

# Land and Water Boards of the Mackenzie Valley



## LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the [Mackenzie Valley Land Use Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:	X	Sahtu Land and Water Board:	
	Wek'èezhii Land and Water Board:		Gwich'in Land and Water Board:	

To complete this Form, please refer to the MVLWB [Guide to the Land Use Permitting Process](#) (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. An application package checklist is provided in the Guide. Review the following MVLWB guidance for formatting your Application Package:

- [Document Submission Standards](#)
- [Standard Outline for Management Plans](#)



Received: July 19, 2022

File #: MV2022S0011

Copied to: SA / Registry

If applicable, provide the existing or current Land Use Permit file number:	N/A		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		
	Water Licence – in a federal area:		

### 1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Ryan King		
Position:	Market Sector Leader, Conveyance, Western Canada, Water		
Company Name:	AECOM Canada Ltd.		
Mailing Address:	200 – 2100 8 <sup>th</sup> Street East		
Community:	Saskatoon	Telephone:	1-306-280-4471
Prov/Terr:	Saskatchewan	Email:	<a href="mailto:Ryan.King@aecom.com">Ryan.King@aecom.com</a>
Postal Code:	S7H 0V1	Other:	1-639-638-8150 (Main Office)

2. NAME AND CONTACT INFORMATION – APPLICANT’S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories in your Application Package.

*Certificate is attached.*

Use an "X" to indicate this information is the same as Item 1 above:			
Name:	Kevin Ness		
Position:	AVP, Operation Manager, Water		
Company Name:	AECOM Canada Ltd.		
Mailing Address:	200 – 2100 8 <sup>th</sup> Street East		
Community:	Saskatoon		
Prov/Terr:	Saskatchewan	Telephone:	1-306-657-8842
Postal Code:	S7H 0V1	Email:	<a href="mailto:Kevin.Ness@aecom.com">Kevin.Ness@aecom.com</a>
Field Supervisor:	Ryan King	Other:	1-639-638-8150 (Main Office)

3. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information. An additional table should be added for each contractor and sub-contractor.

Name:	Shawn Madden		
Position:	Sonic Drilling Manager		
Company Name:	Earth Drilling Co. Ltd.		
Mailing Address:	2903 61 Ave SE		
Community:	Calgary	Telephone:	1-587-577-8844
Prov/Terr:	Alberta	Email:	<a href="mailto:Shawn.Madden@earthdrilling.ca">Shawn.Madden@earthdrilling.ca</a>
Postal Code:	T2C 1R2	Other:	1-403-700-8778 (Main Office)

	Use an "X" to indicate that contractor and/or subcontractor information is not available at this time.
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4. LOCATION OF ACTIVITIES

Use the grey fields below to provide or reference the following information:

*Sketches showing the location of activities are attached.*

Traditional Place Name:

Sq̄q̄mbak'è (Yellowknife)

Maps and Geographic Information System (GIS) Data: Include a map in your Application Package identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the MVLWB [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	62.510429°	Maximum latitude:	62.516318°
Minimum longitude:	-114.307749°	Maximum longitude:	-114.312353°

NTS Map Sheet No.: Provide the map sheet number:

085J09

Land Types: Use an "X" to indicate the type(s) of the land on which the activities are proposed:

Free Hold/ Private:		Commissioner's/ Territorial Lands:		Federal Land:		Municipal Land:	X
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5. ELIGIBILITY

Refer to section 18 of the [Mackenzie Valley Land Use Regulations](#). Use an "X" to indicate which one applies:

18(a)(i):		18(a)(ii):		18(a)(iii):		18(b):	X
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6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

The project will perform Geotechnical Drilling on Municipal Land.

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the [Mackenzie Valley Land Use Regulations](#). Use an "X" to indicate which permitting criteria apply:

Type A		Type B				Type C			
4(a)(i):		4(b)(i):		5(a)(i):		5(b)(i):	X	(SLWB and WLWB only):	
4(a)(ii):		4(b)(ii):		5(a)(ii):		5(b)(ii):			
4(a)(iii):		4(b)(iii):		5(a)(iii):					
4(a)(iv):		4(b)(iv):		5(a)(iv):					
4(a)(v):				5(a)(v):					
				5(a)(vi):					

## 8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. Include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m<sup>3</sup>/day)). Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

AECOM is planning to undertake a geotechnical investigation program at Pumphouse 1 and Pumphouse 2 as part of the City of Yellowknife Submarine Waterline Replacement Program. The investigation includes drilling boreholes at each of the pumphouse locations (Pumphouse #1 and #2) and the lift station for a total of twelve (12) boreholes. Seven (7) boreholes will be drilled at Pumphouse #1 with depth ranging from 5 m below the ground surface to 7 metres of coring below the bedrock surface (approximately 18m below ground surface based on historical data). Three (3) boreholes will be drilled at Pumphouse #2 with depth ranging from the bedrock surface (approximately 21m below ground surface based on historical data) to 7 meters of coring below the bedrock surface. Additionally, two (2) boreholes will be drilled at wastewater lift station No. 1, the first one drilled to bedrock refusal and the second drilled and cored to a depth of 5 m below the bedrock surface.

The investigation also includes installation of two monitoring wells (one at each pumphouse location) to the full depth of the bedrock, complete with monitoring well protectors at the surface. Upon completion of the monitoring well installation, two in-situ pump tests will be completed to estimate groundwater inflow rates and inform the future contractor of site conditions. Boreholes without monitoring wells will be backfilled with bentonite chips.

Clean, municipal water will be readily available from the City of Yellowknife for use during drilling activities. Small volumes of water may be used during drilling to provide a pressure head within the well to mitigate sluffing, and/or as a lubricant, estimated to be less than 3 m<sup>3</sup> total.

## 9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

A camp is not required to complete the geotechnical inspection.  
The investigation is scheduled to occur over 12 days with overnight accommodation in Yellowknife hotels.

## 10. ROADS AND ACCESSES

Provide detailed information about the construction, location, and decommissioning of any roads and accesses.

Use an "X" to indicate if this is to be a pioneered road or access:	Yes		Use an "X" to indicate if the route has been laid out or ground-truthed:	Yes	
	No	X		No	X

Given the proximity of the work to the City of Yellowknife and the Yellowknife River Territorial Park Day Use Area, the project will utilize existing roads to access the drilling locations. Drill locations will be located immediately next to existing roads/parking areas.

## 11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

Waste Management Plan: Include a Waste Management Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed waste management activities in the grey fields provided below. A template for the Plan can be found in the MVLWB [Guidelines for Developing a Waste Management Plan](#).

Waste Type	Management Method(s)
Garbage:	Site personnel will collect and dispose of all generated waste (PPE, packaging, etc.) through City of Yellowknife municipal waste disposal.
Sewage (Sanitary and greywater):	N/A
Brush and trees:	No vegetation clearing will be required to complete this work.
Overburden (Organic soils, waste material, etc.):	All soils excavated during borehole drilling will be placed in soil bags and brought to a nearby location for disposal, as directed by the City of Yellowknife.
Other (describe):	The City of Yellowknife will accept all drill cuttings resulting from the Geotechnical Investigation at the City's Solid Waste Facility, provided they are not contaminated with any hazardous materials. <i>Written confirmation attached.</i>

Off-site Disposal: If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

## 12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
1	Pick-up Truck *No larger than a ¾ ton	< 4 tonnes	Transportation for Geotechnical personnel
1	Gus Pech Brat-a-Sonic Truck Drill 50K Head – Truck Mount Sonic	24.3 tonnes	Drilling Operations
1	Support Truck *No larger than a ¾ ton	< 4 tonnes	Drilling Operations
1	Pipe Truck with Picker	24.3 tonnes	Drilling Operations

### 13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy-tank)	Proposed storage or staging location(s)
Diesel:	1	400 L	Support Truck fuel tank	Within truck body
	1		Slip Tank	On Support Truck
	1		Drill Rig fuel tank	Within truck body
	1		Pipe Truck fuel tank	Within truck body
Gasoline:	1	130 L	Pick-up Truck fuel tank	Within truck body
Aviation Fuel:	N/A			
Propane:	N/A			
Other: (describe)	N/A			

### 14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

All gasoline fueling will occur within the City of Yellowknife at suitable fuel stations. Diesel re-fueling will be from a slip tank (primarily for the drill rig) and/or at suitable fuel stations within the City.

### 15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, provide relevant details in the grey field provided below. An example of this Plan can be found in the INAC [Guidelines for Spill Contingency Planning](#).

In the event of a spill, the priority is to minimize any direct threat to human health or the natural environment. Safety and protection of human health take precedence over environmental protection. After personal safety, protection of waterways is the utmost priority during spill response.

1. As soon as the spill release is noticed, stop work. Confirm all personnel/bystanders are out of harm's way, identify and isolate the cause of the spill before initiating spill response.
2. Assess the hazard, estimate spill quantity (if possible), refer to any applicable Safety Data Sheets (SDS), don appropriate Personal Protective Equipment (PPE), and note the wind direction.
3. Stop, contain, or minimize the effects of the spill, provided it is safe to do so. Turn off any valves, pumps, vehicles, and equipment.
4. Report the spill as per the instructions below to inform the appropriate response. If possible, identify the spilled product, including an estimated amount and extents of the release.
  - a. Report immediately if the spill aligns with this table – <https://www.enr.gov.nt.ca/en/services/report-spill#what-are-reportable-quantities-for-spills-in-the-nwt>
    - i. Northwest Territories 24-hour spill line Telephone: (867) 920-8130
  - b. Report within 24 hours if not identified in the table above. Notify the MVLWB and an Inspector. Within 30 days of initially reporting the incident, submit a detailed report to the Board and an Inspector, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Written notification shall be provided to the Board and an Inspector if any changes occur.
    - i. CIRNAC Inspector Telephone: (867) 669-2442
    - ii. CIRNAC Inspector E-mail: [Tim.Morton@canada.ca](mailto:Tim.Morton@canada.ca)
    - iii. Mackenzie Valley Land and Water Board (MVLWB) Telephone: (867) 766-7465
    - iv. MVLWB Email: [sallerston@mvlwb.com](mailto:sallerston@mvlwb.com)

5. Continued action until help arrives:
  - a. Block any entry to waterways; construct an interceptor trench or direct flow using spill containment equipment towards a low area away from water. If the spill has reached natural waters, try to prevent additional material from entering the water.
  - b. If spill has reached natural waters, deploy a containment boom, and apply absorbent materials, as appropriate, found in the spill containment kit. Prevent migration of the spilled material further downstream.
  - c. Attempt to contain the spill by dyking with earth, sandbags, or other type of barrier.
  - d. Use barriers, as needed, to keep all unnecessary people away.
  - e. Recover any contaminated soils or water.
  - f. Place contaminated materials into appropriate drums or containers. Contaminated materials will require disposal at an appropriate waste management facility.
6. In case of fire resulting from a spill, clear people from the surrounding area, then call the Yellowknife Fire Division (867-873-2222). Advise of all details relating to the incident and the type(s) of materials involved.

All drilling equipment is equipped with Spill Kits, for a total of three (3) on site at all times.

#### 16. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

Start Date:	Fall 2022	Completion Date:	Winter 2022
Activities are planned for Fall 2022. At the time of this application, the exact dates are unknown, but the drilling is expected to take 12 days and will occur between the beginning of September and end of December.			
Term of Permit Requested:	4 months		

#### 17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

The proposed project is seeking exemption from preliminary screening for the Geotechnical Investigation activities outlined in this application. The supporting rationale includes the following:

- **Small-Scale:** At this point the project activities are limited to the geotechnical investigation, with the sole intent to drill twelve (12) boreholes to establish ground conditions and install groundwater depth monitoring wells in two of the boreholes. Any additional future project work will be covered under a separate Land Use Permit.
- **Short-Term:** The project is limited to the time required to perform the drilling operations, which is estimated to take 12 days.
- **Minimal Footprint:** The footprint of the project activities will be limited to the two monitoring wells left in place. The remaining four boreholes will be backfilled with bentonite chips. All drill cuttings will be removed from site once drilling is complete. Access to drilling locations will be via existing roads, and the drill site will be proximate to existing roads/parking areas.
- **Low-Risk:** Small volumes of water used to facilitate drilling will be clean municipal water from the City of Yellowknife. No materials will be stored on site. Limited fuel will be brought to site via the fuel tanks within each vehicle, and one (1) slip tank for refilling the drill rig, as required. Waste will be disposed of in appropriate disposal locations within the City of Yellowknife.

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D of the [Guide](#), identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed.

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
<b>ABIOTIC COMPONENTS</b>		
Land		
Soil contamination		
Soil compaction		
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		
Drainage pattern changes		
Temperature changes		
Changes in water quality		
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		



Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
<b>BIOTIC COMPONENTS</b>		
<b>Vegetation</b>		
Direct loss of vegetation		
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
<b>Terrestrial Wildlife Habitat</b>		
Direct loss or removal of habitat, dens, or nests		
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		
Effects on population abundance		
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts		
Other		
<b>Aquatic Habitat</b>		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
<b>CULTURAL COMPONENTS</b>		
<b>Wildlife Harvesting</b>		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights		
Other		
<b>Cultural Integrity and Heritage Resources</b>		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Change to or loss of heritage resource		
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)		
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		
Impairment of the recreational or traditional uses of the land or water		
Impairment of the aesthetic quality of the land or water		
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)		
Other		

## 18. CLOSURE AND RECLAMATION

Use the grey field below to provide or reference the following information:

Closure and Reclamation Plan: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#).

Closure Cost Estimate: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact Board staff, prior to applying, to determine which closure-cost-estimate template is most suited to the activities being applied for. Guidance is provided in section 2.2 of the MVLWB/INAC/GNWT [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If the Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

### Closure and Reclamation

The scope of the project activities is limited to the drilling of twelve (12) boreholes. Two of the new boreholes will become groundwater depth monitoring wells, one at each of the Pumphouses. All drill cuttings will be removed from site and disposed of in a suitable location, as dictated by the City of Yellowknife.

### Closure Cost Estimate

Closure activities will be completed by Earth Drilling, the drilling subcontractor, and the cost is itemized within their quote (attached).

## 19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

**Engagement:** Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the MVLWB [Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits](#), and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to [Information for Proponents on MVLWB's Engagement Requirements](#).

**Land Use Plans:** Contact the applicable Land Use Planning Board or the Tłjchq Government to discuss conformity with the relevant land use plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

**Traditional (Environmental) Knowledge (TEK/TK):** Provision of TEK/TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TEK/TK.

**Studies Undertaken to Date:** List any relevant studies that support the proposed activities and include them in your Application Package.

Given the small-scale and short-term nature of this project which occurs on Municipal land, the above components do not apply.


## 20. FEES

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	\$150
Land-use fees (for federal areas only):	N/A
Total Fees:	\$150

## 21. SIGNATURE

AECOM Canada Ltd. c/o Ryan King	Market Sector Leader, Conveyance, Western Canada, Water
Applicant's Name (print) or Company Name	Position (print)

	July 15, 2022
Signature	Date

Review the application package checklist provided in the Guide, and submit completed applications to the Regulatory Manager or Executive Director identified on the “Contact Us” pages of the respective Land and Water Board ([www.mvlwb.com](http://www.mvlwb.com), [www.wlwb.ca](http://www.wlwb.ca), [www.slwb.com](http://www.slwb.com), [www.glwb.com](http://www.glwb.com)).

Attachment 1  
Certificate of Corporate Registration



Government of Northwest Territories / Gouvernement des Territoires du Nord-Ouest

**BUSINESS CORPORATIONS ACT**  
**CERTIFICATE OF COMPLIANCE OF AN**  
**EXTRA-TERRITORIAL CORPORATION**

**LOI SUR LES SOCIÉTÉS ACTIONS**  
**CERTIFICAT DE CONFORMITÉ D'UNE SOCIÉTÉ**  
**PAR ACTIONS EXTRATERRITORIALE**

I HEREBY CERTIFY THAT

JE CERTIFIE PAR LA PRÉSENTE QUE

**AECOM CANADA LTD.**

a body corporate incorporated  
under the laws of

une personne morale constituée  
En vertu des lois

**BRITISH COLUMBIA**

registered under Part XXI of the *Business Corporations Act* of the Northwest Territories, has filed with the Registrar of Corporations, the required annual returns and is, with respect to the filing of annual returns, in good standing on the records of the Registrar.

enregistrée en vertu de la partie XXI de la *Loi sur les sociétés par actions* des Territoires du Nord-Ouest, a déposé auprès du registraire des sociétés par actions le rapport annuel exigé et rencontre les exigences du registraire relatives au dépôt des rapports annuels.



Dated 2022-06-07  
Fait le

REGISTRAR OF CORPORATIONS  
REGISTRAIRE DES SOCIÉTÉS PAR ACTIONS



## Corporate Registries Online System

### Entity Profile

# AECOM CANADA LTD.

Report Created: June 07, 2022

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<b>File No.</b>	609664
<b>Entity Type</b>	Extra-Territorial Corporation
<b>Jurisdiction</b>	BRITISH COLUMBIA
<b>Status</b>	In Compliance

### Entity Events

**Note: Only the date of the most recent entity event is shown. For a full history, see Filings.**

<b>Date Incorporated</b>	January 03, 2009
<b>Date Registered</b>	February 11, 2009
<b>Date Cancelled</b>	N/A
<b>Date of Continuance in NWT</b>	N/A
<b>Date Reinstated</b>	N/A
<b>Date Amalgamated</b>	N/A
<b>Amalgamated to</b>	N/A

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### Name History

#### Assumed Name

No assumed name.

#### Former Names

No former names.

#### Trade Names

No trade names.

## Amalgamated From

### GARTNER LEE LIMITED

Date Amalgamated: N/A

### UMA ENGINEERING LTD.

Date Amalgamated: N/A

### ETC EARTH TECH (CANADA) INC.

Date Amalgamated: N/A

### AECOM CANADA LTD.

Date Amalgamated: N/A

## Addresses

### Head Office Delivery Address

FOURTH FLOOR  
3292 PRODUCTION WAY  
BURNABY BC V5A 4R4

### Head Office Mailing Address

Same as Delivery

### Registered Office in Northwest Territories Delivery Address

200, 4915 - 48TH ST., YK CENTRE EAST  
P.O. BOX 818  
YELLOWKNIFE NT X1A 2N6

### Service by Mail Address in Northwest Territories

Same as Delivery

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## Annual Filings

<b>Last Annual Return Filed</b>	April 22, 2022
<b>Last Annual Return for Year</b>	2022
<b>Next Annual Return Due</b>	February 28, 2023

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## Directors

See Filings.



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## Filings

<b>Filing</b>	<b>Filing Date</b>	<b>ID</b>
Directors and Officers	April 22, 2022	9696699
Annual Return	April 22, 2022	9694161
Annual Return	March 12, 2021	8648269
Directors and Officers	November 13, 2020	8370218
Directors and Officers	November 10, 2020	8353799
Annual Return	September 18, 2020	8213781
Directors and Officers	April 24, 2019	4873755
Annual Return	April 24, 2019	4873756
Directors and Officers	April 24, 2019	4873248
Directors and Officers	November 15, 2018	4478111
Directors and Officers	July 19, 2018	4223374
Directors and Officers	July 19, 2018	4223375
Annual Return	March 01, 2018	4060191
Directors and Officers	March 01, 2018	4060192
Directors and Officers	March 20, 2017	3091815
Annual Return	March 20, 2017	3091814
Annual Return	August 22, 2016	2819522
Directors and Officers	August 22, 2016	2818970
Annual Return	October 13, 2015	2695595
Directors and Officers	October 13, 2015	2695924
Directors and Officers	October 13, 2015	2699495
Annual Return	June 04, 2014	2497557
Directors and Officers	June 04, 2014	2497009
Annual Return	April 19, 2013	1754349
Directors and Officers	May 01, 2012	1156181
Annual Return	May 01, 2012	1155957
Annual Return	March 30, 2011	886300
Registered and Head Offices	March 30, 2011	886299
Annual Return	April 01, 2010	904711
Directors and Officers	April 01, 2010	904710
Registered and Head Offices	February 11, 2009	921451
Constating Documents	February 11, 2009	921450

# Attachment 2

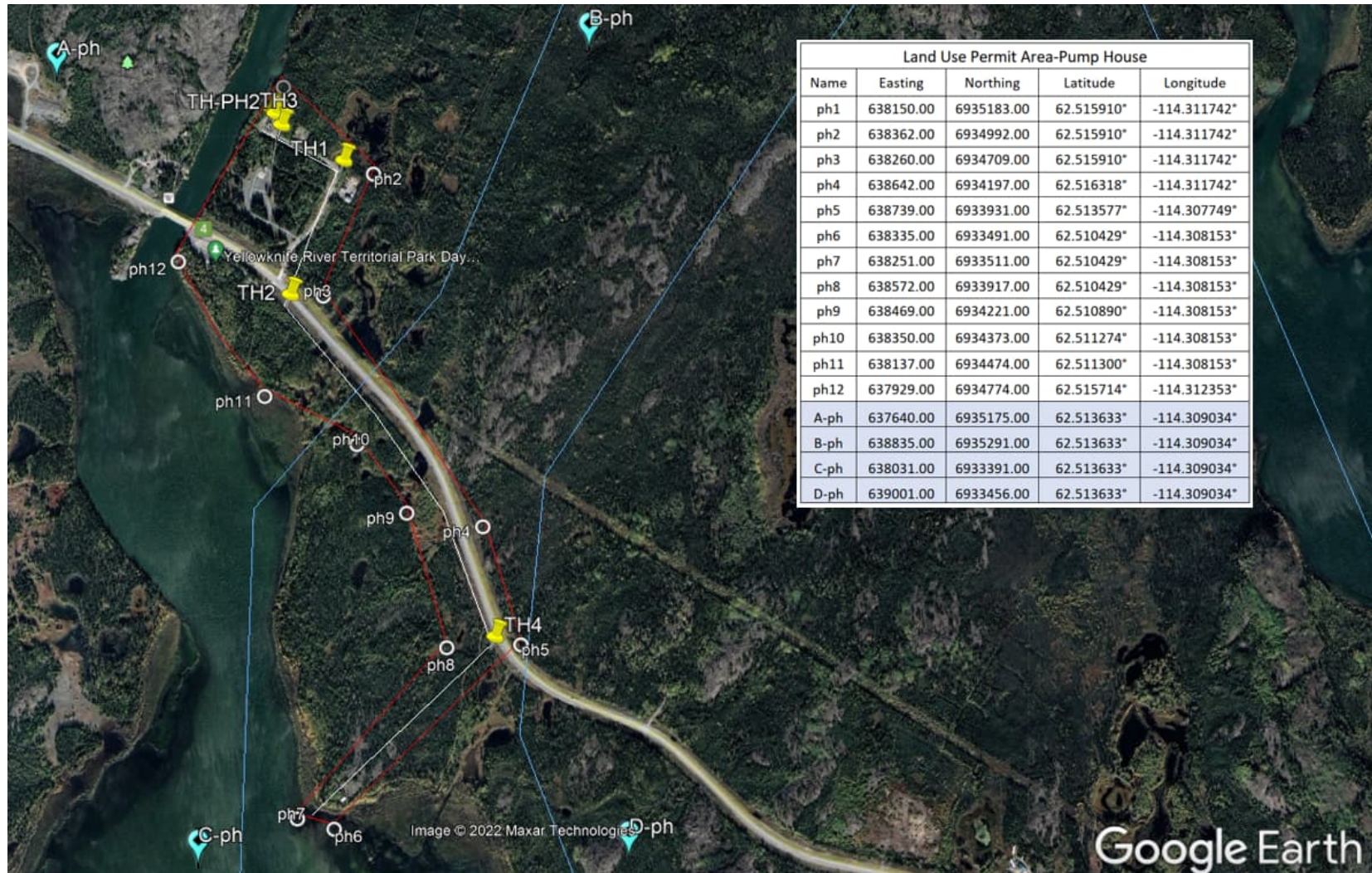
## Location of Activities

Sketch 1: General location of the work (Pumphouse #1, Pumphouse #2 and Lift Station):



## Sketch 2: Land Use Permit Area – Pumphouse #2

The application requests the area within the red lines to be permitted.



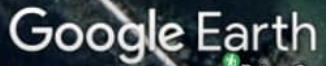
### Sketch 3: Land Use Permit Area – Lift Station

The application requests the area within the red lines to be permitted.



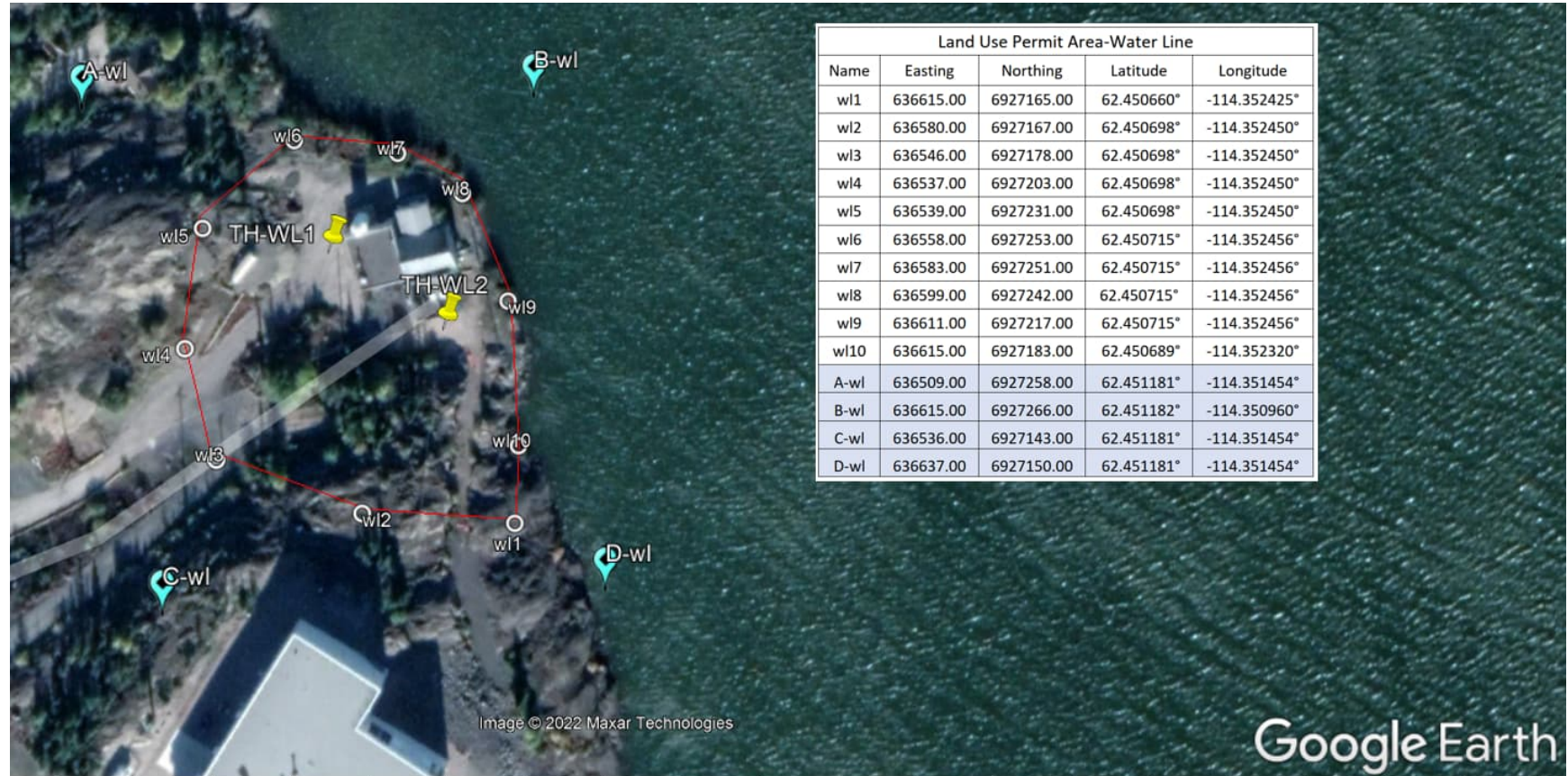
Land Use Permit Area-Lift Station				
Name	Easting	Northing	Latitude	Longitude
Is1	636272.00	6928196.00	62.459834°	-114.356452°
Is2	636352.00	6928264.00	62.459834°	-114.356452°
Is3	636364.00	6928248.00	62.459834°	-114.356452°
Is4	636375.00	6928136.00	62.459834°	-114.356452°
Is5	636349.00	6928135.00	62.459834°	-114.356452°
Is6	636340.00	6928135.00	62.459834°	-114.356452°
Is7	636327.00	6928135.00	62.459834°	-114.356452°
Is8	636307.00	6928153.00	62.459834°	-114.356452°
A-Is	636237.00	6928256.00	62.459924°	-114.354532°
B-Is	636384.00	6928288.00	62.459857°	-114.355535°
C-Is	636259.00	6928113.00	62.459857°	-114.355535°
D-Is	636400.00	6928121.00	62.459857°	-114.355535°

Image © 2022 Maxar Technologies



### Sketch 4: Land Use Permit Area – Pumphouse #1

The application requests the area within the red lines to be permitted.



# Attachment 3

## Waste Acceptance Confirmation

From: Wendy Newton <wnewton@yellowknife.ca>  
Sent: Friday, June 24, 2022 9:30 AM  
To: King, Ryan  
Subject: Acceptance of Cuttings from Geotechnical Drilling Program

Hi Ryan,

The City will accept any drill cuttings resulting from the Geotechnical Investigation for the Submarine Pipeline Project (Pump Houses 1 & 2) and the Lift Station #1 Project. All cuttings are to be taken to the City's Solid Waste Facility for disposal, provided they are not contaminated with any hazardous materials (i.e. hydrocarbons). Any cuttings suspected of being contaminated with hydrocarbons or other hazardous materials are to be disposed of at an appropriate facility.

Regards,

Mársi | Kinanāskomitin | Thank you | Merci | Hą́j' | Quana | ᑭᓄᓂᓐᓇᓴᓂᓐ | Quyanainni | Máhsı | Máhsı | Mahsi

[Wendy Newton, P.Eng.](#)  
Acting Director  
Public Works & Engineering  
City of Yellowknife  
T: 867.920.5689  
F: 867.920.5649  
[yellowknife.ca](http://yellowknife.ca)  
Hours of Work: 7:30am to 4:00pm



I acknowledge that I reside and work in Chief Drygeese territory.

IMPORTANT NOTICE: This message is intended only for the use of the individual or entity to which it is addressed. The message may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by email and delete the contents of the communication. Thank you.  
[Please consider the environment before printing this e-mail and/or attachments.](#)



# Attachment 4 Closure Cost Estimate

## Client

Aecom  
 3292 Production Way, Suite 330  
 Burnaby, BC V5A 4R4  
 Burnaby, BC, V5A4R4

## Contact

Fariba Yavari  
[fariba.yavari@aecom.com](mailto:fariba.yavari@aecom.com)

## Project

### Scope

- Two locations (Pumphouses #1 and Pumphouse #2) with 3 boreholes drilled at each location
- Pumphouse 1, I expect the depth of overburden between 4 and 11 m, SPT Sampling, HQ coring of 7m of bedrock on one bore hole at Pumphouse #1
- Pumphouse 2, expect the depth of overburden 18.3 to 21.3 m, SPT sampling, HQ coring of 7m of bedrock on one bore hole at Pumphouse #2
- 1 monitoring wells at each location (so 2 in total) installed to the full depth of the bedrock with monitoring well protectors.
- 4 more boreholes near pumphouse that will go 5 m deep or refusal on bedrock.
- 2 boreholes to the lift station, the first one drilled to refusal on bedrock and the second one drilled and cored to a depth of 5 m below the bedrock surface.

### Location

Yellowknife, NT

### Prepared by

Shawn Madden

Charges & Equipment	Unit	Rate	Qty	Price
Mob / Demob	Per Ls	\$ 28000.00	1	\$ 28000.00
Drill Time	Per Hour	\$ 595.00	103	\$ 61285.00
Overtime Premium	Per Hour	\$ 105.00	40	\$ 4200.00
Safety Time	Per Hour	\$ 475.00	6	\$ 2850.00
Crew Travel	Per Hour	\$ 275.00	11	\$ 3025.00
Support Truck	Per Day	\$ 235.00	11	\$ 2585.00
Pipe Truck w/Picker	Per Day	\$ 500.00	11	\$ 5500.00
Sonic Bit Footage	Per Foot	\$ 10.00	474	\$ 4740.00
Room and Board (3-Man Crew)	Per Day	\$ 855.00	11	\$ 9405.00
Load / Job Prep Time	Per Hour	\$ 180.00	8	\$ 1440.00
Coring Head Day Rate	Per Day	\$ 300.00	6	\$ 1800.00
Core Bit Footage	Per Foot	\$ 10.00	156	\$ 1560.00
fuel Surcharge (12%)	Lump	\$ 15640.32	1	\$ 15640.32

Consumables	Unit	Rate	Qty	Price
2` Sch 40 Solid PVC Pipe	Per Foot	\$ 5.50	140	\$ 770.00
2` Sch 40 PVC Screen	Per Foot	\$ 6.65	20	\$ 133.00
2` J-Plugs	Each	\$ 30.00	2	\$ 60.00
2` Threaded Cap	Each	\$ 11.00	2	\$ 22.00
10/20 Sand	Per Bag	\$ 22.00	12	\$ 264.00
Bentonite Chips	Per Bag	\$ 21.00	87	\$ 1827.00
Ready Mix	Per Bag	\$ 15.00	2	\$ 30.00
Protective Casing 5 ft	Each	\$ 170.00	2	\$ 340.00
Soil Bag	Per Bag	\$ 125.00	4	\$ 500.00

**Taxes Not Included**

**\$145,976.32**

### Conditions:

Budget estimate only - valid for 30 days.

Budget estimate may change due to site conditions and actual drilling time.

Overtime rate charged after 8 hours and on weekends. Overtime charges apply to weekend mobilization/demobilization.

Any cancellation or postponement of a job within 3 full business days of the "start time" of a one day job will result in a 4hr standby charge based on the drill booked.

Any cancellation or postponement of a job within 3 full business days of the "start time" of a three day job will result in a 10hr standby charge based on the drill booked.

Any cancellation or postponement of a job within 3 full business days of the "start time" of a seven (+) day job will result in a 16hr standby charge based on the drill booked.

**Earth Drilling Co. Ltd.**  
earthdrilling.ca

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