
Address:
Telephone: 613-328-6034

Project Ref: 24372-002
Quote #:
PO #:
E-mail: alicia.mcdonald
arlie.flynn

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☐ REG 153/04 ☒ REG 406/19 Other Regulation
☒ Table 1 ☐ Agri/Other ☐ Med/Line ☐ REG 158 ☐ PW/QO
☐ Table 2 ☒ Res/Fark ☒ Coarse ☐ CCMZ ☐ MISA
☐ Table 3 ☐ Ind/Comm ☐ SU - Sanit ☐ SU - Storm
☐ Table ☐ Mun:
For RSC: ☐ Yes ☒ No ☐ Other:

Matrix Type: S (Soil/Sed) GW (Ground Water)
SW (Surface Water) SS (Storm/Sanitary Sewer)
P (Paint) A (Air) O (Other)

Required Analysis

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken		PHCs FL-P4-BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	SAR	ECU
					Date	Time									
1 SS104-04	✓		✓		15/10/25	12:00	✓		✓	✓				✓	✓
2 SS104-05	✓		✓			12:05	✓		✓	✓				✓	✓
3 SS104-06	✓		✓			12:10	✓		✓	✓				✓	✓
4 SS104-07	✓		✓			12:15	✓		✓	✓				✓	✓
5 SS104-08	✓		✓			12:20	✓		✓	✓				✓	✓
6 SS105-01	✓		✓			8:10	✓		✓	✓				✓	✓
7 QAQC2	✓		✓				✓		✓	✓				✓	✓
8 SS105-02	✓		✓			8:20	✓		✓	✓				✓	✓
9 SS105-03	✓		✓			8:30	✓		✓	✓				✓	✓
10 SS105-04	✓		✓			8:40	✓		✓	✓				✓	✓

Comments:

Method of Delivery: Walk in

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Relinquished By (Sign): <i>Paracel Leslie</i>	Received at Depot: <i>CPT</i>	Received at Lab: <i>LIT</i>	Verified By: <i>Oct 15 14:53</i>
Relinquished By (Print): <i>Paracel Leslie</i>	Date/Time: <i>Oct 15 14:00</i>	Date/Time: <i>16/10/25, 11:08</i>	Date/Time:
Date/Time: <i>15/10/25</i>	Temperature: <i>15.4</i> °C	Temperature: <i>14.4/9.9/8.3</i>	pH Verified: ☐ By:

Paracel ID: 2542144

PARACEL



Paracel Order Number

(Lab Use Only)

2542144

Chain Of Custody

(Lab Use Only)

No 149029

Client Name: <u>Campium</u>	Project Ref: <u>24372-002</u>	Page <u>54</u> of <u>45</u>
Contact Name: <u>Alicia McDonald</u>	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular Date Required:
Address:	PO #:	
Telephone: <u>613-328-6034</u>	E-mail: <u>alicia.mcdonald@alie.flynn</u>	

☐ REG 153/04 ☒ REG 406/19 ☒ Table 1 ☐ Agri/Other ☐ Med/Env ☐ Table 2 ☒ Rec/Park ☒ Coarse ☐ Table 3 ☐ Ind/Comm ☐ Table _____ For RSC: ☐ Yes ☒ No	Other Regulation ☐ REG 55B ☐ PWTGO ☐ CCME ☐ MSA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: <u>S</u> (Soil/Sed) <u>GW</u> (Ground Water) <u>SW</u> (Surface Water) <u>SS</u> (Storm/Sanitary Sewer) <u>P</u> (Paint) <u>A</u> (Air) <u>O</u> (Other)	Required Analysis PHCs F1-F4+BTEX VOCs PAHs Metals by ICP Hg Cr(VI) B (HWE) SAR EC											
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken									
					Date	Time								
1 <u>SS105-05</u>	<u>S</u>		<u>3</u>		<u>15/10/25</u>	<u>8:50</u>	☒	☒	☒				☒	☒
2 <u>SS105-06</u>	<u>S</u>		<u>↓</u>		<u>↓</u>	<u>9:00</u>	☒	☒	☒				☒	☒
3 <u>SS105-07</u>	<u>S</u>		<u>↓</u>		<u>↓</u>	<u>9:10</u>	☒	☒	☒				☒	☒
4														
5														
6														
7														
8														
9														
10														

Comments:	Method of Delivery: <u>Mobile in</u>
-----------	--------------------------------------

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Relinquished By (Sign): <u>[Signature]</u>	Received at Depot: <u>CRT</u>	Received at Lab: <u>LTT</u>	Verified By: <u>AL</u>
Relinquished By (Print): <u>Paige Leslie</u>	Date/Time: <u>Oct 15 14:00</u>	Date/Time: <u>16/10/25, 11:08</u>	Date/Time: <u>Oct 15 14:53</u>
Date/Time: <u>15/10/25</u>	Temperature: <u>15.4</u> °C	Temperature: <u>14.9</u> °C	☐ Verified By: _____ 3.5.6.7



Environmental

Geotechnical

Building Sciences

Construction Testing
& Inspections

Telephone

(866) 217.7900
(705) 742.7900

Facsimile

(705) 742.7907

Website

cambium-inc.com

Mailing Address

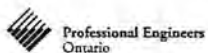
P.O. Box 325,
Peterborough, Ontario
Canada, K9J 6Z3

Locations

Peterborough
Kingston
Barrie
Ottawa
Whitby

Laboratory

Peterborough



May 29, 2026

Ontario Ministry of the Environment, Conservation and Parks
Kingston District Office
Unit 3, 1259 Gardiners Road
Kingston ON K7P 3J6

Attn: Sharilyn Kennedy

Environmental Compliance Officer

Alexander Marunde

Environmental Compliance Officer

Re: Historical Landfill Assessment

Town of Gananoque, 665 Charles Street N, Gananoque

Environmental Compliance Approval Number A440201

Cambium Reference: 24372-004

Dear Sharilyn and Alexander,

Cambium Inc. (Cambium) has been retained by the Town of Gananoque (Town) to assist with responding to the Ministry of the Environment, Conservation and Parks (Ministry) in follow up to their request for an impact assessment of the historical landfill present at 665 Charles Street North, Town of Gananoque (Site). A Site Location Plan and Local Topography Plan are Figure 1 and Figure 2, respectively. The Ministry required that potential impacts from the historical landfill at the Site be characterized through an environmental monitoring program or other assessment accompanied by a technical rationale. The Ministry has requested that an impact assessment plan be submitted by May 31, 2026. On behalf of the Town, this submission is intended to address the Ministry's request.

INTRODUCTION

On June 13, 2025, Ministry staff conducted an inspection of the Site for the purpose of assessing compliance with waste management requirements (Ontario Regulation (O.Reg.) 347, Environmental Protection Act). The Site is currently used as a public works yard. A historical landfill is present at the Site, approved under expired Environmental Compliance Approval (ECA) Number A440201.

Based on Ministry records (Landfill Inventory, 1991), the landfill was closed in 1974; however, additional Ministry records indicated intermittent disposal activities in the 1980s. Regardless, the landfill ceased receiving waste more than 35 years ago. Given the age of the historical landfill, the leachate strength is expected to be weak.



Environmental
Geotechnical
Building Sciences
Construction Testing
& Inspections

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(866) 217.7900
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(705) 742.7907

Website
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Mailing Address
P.O. Box 325,
Peterborough, Ontario
Canada, K9J 6Z3

Locations
Peterborough
Kingston
Barrie
Ottawa
Whitby

Laboratory
Peterborough



May 29, 2026

The ECA does not stipulate any monitoring or reporting conditions. Cambium understands that environmental monitoring (surface water, groundwater) has not been undertaken at the Site.

GEOLOGICAL AND HYDROGEOLOGICAL CONTEXT

Imagery shows the topography slopes to east-southeast of the Site toward Stocking Hill Creek and the wetland/low lying wet areas in the creek valley. Stocking Hill Creek eventually discharges to the Gananoque River, south of the Site. Stocking Hill Creek is about 115 m southeast of the Site.

There are no water wells present at the Site. The area surrounding the Site is predominantly serviced by the Town's communal water supply. A search of the Ministry's well records database (MECP, 2024) produced well records in closest proximity to the Site for 695 Stone Street North as well as 620, 668, and 680 Charles Street North (Attachment A).

- 695 Stone Street North (3602363) is southwest of the Site, at the intersection of Stone Street North and Charles Street North. This well was previously drilled and was advanced into bedrock. The bedrock surface was less than 10 m below ground surface (bgs). This well was advanced to about 12 mbgs.
- 620 Charles Street North (3609435) is southeast of the Site and south of Charles Street North, in the valley surrounding Stocking Hill Creek. There was 30 m of clay soil above the bedrock. Water was found around 65 mbgs.
- 668 (3614993) and 680 (7251956/A175061) Charles Street North are on the south side of the street, south of the Site. The overburden was limited (less than 3 m) and described as clay or soil. Water was found around 55 mbgs at both locations.

Based on available information, the bedrock drops abruptly to the east of the Site, coinciding with the wetland and valley surrounding Stocking Hill Creek. The water supply aquifer in the vicinity of the Site is in the (deep) bedrock and in the case of the three closest wells, greater than 50 mbgs. The regional (deep) bedrock aquifer is expected to flow south or southeast from the Site toward the Gananoque River and/or Lake Ontario. It is unlikely impacts from the Site would



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Geotechnical

Building Sciences

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Locations
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Kingston
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Whitby

Laboratory
Peterborough



May 29, 2026

reach this aquifer due to the depth and nature of the clay overburden (low permeability, confining).

Based on the topography and the limited overburden documented around the Site, any shallow overburden groundwater is expected to flow east-southeast toward Stocking Hill Creek and associated wetland(s).

Based on the depth to the bedrock aquifer and the confining nature of clay overburden, any impacts from the Site are expected to be limited to the shallow overburden groundwater. Given the topography and inferred shallow groundwater direction, Stocking Hill Creek would be the likely receptor of impacts (if any) from the historical landfill and will be the focus of this assessment.

Given the time since landfill occurred (greater than 35 years) and the limited overburden at the Site, landfill gas generation is expected to be negligible.

PROPOSED ENVIRONMENTAL MONITORING

Based on the information outlined, Cambium proposes the following environmental monitoring program:

- Surface water sampling
- Evaluation of surface water quality results against the Provincial Water Quality Objectives (PWQO) and/or Canadian Water Quality Guidelines (CWQG)
- Preparation of a summary report

Environmental monitoring would be completed to conform with the following Ministry guidelines:

- *Guidance Manual for Landfill Sites Receiving Municipal Waste* (MOEE, 1993)
- *Landfill Standards: A guideline on the regulatory and approval requirements for new or expanding landfilling sites* (MECP, 2021)
- *Monitoring and Reporting for Waste Disposal Sites, Groundwater and Surface Water, Technical Guidance Document* (MOE, 2010).

The environmental monitoring program will be undertaken in accordance with Cambium's Standard Operating Procedures, developed from recognized



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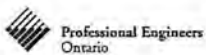
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standard procedures such as those listed above and *Guidance on Sampling and Analytical Methods for use at Contaminated Sites in Ontario* (MOEE, 1996). A health and safety program will be developed for site-specific conditions and all Cambium personnel working on the project were familiarized and required to follow the identified protocol.

The proposed environmental monitoring program includes sampling from four locations in Stocking Hill Creek (Figure 3). The sampling locations consist of a background (upstream) station, two locations adjacent to the Site, and a down stream location. Sampling will occur during the spring and autumn.

Surface water monitoring will include the following field tasks:

- Surface water samples will be collected by immersing the sample container into the water body.
- With sample bottles prefilled with preservatives, a clean bottle will be used to collect and decant the water directly into the sample bottle.
- Surface water samples for mercury (0.45 µm) analysis will be filtered by the laboratory.
- Field measurements including pH, conductivity, temperature, dissolved oxygen (DO), and oxygen reduction potential (ORP) will be recorded by field staff at each sample location.
- Where possible, depth, width, and flow velocity measurements will be collected at each surface water location.
- Weather conditions prior to and during the field events will be recorded, as well as calibration dates for the field equipment.
- Use of new nitrile gloves at each sample location.
- Proposed surface water parameters will include those listed in Schedule 5 of the Landfill Standards (MECP, 2021) Comprehensive List for Surface Water, plus hardness (i.e., alkalinity, ammonia, arsenic, barium, boron, cadmium, chloride, chromium, conductivity, copper, iron, lead, mercury, nitrate, nitrite, total Kjeldahl nitrogen, pH, total phosphorus, suspended solids, total



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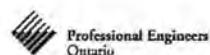
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May 29, 2026

dissolved solids, sulphate, zinc, biochemical oxygen demand, chemical oxygen demand, phenol, hardness)

REPORTING

Upon completion of the impact assessment, a letter report summarizing the results of the monitoring program will be submitted to the Ministry for review. The report will include of summary and comparison of monitoring results against applicable criteria. The summary report will be produced and signed by an appropriately-licensed geoscientist (Competent Environmental Practitioner).

CLOSING

This submission is intended to address the Ministry's requirement to assess the potential impacts from the historical landfill at the Site. The proposed sampling methodology is consistent with Ministry guidelines for environmental monitoring at landfill sites. We trust this meets the Ministry's requirements at this time, and we would be pleased to further discuss the proposed impact assessment with you at your convenience.

Best regards,

Cambium Inc.

DocuSigned by:

G. Muloin

E74891B2D5A441F

Gary Muloin, C.E.T.
Senior Project Manager

DocuSigned by:

S. Reeder

975EA2A4FF1645F

Stephanie Reeder, P.Geo., C.E.T.
Senior Hydrogeologist

SNR/tb

Encl. *Cambium Qualifications & Limitations*
Figure 1 – Site Location Plan
Figure 2 – Local Topography Plan
Figure 3 – Sampling Plan
Attachment A – Well Records

Copies: *David Armstrong, Public Works Manager, Town of Gananoque*

\\cambiumincstorage.file.core.windows.net\projects\24300 to 24399\24372.004 (VPT) IPM- Charles Street North Historic Landfill\09-Deliverables\REPORT\2025-05-29 RPT ToG Charles Street (FINAL).docx



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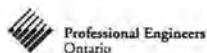
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A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work or report considers any locations or times other than those from which information, sample results and data was specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those extrapolations.

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The client expressly agrees that Cambium employees shall have no personal liability to the client with respect to a claim, whether in contract, tort and/or other cause of action in law. Furthermore, the client agrees that it will bring no proceedings nor take any action in any court of law against Cambium employees in their personal capacity.



SAMPLING PLAN TOWN OF GANANOQUE 665 Charles Street North Gananoque, Ontario

LEGEND

- Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Federal Protected Areas
- Water Area
- Wooded Area
- Built Up Area
- Provincial Border

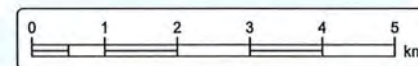
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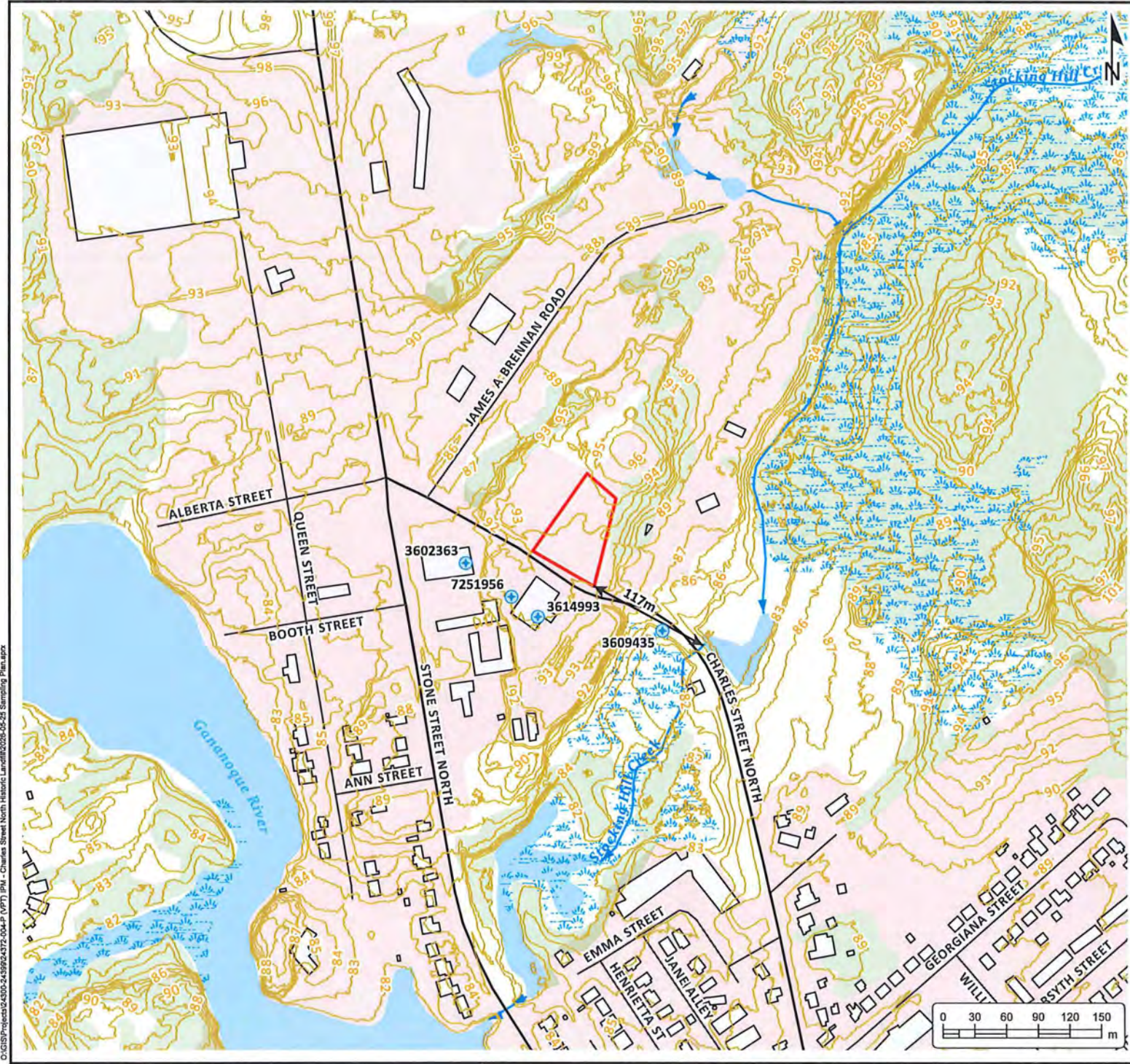


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SITE LOCATION PLAN

Project No.: CAM24372.004	Date: May 2026
Scale: 1:100,000	Projection: NAD 1983 UTM Zone 18N
Created by: CC	Checked by: GM
Figure: 1	





SAMPLING PLAN
TOWN OF GANANOQUE
665 Charles Street North
Gananoque, Ontario

LEGEND

- Ministry Well Record
- Major Road
- Minor Road
- Watercourse, Permanent
- Contour (1m Interval)
- Unevaluated Wetland
- Water Area
- Wooded Area
- Built Up Area
- Building
- Site (approximate)

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LOCAL TOPOGRAPHY PLAN

Project No.: CAM24372.004	Date: May 2026
Scale: 1:5,000	Projection: NAD 1983 UTM Zone 18N
Created by: CC	Checked by: GM
Figure: 2	



SAMPLING PLAN
TOWN OF GANANOQUE
665 Charles Street North
Gananoque, Ontario

LEGEND

- ▲ Sampling Location
- Watercourse, Permanent
- Site (approximate)

Notes:
- Aerial Imagery from the Digital Raster Acquisition Project Eastern Ontario (DRAPE) 2024. Source: Ontario Ministry of Natural Resources and Forestry.
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PROPOSED SAMPLING PLAN

Project No.: CAM24372.004	Date: May 2026
Scale: 1:6,000	Projection: NAD 1983 UTM Zone 18N
Created by: CC	Checked by: GM
Figure: 3	

9 R 4 9 0 9 9 2 0 N

Elev. 9 R 0 3 6 0

Basin | 2 | 4 | | |



Department of Mines



GANANO QUE

County or Territorial District... LEEDS ... Township, Village, Town or City... GRAND NOQUE

h Village, Town or City) Cambridge

Address

(day) (month) (year)

Pumping Test

Casing diameter(s)	6"	Static level	27
Length(s)	6'	Pumping rate	1000 GPM
Type of screen		Pumping level	27
Length of screen		Duration of test	1 H 5

Water Record

[illegible]

For what purpose(s) is the water to be used?

HOUSE

Is water clear or cloudy? CL & 12R

Is well on upland, in valley, or on hillside?.....

..... 6-13-78

Drilling firm HERN

Address 4500 6357

.....

Name of Driller SAME

Address

Licence Number...1050

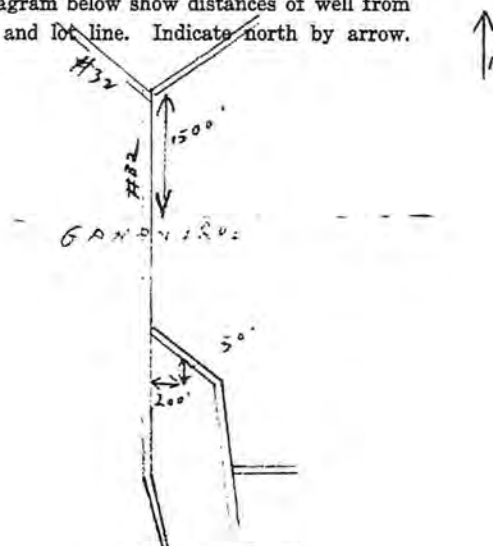
I certify that the foregoing
statements of fact are true.

Date 5th 12/18 Hammond Kennel

Signature of Licensee _____

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.





Ontario

Ministry
of the
Environment

The Ontario Water Resources Act

WATER WELL RECORD

3609435

3.60.15

Co N

01

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

COUNTY OR DISTRICT

TOWNSHIP, BOROUGHS, CITY, TOWN, VILLAGE

CON. BLOCK, TRACT, SURVEY, ETC.

LOT

Leeds and

Front of Leeds and

Rm 86

13

[REDACTED]

Ganaroque

DATE COMPLETED

48-53

[REDACTED]

Ganaroque Ontario

DAY 15 MO 1

YEAR 84

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	cbv granite			0	101
	granite			101	145
	point rock			145	180
black	granite			180	224

31	32
----	----

41 WATER RECORD WATER FOUND AT - FEET 215 KIND OF WATER 1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	51 CASING & OPEN HOLE RECORD INSIDE DIAM INCHES 6 1/4 MATERIAL 1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	DEPTH - FEET FROM TO 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27 28-29 30-31 32-33 34-35 36-37 38-39 40-41 42-43 44-45 46-47 48-49 50-51 52-53 54-55 56-57 58-59 60-61 62-63 64-65 66-67 68-69 70-71 72-73 74-75 76-77 78-79 80-81 82-83 84-85 86-87 88-89 90-91 92-93 94-95 96-97 98-99 100-101 102-103 104-105 106-107 108-109 110-111 112-113 114-115 116-117 118-119 120-121 122-123 124-125 126-127 128-129 130-131 132-133 134-135 136-137 138-139 140-141 142-143 144-145 146-147 148-149 150-151 152-153 154-155 156-157 158-159 160-161 162-163 164-165 166-167 168-169 170-171 172-173 174-175 176-177 178-179 180-181 182-183 184-185 186-187 188-189 190-191 192-193 194-195 196-197 198-199 200-201 202-203 204-205 206-207 208-209 210-211 212-213 214-215 216-217 218-219 220-221 222-223 224-225 226-227 228-229 230-231 232-233 234-235 236-237 238-239 240-241 242-243 244-245 246-247 248-249 250-251 252-253 254-255 256-257 258-259 260-261 262-263 264-265 266-267 268-269 270-271 272-273 274-275 276-277 278-279 280-281 282-283 284-285 286-287 288-289 290-291 292-293 294-295 296-297 298-299 300-301 302-303 304-305 306-307 308-309 310-311 312-313 314-315 316-317 318-319 320-321 322-323 324-325 326-327 328-329 330-331 332-333 334-335 336-337 338-339 340-341 342-343 344-345 346-347 348-349 350-351 352-353 354-355 356-357 358-359 360-361 362-363 364-365 366-367 368-369 370-371 372-373 374-375 376-377 378-379 380-381 382-383 384-385 386-387 388-389 390-391 392-393 394-395 396-397 398-399 400-401 402-403 404-405 406-407 408-409 410-411 412-413 414-415 416-417 418-419 420-421 422-423 424-425 426-427 428-429 430-431 432-433 434-435 436-437 438-439 440-441 442-443 444-445 446-447 448-449 450-451 452-453 454-455 456-457 458-459 460-461 462-463 464-465 466-467 468-469 470-471 472-473 474-475 476-477 478-479 480-481 482-483 484-485 486-487 488-489 490-491 492-493 494-495 496-497 498-499 500-501 502-503 504-505 506-507 508-509 510-511 512-513 514-515 516-517 518-519 520-521 522-523 524-525 526-527 528-529 530-531 532-533 534-535 536-537 538-539 540-541 542-543 544-545 546-547 548-549 550-551 552-553 554-555 556-557 558-559 560-561 562-563 564-565 566-567 568-569 570-571 572-573 574-575 576-577 578-579 580-581 582-583 584-585 586-587 588-589 590-591 592-593 594-595 596-597 598-599 600-601 602-603 604-605 606-607 608-609 610-611 612-613 614-615 616-617 618-619 620-621 622-623 624-625 626-627 628-629 630-631 632-633 634-635 636-637 638-639 640-641 642-643 644-645 646-647 648-649 650-651 652-653 654-655 656-657 658-659 660-661 662-663 664-665 666-667 668-669 670-671 672-673 674-675 676-677 678-679 680-681 682-683 684-685 686-687 688-689 690-691 692-693 694-695 696-697 698-699 700-701 702-703 704-705 706-707 708-709 710-711 712-713 714-715 716-717 718-719 720-721 722-723 724-725 726-727 728-729 730-731 732-733 734-735 736-737 738-739 740-741 742-743 744-745 746-747 748-749 750-751 752-753 754-755 756-757 758-759 760-761 762-763 764-765 766-767 768-769 770-771 772-773 774-775 776-777 778-779 780-781 782-783 784-785 786-787 788-789 790-791 792-793 794-795 796-797 798-799 800-801 802-803 804-805 806-807 808-809 810-811 812-813 814-815 816-817 818-819 820-821 822-823 824-825 826-827 828-829 830-831 832-833 834-835 836-837 838-839 840-841 842-843 844-845 846-847 848-849 850-851 852-853 854-855 856-857 858-859 860-861 862-863 864-865 866-867 868-869 870-871 872-873 874-875 876-877 878-879 880-881 882-883 884-885 886-887 888-889 890-891 892-893 894-895 896-897 898-899 900-901 902-903 904-905 906-907 908-909 910-911 912-913 914-915 916-917 918-919 920-921 922-923 924-925 926-927 928-929 930-931 932-933 934-935 936-937 938-939 940-941 942-943 944-945 946-947 948-949 950-951 952-953 954-955 956-957 958-959 960-961 962-963 964-965 966-967 968-969 970-971 972-973 974-975 976-977 978-979 980-981 982-983 984-985 986-987 988-989 990-991 992-993 994-995 996-997 998-999 1000-1001 1002-1003 1004-1005 1006-1007 1008-1009 1010-1011 1012-1013 1014-1015 1016-1017 1018-1019 1020-1021 1022-1023 1024-1025 1026-1027 1028-1029 1030-1031 1032-1033 1034-1035 1036-1037 1038-1039 1040-1041 1042-1043 1044-1045 1046-1047 1048-1049 1050-1051 1052-1053 1054-1055 1056-1057 1058-1059 1060-1061 1062-1063 1064-1065 1066-1067 1068-1069 1070-1071 1072-1073 1074-1075 1076-1077 1078-1079 1080-1081 1082-1083 1084-1085 1086-1087 1088-1089 1090-1091 1092-1093 1094-1095 1096-1097 1098-1099 1100-1101 1102-1103 1104-1105 1106-1107 1108-1109 1110-1111 1112-1113 1114-1115 1116-1117 1118-1119 1120-1121 1122-1123 1124-1125 1126-1127 1128-1129 1130-1131 1132-1133 1134-1135 1136-1137 1138-1139 1140-1141 1142-1143 1144-1145 1146-1147 1148-1149 1150-1151 1152-1153 1154-1155 1156-1157 1158-1159 1160-1161 1162-1163 1164-1165 1166-1167 1168-1169 1170-1171 1172-1173 1174-1175 1176-1177 1178-1179 1180-1181 1182-1183 1184-1185 1186-1187 1188-1189 1190-1191 1192-1193 1194-1195 1196-1197 1198-1199 1200-1201 1202-1203 1204-1205 1206-1207 1208-1209 1210-1211 1212-1213 1214-1215 1216-1217 1218-1219 1220-1221 1222-1223 1224-1225 1226-1227 1228-1229 1230-1231 1232-1233 1234-1235 1236-1237 1238-1239 1240-1241 1242-1243 1244-1245 1246-1247 1248-1249 1250-1251 1252-1253 1254-1255 1256-1257 1258-1259 1260-1261 1262-1263 1264-1265 1266-1267 1268-1269 1270-1271 1272-1273 1274-1275 1276-1277 1278-1279 1280-1281 1282-1283 1284-1285 1286-1287 1288-1289 1290-1291 1292-1293 1294-1295 1296-1297 1298-1299 1300-1301 1302-1303 1304-1305 1306-1307 1308-1309 1310-1311 1312-1313 1314-1315 1316-1317 1318-1319 1320-1321 1322-1323 1324-1325 1326-1327 1328-1329 1330-1331 1332-1333 1334-1335 1336-1337 1338-1339 1340-1341 1342-1343 1344-1345 1346-1347 1348-1349 1350-1351 1352-1353 1354-1355 1356-1357 1358-1359 1360-1361 1362-1363 1364-1365 1366-1367 1368-1369 1370-1371 1372-1373 1374-1375 1376-1377 1378-1379 1380-1381 1382-1383 1384-1385 1386-1387 1388-1389 1390-1391 1392-1393 1394-1395 1396-1397 1398-1399 1400-1401 1402-1403 1404-1405 1406-1407 1408-1409 1410-1411 1412-1413 1414-1415 1416-1417 1418-1419 1420-1421 1422-1423 1424-1425 1426-1427 1428-1429 1430-1431 1432-1433 1434-1435 1436-1437 1438-1439 1440-1441 1442-1443 1444-1445 1446-1447 1448-1449 1450-1451 1452-1453 1454-1455 1456-1457 1458-1459 1460-1461 1462-1463 1464-1465 1466-1467 1468-1469 1470-1471 1472-1473 1474-1475 1476-1477 1478-1479 1480-1481 1482-1483 1484-1485 1486-1487 1488-1489 1490-1491 1492-1493 1494-1495 1496-1497 1498-1499 1500-1501 1502-1503 1504-1505 1506-1507 1508-1509 1510-1511 1512-1513 1514-1515 1516-1517 1518-1519 1520-1521 1522-1523 1524-1525 1526-1527 1528-1529 1530-1531 1532-1533 1534-1535 1536-1537 1538-1539 1540-1541 1542-1543 1544-1545 1546-1547 1548-1549 1550-1551 1552-1553 1554-1555 1556-1557 1558-1559 1560-1561 1562-1563 1564-1565 1566-1567 1568-1569 1570-1571 1572-1573 1574-1575 1576-1577 1578-1579 1580-1581 1582-1583 1584-1585 1586-1587 1588-1589 1590-1591 1592-1593 1594-1595 1596-1597 1598-1599 1600-1601 1602-1603 1604-1605 1606-1607 1608-1609 1610-1611 1612-1613 1614-1615 1616-1617 1618-1619 1620-1621 1622-1623 1624-1625 1626-1627 1628-1629 1630-1631 1632-1633 1634-1635 1636-1637 1638-1639 1640-1641 1642-1643 1644-1645 1646-1647 1648-1649 1650-1651 1652-1653 1654-1655 1656-1657 1658-1659 1660-1661 1662-1663 1664-1665 1666-1667 1668-1669 1670-1671 1672-1673 1674-1675 1676-1677 1678-1679 1680-1681 1682-1683 1684-1685 1686-1687 1688-1689 1690-1691 1692-1693 1694-1695 1696-1697 1698-1699 1700-1701 1702-1703 1704-1705 1706-1707 1708-1709 1710-1711 1712-1713 1714-1715 1716-1717 1718-1719 1720-1721 1722-1723 1724-1725 1726-1727 1728-1729 1730-1731 1732-1733 1734-1735 1736-1737 1738-1739 1740-1741 1742-1743 1744-1745 1746-1747 1748-1749 1750-1751 1752-1753 1754-1755 1756-1757 1758-1759 1760-1761 1762-1763 1764-1765 1766-1767 1768-1769 1770-1771 1772-1773 1774-1775 1776-1777 1778-1779 1780-1781 1782-1783 1784-1785 1786-1787 1788-1789 1790-1791 1792-1793 1794-1795 1796-1797 1798-1799 1800-1801 1802-1803 1804-1805 1806-1807 1808-1809 1810-1811 1812-1813 1814-1815 1816-1817 1818-1819 1820-1821 1822-1823 1824-1825 1826-1827 1828-1829 1830-1831 1832-1833 1834-1835 1836-1837 1838-1839 1840-1841 1842-1843 1844-1845 1846-1847 1848-1849 1850-1851 1852-1853 1854-1855 1856-1857 1858-1859 1860-1861 1862-1863 1864-1865 1866-1867 1868-1869 1870-1871 1872-1873 1874-1875 1876-1877 1878-1879 1880-1881 1882-1883 1884-1885 1886-1887 1888-1889 1890-1891 1892-1893 1894-1895 1896-1897 1898-1899 1900-1901 1902-1903 1904-1905 1906-1907 1908-1909 1910-1911 1912-1913 1914-1915 1916-1917 1918-1919 1920-1921 1922-1923 1924-1925 1926-1927 1928-1929 1930-1931 1932-1933 1934-1935 1936-1937 1938-1939 1940-1941 1942-1943 1944-1945 1946-1947 1948-1949 1950-1951 1952-1953 1954-1955 1956-1957 1958-1959 1960-1961 1962-1963 1964-1965 1966-1967 1968-1969 1970-1971 1972-1973 1974-1975 1976-1977 1978-1979 1980-1981 1982-1983 1984-1985 1986-1987 1988-1989 1990-1991 1992-1993 1994-1995 1996-1997 1998-1999 2000-2001 2002-2003 2004-2005 2006-2007 2008-2009 2010-2011 2012-2013 2014-2015 2016-2017 2018-2019 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029 2030-2031 2032-2033 2034-2035 2036-2037 2038-2039 2040-2041 2042-2043 2044-2045 2046-2047 2048-2049 2050-2051 2052-2053 2054-2055 2056-2057 2058-2059 2060-2061 2062-2063 2064-2065 2066-2067 2068-2069 2070-2071 2072-2073 2074-2075 2076-2077 2078-2079 2080-2081 2082-2083 2084-2085 2086-2087 2088-2089 2090-2091 2092-2093 2094-2095 2096-2097 2098-2099 2100-2101 2102-2103 2104-2105 2106-2107 2108-2109 2110-2111 2112-2113 2114-2115 2116-2117 2118-2119 2120-2121 2122-2123 2124-2125 2126-2127 2128-2129 2130-2131 2132-2133 2134-2135 2136-2137 2138-2139 2140-2141 2142-2143 2144-2145 2146-2147 2148-2149 2150-2151 2152-2153 2154-2155 2156-2157 2158-2159 2160-2161 2162-2163 2164-2165 2166-2167 2168-2169 2170-2171 2172-2173 2174-2175 2176-2177 2178-2179 2180-2181 2182-2183 2184-2185 2186-2187 2188-2189 2190-2191 2192-2193 2194-2195 2196-2197 2198-2199 2200-2201 2202-2203 2204-2205 2206-2207 2208-2209 2210-2211 2212-2213 2214-2215 2216-2217 2218-2219 2220-2221 2222-2223 2224-2225 2226-2227 2228-2229 2230-2231 2232-2233 2234-2235 2236-2237 2238-2239 2240-2241 2242-2243 2244-2245 2246-2247 2248-2249 2250-2251 2252-2253 2254-2255 2256-2257 2258-2259 2260-
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Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

3614993

Municipality
3601

Con.
CC

CON

91

County or District Leade	Township/Borough/City/Town/Village Front of Fledgling Lane	Con block tract survey, etc. 13	Lot 13
Address Ganungue	Date completed 3 day 1 month 2001 year		
Northings 21	Eastings 21	Elevation 21	Basin Code 21

[illegible]

41 WATER RECORD			
Water found at - feet	Kind of water		
10-12	1 ☒ Fresh	3 ☐ Sulphur	14
	2 ☒ Salty	6 ☐ Minerals	
		6 ☐ Gas	
15-17	1 ☒ Fresh	3 ☐ Sulphur	19
	2 ☒ Salty	6 ☐ Minerals	
		6 ☐ Gas	
20-23	1 ☒ Fresh	3 ☐ Sulphur	24
	2 ☒ Salty	6 ☐ Minerals	
		6 ☐ Gas	
25-26	1 ☐ Fresh	2 ☐ Sulphur	29
	2 ☐ Salty	6 ☐ Minerals	
		6 ☐ Gas	
30-33	1 ☐ Fresh	3 ☐ Sulphur	34
	2 ☐ Salty	6 ☐ Minerals	
		6 ☐ Gas	

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	12		13-16
6 1/4		1.88	0	22
17-18	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic	19		20-23
8 3/4			0	20
24-25	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	26		27-30
6"			20	19 1/4

SCREEN	Sizes of opening (Slot No.)	21-33	Diameter	34-36	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen 41-44		50
					feet	

61 PLUGGING & SEALING RECORD			
☒ Annular space		☐ Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17	Cement grout	
18-21	22-25		
26-29	30-33	96	

PUMPING TEST	7-1 Pumping test method ¹⁰ ☒ Pump ☐ Baller		Pumping rate ¹¹⁻¹⁴ 10 GPM		Duration of pumping ¹⁵⁻¹⁸ 1 Hours 0 Mins	
	Static level ¹⁹⁻²¹ Water level end of pumping ²²⁻²⁴		Water levels during ²⁵ ☒ Pumping ☐ Recovery			
	15 minutes ²⁵⁻²⁹ 18 feet		30 minutes ³⁰⁻³¹ 49 feet		45 minutes ³²⁻³⁴ 49 feet	
	60 minutes ³⁵⁻³⁷ 49 feet					
	If flowing give rate ³⁸⁻⁴¹ GPM		Pump intake set at ⁴² feet		Water at end of test ⁴³ ☒ Clear ☐ Cloudy	
Recommended pump type ⁴⁴⁻⁴⁵ ☐ Shallow ☒ Deep		Recommended pump setting ⁴⁶⁻⁴⁸ 80 feet		Recommended pump rate ⁴⁹⁻⁵⁰ 10 GPM		

FINAL STATUS OF WELL 54

1 ☒ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished
2 ☐ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well
3 ☐ Test hole	7 ☐ Abandoned (Other)	
4 ☐ Recharge well	8 ☐ Dewatering	

WATER USE

1 ☐ Domestic	5 ☒ Commercial	9 ☐ Not use
2 ☐ Stock	6 ☐ Municipal	10 ☐ Other
3 ☐ Irrigation	7 ☐ Public supply	
4 ☐ Industrial	8 ☐ Cooling & air conditioning	

METHOD OF CONSTRUCTION 57

1 ☐ Cable tool	5 ☒ Air percussion	9 ☐ Driving
2 ☐ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging
3 ☐ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other
4 ☐ Rotary (air)	8 ☐ Jetting	

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.

132

125m

145

Charles P. N.

N

222855

Name of Well Contractor	Well Contractor's Licence No.
G. - Rock Drilling	1119
Address	
R.P. # 2 Jasper Ont	
Name of Well Technician	Well Technician's Licence No.
King	T4
Signature of Technician/Contractor	Submission date
	19 91 01

MINISTRY USE ONLY	Date source	58 Contractor	59-62	Date received	63-68	69
		1119		APR 03 2001		
	Date of inspection	Inspector				
	Remarks					
	CSS.ES1					

Address of Well Location (Street Number/Name)		Township	Lot	Concession
680 CHARLES STREET N.		GANANOQUE	13	1
County/District/Municipality		City/Town/Village	Province	Postal Code
LEFOS		GANANOQUE	Ontario	K7G2W5
UTM Coordinates		Municipal Plan and Sublot Number		Other
Zone Easting Northing				
NAD 83 1840168744910110				

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

[illegible]

Annular Space			
Depth Set at (m/l) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0	2.0	GROUT, CEMENT, SLURRY	.477

Method of Construction		Well Use	
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial
☐ Rotary (Conventional)	☐ Jetting	☒ Domestic	☐ Municipal
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning
☒ Air percussion		☐ Industrial	
☐ Other, specify _____		☐ Other, specify _____	☐ Not used
			☐ Dewatering
			☐ Monitoring

[illegible][illegible]

Water Details		Hole Diameter		
Water found at Depth	Kind of Water: ☐ Fresh ☒ Untested	Depth (m/ft)	Diameter (cm/in)	
176 (m/ft) ☐ Gas ☐ Other, specify		From	To	
Water found at Depth	Kind of Water: ☐ Fresh ☐ Untested	0	21	10
(m/ft) ☐ Gas ☐ Other, specify		21	178	6
Water found at Depth	Kind of Water: ☐ Fresh ☐ Untested			
(m/ft) ☐ Gas ☐ Other, specify				

Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
DAVY WELL DRILLING LTD.		11704	
Business Address (Street Number/Name)		Municipality	
Box 69-6767 ROAD #38		VERONA	
Province	Postal Code	Business E-mail Address	
ON	K0H2W0		
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
6113371421		DAVY, ERIS CHRIS	
Well Technician's Licence No.		Signature of Technician and/or Contractor	
T1124		Date Submitted	
		201509128	

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Results of Well Yield Testing

After test of well yield, water was:		Draw Down		Recovery	
☒ Clear and sand free ☐ Other, specify _____		Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
If pumping discontinued, give reason: ✓		Static Level			
		1	34	1	41
Pump intake set at (mft) 172		2	36	2	40
Pumping rate (l/min / GPM) 5		3	37	3	39
Duration of pumping 1 hrs + min		4	38	4	38
Final water level end of pumping (mft) 41		5	39	5	37
If flowing give rate (l/min / GPM) ✓		10	41	10	35
Recommended pump depth (mft) 172		15	41	15	34
Recommended pump rate (l/min / GPM) 20		20	41	20	34
Well production (l/min / GPM) 20		25	41	25	34
Disinfected? ☒ Yes ☐ No		30	41	30	34
		40	41	40	34
		50	41	50	34
		60	41	60	34

Map of Well Location

Please provide a map below following instructions on the back.

Hand-drawn map showing the intersection of Highway 32 and Highway 401. Highway 32 is a vertical road on the left, and Highway 401 is a horizontal road at the top. Charles Street N is a horizontal road below Highway 401. A vertical road branches off Highway 32 to the right, passing under Highway 401. The distance from Highway 401 to Charles Street N along Highway 32 is 0.5 KM. The distance from the intersection of Highway 32 and the vertical road to the intersection of the vertical road and Charles Street N is 0.1 KM. The vertical road is labeled 87' and #680. A circled 'X' is marked at the intersection of the vertical road and Charles Street N.

Comments:

Well owner's information package delivered ☒ Yes ☐ No	Date Package Delivered 201150928	Ministry Use Only Audit No. Z199560
	Date Work Completed 201150928	NOV 10 2015

Report Council – UTIL-2026-13

Date: September 2, 2026 ☐ **IN CAMERA**
Subject: 2026 First (1st) Quarter Water & Wastewater Reports
Author: David Armstrong, Manager of Public Works ☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES THE 2026 WATER AND WASTEWATER FIRST (1st) QUARTER REPORT FOR INFORMATION, AS PRESENTED IN COUNCIL REPORT UTIL-2026-13.

STRATEGIC PLAN COMMENTS:

Priority 1 - Provide Quality Core Services and Infrastructure; Strategy 1 – Review, prioritize, and deliver core services according to responsible and sustainable service levels.

BACKGROUND:

This report covers the months of January, February, and March 2026. The intent of this report is to keep Council and the public current with performance and major operational aspects of the water and wastewater systems, including any notable highlights, Ministry of Environment, Conservation and Parks (MECP) Inspections, and Adverse Conditions.

INFORMATION / DISCUSSION:

This report is submitted quarterly and represents the First (1st) quarter of 2026. Throughout this quarter there were no adverse water quality incidents and no bypass/overflow events. A couple items of mention are as follows:

1. On January 14, 2026, the MECP was notified that the annual average concentration of Total Suspended Solids in effluent from the Gananoque Sewage Lagoons exceeded the Effluent Limit for 2025. This can be partially attributed to the ongoing bypass of Lagoon Cell #1.
2. Three watermain breaks occurred in the month of February. The breaks were located on River St., Elizabeth Dr., and Oak St. In each case staff acted promptly to find the breaks and properly repair them, while ensuring there was no potential for contamination of the treated water.

APPLICABLE POLICY/LEGISLATION:

Quality Management System Communications Procedure #1006
Safe Drinking Water Act, 2002

FINANCIAL CONSIDERATIONS/GRANT OPPORTUNITIES:

N/A

CONSULTATIONS:

Christine Brennan – Utilities Compliance Coordinator

Matt Hoult – Superintendent of Water & Wastewater

Ben Mac Neil – Compliance Coordinator

Public Works – Utilities Division Operators

Members of Municipal Enforcement Sewer Use Group (MESUG)

Members of Municipal Water & Wastewater Regulatory Committee (MWWRC)

ATTACHMENTS:

Attachment 1 – 2026 1st Quarter Water Report

Attachment 2 – 2026 1st Quarter Wastewater Report

APPROVAL	
	David Armstrong, Manager of Public Works
	John Morrison, Treasurer
	Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions are in compliance with Council's own policies and guidelines and the <i>Municipal Act</i> and regulations.
	Melanie Kirkby, CAO



Quarterly Reports

Water 2026

1st Quarter

A handwritten signature in black ink, appearing to read "D. Armstrong", is positioned above a horizontal line.

David Armstrong
Manager of Public Works



James W. King Drinking Water System 220001254

This report covers the first (1st) quarter of 2026 (January, February and March). The intent of the report is to keep the Committee, Council, and the public current with the performance and major operational aspects of the Water Treatment Plant and the Water Distribution System, including any notable highlights, Ministry of the Environment, Conservation and Parks (MECP) inspections and adverse conditions.

Gananoque continues to follow the Water Treatment Plant's Municipal Drinking Water Licence and Drinking Water Works Permit, in addition to the Ontario Safe Drinking Water Act and regulations.

1.0 Regulatory Sampling

The purpose of regulatory sampling is to protect public health, maintain transparency and ensure the continued delivery of clean and safe drinking water.

Table 1: Annual Sampling Requirements

Annual	Completed January 13 th , 2026
Quarterly	January 2026, April 2026, July 2026 and October 2026
Lead	December 15 th 2025– April 15 th 2026 June 15 th 2026 – October 15 th 2026
Microcystin Sampling	Weekly visual inspections between June 1 st 2026 to October 31 st 2026, sampling if an algal bloom is observed.

Table 2: Monthly Sample Results

Month	Number of Distribution Samples	E. Coli Results	Total Coliform Results	Free Chlorine Residuals			Total Chlorine Residuals		
				Min	Max	Ave	Min	Max	Ave
January	16	0	0	0.81	2.64	1.77	1.05	2.88	2.02
February	16	0	0	1.04	2.99	1.97	1.26	3.20	2.23
March	20	0	0	1.06	2.93	1.94	1.24	3.37	2.26

2.0 James W. King Water Treatment Plant

The James W. King Water Treatment Plant is a Class II direct filtration facility with a design capacity of 10,220 m³ per day. The treatment process consists of pre-chlorination, coagulation, flocculation, filtration and post-chlorination.

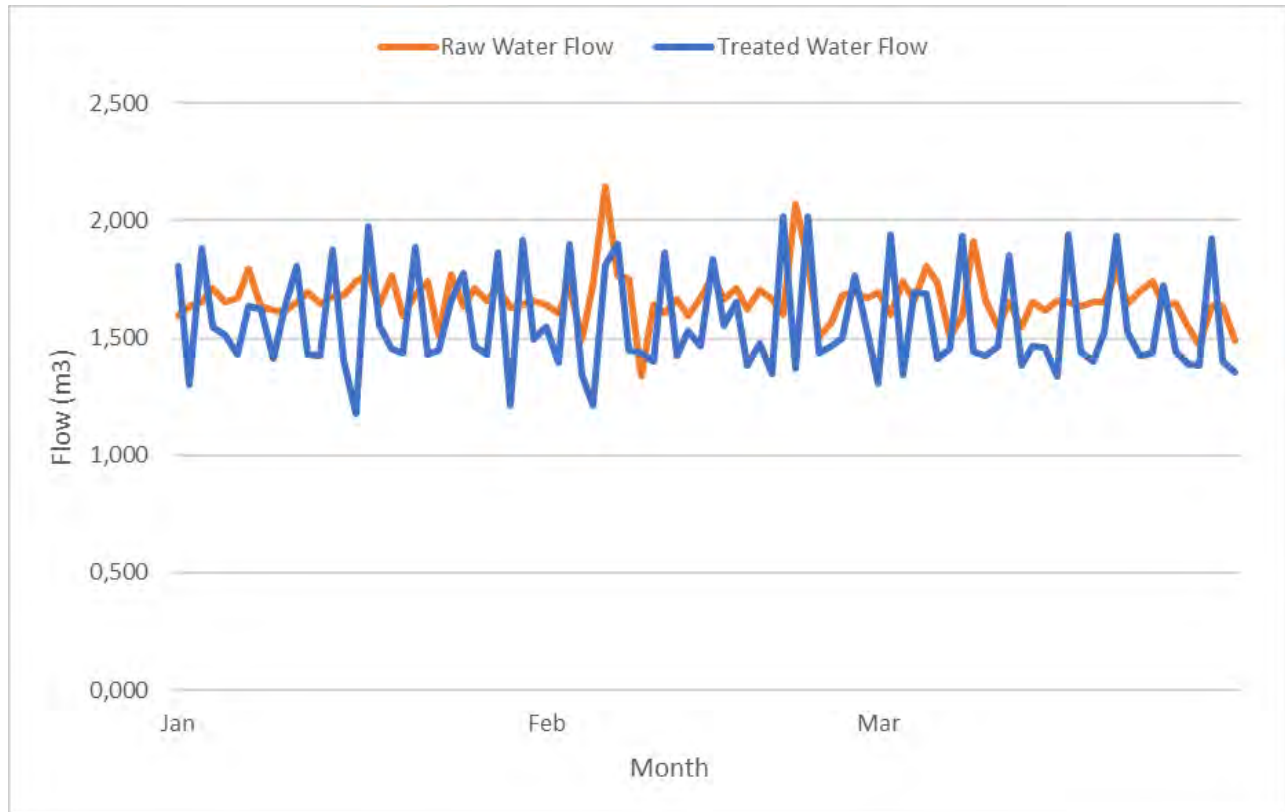
2.1 Raw Water and Treated Water Flows

Flow rates are continuously monitored to document how much water is moving through the treatment plant and distribution system. This helps ensure equipment is operating correctly and within the regulated capacity.

Table 3: Raw and Treated Flows

Month	Max Raw Daily Flow	Average Raw Daily Flow	Max Treated Daily Flow	Average Treated Daily Flow
January	1,796 m ³ /day	1,671 m ³ /day	1,974 m ³ /day	1,577 m ³ /day
February	2,149 m ³ /day	1,683 m ³ /day	2,019 m ³ /day	1,572 m ³ /day
March	1,909 m ³ /day	1,649 m ³ /day	1,941 m ³ /day	1,544 m ³ /day

Figure 1: First Quarter Monthly Flow Chart



2.2 Water Treatment Plant Operational Highlights

- January 7, 2026 – Operational issues were identified at the Water Treatment Plant involving the air scour valve V407 and the backwash inlet valve V408 during filter backwash operations. Excel Pro and Jet Electric attended site to investigate. It was determined that failing control relays were causing intermittent and conflicting signals, resulting in failed valve operation. The relays were replaced, wiring deficiencies were identified and corrected and valve settings were adjusted to restore operation.

- January 14, 2026 – A scheduled HVAC boiler maintenance was completed by Johnson Controls. During the inspection a faulty heating pump motor was replaced. A potential issue with the motor starter was also noticed and a worn burner motor was temporarily adjusted. Johnson Controls reviewed replacement recommendations to the operator to prevent future failure.
- February 5, 2026 - The raw water sample pump was upgraded from 120V to 240V, requiring installation of a new power supply. Jet Electric completed the work by replacing the temporary wiring with a permanent conduit-encased power supply to support the upgraded system.
- March 26, 2026 – A bin was created at the Water Treatment Plant to collect expired and unused chemicals.

3.0 James W. King Water Distribution System

3.1 Watermains and Water Services

- Various curb stop repairs.
- January 9, 2026 – During a scheduled generator test at the Water Tower, the existing Honda 6500i generator experienced an overload alarm, preventing the required equipment and EMS communication systems to operate on generator power. Multiple restart attempts were unsuccessful however, the issue was temporarily resolved through a manual reset and the generator operated under load without issues. Given the importance of maintaining emergency communications, a replacement generator (Honda EU7000is) was arranged through Motorsport Plus and the original unit has been sent for further diagnostic testing. A future upgrade to a permanent standby generator with an automatic transfer switch could be beneficial.
- February 8, 2026 - A watermain break was identified on River Street near Fourth Street. The Utilities Operators responded and confirmed a low-flow leak. The watermain valves were operated to isolate the area and notifications were delivered to affected residents between Third and Fourth Street. During excavation, it was determined to be a circumferential break and a secondary crack, which were repaired using clamps. Once the repair was complete, the system was flushed and turbidity and chlorine samples were collected.
- February 10, 2026 - A watermain break was identified on Elizabeth Drive. The watermain valves were operated to isolate and control flow within the system, one valve required careful adjustment due to leakage. Hybrid Construction attended site to expose the circumferential break on the 6" ductile iron watermain. The break was repaired using a clamp following disinfection procedures. The system was flushed to restore water quality, and turbidity and chlorine samples were collected. The break is believed to have been caused by fluctuating winter temperatures.

- February 22, 2026 - A watermain break was identified on Oak Street on the 4" watermain. The watermain valves were operated to control flow, one valve requires future repair due to leakage. The failure was identified as a circumferential break and repaired using a clamp, the watermain was then properly bedded and restored. The system was flushed and turbidity and chlorine residuals were collected.

4.0 Water Balance Report

The Water Balance Report has been prepared for submission to the Ministry of the Environment, Conservation and Parks and the Town of Gananoque Council. The purpose of this report is to provide a summary of the Town's treated water that has been distributed to customers or used in operation and the calculated water losses for 2025.

The information has been collected using water meter data, operational records and calculated flows. Please see Appendix A to review the 2025 Water Balance Report which was submitted to the Ministry of the Environment, Conservation and Parks on February 25, 2026.

Prepared By:

Christine Brennan

Christine Brennan
Utilities Compliance Coordinator



Appendix A



2025 WATER BALANCE REPORT

(m3)

Water Treatment Plant (2025)	664,517
Accounted for Water	
Water sold to customers (2025)	439,204.09
Total Billed Water	439,204
Total Non-Revenue Water (NRW)	225,313
NRW Accounted for	33.9%
WTP Service / Chlorinator Flow / Diesel Cooling	975
Watermain Breaks/Service Leaks	38,705
Watermain Commissioning	197
East End Pumping Station Water Usage	106
Stone Street Pumping Station Water Usage	1,555
Flush Stations (James Brennan, Castle Grove, Sub Arthur, Dempster, Herbert)	32,418
Fire Fighting and Training	2,624
Hydrant Fire Flow testing and Flushing	16,704
Bulk Filling / Public Works Fire Hydrant	223
Total NRW used	93,507
Percentage of NRW Accounted for	14.1%
Total Lost Water	131,806
Percentage of Lost Water	19.83%



Quarterly Reports

Wastewater

2026

1st Quarter

A handwritten signature in black ink, appearing to read "D. Armstrong", is positioned above a horizontal line.

David Armstrong
Manager of Public Works



Gananoque Sewage
Lagoon
ECA – 0999-7X8QL3

This report covers the first (1st) quarter of 2026 (January, February and March). The intent of the report is to keep the Committee, Council, and the public current with the performance and major operational aspects of the Gananoque Sewage Lagoon and the Wastewater Collection System, including any notable highlights, MECP inspections, bypasses and overflow events.

1.0 Lagoon

1.1 Regulatory Sampling

Regulatory sampling is conducted to ensure that effluent discharged from the Lagoon complies with the environmental and regulatory requirements.

Sampling is completed on a weekly basis to monitor the parameters such as carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), total phosphorus, E. coli and pH levels.

These parameters are subject to annual and monthly average concentration limits, with pH levels required to remain between 6.0 and 9.0 (objectives) and within 5.5 to 9.5 (limits) at all times. The results are used to assess the performance of the Lagoon and are reported in accordance with regulatory conditions.

Table 1: Treated Sewage Effluent Results

Month	Parameter	Minimum	Maximum	Average
January	E. Coli (cfu/100ml)	11000	150000	53250
	CBOD ₅ (mg/L)	12	13	12.5
	Total Suspended Solids (mg/L)	22	34	28.75
	Total Phosphorus (mg/L)	0.55	0.62	0.58
	pH	6.3	6.7	6.5
February	E. Coli (cfu/100ml)	10000	51000	31500
	CBOD ₅ (mg/L)	13	15	13.25
	Total Suspended Solids (mg/L)	17	22	20
	Total Phosphorus (mg/L)	0.56	0.58	0.57
	pH	6.9	7.6	7.2
March	E. Coli (cfu/100ml)	2000	50000	19200
	CBOD ₅ (mg/L)	10	15	12.8
	Total Suspended Solids (mg/L)	18	23	20.48
	Total Phosphorus (mg/L)	0.30	0.62	0.48
	pH	7.1	7.5	7.3

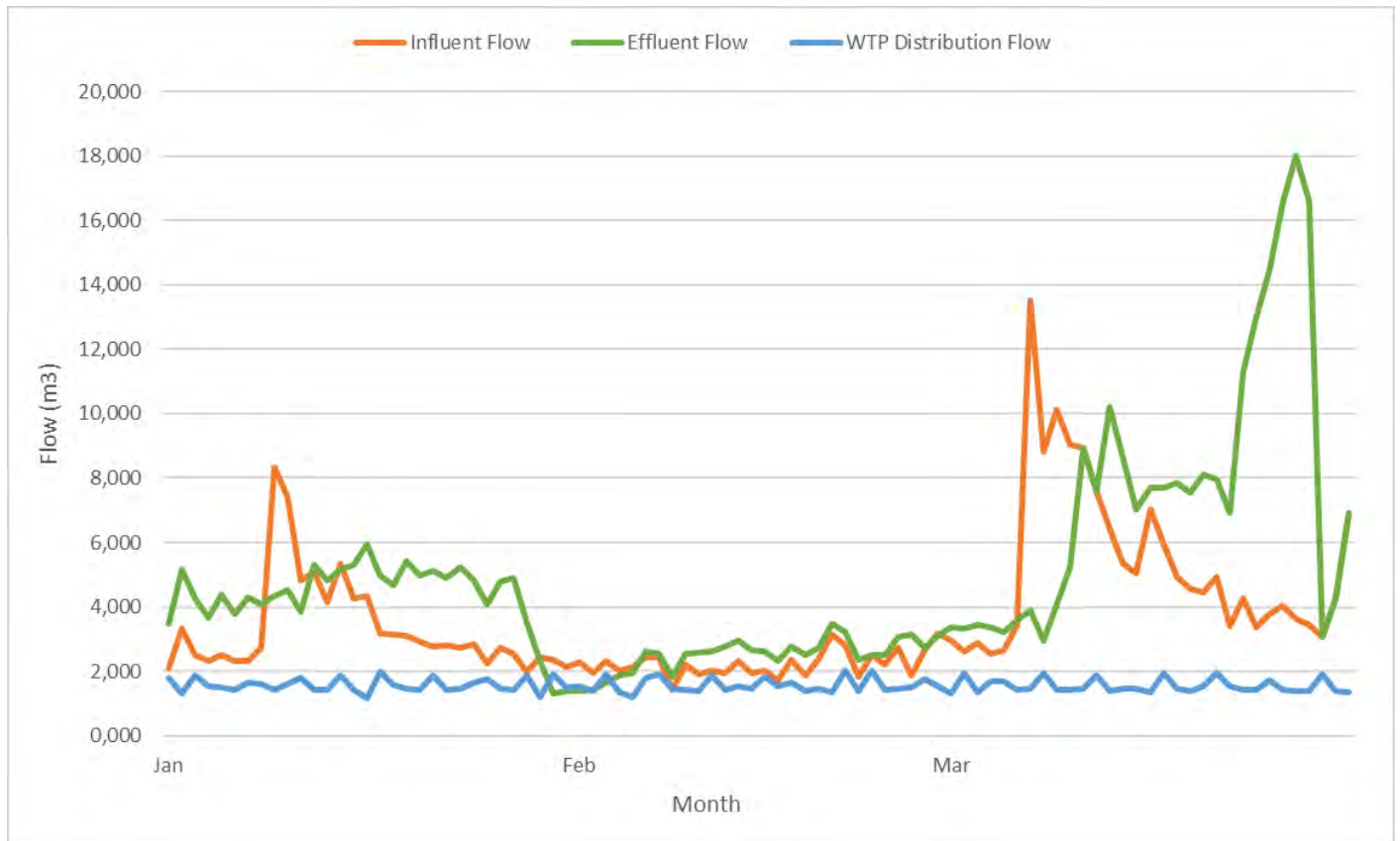
1.2 Wastewater Treatment Flows

Flow monitoring is performed continuously at the Lagoon to measure the volume of wastewater entering and leaving the treatment system. Daily flow readings are recorded and used to calculate average daily, monthly and peak flows. These values help identify trends, assess inflow and infiltration impacts and information on maintenance or capital planning decisions.

Table 2: Lagoon Incoming and Effluent Flows

Month	Max Daily Incoming Flow	Average Daily Incoming Flow	Max Daily Effluent Flow	Average Daily Effluent Flow
January	8,339 m ³ /day	3,350 m ³ /day	5,948 m ³ /day	4,348 m ³ /day
February	3,191 m ³ /day	2,239 m ³ /day	3,476 m ³ /day	2,515 m ³ /day
March	13,535 m ³ /day	5,292 m ³ /day	17,994 m ³ /day	7,641 m ³ /day

Figure 1: Treated Effluent Flow and Raw Incoming Flow Compared to the Water Treatment Plant Distribution Flow (m³):



* Spikes on the Raw Influent Flow line on the below graphs were due to heavy precipitation or snow melt.

2.0 Operational Collection Highlights

2.1 General Services

- Various sewer camera inspections.
- North Ward manhole inspections began.
- March 9, 2026 – Quinte Sewer was onsite to complete maintenance sewer jetting at Fourth Street near the rail bed. The work was required due to a previously displaced manhole which may have allowed rocks and gravel into the system. Multiple jetting passes were complete in both directions to clean the line and plans are in place to replace the manhole structure.

3.0 Ministry of the Environment, Conservation and Parks Communication

- January 14, 2026 – A letter was sent to the Ministry of the Environment, Conservation and Parks as notification for a 2025 Total Suspended Solids exceedance. Please see Appendix A for the *Gananoque Sewage Lagoon Total Suspended Solids Exceedance* letter.

Prepared By:

Christine Brennan

Christine Brennan
Utilities Compliance Coordinator



Appendix A



January 14, 2026

Shayna Maracle
Water Compliance Officer
Ministry of the Environment, Conservation and Parks
East Region
(613) 449-0504

RE: Gananoque Sewage Lagoon Total Suspended Solids Exceedance

Dear Shayna,

This letter is to inform you of the Lagoon treated effluent Total Suspended Solid (TSS) exceedance for 2025. As stated in the Lagoon Certificate of Approval (0999-7X8QL3) in section 5.0 Effluent Limits (1) "The Owner shall design, construct, operate and maintain the *Works* such that the concentrations of the materials named in Table 2 as effluent parameters are not exceeded in the effluent from the *Works*." Please see section 5.0 Effluent Limits, Table 2 below:

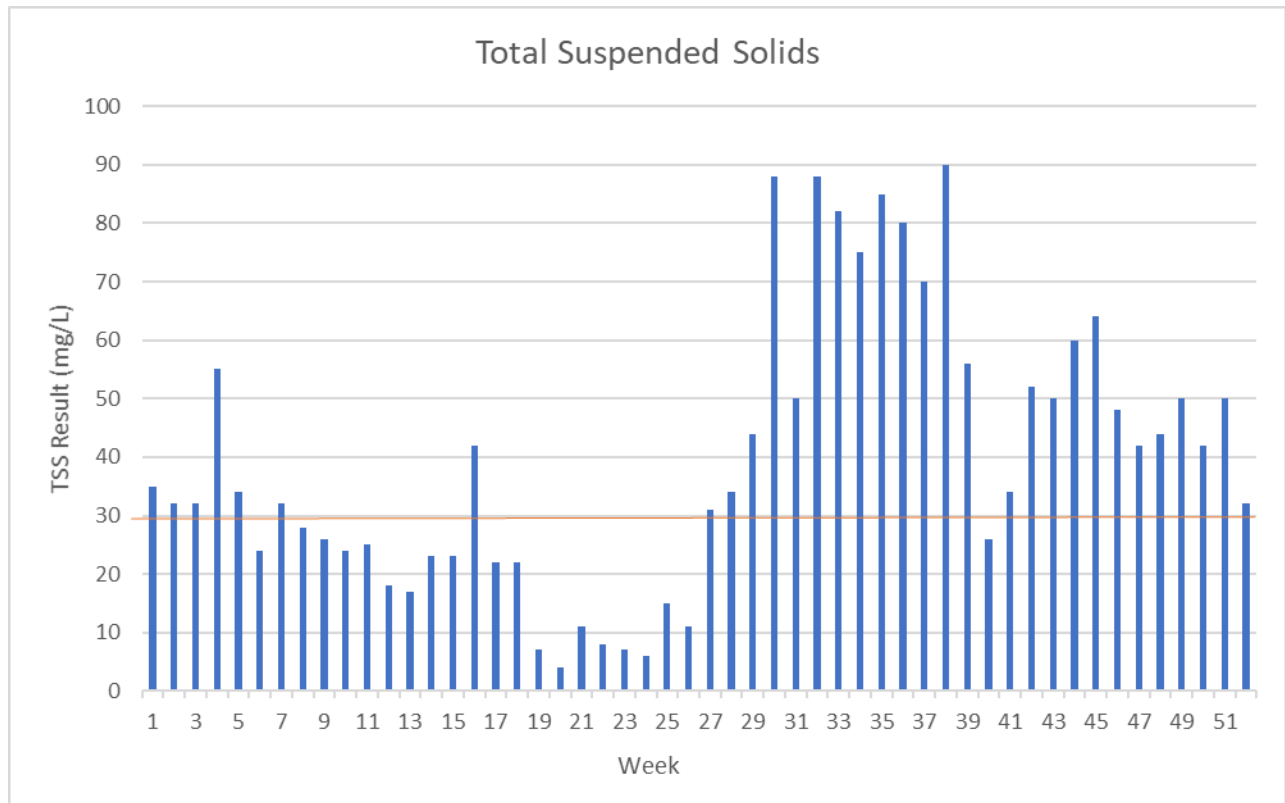
Table 2 - Effluent Limits		
Parameter	Annual Average Concentration (Milligrams per litre except pH)	Annual Average Loading (Kilograms per day)
Column 1	Column 2	Column 3
<i>CBOD₅</i>	30	159
Total Suspended Solids	30	159
Total Phosphorus*	1.0	5.3
pH**	5.5-9.5	-

* Monthly averages.

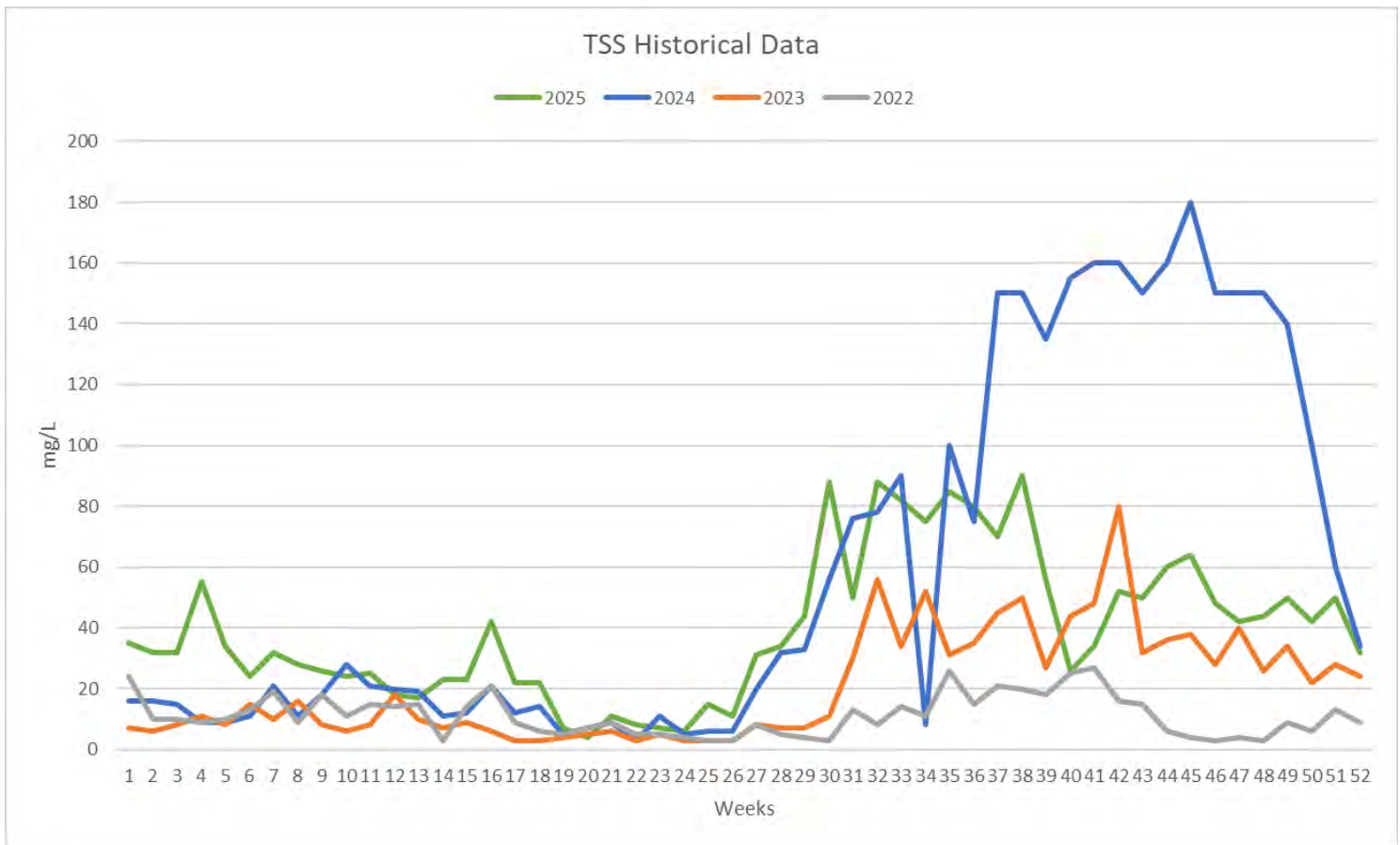
** At all times.

Total Suspended Solids

The Certificate of Approval requires Total Suspended Solids to have an annual average concentration below 30mg/L. Through our sampling and monitoring program, the Town of Gananoque has exceeded the annual concentration for 2025. The 2025 average of Total Suspended Solids was 39.42 mg/L, please see the below graph showing the Total Suspended Solids results.



Over the past few years the Town has had increasing Total Suspended Solids around the fall season. The below graph shows the historical data from 2022 to 2025.



Since the removal of Acti-Zyme, the Total Suspended Solids concentrations have begun to stabilize. However, on April 17th, 2025, the Town of Gananoque placed Cell 1 of the lagoon system on bypass due to breaches in the cell berm. This operational change may have had a negative impact on Total Suspended Solids levels, as the overall sewage retention time within the lagoon system has been reduced.

The Town is continuing its efforts to maintain the Total Suspended Solids to be within the effluent limits and objectives. We trust the above is clear, but if you have any further questions or require additional information please do not hesitate to contact me.

Sincerely,

Christine Brennan
Christine Brennan,
Utilities Compliance Coordinator

Report Council – UTIL-2026-14

Date: September 2, 2026 ☐ **IN CAMERA**
Subject: 2026 Second (2nd) Quarter Water & Wastewater Reports
Author: David Armstrong, Manager of Public Works ☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RECEIVES THE 2026 WATER AND WASTEWATER SECOND (2nd) QUARTER REPORT FOR INFORMATION, AS PRESENTED IN REPORT COUNCIL UTIL-2026-14.

STRATEGIC PLAN COMMENTS:

Priority 1 -PROVIDE QUALITY CORE SERVICES AND INFRASTRUCTURE

Strategy 1 – Review, prioritize, and deliver core services according to responsible and sustainable service levels.

BACKGROUND:

This report covers the months of April, May, and June 2026. The intent of this report is to keep Council and the public current with performance and major operational aspects of the water and wastewater systems, including any notable highlights, Ministry of Environment, Conservation and Parks (MECP) Inspections, and Adverse Conditions.

INFORMATION / DISCUSSION:

This report is submitted quarterly and represents the Second (2nd) quarter of 2026. Throughout this quarter there were no adverse water quality incidents and one bypass/overflow event. A couple items of mention are as follows:

1. The annual Significant Drinking Water Threat Assessment Report is submitted as an Appendix to 2nd Quarter 2026 Council Water Report.
2. Contract regarding Professional Services for Sewage Lagoon Remediation Project was awarded to J.L. Richards & Associates Limited and preliminary work commenced.

APPLICABLE POLICY/LEGISLATION:

Quality Management System Communications Procedure #1006
Safe Drinking Water Act, 2002

FINANCIAL CONSIDERATIONS/GRANT OPPORTUNITIES:

N/A

CONSULTATIONS:

Ben Mac Neil – Compliance Coordinator

Matt Hoult – Superintendent of Water & Wastewater

Public Works – Utilities Division Operators

Members of Municipal Enforcement Sewer Use Group (MESUG)

Members of Municipal Water & Wastewater Regulatory Committee (MWWRC)

ATTACHMENTS:

Attachment 1 – 2026 2nd Quarter 2026 Council Water Report

Attachment 2 – 2026 2nd Quarter 2026 Council Wastewater Report

APPROVAL	
	David Armstrong, Manager of Public Works
	John Morrison, Treasurer
	Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions are in compliance with Council's own policies and guidelines and the <i>Municipal Act</i> and regulations.
	Melanie Kirkby, CAO



Quarterly Reports

Water

2026

2nd Quarter

A handwritten signature in black ink, appearing to read "D. Armstrong", written over a horizontal line.

David Armstrong
Manager of Public Works



James W. King Drinking Water System 220001254

This report covers the second (2nd) quarter of 2026 (April, May and June). The intent of the report is to keep the Committee, Council, and the public current with the performance and major operational aspects of the Water Treatment Plant and the Water Distribution System, including any notable highlights, Ministry of the Environment, Conservation and Parks (MECP) inspections and adverse conditions.

Gananoque continues to follow the Water Treatment Plant's Municipal Drinking Water Licence and Drinking Water Works Permit, in addition to the Ontario Safe Drinking Water Act and Regulations.

1.0 Regulatory Sampling

The purpose of regulatory sampling is to protect public health, maintain transparency, and ensure the continued delivery of clean and safe drinking water. It also helps the Town monitor the performance of its water treatment processes and infrastructure, ensuring ongoing compliance.

Table 1: Annual Sampling Requirements

Annual	Completed January 13 th , 2026
Quarterly	January 2026, April 2026, July 2026 and October 2026
Lead	December 15 th 2025– April 15 th 2026 June 15 th 2026 – October 15 th 2026
Microcystin Sampling	Weekly visual inspections between June 1 st 2026 to October 31 st 2026, sampling if an algal bloom is observed.

Table 2: Monthly Sample Results

Month	Number of Distribution Samples	E. Coli Results	Total Coliform Results	Free Chlorine Residuals			Total Chlorine Residuals		
				Min	Max	Ave	Min	Max	Ave
April	16	0	0	1.12	2.85	2.01	1.30	3.15	2.32
May	16	0	0	0.55	2.58	1.84	0.75	3.08	2.14
June	20	0	0	0.46	2.70	1.71	0.63	3.06	2.00

2.0 James W. King Water Treatment Plant

The James W. King Water Treatment Plant is a Class II direct filtration facility with a design capacity of 10,220 m³ per day. The treatment process consists of pre-chlorination, coagulation, flocculation, filtration and post-chlorination, to ensure safe potable water.

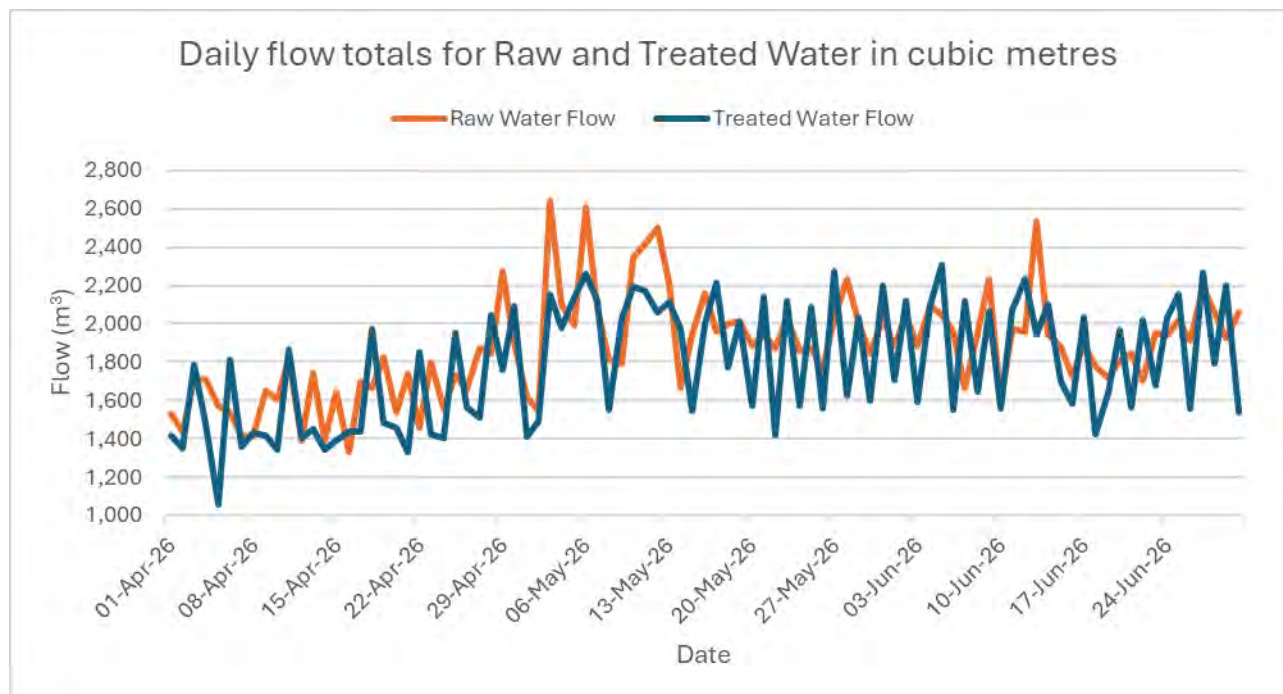
2.1 Raw Water and Treated Water Flows

Flow rates are continuously monitored to document how much water is moving through the treatment plant and distribution system. This helps ensure equipment is operating correctly and within the regulated capacity.

Table 3: Raw and Treated Flows

Month	Max Raw Daily Flow	Average Raw Daily Flow	Max Treated Daily Flow	Average Treated Daily Flow
April	2,091 m ³ /day	1,554 m ³ /day	2,272 m ³ /day	1,649 m ³ /day
May	2,277 m ³ /day	1,916 m ³ /day	2,641 m ³ /day	2,025 m ³ /day
June	2,310 m ³ /day	1,876 m ³ /day	2,533 m ³ /day	1,939 m ³ /day

Figure 1: Second Quarter Monthly Flow Chart



2.3 Water Treatment Plant Operational Highlights

- April 22, 2026 – Water Operators along with staff members from Jet Electric safely replaced a failing motor for the rapid mixer with a rebuilt motor that was kept on-site for this eventuality.
- May 29, 2026 - Dundee Marine was onsite to inspect the raw water intake.
- June 3, 2026 – Raw water chlorinator pump motor failed and was replaced by Operator.

3.0 James W. King Water Distribution System

Hydrants:

- Hydrant repairs and inspections completed throughout the quarter.
- Two water theft events were discovered by vigilant Town staff in the month of June. During one of those events staff reacted quickly by contacting Gananoque Police Department and tracking the water thief until the Police Officers apprehended the individual. Water hydrants illegally used for water theft were inspected and drained by Operators after the theft was detected.

Services:

- On June 16th, Town staff repaired a broken water service and curb stop at 380 Charles St. North.
- On June 24th, Town staff observed a live tap of the 10" watermain at 580 King St. East. The existing water service had been decommissioned and a new 2" service was installed to support the change of use for the property.
- Curb stop repairs continued throughout the quarter.

Water Meters:

- Monthly meter reads completed.
- Various water meter investigations and replacements completed.

Prepared By:

Ben Mac Neil

Ben Mac Neil
Public Works Compliance Coordinator



Appendix A



Significant Drinking Water Threat Assessment

Ben Mac Neil
Utilities Compliance Coordinator
June 9, 2026

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Appendix A - The Town of Gananoque's Drinking Water Threat Assessment

1.0 Revision History

Date	Description	Revised By
September 30, 2024	Creation of document.	C. Brennan
June 18, 2025	Creation of Appendix A – Town of Gananoque's Drinking Water Threats Assessment Table as per Ontario Regulation 287/07.	C. Brennan
June 9, 2026	Revised for 2026	B. Mac Neil

2.0 CLI-ECA System Information

The Ministry of Environment Conservation and Parks (MECP) has issued Consolidated Linear Infrastructure Environmental Compliance Approvals (CLI-ECA) to the Town of Gananoque for the municipal sewage collection system and stormwater management system. Any proposed alteration of these systems must be designed, constructed, and operated protecting the drinking water source, complying to the CLI-ECA requirements of each system.

Table 1: Stormwater Management System CLI-ECA

System Name	Stormwater Management System – Gananoque
System Owner	The Corporation of the Town of Gananoque
ECA Number	156-S701
ECA Issue Date	August 11th, 2022

Table 2: Sewage Collection System CLI-ECA

System Name	Gananoque Sewage Collection System
System Owner	The Corporation of the Town of Gananoque
ECA Number	156-W601
ECA Issue Date	August 11th, 2022

3.0 Intake Protection Zones

A drinking water threat refers to an activity or condition which could adversely affect the quality of the source water. Significant drinking water threats occur in vulnerable areas such as Gananoque's Intake Protection Zones (IPZ).

In Figure 1, IPZ-1 (yellow) is classified as the area immediately surrounding the intake, including an area 200 to 1000 metres upstream, with a vulnerability score of 8 to 10. IPZ-2 (blue) is the area where water (and pollutants) can reach the intake in a specified time, usually two hours minimum. It has a vulnerability score of 5.6 to 9.

Figure 1: Intake Protection Zone Map



Table 3: Gananoque's Intake Protection Zones

IPZ Number	Wellhead Protection Area	Intake Protection Zone Score	Issue Contributing Area	Significant Groundwater Recharge Area	Highly Vulnerable Aquifer
IPZ-1	No	9	No	No	No
IPZ-2	No	8.1	No	No	Yes – Score 6

4.0 Drinking Water Source

Ontario's drinking water source protection program is designed to ensure clean, safe, and abundant sources of water for municipal residential drinking water systems.

The St. Lawrence River is the source water for the Town of Gananoque. The Water Treatment Plant draws the water from the St.

Lawrence River via a 600mm intake pipe that is 416m long and terminating at an intake crib structure approximately 6m below the water surface. The St. Lawrence River is considered a high-quality water source with minor seasonal variations in turbidity levels.

5.0 Threat Assessment Purpose

The purpose of this report is to satisfy conditions within the CLI-ECAs requiring the system owner to prepare a 'Significant Drinking Water Threat Assessment for Proposed Alterations.' The CLI-ECA requires the Significant Drinking Water Threat Assessment to contain the following:

- ✓ An outline of the circumstances under which the proposed Alterations could pose a Significant Drinking Water Threat based on the Director's Technical Rules established under the Clean Water Act (CWA).
- ✓ An outline of how the Owner assesses the proposed Alterations to identify drinking water threats under the CWA.
- ✓ For any proposed Alteration a list of components, equipment, or Sewage Works that are being altered and have been identified as a Significant Drinking Water Threat.
- ✓ A summary of design considerations and other measures that have been put into place to mitigate risks resulting from construction or operation of the components, equipment or Sewage Works, such as those included in the Standard Operating Policy for Sewage Works.
- ✓ The Owner shall make any necessary updates to the report at least once every twelve (12) months.

6.0 Proposed Alteration Assessments

The Town of Gananoque is required to assess proposed alterations within vulnerable areas to identify potential significant drinking water threats. The project must provide the following details to determine whether the alteration will constitute as a significant drinking water threat:

- ✓ Project number
- ✓ Project location
- ✓ Project / alteration type
 - o Storm sewer
 - o Stormwater management facility
 - o Sanitary sewer
 - o Wastewater pumping station
- ✓ Project description (brief description on the proposed scope of work)

If a significant drinking water threat has been identified for a project or alteration, the Town of Gananoque is required to mitigate the risk of contamination to the drinking water source through the construction, design and operation of the proposed project or alteration.

7.0 Project / Alteration List

Projects / alterations which have been identified as a potential significant drinking water threat are recorded in *Table 4: Significant Drinking Water Threat Alteration List* below:

Table 4: Significant Drinking Water Threat Alteration List

Year	Project Number	Project Name	Address	Alteration Type	Risk Mitigation
2024	RDS-2023-03	Arthur Street Reconstruction – Phase 1	Arthur Street	Reconstruction of road, storm, water and sanitary. Sewage collection bypass required to complete the sanitary reconstruction.	Spill Response Plan within the bypass procedure provided by the contractor.
2025	N/A	No SDWT Alterations	N/A	N/A	N/A

If a project / alteration has been identified as a significant drinking water threat the Town of Gananoque shall outline how the proposed works will be managed to mitigate the risk of contamination to the drinking water source.

Additional information on identifying potential significant drinking water threats can be found in the MECP's *Design Criteria for Sanitary Sewers, Storm Sewers and Force mains*.

8.0 Risk Mitigation

Where the proposed project / alteration is identified as a significant drinking water threat additional design and operational requirements must be applied to mitigate the risk of the activity to drinking water sources.

The following types of actions may be appropriate:

- ✓ Monitoring conditions (as a minimum) – quantity and quality (e.g., chloride, Total Suspended Solids, Total Phosphorous and nitrates) in surface water.
- ✓ Cleaning stormwater management facilities sediment for disposal or beneficial re-use.
- ✓ Lining stormwater management ponds to prevent leakage
- ✓ Risk Management Plans and Salt Management Plans.
- ✓ Other recommended risk management measures, and/or best practices, as appropriate or requested to developers by the Town of Gananoque.

9.0 Conclusion

The Significant Drinking Water Threat Assessment Report is generated to comply with the Clean Water Act, 2006 and the CLI-ECA's for the Town of Gananoque's municipal sewage collection system and stormwater management system. It contains information on threats to the municipal drinking water source and risk mitigations. The assessment report will be updated within twelve (12) months of any significant drinking water threat alteration. The Corporation of the Town of Gananoque has taken all necessary steps to comply with all source water protection regulatory requirements.

Appendix A

The Town of Gananoque's Drinking Water Threat Assessment

The following table evaluates potential threats to the drinking water source within the Town of Gananoque, as required under the Clean Water Act and its 2021 Technical Rules. Each element is assessed based on a hazard score and a vulnerability score.

- Hazard Score: Represents the level of risk associated with a specific activity.
- Vulnerability Score: Represents how vulnerable the drinking water source is to the contamination in the area. The Town of Gananoque's IPZ 1 has a vulnerability score of 9 and IPZ 2 a vulnerability score of 8.1.

The Threat Level is calculated by multiplying the hazard score by the vulnerability score. The result is then used to classify the activity as a Significant, Moderate, or Low Threat:

- Significant Threat (80 or higher) = The activity poses a high risk to the drinking water source. The risk must be addressed in the Source Protection Plan with mandatory policies or risk management measures.
- Moderate Threat (60 to 79) = The activity poses a moderate risk. Policies to manage these threats are optional and based on local discretion.
- Low Threat (Less than 60) = The activity poses a low risk. Usually monitored or addressed through education and outreach.

Table 1: Drinking Water Threat Assessment

Activity	Hazard Score	IPZ-1 (9) Vulnerability Score	Threat Level	IPZ-2 (8.1) Vulnerability Score	Threat Level	Notes
Sewage Treatment System Outfalls and Overflows	10	n/a	n/a	8.1	81 Significant	Pathogen hazard with aging lagoon and collection system infrastructure within IPZ.
Waste Disposal Sites	7	n/a	n/a	8.1	56.7 Low	Potential leachate from previous landfill.
Agricultural Source Material	6	n/a	n/a	8.1	48.6 Low	Risk varies with material type.
Fertilizer Application	6	9	54 Low	8.1	48.6 Low	Nitrogen and phosphorus can contribute to eutrophication.
Pesticide Application	7	9	63 Moderate	8.1	56.7 Low	High toxicity potential.
Industrial Activities	7	9	63 Moderate	8.1	56.7 Low	Chemical and pathogen hazards from industries within IPZ-2.
Fuel Handling and Storage	8	9	72 Moderate	8.1	64.8 Moderate	Includes municipal and private fueling stations. Fuels from watercraft in IPZ-1.
Road Salt Application	6	9	54 Low	8.1	48.6 Low	Winter maintenance on roads. Salt can impact aquatic ecosystems; risk increases near water bodies.
Snow Storage	4	9	36 Low	8.1	32.4 Low	Contaminants from urban surfaces; risk depends on storage location and runoff management.
Stormwater Runoff	5	9	45 Low	8.1	40.5 Low	Untreated stormwater can contain various contaminants.
Chemical Storage with Hazard Rating >4	8	9	72 Moderate	8.1	64.8 Moderate	Risk depends on substance and management practices.



Quarterly Reports

Wastewater

2026

2nd Quarter

A handwritten signature in black ink, appearing to read "D. Armstrong", is positioned above a horizontal line.

David Armstrong
Manager of Public Works



Gananoque Sewage Lagoon ECA – 0999-7X8QL3

This report covers the second (2nd) quarter of 2026 (April, May and June). The intent of the report is to keep the Committee, Council, and the public current with the performance and major operational aspects of the Gananoque Sewage Lagoon and the Wastewater Collection System, including any notable highlights, MECP inspections, bypasses and overflow events.

1.0 Lagoon

1.1 Regulatory Sampling

Regulatory sampling is conducted to ensure that effluent discharged from the Lagoon complies with the environmental and regulatory requirements. Sampling is completed on a weekly basis to monitor the parameters such as carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), total phosphorus, E. coli and pH levels.

These parameters are subject to annual and monthly average concentration limits, with pH levels required to remain between 6.0 and 9.0 (objectives) and within 5.5 to 9.5 (limits) at all times. The results are used to assess the performance of the Lagoon and are reported in accordance with regulatory conditions.

Table 1: Treated Sewage Effluent Results

Month	Parameter	Minimum	Maximum	Average
April	E. Coli (cfu/100ml)	140	1240	690
	CBOD ₅ (mg/L)	4	18	9
	Total Suspended Solids (mg/L)	12	21	16.75
	Total Phosphorus (mg/L)	0.21	0.41	0.27
	pH	7.7	8.2	7.9
May	E. Coli (cfu/100ml)	5	30	13.5
	CBOD ₅ (mg/L)	4	7	6
	Total Suspended Solids (mg/L)	7	11	9
	Total Phosphorus (mg/L)	0.16	0.38	0.26
	pH	7.6	8.2	8.0
June	E. Coli (cfu/100ml)	0	3	1
	CBOD ₅ (mg/L)	3	16	7.8
	Total Suspended Solids (mg/L)	3	8	5.8
	Total Phosphorus (mg/L)	0.13	0.42	0.25
	pH	7.0	7.8	7.4

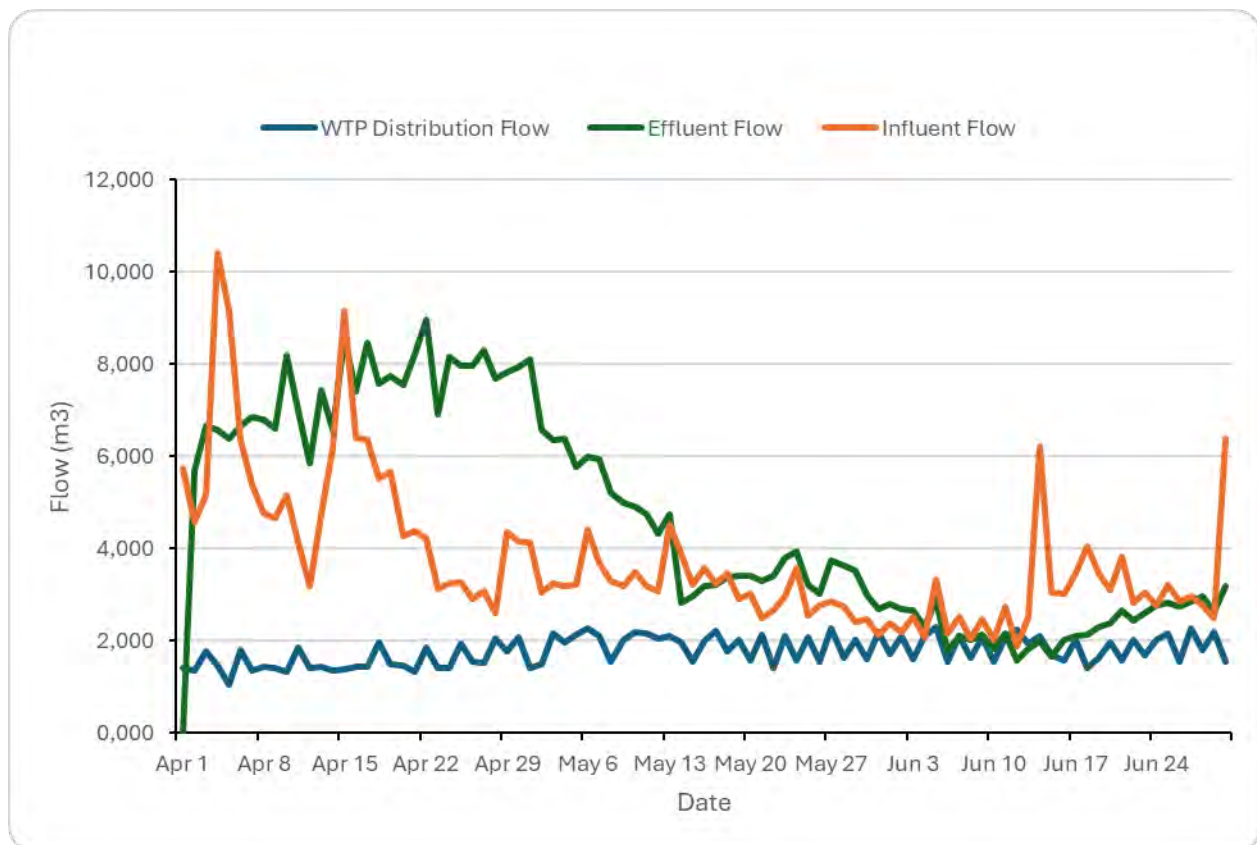
1.2 Wastewater Treatment Flows

Flow monitoring is performed continuously at the Lagoon to measure the volume of wastewater entering and leaving the treatment system. Daily flow readings are recorded and used to calculate average daily, monthly, and peak flows. These values help identify trends, assess inflow and infiltration impacts and information on maintenance or capital planning decisions.

Table 2: Lagoon Incoming and Effluent Flows

Month	Max Daily Incoming Flow	Average Daily Incoming Flow	Max Daily Effluent Flow	Average Daily Effluent Flow
April	10,409 m ³ /day	5,084 m ³ /day	8,981 m ³ /day	7,154 m ³ /day
May	4,513 m ³ /day	3,185 m ³ /day	8,118 m ³ /day	4,315 m ³ /day
June	6,383 m ³ /day	3,016 m ³ /day	3,185 m ³ /day	2,370 m ³ /day

Figure 1: Treated Effluent Flow and Raw Incoming Flow Compared to the Water Treatment Plant Distribution Flow (m³):



* Spikes on the Raw Influent Flow line on the graph above were due to heavy precipitation.

1.3 Progress at East End Pumping Station

Work at the East End Pumping Station progressed during Q2. A significant milestone was reached on June 12th, when the newly installed Alum tanks were filled for the first time. The new indoor Alum tanks and pump system (Figure 2) replaced the existing outdoor Alum tank (Figure 3) which was emptied and removed from the site. Training on operation and maintenance of the new alum pump system was provided for our Operators by Andrew Zuliani of SCG Process.

Figure 2: New Alum Tanks and pump skid



Figure 3: Old Alum Tank



1.4 Sewage Lagoon Remediation project commenced

We continue to bypass Cell 1 of the sewage lagoons due to leaks in the berm. Cells 2 and 3 are treating the wastewater as designed in the event that Cell 1 is not available. The Town issued a request for proposal for professional services for lagoon remediation project in Q1. The Contract – UTL-2026-03 Professional Services for Lagoon Remediation Project was awarded to J.L. Richards & Associates Limited (JLR) on May 19th.

A Project Start-up Meeting was held on June 16th with Public Works staff members and representatives from JLR. Monthly update meetings will be scheduled for the duration of the project.

Public Works staff members attended a Project Team Site Visit at the lagoons on June 26th with representatives from JLR, and subconsultants.

1.5 Wastewater sample results.

Figure 4: Total Suspended Solids

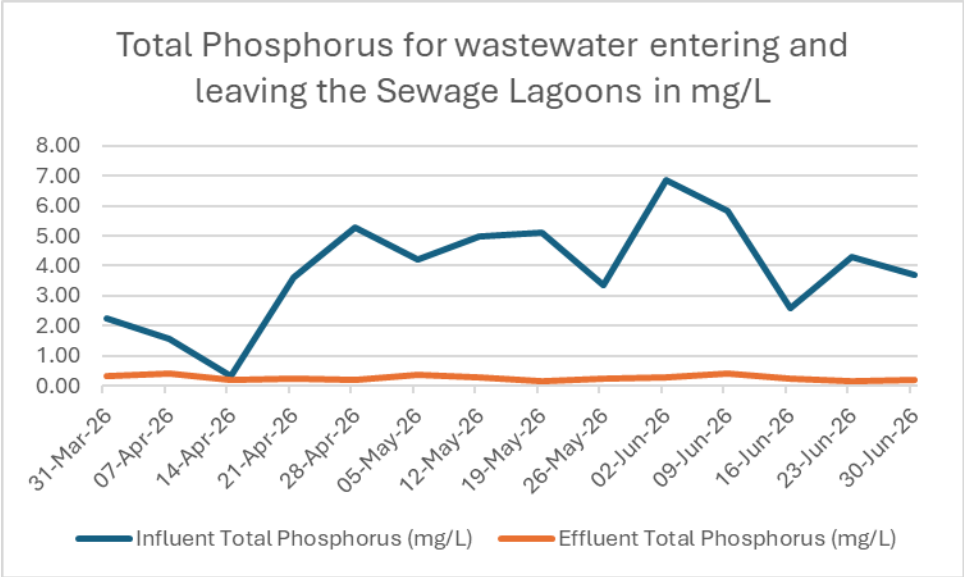
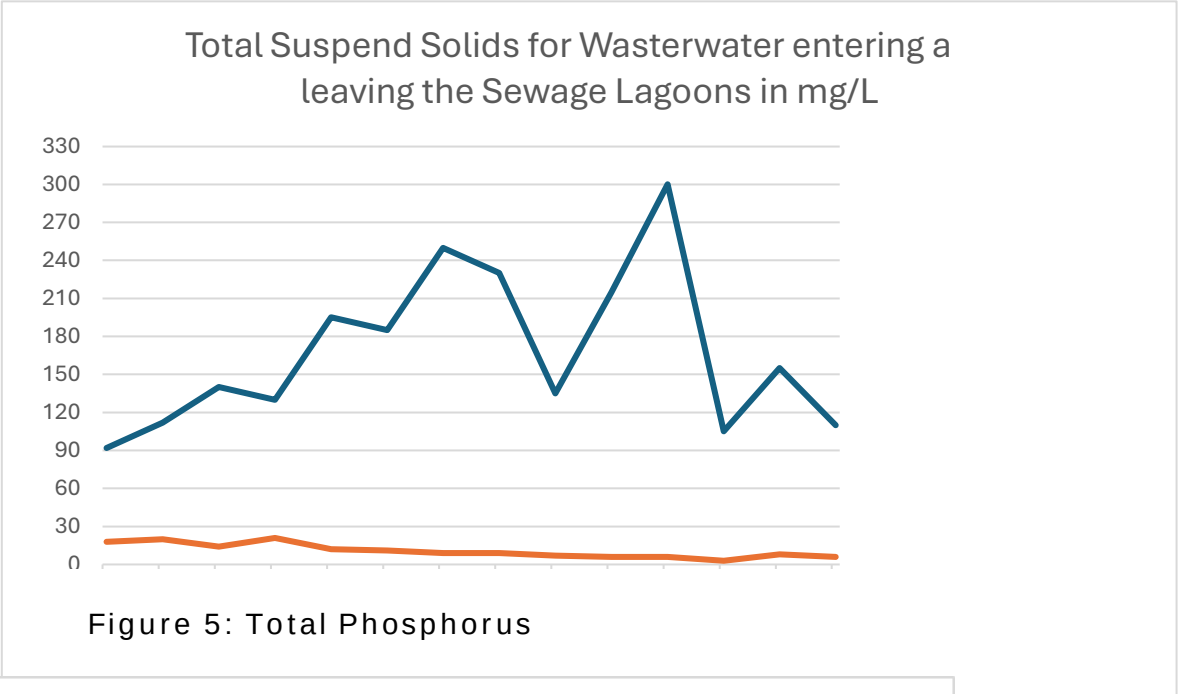
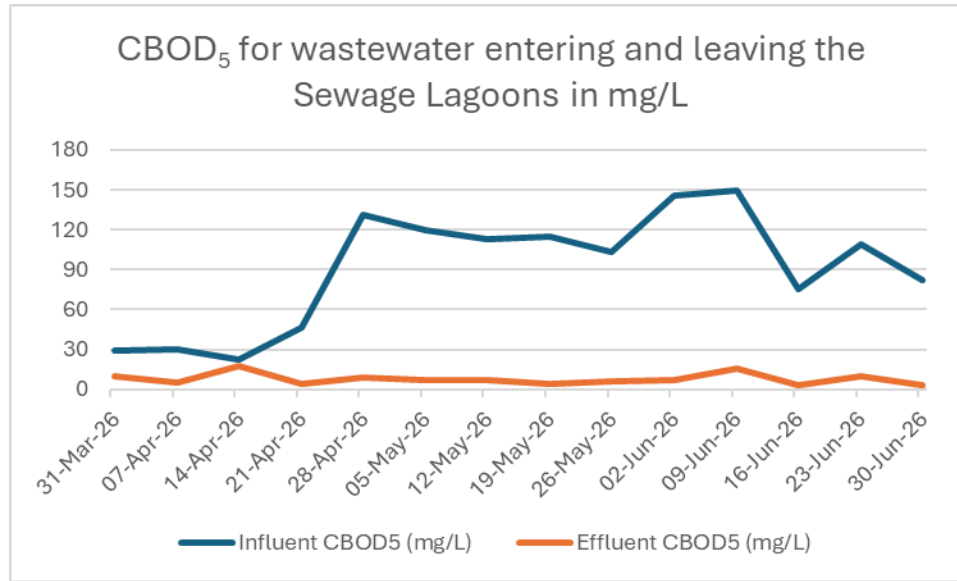


Figure 7: CBOD₅

2.0 Operational Collection Highlights

2.1 General Services

- Various sewer camera inspections completed.
- There were 5 sewer backups assessed by Operators within the second quarter.
- Quinte Sewer onsite to complete sewer jetting at several locations to improve performance of sanitary sewers.

2.2 Sewer Commissioning

- April 28, 2026 – Hydrostatic pressure testing was performed on sewer force main at East End Pumping Station.

3.0 Regulatory Compliance

- Monthly MUMPS S1 and S2 reports, and quarterly ERRIS reports submitted to the Ministry of the Environment, Conservation and Parks (MECP).
- Transitional Authorization Progress Report regarding wastewater systems effluent regulations submitted to Environment and Climate Change Canada.
- April 4, 2026 – An overflow event occurred at Manhole 18 due to heavy rainfall. The event was documented and reported as per regulatory requirements.

Prepared By:

Ben Mac Neil

Ben Mac Neil
Public Works Compliance Coordinator

Council Report – FIRE-2026-06

Date: September 2, 2026

☐ **IN CAMERA**

Subject: Outfitting of New Fire Aerial Truck – Tower 2

Author: Andrew Dickson, Fire Chief

☒ **OPEN SESSION**

RECOMMENDATION:

BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE APPROVES A DRAW OF \$19,412.80 (PLUS THE TOWNS SHARE OF HST), FROM THE FIRE RESERVES TOWARDS THE COST OF 1,000 FEET OF SUPPLY HOSE AND 500 FEET OF ATTACK HOSE FOR THE NEW FIRE AERIAL TRUCK, AS PRESENTED IN COUNCIL REPORT FIRE-2026-06.

STRATEGIC PLAN COMMENTS:

Sector 5 – Community Protection – Strategic Initiative #3 – Make the Health and Safety of all staff and citizens a key priority.

BACKGROUND:

The Gananoque Fire Department's new aerial apparatus is currently in the manufacturing stage and is scheduled for final review in mid-November. The apparatus will be delivered with new ground ladders and pike poles; however, the majority of the Department's existing firefighting equipment will be transferred from the current aerial truck to the new apparatus. No additional specialized tools or equipment are anticipated to be required as part of the transition.

One area requiring additional consideration is the outfitting of the new aerial apparatus with fire hose. Fire Department large apparatus generally carries two primary types of hose: supply hose and attack hose.

Supply hose, commonly referred to as Hi-Vol, is larger-diameter, lower-pressure hose used primarily to establish a water supply between a hydrant and the fire apparatus. Attack hose is smaller-diameter, higher-pressure hose used to convey water from the apparatus to firefighters operating at the fire. The Department normally carries approximately 1,000 feet of Hi-Vol supply hose on each large apparatus, with the most recent significant purchase of supply hose was in 2012, while some of the hose currently in service dates back to 2007.

The Department follows NFPA guidance for the inspection, testing, maintenance and replacement of fire hose. NFPA 1962, Standard for the Care, Use, Inspection, Service Testing, and Replacement of Fire Hose, Couplings, Nozzles, and Fire Hose Appliances, recognizes that the service life of fire hose is dependent on factors including use, storage, maintenance and condition. NFPA guidance also notes an increased risk of hose failure after approximately 10 years of service and recommends that fire departments establish appropriate replacement schedules based on inspection, testing and operational experience.

The Department's approach is therefore based on both the age and condition of the hose. During the most recent testing cycle, a number of the Department's oldest hose lengths, including hose dating from 2007, failed testing and were removed from service. This has resulted in a reduction in the Department's available supply hose inventory and created the need to purchase additional hose to properly equip the new aerial apparatus.

Additionally, the new aerial truck is equipped with a 2.5-inch crosslay attack line bed, which is not currently available on the Department's existing aerial apparatus. To properly outfit this crosslay and ensure it can be utilized as intended, 500 feet of 2.5-inch attack hose is required.

INFORMATION/DISCUSSION:

The Department had anticipated that the replacement of aging hose would be managed incrementally through the annual operating budget, as hose reaches the end of its service life or fails required testing. However, the amount of older hose that failed testing during the current year has significantly reduced the Department's available supply hose inventory.

A portion of the 2007 hose was removed from service following this year's testing. As a result, the Department no longer has sufficient serviceable hose to fully outfit the new aerial apparatus while maintaining appropriate hose inventories on the remainder of the fleet.

The Department has identified an opportunity to manage this requirement in a cost-effective manner. The serviceable 2012 Hi-Vol hose (1400 feet) can be reassigned to the Department's pumper, where it can continue to be used provided it continues to meet annual testing and inspection requirements, and provide reserve inventory. This will allow the new aerial apparatus to be outfitted with new Hi-Vol hose while allowing the Department to use its annual operating budget to progressively replace the older hose on the pumper over the next several years.

Replacing enough hose immediately to fully outfit the new aerial apparatus and maintain the required inventory would represent a significant unplanned expenditure. The cost would exceed 35% of the Department's annual equipment operating budget. Accommodating this expenditure entirely within the existing operating budget would therefore have a substantial impact on the Department's ability to address other equipment maintenance, replacement and operational requirements during the year.

The proposed approach provides a balance between operational readiness, fiscal responsibility and the effective use of existing resources. It allows the new aerial apparatus to enter service properly equipped, while continuing to make use of existing hose that remains serviceable and compliant with testing requirements. The Department can then use future operating budgets to gradually replace the remaining aging hose rather than undertaking a large-scale replacement in a single year.

This approach also allows the Department to align future hose replacement with the normal lifecycle of the equipment. The requested outfitting of the new aerial truck should therefore be viewed as a one-time requirement associated with commissioning the new apparatus and addressing the unexpected reduction in the Department's available hose inventory, rather than as a wholesale replacement of the Department's existing hose inventory.

For the 2.5-inch crosslay, adding this hose will provide the crew with an additional pre-connected attack line that can be quickly deployed during fire suppression operations. This configuration will improve the versatility and operational capability of the new aerial apparatus and provide firefighters with an additional option for advancing an attack line from the apparatus.

APPLICABLE POLICY/LEGISLATION:

NFPA 1962

The primary standard is NFPA 1962 – Standard for the Care, Use, Inspection, Service Testing, and Replacement of Fire Hose, Couplings, Nozzles, and Fire Hose Appliances. Its purpose is to establish requirements for inspection, testing, maintenance and replacement so that hose remains reliable and safe for use at an incident.

The particularly relevant point for your report is that NFPA 1962 does not establish a blanket mandatory retirement age for all fire hose. Instead, service life depends on factors such as:

- Quality and construction of the hose
- Type and frequency of use
- Storage conditions
- Maintenance and care
- Physical condition
- Results of service testing

NFPA materials specifically recognize that departments should have a hose inspection, care and replacement program and maintain records to evaluate how their hose performs over time.

FINANCIAL CONSIDERATIONS:

During the final design approval stage of the new aerial apparatus at Pierce Manufacturing, the Fire Department was able to identify several final design changes that resulted in a \$5,037.20 reduction in the overall contract cost. This amount will be returned to the Town as a credit at the conclusion of the apparatus contract.

The proposed expenditure will allow the new aerial apparatus to be fully outfitted with the required supply and attack hose while making use of the existing serviceable hose on the Department's pumper. This approach reduces the immediate financial impact and allows the remaining hose replacement requirements to be addressed incrementally through future operating budgets.

The cost to purchase the required supply hose to properly outfit the new aerial apparatus is \$21,500. The cost to supply the required 500 feet of 2.5-inch attack hose is \$2,950.00.

Applying the \$5,037.20 credit generated through the final design changes results in a net additional cost of \$19,412.80, plus the Town's non-refundable portion of HST.

CONSULTATIONS:

Melanie Kirkby, CAO

ATTACHMENTS:

M&L Supply Fire & Safety Quote

APPROVAL	Andrew Dickson, Fire Chief Melanie Kirkby, CAO Certifies that unless otherwise provided for in this report the funds are contained within the approved Budgets and that the financial transactions are in compliance with Council's own policies and guidelines and the <i>Municipal Act</i> and regulations.
-----------------	--



3635112 Canada Inc.
o/a M&L Supply, Fire & Safety
14935 Cty Rd 2, PO Box 269
Ingleside, ON K0C 1M0
Tel: (613) 537-9559
Fax: (613) 537-9449

QUOTATION

DATE	QUOTE NO.
Aug 17 26	027418-0
GAN	

Sold To
Gananoque Fire Department 340 Herbert Street PO Box 100 Station Main Gananoque, ON K7G 1R1

Ship To
Gananoque Fire Department 340 Herbert Street PO Box 100 Station Main Gananoque, ON K7G 1R1

Contact	SHIP VIA	YOUR P/O NO.	TERMS	SALESPERSON
FC Andrew Dickson	BEST WAY	FC DICKSON	Net 30 Days	Aitken, David

ITEM/PART NO.	DESCRIPTION	ORDERED	UNIT	PST	HST	RATE	AMOUNT
SNUTX40X50Y40S	UTX 4" x 50' YELLOW Polyurethane Hose w/Storz Couplings	20	EA	E	O	1,075.000	21,500.00
SNDJ25X50Y25-37	DJ800 2.5" x 50' YELLOW Hose with Aluminum CSA coupling	10	EA	E	O	295.000	2,950.00

Prices do not include freight.

Prices in effect for Fifteen (15) days from date of quote and are sensitive to fluctuating Bank of Canada exchange rates. Large fluctuations in the posted rate may render this quote inaccurate.

Quote Comments

Sub Total	24,450.00
Prov Tax	.00
GST/HST	3,178.50
Total	27,628.50



MOTION / RESOLUTION OF COUNCIL

Date: September 2 nd , 2026		Motion No. 2026 –
Subject: RATIFICATION OF COUNCIL DECISIONS ON MOTIONS 26-99 and 26-100 AT THE MEETING OF 20 MAY, 2026		
Moved by:	Mayor Beddows	
Seconded by:		
IN ORDER TO ADDRESS ISSUES WITH PROCEDURAL IRREGULARITY RELATED TO DECISIONS TAKEN BY COUNCIL AFTER THE END OF THE MEETING EXTENSION TO 9:10PM ON MAY 20, 2026, BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE HEREBY RATIFIES THE DECISIONS TAKEN ON MOTIONS 26-99 AND 26-100 AT ITS MEETING OF MAY 20TH, 2026.		

Ayes _____ Nays _____

Carried: _____

Defeated: _____

Tabled/Postponed: _____

John Beddows, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Brown, Colin		
Harper, Matt		
Kirkby, Patrick		
Koiner, Anne-Marie		
Leakey, Vicki		
Osmond, David		
Beddows, John		
TOTALS		

MOTION / RESOLUTION OF COUNCIL

Date: September 2 nd , 2026	Motion No. 2026 –
Subject: GARBAGE RECEPTACLES AT VEHICLE CHARGING STATIONS	
Moved by:	Mayor Beddows
Seconded by:	
GIVEN THAT MANY VEHICLE CHARGING STATIONS INSTALLATIONS HAVE AS THEIR PRIMARY PURPOSE REVENUE GENERATION THROUGH THE OFFER OF A RECHARGING SERVICE, AND THAT MANY OF THEM ARE PLACED TO ALSO GENERATE REVENUE FOR THE BUSINESSES WHICH LEASE LAND FOR VEHICLE CHARGING INSTALLATIONS, AND THAT USE OF THE STATIONS OFTEN REQUIRES DRIVERS TO REMAIN IN PLACE FOR A HALF-HOUR OR MORE, AND GIVEN THAT MANY OF THOSE DRIVERS TIDY THEIR CARS AND LOOK TO DISPOSE OF WASTE DURING THE STOP, AND GIVEN THAT IN MANY CASES THE ONLY GARBAGE RECEPTACLES CLOSE TO RECHARGING STATIONS BELONG TO OTHER BUSINESSES OR TO THE MUNICIPALITY, AND GIVEN THAT DISPOSAL OF GARBAGE COMES AT A COST, THEREFORE BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE DIRECTS STAFF TO DEVELOP AND RECOMMEND TO COUNCIL CHANGES TO APPLICABLE BYLAWS NECESSARY TO CREATE A REQUIREMENT FOR OPERATORS OF VEHICLE CHARGING STATIONS TO PROVIDE GARBAGE RECEPTACLES FOR THE USE OF THEIR CUSTOMERS AT THE VEHICLE CHARGING STATION OPERATOR'S COST.	

Ayes _____ **Nays** _____

Carried: _____

Defeated: _____

Tabled/Postponed: _____

John Beddows, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Brown, Colin		
Harper, Matt		
Kirkby, Patrick		
Koiner, Anne-Marie		
Leakey, Vicki		

Osmond, David		
Beddows, John		
TOTALS		

MOTION / RESOLUTION OF COUNCIL

Date: September 2 nd , 2026		Motion No. 2026 –
Subject: ONE-TIME RENEWAL – FALL 2026 CURBSIDE PICKUP OF LEAVES AND BRUSH AT TOWN EXPENSE		
Moved by:	Mayor Beddows	
Seconded by:		
DURING DELIBERATIONS ON THE 2025 BUDGET, I PROPOSED A SERVICE LEVEL REDUCTION VIA THE ELIMINATION OF SEASONAL CURB-SIDE PICKUP OF LEAVES AND BRUSH. COUNCIL SUPPORTED THIS MOTION WHICH DELIVERED A REDUCTION IN MUNICIPAL OPERATING COSTS OF MORE THAN \$30 000 PER YEAR. AT THAT TIME, THE OPTION OF FREE DROP OFF OF LEAVES, YARD WASTE, BRUSH, TREE CUTTINGS AND NON-PRESSURE TREATED USED LUMBER AT THE TOWN YARD ON JAMES BRENNAN ROAD WAS CONTINUED TO PROVIDE A NO-COST OPTION FOR RESIDENTS. THE CORPORATION WAS RECENTLY DIRECTED TO STOP ACCEPTING THIS MATERIAL BY THE MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS (MECP), WHICH LEFT THE USE OF GARBAGE TAGS OR PAYING A PRIVATE SERVICE PROVIDER AS THE ONLY OPTIONS AVAILABLE FOR DISPOSAL OF LEAVES AND YARD WASTE BY RESIDENTS OF GANANOQUE. AS SUCH, AND REFLECTING CHANGED CIRCUMSTANCES, BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE DIRECTS STAFF TO PROVIDE CURB-SIDE PICKUP OF LEAVES, BRUSH AND YARD WASTE IN FALL OF 2026 AT MUNICIPAL EXPENSE, AS WAS THE PRACTICE AND AT THE SERVICE LEVEL OF PAST YEARS AT A COST NOT TO EXCEED \$20 000. COUNCIL ALSO DIRECTS THE MANAGER OF PUBLIC WORKS TO PROVIDE REGULAR UPDATES ON THE PROGRESS OF THE MECP ENVIRONMENTAL COMPLIANCE APPROVAL (ECA) PROCESS.		

Ayes _____ **Nays** _____

Carried: _____

Defeated: _____

Tabled/Postponed: _____

John Beddows, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Brown, Colin		
Harper, Matt		
Kirkby, Patrick		
Koiner, Anne-Marie		
Leakey, Vicki		
Osmond, David		
Beddows, John		
TOTALS		



MOTION / RESOLUTION OF COUNCIL

Date: September 2, 2026		Motion No. 2026 –
Subject: RECORDING AND MAKING PUBLIC FULL AUDIO/VIDEO RECORDINGS OF COUNCIL MEETINGS		
Moved by:	Mayor Beddows	
Seconded by:		
THE COUNCIL OF THE TOWN OF GANANOQUE DIRECTS THE CLERK TO MAKE PUBLICLY AVAILABLE VIDEO (WITH AUDIO) RECORDINGS OF OPEN SESSION COUNCIL MEETINGS, AND DIRECTS THE CLERK TO RECORD IN-CAMERA MEETINGS AND RETAIN THE RECORDINGS OF IN-CAMERA MEETINGS. COUCIL DIRECTS THE CAO TO OBTAIN A LEGAL OPINION FROM THE MUNICIPAL COUNSEL ON HOW LONG RECORDINGS OF IN-CAMERA MEETINGS SHOULD BE RETAINED.		

Ayes _____ **Nays** _____

Carried: _____

Defeated: _____

Tabled/Postponed: _____

John Beddows, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Brown, Colin		
Harper, Matt		
Kirkby, Patrick		
Koiner, Anne-Marie		
Leakey, Vicki		
Osmond, David		
Beddows, John		
TOTALS		

MOTION / RESOLUTION OF COUNCIL

Date: September 2, 2026	Motion No. 2026 –
Subject: RE-OPEN QUESTION OF RECORDING AND MAKING PUBLIC FULL AUDIO/VIDEO RECORDINGS OF COUNCIL MEETINGS	
Moved by:	Mayor Beddows
Seconded by:	
AT THE MEETING OF MAY 20, 2026, COUNCIL VOTED TO DEFER THE DECISION ON COUNCIL-CSC-2026-02.1 – RECORDING AND MAKING AVAILABLE COUNCIL MEETINGS BY A VOTE OF 4-2. ON JULY 31ST, 2026 THE SUPREME COURT ISSUED A UNANIMOUS RULING ON JULY 31, 2026 IN THE CASE OF “SS&C Technologies Canada Corp. v. Bank of New York Mellon Corp.” IN WHICH IT DETERMINED THAT: “When a party destroys or hides relevant evidence, courts must presume that it was unfavourable to that party. Writing for a unanimous Court, Justices Côté and Moreau agreed with the Court of Appeal that the Bank committed spoliation. Spoliation occurs when a party intentionally destroys, changes, hides or fails to keep relevant evidence to influence the outcome of a lawsuit.” (https://www.scc-csc.ca/judgments-jugements/cb/2026/41543/) COUNCIL DECISIONS ARE DECISIONS OF GOVERNMENT AND OFTEN HAVE REAL, DIRECT AND IMMEDIATE IMPACT ON PERSONS AND CORPORATIONS. DECISIONS ON PLANNING APPLICATIONS ARE A VERY GOOD EXAMPLE OF A CLASS OF MUNICIPAL DECISION THAT MIGHT REASONABLY BE APPEALED BY A DIS-SATISFIED APPLICANT. AS SUCH, AND IN ORDER TO FULFILL DUE DILIGENCE REQUIREMENTS AND MITIGATE ANY FUTURE RISK OF ALLEGATION OF SPOILIATION BY THE CORPORATION OF THE TOWN OF GANANOQUE, BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE RE-OPENS THE QUESTION OF RECORDING AND MAKING PUBLIC FULL AUDIO/VIDEL RECORDINGS OF COUNCIL MEETINGS.	

Ayes _____ Nays _____

Carried: _____

Defeated: _____

Tabled/Postponed: _____

John Beddows, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Brown, Colin		
Harper, Matt		
Kirkby, Patrick		
Koiner, Anne-Marie		
Leakey, Vicki		
Osmond, David		
Beddows, John		
TOTALS		

From: WARBURTON

Sent: August 18, 2026 2:55 PM

To: Penny Kelly <clerk@gananoque.ca>

Cc: Kevin John Saylor; Frayne; Lynn Pretsell Anita Given; ann beer

Subject: Permit request for Little Shoes Memorial - 30th September to 4th October 2026

Hi Penny,

I am involved with the First People's Performing Arts Festival of the 1000 Islands this year. As in the past, are hoping to have the Little Shoes Memorial displayed on the Town Hall steps starting on Wednesday, September 30th, 2026 on the National Day for Truth and Reconciliation. Please accept this email as a request for a permit to place the shoes on the front steps of Town Hall during a small ceremony on September 30th. We will hold another ceremony on Sunday, October 4th, 2026 to remove the shoes as this is the last day of the First People's Performing Arts Festival.

We are hoping this request will be placed on the agenda for the next Council meeting on September 2nd, 2026.

Thank you for your assistance with this matter.

Kathleen Warburton

From: David Osmond <dosmond@gananoque.ca>

Sent: August 24, 2026 12:44 PM

To: Penny Kelly <clerk@gananoque.ca>

Subject: Re: Mayoral Directive - 2026-007 - 2027 Operating and Capital Budgets

Please add the mayor's latest directive and any staff or police responses to the next agenda.

Thanks

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**Mayoral Directive
Decision Number: 2026-007**

Under Bill 3, the *Strong Mayors, Building Homes Act*, 2022, which amended the *Municipal Act*, 2001, I, John Beddows, Mayor of the Corporation of the Town of Gananoque, have decided as follows:

Planning guidance and supplemental directive to the Treasurer and the CAO on the preparation of the 2027 Operating and Capital Budgets, reflective of the Corporation of the Town of Gananoque's current levels of service and the Asset Management Plan.

Given that budgetary pressures for the 2027 budget will be acute, and will have to factor the tripling of the Corporation's debt via the recently approved \$12.9 million debenture that will add \$11.4 million in interest costs to the projects it will support, and that the \$864 000 per year debt servicing cost for this debenture will require roughly the equivalent of a 7.5% property tax increase to service. This is before any increase in service costs are factored, or the impact of inflation on the cost of municipal service delivery.

As briefed by our Treasurer to Council during discussion on the \$12.9 million debenture, we have also approved \$4.1 million of in-year budget deviations for capital projects which are in addition to the debenture. Our Treasurer was very clear in his assessment that the 2027 budget will present significant capital budget challenges.

The importance of the positive impact of the Province of Ontario's support to Gananoque with two infrastructure grants totalling more than \$12 million over the last three years cannot be overstated. This Provincial support has bought us much needed budget flexibility, and created options which otherwise simply would not exist for the residents of Gananoque.

When I presented the 2026 budget, it included all funding necessary for operations at current service levels, supporting capital infrastructure and equipment to delivery those services, and transfers to capital reserves which Council unanimously approved when it approved the Asset Management Plan. I then briefed that we, Council, had the opportunity to reduce service levels of non-core services and reduce budget pressures. There was no appetite at the Council table to do so.

While the Corporation's reserves might appear to represent a significant number, there is more than \$70 000 000 of spending built into the 10-year capital plan. All of our reserves are dedicated to existing, known and planned future spending requirements. Even with this, and after the tax property tax increases of the last 4 years, we still had to borrow \$12.9 million this year. In other words, while it might look like the Corporation has a healthy reserve, money on hand is not adequate to our known, future capital requirements.

In the face of the pressures resulting from the recent debenture and the in-year deviations and the requirement to fund the Asset Management Plan, we must take all reasonable steps to ensure that tax increases are kept as low as possible. I am therefore issuing the following budget drafting guidance as a Mayoral Directive:

1. The Treasurer will examine methods and options to maximise returns from fiscal reserves, including GIC's and access to the One Plan, and provide best options going forward, including noting any amendments required to enable management of reserves for best outcomes.
2. The CAO will initiate and lead staff level discussions with neighbouring municipalities and explore and conduct a comparative analysis of options to reduce the impact of cost of policing in Gananoque on taxpayers. The choice of method of delivery of police services is a Council question, and completely under the authority of municipal councils. With the permission of the Police Service Board, the Chief of the Gananoque Police Service is to be leveraged as an expert advisor by staff and Council. Options to explore include:
 - entering into an agreement to create a regional police force to create scale and economy in the administration of delivery of police services,
 - OPP contract services – Understanding that there is a significant up-front cost to converting to OPP services, the full cost of conversion is to be provided, including a best estimate of all labour and contract costs and the increased cost of operating the Emergency Services Building without full occupancy. To be factored is a realistic appreciation of the actual cost of OPP services
 - Retain status quo.
 - Concluding report to enable an objective cost-benefit analysis that informs a value proposition to taxpayers by Council.
3. The CAO and Fire Chief, supported by managers, will initiate and lead staff level discussions with neighbouring municipalities to explore economies and savings available at scale through the creation of a regional fire service and reduction of taxpayer costs achievable through economies of scale in the administration and enabling of delivery of fire services.

Note: For background and reference for 2 and 3 above, see:

Found, Adam. *Economies of Scale In Fire and Police Services in Ontario*. IMFG Papers on Municipal Finance and Governance, No. 12, 2012. Monck School of Global Affairs.

https://imfg.org/uploads/215/imfg_no_12_adamfoundonline_jan3.pdf

4. Municipal Property Tax (MAT) is intended to support and enable our vibrant tourism economy. There are significant elements of municipal infrastructure which enable tourism but which are paid for through the property tax levy. Key parts of that infrastructure include our Visitor's Centre, the performance space at Joel Stone Park, the public washrooms at Joel Stone Park and the Customs Dock at Water Street. These capital assets are included in the Asset Management Plan, which is funded from the property tax levy. In order to appropriately fund maintenance, upkeep and eventual replacement of these assets, in the 2027 draft budget 45% of the MAT receipts controlled by the Town will be dedicated to fund the capital requirements of the Visitor's Centre and the Customs Dock at Water Street.

An estimate of the property tax funded labour costs directly related to tourism is to be provided for Council to consider MAT allocations to fund those labour costs to ease pressures on the property tax levy.

5. Replacement of the Lou Jeffries Arena. Having an arena in Gananoque adds to quality of life and provides recreational opportunities that otherwise would not exist locally. It is important to put forward that operation of the Arena requires a significant operating subsidy. After all revenues, in 2026 over \$350 000 just over 3% of the property tax levy, will be used to subsidize the municipal Arena. An additional complication is that there are currently no reserve funds set aside to fund arena replacement.

The Town of Prescott recently replaced their arena at a cost of roughly \$20 million 2025 dollars. The Lou Jeffries Arena is projected to reach end of life by 2046 and \$20 million, compounding at 3% annually, becomes \$36 million over 20 years. While repair and maintenance may extend that timeline, time is money and discussions need to start now, 20 years out, on whether or not to plan to replace the arena at end of life, exploration of alternate methods of delivering the services and recreation currently provided by the Lou Jeffries Arena, and potential for partnerships.

To inform those discussions, the tax levy implications of building reserves to fund 25% of likely replacement cost from reserves will be briefed at budget deliberations.

6. Reduce Parks and Rec Operating Costs. Include cost of planting of trees by top-seeding native species (placing seeds on top, cover with soil without disturbing brown fields) in brown-field locations which are currently grassed and cut but which are not generally in use for recreation. Examples include but are not limited to: most of Steeler's Park between River Street and the Gananoque River (not including the off leash dog park) and the brownfields site at Third and Oak Streets. Reducing lawn maintenance reduces labour costs and wear on equipment. Enhancing municipal tree canopy enables climate resiliency and enhances local ecology.

7. **Municipal Marina.** The municipal marina is an asset owned by all of the taxpayers of Gananoque, and is a “for profit” business. As such, charging slip rental rates below market negatively impacts the capacity of the facility to fund its own capital and operating costs, and has go-forward implications for taxpayers because of undercharging by “leaving money on the table”. Our municipal marina’s location at the gateway to the 1000 Islands provides an enormous location based commercial advantage and creates demand for our slips. In order to deliver best outcomes for all taxpayers, municipal marina slip rental fees that reflect market rates will be built into the 2027 budget. These rates will apply to all slip rentals, regardless of place of residence of the client.

8. **Sale of Municipally Owned Properties.** The sale of properties which don’t provide enough income to amortize operations and capital needs would increase the tax base while at the same time removing them from the Asset Management Plan. Budget and capital reserve and Asset Management Plan implications of sale by public tender of public property are to be provided in the draft budget. Properties for initial consideration in 2027 budget include: Williams Street parking lot, Pine Street Parking lot and water access. Council to be advised on any existing restrictions on disposal of municipal properties, including parklands, due to existing easements, conditions or agreements to inform an understanding of monetization opportunities.

9. **Amend Physician Attraction Program** to create a bursary in exchange for service. The Town’s approach to physician attraction and retention has, to date, been reactive. The City of Cornwall has had great success with anchoring primary care service providers via a bursary program which funds medical students and residents in exchange for a defined period of service in the community. It is time to anticipate requirements and pre-empt short falls in primary care capacity with the predictable arrival of practitioners. Cost of creation of a bursary stream for one physician to be built into the draft budget at \$25 000 per year. Link to City of Cornwall program here: <https://www.cornwall.ca/en/build-invest/business-supports/medical-recruitment-and-scholarships/>

10. **Draft Budget Structure – Core and Discretionary Services.** Core services are the ones the Corporation must provide, and core services along with mandated service levels are specified in Provincial Acts, Statutes, Ontario Regulations such as the Municipal Act and the Community Safety and Policing Act (CSPA). All other services are discretionary, and while many inform and enhance the experience of living in our Town, in the current fiscal situation property tax levy dollars that fund discretionary services are not available to fund core services or service repayment of municipal debentures.

CAO and managers are to identify in the draft budget which services, and which service levels provided by the Town of Gananoque are core & discretionary. The cost implications to the property tax levy of discretionary services and service levels is to be identified in dollar amounts (operations and capital budgets) to inform

deliberate decisions about retaining services and service levels and the impact of reductions to reduce pressure on the property tax levy.

11. Community Grant budget is to reflect 5% of anticipated OLG revenues in 2027, including funding for waterfront concerts. Any decision to increase the Community Grant budget by increasing property taxes must be initiated by Council.

12. Draft Budget Operations, Capital and Asset Management Plan Funding. The 2027 draft budget will include all operations and capital expenditures required to support current service levels and to fund the Asset Management Plan at the levels unanimously approved by Council when it adopted the Asset Management Plan in 2025.

Note: While the Asset Management Plan is a living document, this relates specifically to Council's authority to add or remove assets and thereby alter the funding requirements of the Plan. It does not imply that it is acceptable to underfund the Plan without removing assets and obligations from the Plan.

The purpose of this directive is to set conditions, to the greatest degree possible, for mitigation of general tax and levy increases in 2027. User fees may increase, but given the pressures of the \$12.9 million debenture and the \$4.1 million in in-year budget deviations for capital projects, Mayor and Council must consider any and all options with potential to relieve fiscal pressures on our residents and businesses must be on the table.

Dated this 21st day of August, 2026.



John S. Beddows, Mayor



GANANOQUE POLICE SERVICE

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August 24, 2026

RE: Mayoral Directive

Decision Number: 2026-007

I am writing in response to Mayoral Directive 2026-007, specifically item 2, which directs the CAO to initiate and lead discussions with neighbouring municipalities and the OPP regarding a comparative cost analysis of policing services.

I understand that policing costs represent a significant burden on the tax base and that, with technological advancements, collective bargaining settlements, and the numerous requirements imposed under the Community Safety and Policing Act, 2019 (CSPA), these costs are likely to continue to increase. While I support exploring opportunities to reduce policing costs, I believe the direction provided under the Mayoral Directive is problematic for several reasons.

1. Regional Police Service

The concept of a regional police service has merit and warrants consideration. However, reaching the point of meaningful discussions regarding regionalization would require significant planning, coordination, budgeting, and negotiation among the participating municipalities.

This would be an extremely labour-intensive undertaking requiring considerable staff resources, not only from the Town of Gananoque, but also from each municipality that may ultimately participate in a regional service. While it may be reasonable for the Town to direct its own staff to undertake preliminary work, it is unrealistic to expect other municipalities to commit comparable resources solely for the purpose of developing a cost-benefit analysis.

More importantly, an exercise of this nature is unlikely to produce the level of detailed and reliable information necessary for Council to make an informed decision regarding the financial implications of regionalizing policing services.



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2. OPP Costing and Policing Resource Plan

The Ontario Provincial Police (OPP) has established criteria governing when and under what circumstances it will undertake a costing for municipal policing services. The Solicitor General also has a role in this process.

An OPP policing resource plan is not simply a costing that can be requested for the purposes of a general cost-benefit analysis. The process requires a formal municipal request, supported by a Council motion, and the OPP determines whether it will proceed with the preparation of the resource plan, which requires considerable resources.

Accordingly, I have concerns that the process contemplated by the Mayoral Directive will not result in an accurate or reliable comparison between the current policing model, a potential regional police service, and policing provided by the OPP.

While I recognize that the intent of the Mayoral Directive is to provide Council with sufficient information to make an informed decision about the future delivery and cost of policing services, I believe the methodology directed to the CAO is unlikely to achieve that objective.

Consequently, any decision based on that analysis risks being short-sighted and lacking the necessary substance to support a long-term decision regarding the delivery of policing services.

Kindly submitted for your consideration.



Rich Swann

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