



Corporation of the Municipality of Calvin Council Resolution

Date: April 9, 2024

By-Law Number: 2024-021

Moved By: Councillor

Manson

Seconded By: Councillor

Now

WHEREAS

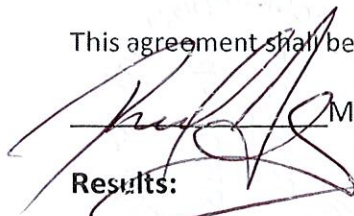
The Municipal Act S.O.2001, c 25 authorizes municipalities to enter into an agreement,

ANDWHEREAS the Council of the Corporation of the Municipality of Calvin deems it necessary to enter into an agreement for landfill, environmental monitoring and reporting,

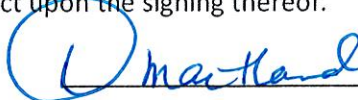
NOW THEREFORE BE IT RESOLVED THAT the Council of the Municipality ratifies the attached agreement as follows:

1. That the Mayor and CAO are designated as the Signing Officers and are authorized to execute an agreement on behalf of the Corporation of the Municipality of Calvin.
2. That the "Agreement between the Corporation of the Municipality of Calvin and the Knight Piésold Consulting" be hereto attached and form part and parcel of this by-law.

This agreement shall be enacted and if effect upon the signing thereof.



Mayor



CAO

Results:

Carry

Recorded Vote:

Member of Council
 Mayor Gould
 Councillor Moreton
 Councillor Latimer
 Councillor Grant
 Councillor Manson

In Favour

Opposed

CONTRACT FORM

Project: Municipality of Calvin Landfill Site

Assignment: Municipality of Calvin Landfill Site - 2024/2025 Landfill Environmental Monitoring and Reporting

Knight Piésold Reference Number: NB102-00192/16-A.00

The Following Items of Work:

The attached contract includes environmental monitoring and reporting for the period of 2024 and 2025 for the Calvin Landfill. A detailed description of the scope of work and estimated costs are provided in a letter (continuity number NB23-01323) sent to Donna Maitland (CAO/Clerk/Treasurer) for the Municipality of Calvin, on December 20, 2023. The following is a summary of the estimated costs:

- Total time charges are \$32,527
- Total disbursements are \$5,623
- Total budget is \$38,150.

The cost estimate provided includes KP costs and does not include lab fees or potential subcontractor fees (land survey).

Was Requested By: Donna Maitland

Of: Municipality of Calvin

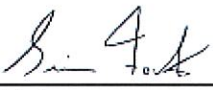
By: Email


Billing Terms: 2024 CAD Proposal Rates

Time Charges: \$32,527.00 (CAD)

Disbursements: \$ 5,623.00 (CAD)

The Estimated Cost of the Work is: \$38,150.00 (CAD)

Prepared By:  Date: Dec 20, 2023
Simon Foster

Approved by:  Date: Dec 21, 2023
Craig Hall

On behalf of Municipality of Calvin I hereby direct Knight Piésold to proceed with the work described above and agree to the Terms and Conditions contained hereunder. No other terms and conditions subsequently issued shall be valid unless agreed upon in writing by both parties.

Signed:*  Date: APRIL 9/24

Position: CAO + MAYOR

* Please sign and return this form to the originating Knight Piésold office.

APPENDIX D

KP Contract Form

(Pages D-1 to D-2)

GENERAL CONDITIONS OF CONTRACT

1. **EXTENT OF AGREEMENT** - These General Conditions of Contract set forth the terms and conditions pursuant to which Knight Piésold Ltd. ("Knight Piésold") will provide the consulting services described in the attached Contract Form (the "Services") to the identified client (the "Client") for the identified project (the "Project"). In the event that these General Conditions of Contract are included in a proposal ("Proposal"), then the Proposal shall further describe the Services, the Client and the Project to which these General Conditions of Contract shall apply. In the event of any inconsistency between the Proposal and these General Conditions of Contract, the terms of the Proposal shall govern. These General Conditions of Contract, the Contract Form and the Proposal (as applicable), constitute the entire agreement (the "Agreement") between Knight Piésold and the Client with respect to the Services, expressly superseding all prior agreements and communications (both oral and written) between Knight Piésold and the Client.
2. **STANDARD OF CARE** - Knight Piésold shall perform its Services with the level of engineering care, skill and diligence ordinarily exercised by members of the profession for services of a similar nature under similar conditions in the vicinity and at the time the Services are performed. This Agreement contains all of the express representations and warranties of Knight Piésold and the Client with respect to the performance of the Services. Except as expressly set out in this Agreement, there are no further representations, warranties or conditions of any kind, whether express or implied, statutory or otherwise, including any warranty of error-free operation.
3. **COMPENSATION** - The Client shall compensate Knight Piésold for all hours worked and other costs incurred at the rates and on the terms set out in this Agreement. Should the need for work beyond the scope of the Project or rework through no fault of Knight Piésold arise, Knight Piésold will notify the Client of the revised estimate for the Client's approval. Knight Piésold reserves the right to withhold continued performance subject to the approval of additional funding. Taxes and similar assessments, other than income taxes assessed on Knight Piésold, imposed by any federal, provincial, municipal or similar taxing authority, in connection with the Services will be charged in addition to fees and disbursements.
4. **TERMS OF PAYMENT** - Knight Piésold shall invoice the Client for Services performed under this Agreement and the Client shall pay such invoices upon receipt. Invoices not paid within 30 calendar days of the invoice date shall be subject to an interest charge of 1.5% per month from the date of billing until paid. No deduction or set-off shall be made by the Client from the fee payable to Knight Piésold.
5. **USE OF SUBCONTRACTORS AND SUBCONSULTANTS** - At any stage of the Services, Knight Piésold reserves the right to engage subcontractors and sub-consultants to perform services as Knight Piésold believes are in the best interests of the Client in performance of the Services.
6. **OWNERSHIP OF WORK PRODUCT** - All drawings, maps, plans, data, graphs, diagrams, reports, samples, specifications, manuals or other forms of materials and information required to be prepared by Knight Piésold pursuant to this Agreement (collectively, the "Work Product") shall remain the property of Knight Piésold. Knight Piésold hereby grants the Client a non-exclusive, irrevocable, perpetual and royalty-free license to use the Work Product only for the purpose of the Project. For certainty, the Client's license to use the Work Product as described in this Section does not include a right to receive from Knight Piésold any raw data files or background materials created or used in the preparation of the Work Product.
7. **IMPROPER USE OF WORK PRODUCT** - If the Client: (a) uses the Work Product or provides it to third parties for purposes other than in connection with the Project without Knight Piésold's prior written consent; or (b) alters the Work Product without Knight Piésold's prior written consent, then the Client will indemnify Knight Piésold against claims and costs (including legal costs) associated with such improper use or alteration, and Knight Piésold will not in any way be responsible for the consequences of any such improper use or alteration.
8. **INSURANCE** - Knight Piésold shall carry and maintain the following insurance for this Project, subject to such insurance being available to Knight Piésold on commercially acceptable terms: (a) worker's compensation insurance; (b) general liability insurance with limits of not less than \$2,000,000 per occurrence and \$2,000,000 in the aggregate; (c) automobile bodily injury liability and property damage liability insurance covering automobiles owned or hired by Knight Piésold with a limit of not less than \$1,000,000 per occurrence; and (d) professional liability insurance with limits of not less than \$1,000,000 per occurrence and \$1,000,000 in the aggregate.
9. **INDEMNITY** - Knight Piésold shall indemnify the Client, its officers, employees and agents (collectively, the "Client Parties") from and against all liabilities, damages and costs incurred by the Client Parties as a result of third party claims brought or made against the Client Parties for personal injury, including death or property damage, to the extent arising as a direct result of the negligent acts or omissions of Knight Piésold in the performance of the Services, except to the extent any such liability, damage or cost is caused or contributed to by the Client Parties, or any one of them.
10. **EXCLUSION OF LIABILITY** - Subject to Section 9, Knight Piésold shall not be responsible for and has no liability with respect to any liabilities, damages or costs incurred by the Client Parties as a result of third party claims brought or made against the Client Parties, arising directly or indirectly, solely as a result of the performance of the Services by Knight Piésold under this Agreement, and the Client shall indemnify and hold harmless Knight Piésold, its officers, employees and agents from and against any liabilities, damages and costs incurred by Knight Piésold as a result of such third party claims.
11. **LIMITATION OF LIABILITY** - Notwithstanding any other provision of this Agreement Knight Piésold's liability for claims which the Client has or may have against Knight Piésold or Knight Piésold's employees, agents, representatives, subcontractors and sub-consultants relating to the Services, whether arising in contract, tort, statute or otherwise, will be limited:
 - a. to claims brought within one year after completion of the Services or the earlier termination of this Agreement; and
 - b. to an aggregate total of \$250,000.

No officer, employee or agent of Knight Piésold shall have any personal liability to the Client, its directors, officers or employees in respect of any claim whether arising in contract, tort, statute or otherwise arising from or related to the Services.
12. **CONSEQUENTIAL DAMAGES** - Neither party is liable to the other party for special, punitive, contingent, indirect, consequential or pure economic loss or damage, including without limitation loss of use, profit, revenue, earnings, business interruption, expected savings or other commercial economic losses of any kind, whether or not such losses or damages were foreseeable and whether or not the parties were advised of the possibility of them.
13. **FORCE MAJEURE** - If either party to this Agreement is prevented from, or delayed in, performing any of its obligations by reason of force majeure, then such party shall not be liable to the other for its failure to perform, or for its delay in the performance of, its obligations hereunder and shall be excused punctual performance of such obligation for the period of time that the event of force majeure remains in effect. As used herein, "force majeure" shall include, but not be limited to: war, hostilities, acts of foreign enemy, invasion, warlike operations, acts of terrorism, civil war, civil disobedience, blockade, regional or global epidemic or pandemic, bad weather, earthquake, flood, fire or other natural physical disaster, and strike, lock out or other industrial concerted action by workers. In no event shall lack of finances or inability to perform because of the financial condition of either party constitute force majeure on the part of such party.
14. **TERMINATION** - This Agreement may be terminated by either party upon 14 days' written notice to the other upon which Knight Piésold shall perform no further services other than those considered necessary by Knight Piésold to close out its Services and place its files in an order satisfactory to protect its professional liability.
15. **ASSIGNMENT** - Without the prior written agreement of the other party, neither party shall be entitled to assign its interest in this Agreement.
16. **RESPONSIBILITY** - Knight Piésold shall not be responsible for and has no liability with respect to the design or completion of work that is dependent upon or completed by the Client or third parties not under the direct control of Knight Piésold nor is Knight Piésold responsible for or have any liability with respect to any damages resulting therefrom.
17. **MUTUAL RESPECT** - The parties shall mutually respect the relationship between the employer and all employees of either party. In recognition of this, in the event that either party offers employment to any employee of the other party during and within six months of the completion of the Services performed under this Agreement, such party shall be liable for and shall pay to the other party an amount equal to six months' salary of the relevant employee.
18. **CONFIDENTIALITY** - Information and materials in any form concerning the Client, the Project or the Services which are disclosed to, obtained or generated by Knight Piésold in performance of the Services shall not be disclosed to third parties by Knight Piésold or by its employees, agents, representatives or sub-consultants, without the prior written consent of the Client. Excluded from this restriction is any information and materials that: (a) Knight Piésold can demonstrate was in its possession prior to the disclosure to it for performance of the Services; (b) was, or has since become, available to the general public through no disclosure by Knight Piésold; (c) to the knowledge of Knight Piésold, was rightfully received by Knight Piésold from a third party without breach of any obligation of confidence by such third party; or (d) Knight Piésold is required by law to disclose. Should Knight Piésold fail to comply with the provisions of this Section 18, the Client may terminate this Agreement upon written notice to Knight Piésold.
19. **DISPUTES** - All disputes relating to or arising out of this Agreement (each, a "Dispute") shall be resolved in accordance with the following procedure: (a) a party with a Dispute may, at any time, deliver written notice to the other party describing the Dispute (a "Dispute Notice"); (b) within 14 days of the delivery of a Dispute Notice, or such other time as the parties may agree in writing, senior representatives of the parties shall meet and make all reasonable efforts to resolve the Dispute (the "Settlement Meeting"); (c) if the Dispute has not been resolved within 14 days after the Settlement Meeting, or such other time as the parties may agree in writing, the Dispute shall be settled by mediation; and (d) if within seven days of completion of the mediation the Dispute is not settled by agreement, then either party may request the other party to agree to settle the Dispute by binding arbitration, or may without further notice commence litigation.
20. **APPLICABLE LAW** - This Agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable in Ontario.

December 20, 2023

Donna Maitland
CAO/Clerk/Treasurer
Municipality of Calvin
1355 Peddlers Drive
RR#2
Mattawa, Ontario
Canada, P0H 1V0

Knight Piésold Ltd.
200 - 1164 Devonshire Avenue
North Bay, Ontario
Canada, P1B 8G5
T +1 705 476 2165
E northbay@knightpiesold.com
www.knightpiesold.com

Dear Donna,

**RE: Corporation of the Municipality of Calvin Landfill Site - 2024/2025
Environmental Monitoring and Reporting Proposal**

1.0 INTRODUCTION

Knight Piésold Ltd. (KP) is pleased to provide our proposal to continue the environmental monitoring and reporting services to the Municipality of Calvin for the period of 2024 and 2025 for the Calvin Landfill. The Municipality of Calvin operates the Calvin Waste Disposal Site under Certificate of Approval (C of A) No. A530901 obtained on March 25, 1980.

KP has prepared this proposal to outline our understanding of the project and provide a cost estimate for completing the environmental monitoring and associated reporting over a two-year contract period for the Calvin Landfill.

2.0 RELEVANT WORK EXPERIENCE

2.1 GENERAL

KP is a 100-year-old employee-owned global engineering and environmental consulting firm with an office in North Bay, Ontario. KP has operated in North Bay for more than 25 years and consists of 40 engineers, environmental scientists, geoscientists, technologists, and support staff. KP has extensive experience (over 20 years) completing landfill environmental monitoring programs and other related landfill services for clients in Northern Ontario, including the Calvin Landfill. KP has assisted the Municipality of Calvin with environmental monitoring and capacity assessments for the Calvin Landfill for periods of time, since 2006. The experienced KP Project Team for this assignment is listed in Section 2.2. A brief summary of select relevant projects and associated references are provided in Section 2.3.

2.2 PROJECT TEAM

The following personnel will be responsible for completing the environmental monitoring program for the Calvin Landfill. Resumes are provided in Appendix A.

- **Steven Aiken, P.Eng.** - Mr. Aiken is a Senior Engineer licenced to practice in Ontario, with over 20 years' experience with managing industrial and municipal landfill projects throughout Canada.

Mr. Aiken is the manager of environmental services for KP North Bay and holds a B.A.Sc. in Geological Engineering from the University of Waterloo. Steve will provide senior review and guidance for this project.

- **Simon Foster, M.Sc., P.Geo.** - Mr. Foster is a Senior Scientist with KP's North Bay office and is a Professional Geoscientist in Ontario. Mr. Foster has over 13 years' experience conducting landfill monitoring projects throughout Ontario and British Columbia and has a Master of Science degree in hydrogeology from Simon Fraser University. Mr. Foster has completed numerous environmental monitoring programs at large scale waste management centres as well as numerous remote or small municipal landfills.

Mr. Foster will be the project manager on the project and will assist with the coordination the work and the preparation and review of the 2024/2025 Landfill Monitoring Report.

- **Mackenzie Aiken, B.Sc.** - Mackenzie is a Junior Scientist at KP's North Bay Office. He is a graduate with a Bachelor of Science in Environmental Science from Wilfrid Laurier University. His work experience includes groundwater and surface water sampling for various environmental and mining projects throughout northern Ontario and northern Quebec.

Mr. Aiken will be the primary field technician responsible for the collection of samples. He will also assist with data management and assist in the preparation of the 2024/2025 Landfill Monitoring Report.

The following sub-contractors will be part of the environmental monitoring team:

- **SGS Environmental Laboratories** - SGS is a certified lab from Lakefield, Ontario, and is recommended to complete the analysis of the groundwater and surface water samples over the two-year project term. SGS has proven to be a quality lab, providing professional and accurate results for KP over the past 20 years.

2.3 PROJECT REFERENCES

The following is a list of landfills and associated contacts/references of similar size to Calvin Landfill which KP is involved (detailed descriptions are provided in Appendix B):

- **The Municipality of Powassan Landfill** - KP has been completing environmental monitoring at the Municipality of Powassan Landfill since 2010. KP's scope has expanded from environmental monitoring (groundwater, surface water and methane) to include landfill and closure design, capacity assessments, and the installation of additional monitoring wells.

Reference contact: Maureen Lang at 705-724-2813 or mlang@powassan.net.

- **The Corporation of the Township of Bonfield Landfill** - KP completed environmental monitoring at the Township of Bonfield Landfill for the period of 2001 to 2017. The environmental monitoring consisted of the collection of surface water, residential well water, groundwater samples, and QA/QC samples.

Reference contact: Ann Carr at 705-776-2659.

- **The Municipality of East Ferris Landfill** - KP has been retained since 2011 by the Municipality of East Ferris to complete environmental monitoring at their municipal landfill. Environmental monitoring consists of the collection of surface water, residential well water, and groundwater samples.

Reference contact: Antoine Boucher (antoine.boucher@eastferris.ca) or Jason Trottier (jason.trottier@eastferris.ca) at 705-752-2740.

- **The Corporation of the Township of Chisholm Landfill** - KP has been completing landfill monitoring at the Chisholm Landfill since 2007. KP has also been involved with closure design and costing, and landfill capacity updates. KP also assisted the Township with an expansion to the landfill.

Reference contact: Jessica Laberge (info@chisholm.ca) at 705-724-3526.

- **The Township of Machar Landfill** - KP has been completing environmental monitoring and capacity updates for the Township of Machar since 2009. KP is currently assisting the Township with environmental monitoring (groundwater and surface water) for the 2020 reporting period.

Reference contact: Brenda Paul (bpaulmchar@vianet.ca) at 705-386-7741.

3.0 WORK PLAN

The work plan to complete the environmental monitoring scope of work is separated into the following main tasks.

TASK 100 - PROJECT MANAGEMENT

This task includes all activities required to ensure that the work is completed on time and on budget. KP has an Integrated Management System that incorporates the following standards:

- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environmental Management System
- ISO 45001: 2018 Occupational Health and Safety Management System

The main activities that will be part of Task 100 will include project and budget administration, document management, schedule controls and all general project related communication.

TASK 200 - 2024 ENVIRONMENTAL SAMPLING

The monitoring program for the Municipality of Calvin includes 13 monitoring wells, 1 residential well, and 5 surface water samples with additional QA/QC samples (10% of total samples) to be monitored two times annually (spring and fall) in 2024 and 2025.

Generally, the spring sampling is scheduled for May/June and the fall sampling occurs in late September/October. It is assumed that each sampling event will be completed by one sampler and will occur over a one-day period.

The groundwater samples will be analyzed for O.Reg. 232/98 Schedule 5, Column 1 (groundwater) Comprehensive List parameters (MOE, 2012). Groundwater elevations will also be recorded during the sampling events to estimate groundwater flow directions. The success of natural attenuation will also be evaluated. Groundwater water quality results will be compared in accordance with the Ontario Reasonable Use Guidelines (B-7) as per the Ministry of Environment and Energy (MOEE, 1994) for the protection of the groundwater at the site, and also compared to Ontario Drinking Water Standards and Operational Guidelines (MECP, 2018) for the protection of drinking water resources. KP has included the collection of QA/QC samples (1 duplicate per ten samples) for each sampling event.

The surface water sampling will be similar to the groundwater analyses. Surface water samples will be submitted for analysis of the O.Reg. 232/98 Schedule 5, Column 3 (surface water) Comprehensive List parameters (MOE, 2012). The samples will also be analyzed for hardness since many of the Provincial Water Quality Objectives (PWQO) are hardness dependant (MOEE, 1994). In addition to surface water sampling, flow within the surface water bodies will be estimated. KP has included the addition of a QA/QC field duplicate sample for each surface water sampling event. Surface water sample results will be compared to PWQO criteria for the protection of surface water aquatic life (MOEE, 1994).

TASK 300 - 2025 ENVIRONMENTAL SAMPLING

As stated above, but for the 2025 sampling period.

TASK 400 - LANDFILL MONITORING REPORT

KP will prepare a monitoring report in late 2025/early 2026 which will detail the water quality results from the 2024 and 2025 reporting period. The monitoring report will be reviewed by a Professional Geoscientist and/or Professional Engineer and submitted to the Ministry of the Environment, Conservation and Parks (MECP).

TASK 500 - LANDFILL CAPACITY ASSESSMENT

KP recommends the completion of a landfill capacity assessment in 2024 to update the landfill filling rate and the remaining capacity/life of the Calvin Landfill. The assessment includes a land survey of the active landfilling area, including the current toe of the landfill (landfilling limit). The survey is recommended to be completed in early spring prior to the emergence of tree foliage for ease of collecting GPS data which requires satellite coverage. KP has not included budget for the completion of a survey. It is recommended that the preferred survey group contract the work directly through the municipality.

The land survey points will be imported into AutoCAD Civil 3D and will be compared against (cut/fill analysis) the previous available survey to determine the volume change. The rate of change will be calculated based on the change in volume between the time period of the two surveys.

The remaining capacity will be calculated based on the Calvin Landfill's Certificate of Approval (C of A) designated landfilling area and the general topography of the landfilled area. The results of the assessment will be provided to the Municipality of Calvin in a letter.

TASK 600 - CLOSURE LIABILITY REPORT

Task 600 includes the preparation of an estimate of the financial liability related to the closure and post-closure care for the Calvin Landfill. The landfill financial liability calculations include the costing of the following items:

- Landfill closure activities such as site road scarification and revegetation, landfill closure cap and topsoil placement, seeding, decommissioning of equipment and site buildings, perimeter fencing, etc.
- Post-closure monitoring costs including monitoring of the landfill for the length of its contaminating lifespan (assumed to be 25 years).

The closure costs will be summarized in a letter issued to the Municipality of Calvin.

4.0 COST ESTIMATE

The estimated cost to complete the monitoring and reporting over the two-year period is \$38,150, excluding applicable taxes. A breakdown of the estimated man hours per task as well as the expected disbursement costs are included in Appendix C. A quotation for the lab services (typically billed directly to the Municipality of Calvin) will be provided.

Table 1 Cost Estimate Summary Table

Task	Description	Hours	Professional Fees	Disbursements	Sub-Total
100	PROJECT MANAGEMENT	10	\$2,284	\$183	\$2,467
200	2024 ENVIRONMENTAL SAMPLING	33	\$5,940	\$1,986	\$7,926
300	2025 ENVIRONMENTAL SAMPLING	33	\$5,940	\$1,986	\$7,926
400	REPORTING	39	\$7,449	\$596	\$8,045
500	LANDFILL CAPACITY ASSESSMENT	28	\$5,267	\$421	\$5,688
600	CLOSURE LIABILITY REPORT	28	\$5,647	\$452	\$6,099
	TOTALS	171	\$32,527	\$5,623	\$38,150

Note(s):

1. All charge-out rates are in (CAD) at 2024/2025 rates and are exclusive of applicable taxes.

KP has assumed the following in preparation of this cost estimate:

- The groundwater monitoring wells at the sites are installed with sample tubing and foot-valves in good condition that can be used by KP for the sampling program outlined in this scope of work. Only Minimal replacements from normal wear and tear (contingency of \$50 per sample event budgeted for minor replacements).
- Laboratory fees are excluded from this proposal and are expected to be invoiced directly from SGS to the Municipality of Calvin.
- The costs associated with the completion of a land survey, required for the capacity assessment, are excluded from this proposal.

5.0 TERMS AND CONDITIONS AND CONTRACT

Similar to previous proposals and contracts, KP has provided the Municipality of Calvin with a contract with applicable terms and conditions to review (see Appendix D), sign, and return to the undersigned if the Municipality is satisfied with the budget and terms.

6.0 REFERENCES

Ministry of Environment (MOE), 2012. *Landfill Standards: A Guideline on the Regulatory and Approval Requirements for New/Expanding Land*. January.

Ministry of Environment and Energy (MOEE), 1994. *Water Management: Policies, Guidelines, Provincial Water Quality Objectives*.

Ministry of Environment Conservation and Parks (MECP), 2018. *Ontario Drinking Water Quality Standards*.

7.0 CLOSING

We trust that this proposal meets the Municipality of Calvin's needs for this assignment. Please contact the undersigned if you have any questions regarding this proposal.

Yours truly,
Knight Piésold Ltd.

Prepared:



Simon Foster, M.Sc., P.Geo.
Senior Scientist

Reviewed:



Steven R. Aiken, P.Eng.
Manager, Environmental Services

Approval that this document adheres to the Knight Piésold Quality System:



Attachments:

Appendix A	Resumes
Appendix B	Project Experience
Appendix C	Detailed Project Costs
Appendix D	KP Contract Form

/sbf

APPENDIX A

Resumes

(Pages A-1 to A-4)

STEVEN R. AIKEN, P.ENG.**MANAGER, ENVIRONMENTAL SERVICES**

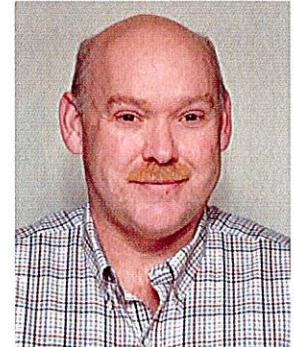
Steven Aiken is a Senior Geological Engineer and Manager of Environmental Services at Knight Piésold. He has over 31 years of experience in environmental monitoring programs, hydrogeological studies, social and environmental impact assessments (SEIAs), stakeholder consultation, mine closure planning, options assessments, environmental site assessments (ESAs) and remediation, geochemical assessments, environmental permitting, feasibility studies, and engineering design, including cover/cap design. He has worked for clients throughout Ontario, across Canada, the USA, and Internationally. Clients include governments, corporations, and Indigenous Communities.

KEY SKILLS / QUALIFICATIONS

- Registered professional engineer in Ontario and NWT/Nunavut
- Environmental Baseline and Monitoring Programs - Surface water, aquatic, terrestrial, groundwater/hydrogeology, geochemical, and stakeholder programs
- Permitting and approvals expertise including PTTW, ECAs, Work Permits, SAR, etc.
- Regulatory, Indigenous and Public Consultation - Meeting facilitation and open houses
- Mine Closure Planning, Design and Construction Oversight - Preparation of rehabilitation plans, detailed designs including cover design, technical specifications and construction management
- SEIAs - Coordination of assessments and preparation of SEIA documents
- Environmental Site Assessments (ESAs) - Phase 1, 2, and 3 assessments and remediation
- Landfill Monitoring and Planning - Annual compliance monitoring, expansion planning, closure planning, and design and operations plans
- Site Remediation - Planning and execution of remediation including "dig and dump", in situ remediation, and monitored natural attenuation (MNA)
- CPR, First Aid and WHMIS certification

SPECIFIC RELEVANT EXPERIENCE

- **Environmental Baseline Studies** (Surface Water, Groundwater/Hydrogeology, Aquatics, Geochemistry, Terrestrial, Archaeology/Cultural Heritage, Meteorology, Air, Light, Vibration and Noise)
 - Ontario: Bissett Creek Project, Eagle's Nest Project, Fenn-Gib Project, Goudreau Iron Range Pits, Shakespeare Project, Whistle Mine, Nickel Rim Mine, Sudbury Vale Mines, Northern Ontario Solar Farms, Kidd Metallurgical Site, Sudbury Lithium Refinery Project, McGarry Project, MacLeod Mine, Mattabi Mine, Pamour Mine, St. Theresa Remediation Project, Gowganda Silver Project, Cote Gold Project, Edwards Mine, Cline Mine, Goudreau Iron Range Pits, Montcalm Nickel Mine, F-Group Mine, Hardy Mine, Winston Lake Mine, Zenmac Mine, Red Lake Mine, Cochenour Mine, Dubreuilville Source Water Protection Study, Blind River Uranium Refinery, Temiskaming Shores Source Water Protection Study, Black Fox Mine, Holloway Mine, Stock Mine, Aquarius Project
 - Canada: Mary River Mine, Iqaluit Hydroelectric Project, Marbridge Mine, Nickel Plate Mine, Black Mountain Hydro Project, Eagle Gold Project, Voisey's Bay Nickel Project, Goliath Gold Project, Chisel Lake Mine, Heath Steele Mine, Brunswick No. 6 Mine, Goldboro Gold Project, Lockerby Mine, McIlvenna Bay Project
 - International: Sukhaybarat Gold Mine, Bulghah Gold Mine, Moa Nickel Mine, Troy Mine, La Pitarrilla Project, Boto Gold Project, El Limon Mine, Alacran Mine, Agua Rica Mine, Farim Phosphate Project, Chinchillas Mine, Karibib Lithium Project, Damang Gold Project, Alumbreira Mine



**Knight Piésold Ltd.
Canada**

EDUCATION

B.A.Sc. (Honours)
Geological Engineering
University of Waterloo
Canada, 1990

SPECIALIZATIONS

- Project Management and Client Communications
- Indigenous Communities Engagement
- Mine Closure Planning and Engineering
- Cover Design
- Geochemical Characterization Studies
- Site Assessment and Remediation
- Permitting Support
- Feasibility Study Support
- Developing Innovative Solutions
- Seeing "the Big Picture"
- Team Player
- SEIA Specialist

STEVEN R. AIKEN, P.ENG.**MANAGER, ENVIRONMENTAL SERVICES**

- **Indigenous Community Collaboration/Stakeholder Consultation/Engagement**
 - Long Lake #58 First Nation (Hardrock Project), Batchewana First Nation (Magino Project, Sugar Zone Mine, and Island Gold Mine), Wabun Tribal Council (Gogama and Matachewan landfills), Eagle's Nest Project, Sudbury Lithium Refinery Project, Ross Mine, Shakespeare Nickel Project, Errington-Vermillion Project, Bissett Creek Project, Gowganda Silver Project, Sukhaybarat Gold Mine
- **SEIAs**
 - Canada: Mary River Mine, Eagle's Nest Project, Back River Project, Young-Davidson Mine
 - International: Farim Phosphate Project, Asmara Project, Simandou Iron Ore Project, Colluli Potash Project
- **Mine Closure and Permitting**
 - Ontario: Edwards Mine, Cline Mine, Nickel Rim Mine, Bell Creek Mine, Timmins West Mine, Bissett Creek Mine, Montcalm Mine, CamChib Mine, Separation Rapids, Goudreau Iron Range Pits, Ross Mine, Whistle Mine, Shakespeare Project, Pamour Mine, Aunor Mine, Delnite Mine, Island Gold Mine, Ojibway Salt Mine, Errington East and West Mines, Vermillion Mine, MacLeod Mine, Project Crystal Industrial Minerals Project, Perkoa Mine, First Cobalt Refinery, Greenstone Mine, Magino Mine, Island Gold Mine, Eagle River Gold Mine
 - Canada: St. Lawrence Fluorspar Mine, Point Rousse Mine, Goldboro Project, Wabush Mine, Marbridge Mine, Tartan Lake Gold Mine, Britannia Mine, Lupin Mine, Back River Project, Mary River Mine, Brunswick Mine, Heath Steele Mine, Millenbach Mine, Waite Amulet Site, Mattabi Mine, Nechalacho Project, NorMetal Mine, Bouchard Hebert Mine
 - International: Cerro Verde Mine, Troy Mine, Neves Corvo Mine, Bisha Gold Mine, Campo Morado Mine, Arcata Silver Mine, Bulghah Gold Mine, Sukhaybarat Gold Mine, Pend Oreille Mine, Zara Project, Tsumeb Smelter, Mahd Ad'Dahub Mine, Rio Blanco Mine, Minera Ares, Mineral Hill Mine, Vueltas de Rio Project, Farim Phosphate Project, Shymanivske Project
- **Landfill Monitoring and Design**
 - Municipal Landfills: Town of Cochrane, Town of Powassan, Chisholm Township, Machar Township, Town of Mattawa, East Ferris Township, Bonfield Township, Cache Creek Landfill, North Bay Landfill, Douro Township
 - Industrial Landfills: Kidd Mine, Mary River Mine, MacLeod Mine
- **Phase 1, 2 and 3 ESAs and Site Remediation**
 - Fuel Stations: Haileybury Fuel Station, South Shore Fuel Station, Hwy #64 Fuel Truck Spill, Wheelers Restaurant and Fuel Station, Lucky 13 Fuel Station, Warren Shell Fuel Station, Champagne Road Fuel Station, Burk's Falls Fuel Station, Sundridge Bulk Fuel Storage
 - Industrial/Commercial Properties: Giesler Marine, Redpath Properties, Tembec Warehouse, Tisdale Bus Lines Service Site, Boart Longyear Maintenance Facility, North Bay Railyard, Coniston Industrial Park, North Bay Walmart, Maycar Industries, North Bay Friendship Centre, Murdoch Group Properties, Seymour Car Wash, East Ferris Bus Lines
 - Residential Properties and Motels/Hotels: 25+ Properties, 3+ Apartment Buildings, Inn-on-the Bay, Princess Motel, Breton Motel, Clarion Resort and Golf Course, Sturgeon River Inn
 - Mines: Errington East Mine, Nickel Rim Mine, Mary River Mine
 - Municipal Land: East Ferris Municipal Garage, MNRF Parry Sound Communications Tower, North Bay Airport, Powassan Drop In Centre, North Bay Hydro Building, North Bay City Lots, East Ferris Arena, St. Theresa School and Memorial Park, Township of The Archipelago Lot

WORK HISTORY

- Knight Piésold Ltd.
 - Manager, Environmental Services, 2002 - Present
 - Project Manager, 1997 - 2002
 - Senior Environmental Engineer, 1996 - 1997
- SRA Environmental Services, Owner, 1992 - 1996
- SGS Canada Inc. (Lakefield Research Limited), Senior Hydrogeologist, 1994 - 1995
- CANMET (Department of Natural Resources Canada), Project Engineer, 1993 - 1994
- England Naylor Engineering Ltd., Hydrogeologist, 1991 - 1992
- Noranda Inc. (Noranda Technology Centre), Environmental Coordinator, 1988 - 1991

SIMON FOSTER, M.SC., P.GEO.

SENIOR SCIENTIST

Simon Foster is a Professional Geoscientist and hydrogeologist with Knight Piésold. Mr. Foster has over ten years of experience relating to hydrogeological assessments, environmental baseline and water quality studies, geophysical investigations, and dam breach studies. His areas of experience include numerical groundwater modelling, water quality assessments, drilling investigations, geophysical surveying, and aquifer testing. Mr. Foster holds a master's degree in hydrogeology from Simon Fraser University and has worked on environmental and geotechnical projects throughout Canada, the US, and Africa.

KEY SKILLS / QUALIFICATIONS

- Registered Professional Geoscientist in Ontario
- Mine hydrogeology, conceptual model development, and groundwater inflow estimates
- Collection and analysis of hydrogeological and water quality data
- Geophysical surveying to delineate contaminate plume boundaries and aquifer structure
- Experience with ArcMap, HEC-RAS, LeapFrog, and MODFLOW software

SPECIFIC RELEVANT EXPERIENCE

- **Macassa Mine, ON, Canada:** Completion of a Hydrogeology Study for a Category 3 Permit to Take Water Study and ongoing annual monitoring and reporting support. Study included numerical groundwater modeling and pumping test analysis.
- **Vale Sudbury Operations, ON, Canada:** Lead author and scientist for the completion of a large-scale environmental study to identify gaps in current environmental monitoring and remediation measures.
- **Hammond Reef Project, ON, Canada:** Senior hydrogeologist responsible for the completion of a transient numerical groundwater model to support a pit inflow assessment.
- **Stillwater Project, Montana, USA:** Dam breach assessment to determine inundation extents and flood-wave travel velocity following a hypothetical tailings storage facility failure.
- **Terronera Project, Mexico:** Feasibility level hydrogeology study, including the creation of a conceptual model and the calculation of water inflows to underground developments.
- **Boto Gold Project, Senegal:** Completion of a hydrogeological investigation involving monitoring well installations and aquifer testing.
- **Farim Phosphate Project, Guinea-Bissau:** Designed and implemented a water supply drilling and testing program, ongoing water quality monitoring, and assisted with a feasibility level dewatering assessment of a planned open pit.
- **Mary River Project, NU, Canada:** Environmental impact statement reporting, and ongoing annual compliance reporting.
- **Ruddock Creek Mine Project, BC, Canada:** Baseline data collection (groundwater quality, climate, hydrogeology) and groundwater quality assessment.
- **New Afton Mine, BC, Canada:** Analyzed long-term dewatering drawdown data to determine aquifer characteristics, and boundary conditions, and the use of numerical modelling to predict long-term drawdown conditions.
- **Seton Lake Water Upgrade Project, BC, Canada:** Supervised and coordinated geotechnical, hydrogeological, and source water protection studies related to the upgrade of the Seton Lake Water System.
- **Kitimat Industrial Site, BC, Canada:** Conducted groundwater monitoring well installations, groundwater quality sampling, landfill slope assessment, drone surveys, and hydrogeological reporting.
- **Numerous Geophysical Projects, Canada and US:** Designed, implemented, and reported on environmentally focussed geophysical surveys throughout Canada and the US.
- **Numerous Landfill Monitoring Projects, Canada:** Water quality sampling and reporting.



Knight Piésold Ltd.
Canada

EDUCATION

M.Sc. (Hydrogeology),
Simon Fraser University,
Burnaby, British
Columbia, 2014

B.Sc. (Environmental Earth
Science), Laurentian
University, Sudbury,
Ontario, 2008

ASSOCIATIONS

- Association of
Professional
Geoscientists of
Ontario (APGO)

SPECIALIZATIONS

- Water Quality
Characterization
- Data Management and
QA/QC
- Aquifer Testing
- Environmental/
Hydrogeological
Drilling Supervision
- Environmental
Geophysics
- GIS/LeapFrog and
Numerical
Groundwater
Modelling

MACKENZIE AIKEN, B.Sc.

JUNIOR SCIENTIST

Mackenzie Aiken is a Junior Scientist at Knight Piésold, with a Bachelor's degree in Environmental Science from Wilfrid Laurier University. His work experience includes groundwater and surface water sampling, monitoring well installations, soil sampling, supervision of hydrocarbon remediation projects (fuel/oil clean-up), geotechnical logging, various site inspections, stream gauging, and site water management on mining projects.

KEY SKILLS / QUALIFICATIONS

- Fluent in both English and French
- Proficient with Word, PowerPoint, Excel, @Risk, and ArcGIS
- Experience in an industrial work environment and working alongside heavy equipment

SPECIFIC RELEVANT EXPERIENCE

- **James Bay Niobium Project, ON, Canada:** Environmental baseline studies including surface water sampling, flow measurements, water level measurements, barologger and water level logger installation, terrestrial biology surveys, winter mammal track survey and wildlife observations.
- **Former St. Theresa School, East Ferris, ON, Canada:** Surface water and groundwater sampling, fuel/oil removal, skimmer and standpipe maintenance, monthly monitoring of residential groundwater wells.
- **Municipality of Powassan Landfill, Powassan, ON, Canada:** Surface water and groundwater sampling, and methane monitoring at the landfill.
- **Township of Chisholm Landfill, Chisholm, ON, Canada:** Groundwater sampling, methane monitoring and landfill surveying for capacity review update.
- **Township of Machar Landfill, South River, ON, Canada:** Groundwater and surface water sampling, methane monitoring and landfill surveying for capacity review update.
- **Kenbridge Nickel Project, ON, Canada:** Surface water and groundwater sampling, hydrology station installation, stream flow measurements, groundwater well installations, levellogger installations, completing response tests and rising head tests.
- **Coté Gold, Gogama, ON, Canada:** Environmental technician responsible for daily water sampling, site water management, environmental and site inspections (culvert, fuel station, concrete plant, waste, landfill inspections, etc.), preparation of daily reports.
- **River Valley Palladium Project, ON, Canada:** Supervision of test pitting, geotechnical drilling, packer testing, and groundwater well installations.
- **Springpole Gold Project, Springpole Lake, ON, Canada:** Supervision of test pitting, geotechnical drilling (on-ice and off-ice drilling), packer testing, and soil and rock sampling.



**Knight Piésold Ltd.
Canada**

EDUCATION

B.Sc., Environmental Science, Wilfrid Laurier University, Canada, 2021

APPENDIX B

Project Experience

(Pages B-1 to B-5)

POWASSAN LANDFILL

LANDFILL ENVIRONMENTAL MONITORING AND PLANNING



DESCRIPTION

The Municipality of Powassan's Landfill Site is located east of Highway 11, south of the Town of Powassan in the Nipissing District of Ontario.

Knight Piésold has completed seasonal surface and groundwater sampling for the municipal landfill site. The sampling is completed to monitor for environmental effects on the water quality from the landfill. Collected data are compiled, reviewed and provided to the Municipality for submission to the Ontario Ministry of Environment, Conservation and Parks.

Knight Piésold has also provided a variety of additional landfill services, including landfill planning, ECA amendment and closure liability assessments. Other services provided by Knight Piésold included:

- Seasonal surface and groundwater sampling
- Methane monitoring in groundwater monitoring wells
- Preparation of Quality Assurance/Quality Control (QA/QC) samples
- Annual reporting of sample results
- Documentation and development of new groundwater monitoring wells
- Landfill capacity review and update
- Landfill closure layout design
- Consultation with the Ministry of Environment (now MECP)
- Amendment to the Environmental Compliance Approval
- Completed Design and Operations Report for landfill operations
- General landfilling planning advice

CLIENT

Municipality of Powassan

LOCATION

Powassan, ON, Canada

HIGHLIGHTS

- Landfill monitoring
- Groundwater and surface water protection
- Methane production monitoring
- Annual reporting
- Expansion planning service
- Design and Operations Report
- Installation of groundwater monitoring wells
- ECA Amendment
- Hydrogeology assessment

BONFIELD TOWNSHIP LANDFILL

LANDFILL SITE MONITORING

DESCRIPTION

Knight Piésold has been completing groundwater and surface water quality monitoring for the Township of Bonfield at their municipal landfill location for close to 20 years. Sampling activities include groundwater monitoring wells and surface water streams to determine if leachate from the landfill is impacting the groundwater and surface water quality. Data collected each year has been compiled and submitted to the Township in an annual report.

Services provided by Knight Piésold included:

- Annual groundwater monitoring
- Annual surface water monitoring
- Preparation of Quality Assurance/Quality Control (QA/QC) samples
- Report on the effects of the landfill on groundwater and surface water



CLIENT

Corporation of the Township of Bonfield

LOCATION

Bonfield, ON, Canada

HIGHLIGHTS

- Groundwater and surface water quality monitoring
- Groundwater and surface water protection
- Annual reporting

EAST FERRIS LANDFILL

LANDFILL ENVIRONMENTAL MONITORING



DESCRIPTION

The East Ferris Landfill Site is located on Bertha Road in the Township of East Ferris in the Nipissing District of Ontario approximately 2 km west of Corbeil Road.

Knight Piésold completes the annual groundwater and surface water sampling at the municipal landfill site. The sampling work is completed to monitor for environmental effects on the water quality from the landfill. Collected data are compiled, reviewed and provided to the Municipality for submission to the Ontario Ministry of Environment, Conservation and Parks.

Knight Piésold has also provided a variety of additional landfill services, including landfill planning and closure liability assessments. Other services provided by Knight Piésold include:

- Annual surface and groundwater sampling
- Preparation of water samples including Quality Assurance/Quality Control (QA/QC) samples
- Annual reporting on sample results
- Documentation and development of new groundwater monitoring wells
- Closure layout design and liability assessments
- Landfill capacity review and update
- Consultation with the Ministry of Environment (now MECP)
- General landfilling planning advice

CLIENT

Municipality of East Ferris

LOCATION

Township of East Ferris, ON,
Canada

HIGHLIGHTS

- Groundwater and surface water protection
- Annual reporting
- Installation of groundwater monitoring wells
- Hydrogeology assessment
- Expansion planning service

CHISHOLM TOWNSHIP LANDFILL

LANDFILL ENVIRONMENTAL MONITORING

DESCRIPTION

The Township of Chisholm Landfill Site is located about 10 km southeast of Callander and 15 km northeast of Powassan, Ontario. Knight Piésold has completed annual groundwater and surface water monitoring at the landfill site. Water quality results from the sampling are evaluated to assess the impacts of the landfill site on the local environment. The findings of the assessment are presented to the Township in an annual Landfill Monitoring Report.

Services provided by Knight Piésold included:

- Annual groundwater monitoring
- Preparation of Quality Assurance/Quality Control (QA/QC) samples
- Reporting on the effects of the landfill on local groundwater
- Expansion planning
- General landfill planning support

CLIENT

Corporation of the Township of Chisholm

LOCATION

Powassan, ON, Canada

HIGHLIGHTS

- Environmental monitoring
- Protection of groundwater
- Landfill monitoring
- Expansion planning
- Municipal services

MACHAR LANDFILL SITE

LANDFILL ENVIRONMENTAL MONITORING AND PLANNING



DESCRIPTION

The Township of Machar Landfill Site is located on Municipal Road North in South River, ON in the Parry Sound District of Ontario.

Knight Piésold has completed semi-annual groundwater and surface water sampling at the municipal landfill site. The sampling is completed to monitor for environmental effects on the water quality from the landfill. Collected data are compiled, reviewed and provided to the Municipality for submission to the Ontario Ministry of Environment, Conservation and Parks.

Knight Piésold has also provided a variety of additional landfill services, including landfill capacity reviews and closure liability assessments. Other services provided by Knight Piésold include:

- Semi-annual surface and groundwater sampling
- Preparation of Quality Assurance/Quality Control (QA/QC) samples
- Annual reporting on sample results
- Documentation and development of new groundwater monitoring wells
- Landfill capacity review and update
- Closure liability assessments
- General landfilling planning advice

CLIENT

Township of Machar

LOCATION

South River, ON, Canada

HIGHLIGHTS

- Surface and groundwater protection
- Annual reporting
- Installation of monitoring wells
- Capacity review
- Hydrogeology assessment

APPENDIX C

Detailed Project Costs

(Pages C-1 to C-2)

TABLE C.1

MUNICIPALITY OF CALVIN
MUNICIPALITY OF CALVIN LANDFILL SITE

MUNICIPALITY OF CALVIN LANDFILL SITE - 2024/2025 ENVIRONMENTAL MONITORING AND REPORTING
ESTIMATED PROFESSIONAL FEES

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Task	Description	Hourly Rate	Specialist Engineer / Scientist - E9 / S9 \$345	Senior Engineer / Scientist - E6 / S6 \$260	Junior Engineer / Scientist - E2 / S2 \$180	Tech 2 \$165	Clerical / Accounting Support \$102	Total Hours	Subtotal Costs	Total
100	PROJECT MANAGEMENT									
101	Project Management (scheduling, budgeting, meeting/correspondence)			8			2	10	\$2,284	
	Subtotal Main Task	Hours	0	8	0	0	2	10		\$2,284
200	2024 ENVIRONMENTAL SAMPLING									
201	Preparation				3			3	\$540	
202	Spring 2024 Sampling				15			15	\$2,700	
203	Fall 2024 Sampling				15			15	\$2,700	
	Subtotal Main Task	Hours	0	0	33	0	0	33		\$5,940
300	2025 ENVIRONMENTAL SAMPLING									
301	Preparation				3			3	\$540	
302	Spring 2025 Sampling				15			15	\$2,700	
303	Fall 2025 Sampling				15			15	\$2,700	
	Subtotal Main Task	Hours	0	0	33	0	0	33		\$5,940
400	LANDFILL MONITORING REPORT									
401	2024/2025 Monitoring Report		1	6	26	4	2	39	\$7,449	
	Subtotal Main Task	Hours	1	6	26	4	2	39		\$7,449
500	LANDFILL CAPACITY ASSESSMENT									
501	Landfill Capacity Reporting		1	4	10	12	1	28	\$5,267	
	Subtotal Main Task	Hours	1	4	10	12	1	28		\$5,267
600	CLOSURE LIABILITY REPORT									
601	Closure Liability Report		1	8	10	8	1	28	\$5,647	
	Subtotal Main Task	Hours	1	8	10	8	1	28		\$5,647
	TOTAL HOURS		3	26	112	24	6	171		\$32,527
	TOTAL ESTIMATED TIME CHARGES									

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Tables\20242025_Environmental_Monitoring_and_Reporting_Budget (1).xlsx\Appendix C1 - Professional Fees

NOTES:

- RATES ARE IN CAD AND ARE EXCLUSIVE OF APPLICABLE TAXES. RATES ARE VALID UNTIL JUNE 30, 2024.
- MAXIMUM 12 HOUR CHARGEABLE PER DAY FOR WORKING ON-SITE INCLUDING TRAVEL.

REV	DATE	ISSUED WITH REFERENCE TO	DATE PREP'D	BY	REV'D
0					

TABLE C2

MUNICIPALITY OF CALVIN
MUNICIPALITY OF CALVIN LANDFILL SITE

MUNICIPALITY OF CALVIN LANDFILL SITE - 2024/2025 ENVIRONMENTAL MONITORING AND REPORTING
ESTIMATED DISBURSEMENTS

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Task	Description	Quantity	Unit	Unit Rate	Amount	Sub-Total
NORMAL DISBURSEMENTS						8%
100	PROJECT MANAGEMENT				\$183	
200	2024 ENVIRONMENTAL SAMPLING				\$475	
300	2025 ENVIRONMENTAL SAMPLING				\$475	
400	LANDFILL MONITORING REPORT				\$596	
500	LANDFILL CAPACITY ASSESSMENT				\$421	
600	CLOSURE LIABILITY REPORT				\$452	
TOTAL NORMAL DISBURSEMENTS						\$2,602
REIMBURSABLE EXPENSES						Costs + 10%
200	2024 ENVIRONMENTAL SAMPLING					
	Vehicle	2	day	\$65	\$130	
	Vehicle Mileage	220	km.	\$0.65	\$143	
	Sampling Equipment	2	day	\$350	\$700	
	Sample Shipping	2	ea.	\$200	\$400	
Subtotal Main Task						\$1,510
300	2025 ENVIRONMENTAL SAMPLING					
	Vehicle	2	day	\$65	\$130	
	Vehicle Mileage	220	km.	\$0.65	\$143	
	Sampling Equipment	2	day	\$350	\$700	
	Sample Shipping	2	ea.	\$200	\$400	
Subtotal Main Task						\$1,510
TOTAL ESTIMATED REIMBURSABLE EXPENSES						\$3,021
TOTAL DISBURSEMENTS						\$5,623

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NOTES:

1. NORMAL DISBURSEMENTS ON PROFESSIONAL FEES 8%
2. MARK-UP ON REIMBURSABLE EXPENSES 10%
3. MARK-UP ON SUB-CONSULTANTS 5%
4. RATES ARE IN CAD AND ARE EXCLUSIVE OF APPLICABLE TAXES. RATES ARE VALID UNTIL JUNE 30, 2024.
5. MAXIMUM 10 HOUR CHARGEABLE PER DAY FOR WORKING ON-SITE INCLUDING TRAVEL.

0	20DEC'23	ISSUED WITH LETTER NB23-01323	SBF	SRA
REV	DATE	DESCRIPTION	PREP'D	RVWD