



# WASTE MANAGEMENT PLAN YATH PROPERTY GENERATION URANIUM INC.

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Effective Date: August 1, 2024



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## 1. Introduction

This Waste Management Plan (WMP) applies specifically to the Generation Uranium Inc. Yath Property (the Property or the Project) and is in effect as of August 1, 2024. Generation Uranium will be applying for a Nunavut Waste Generator Number. This Waste Management plan will be updated with the Nunavut Waste Generator Number once it is obtained.

### 1.1. Corporate Details

Generation Uranium Inc.

6<sup>th</sup> Floor- 905 West Pender Street

Vancouver, British Columbia, V6C 1L6

Tel: 604.773.0992

<https://generationuranium.com/>

### 1.2. Purpose and Scope

The purpose of this Waste Management Plan is to provide procedures for the collection, storage, transportation, and disposal of wastes while minimizing adverse effects on the environment. A copy of this WMP will be kept in the office at site and at the head office in Vancouver. Copies of this WMP may be obtained from Generation Uranium.

Generation Uranium endeavors to take every reasonable precaution toward ensuring the protection and conservation of the natural environment, and the safety and health of all employees, contractors, and the public from any potential harmful effects of materials and operations on the Project.

This WMP should be used in conjunction with other Property plans and Best Management Practices (BMP). Other plans at the Yath Property include:

- Fuel Management Plan (FMP)
- Medical Evacuation Plan (MEP)
- Environmental and Wildlife Management Plan (EWMP)
- Abandonment and Restoration Plan (ARP)
- Spill Contingency Plan (SCP)
- Radiation Hazard Control Plan (RHCP)

### 1.3. Project Description

The Yath Property (the Property or the Project), owned and operated by Generation Uranium Inc. ('Generation Uranium' or the Company), is located 350 kilometres west of Kangiqtinik (Rankin Inlet) and 230 kilometres southwest of Qamani'tuaq (Baker Lake), in the Kivalliq Region of Nunavut. The Project comprises 9 mineral claims and encompasses 14085.4 hectares of Crown Land on NTS map sheets 65 J/10 and 65 J/11. The Property extends north, south, east, and west between latitudes 62°32' and 62°40' North

and longitudes 98°36' and 99°12' West or Universal Transverse Mercator (UTM) coordinates 6935036mN to 6947575mN and 490334mE to 520419mE, North American Datum (NAD 83, Zone 14).

Activities at the Property will include general exploration activities (geological mapping, prospecting, geochemical sampling, ground and airborne geophysical surveys) and drilling. Drillhole locations are still to be determined, but locations will be submitted to NWB and CIRNAC for approval prior to any ground disturbance.

A 10-to-15-person seasonal exploration camp with a fuel cache will be established to support the exploration and drilling programs. The location of the camp is still to be determined, but suitable locations will be submitted to NWB and CIRNAC for approval prior to establishment.

Exploration activities are anticipated to be conducted annually from January to September. In-person consultation visits will be conducted annually, prior to the commencement of operations, to discuss the proposed exploration program, any concerns the KIA, Hamlets, HTO's, and community members may have, and to incorporate any available Inuit Qaujimajatuqangit traditional knowledge.

#### 1.4. Applicable Legislation and Guidelines

Waste management at the Yath Property will be conducted in accordance with Federal and Territorial Acts, Regulations, Guidelines and Recommendations including, but not limited to:

##### 1.4.1. Federal Legislation and Guidelines

- CCME Environmental Codes of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products
- Canada-Wide Standards for Dioxins and Furans (Canadian Council of Ministers of the Environment)
- Canadian Centre for Occupational Health and Safety Act
- Canadian Environmental Protection Act
- Fisheries Act
- Guidelines for Spill Contingency Planning (INAC)
- International Air Transport Association (IATA) Regulations
- National Fire Code of Canada
- Northern Land Use Guidelines
- Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations
- Territorial Lands Act
- Transportation of Dangerous Goods Act
- Workplace Hazardous Materials Information System (WHMIS)

##### 1.4.2. Territorial Legislation and Guidelines

- Environmental Guideline for the Management of Contaminated Sites
- Environmental Guideline for the General Management of Hazardous Waste
- Environmental Protection Act
- Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes
- Fire Prevention Act

- Mine Health and Safety Act and Regulations
- Nunavut Occupational Health and Safety Regulations
- Nunavut Waters Act and Nunavut Surface Rights Tribunal Act
- Public Health Act
- Safety Act

## 2. Waste Management

### 2.1. Definition of Wastes

At the Yath Property, waste is a term used to describe materials that are no longer wanted or are unusable for their original intended purpose. Hazardous waste is defined as “a contaminant or dangerous good that is no longer used for its original purpose, and is intended for recycling, treatment, disposal or storage” (Guideline for the General Management of Hazardous Waste, 2010). Hazardous wastes often require specific management measures to ensure the health and safety of the workers and environment.

### 2.2. Waste Sources

A summary of the predicted types of wastes (hazardous and non-hazardous) to be generated on the Yath Property from exploration activities and Camp operations is provided in the tables below.

Table 1: Non-Hazardous (Inert) Wastes

Waste Type	Examples	Estimated Quantity Generated
Drill Greywater/Sludge	Drill cutting fines	<289m <sup>3</sup> /day
Sewage	Human waste	10 -15 people
Camp greywater	Water from kitchen and sinks, showers	<10 m <sup>3</sup> /day
Combustible solid waste	Food wastes, paper, untreated wood (sent to incinerator daily)	~ 0.05 m <sup>3</sup> /day
Incinerator ash	Ash from the incinerator	Minimal
Non-combustible solid waste - scrap metal	Empty drums nails/screws	Variable
Non-combustible solid waste – plastics/glass	Bags, bottles, packaging, jars	Variable
Non-combustible solid waste - Equipment	Pumps, motors, fans, heaters, screens	Variable / Negligible
Non-combustible solid waste - rubber products	Tires, floor mats	Variable / Negligible

Table 2: Hazardous Wastes

Waste Type	Examples	Uses	Estimated Quantity Used
Petrochemicals - Diesel		Required for Generators, Tent heating	~2 drums/day
Petrochemicals - Jet Fuel	Jet A or Jet B	Required for Helicopter	~2-3 drums/day
Petrochemicals - Gasoline		Required for Pumps, Skidoos	~0.1 drum/day
Petrochemicals - Oil	Hydraulic, motor	Required for Generators, vehicles	~ 0.001 m <sup>3</sup> /day
Contaminant - Radioactive	Mineralized drill cutting fines	Product of drilling within mineralization zone	Variable
Contaminant - Waste Oil	Used Hydraulic and motor oil	Product of equipment maintenance	Minimal
Contaminated Soils	Contaminated soil/snow/water	Product of spills (see Spill Contingency Management Plan)	Unknown
Solvents	Cleaning products	Required for Cleaning	Negligible
Electronics	Computers, transformers	Used in Camp operations	Negligible
Drilling Fluids	Calcium Chloride	Antifreeze	~ 1 kg/day
Light bulbs	Regular bulbs, compact fluorescent tubes	Used in Lighting	Unknown
Batteries	Dry cell batteries, lead-acid based batteries	Used in GPS, computers, satellite phones, generators	Unknown

### 2.3. Waste Management Activities

The Waste Management Plan for the Yath Property is designed to ensure the proper handling, storage, transportation, recycling, treatment and disposal of hazardous wastes to reduce the potential impacts waste could have on the environment and workers health and safety (Guideline for the General Management of Hazardous Waste, 2010). To reduce the amount of waste generated, materials will be used efficiently. Waste created will be sorted and classified according to its specific characteristics and handled appropriately.

These waste management practices have been proven in cold climates.

### 2.4. Waste Reuse and Recycling

To reduce the amount of waste generated, Generation Uranium will engage in reusing and recycling materials whenever possible. Metal and wood will be repurposed to its full extent. Scrap metal will be removed from the Property regularly and shipped south to an authorized metals recycling facility. Recyclable glass and plastics will be segregated accordingly and will be removed from the Property regularly and shipped south to an authorized recycling facility.

### 3. Waste Classification and Disposal Plan

#### 3.1. Hazardous Wastes

All hazardous waste materials will be collected in sealed and appropriately labeled containers and stored in secondary containment. All hazardous wastes will be removed from the Property regularly for recycling or authorized disposal. Hazardous wastes will be transported in accordance with the Transportation of Dangerous Goods (TDG) and International Air Transport Association (IATA) regulations. Refer to the “Fuel Management Plan” for policies and procedures dictating the safe transport, storage and handling of fuels and other hazardous materials. Refer to the “Spill Contingency Plan” for the policies and response procedures to be followed in the event of a spill.

##### 3.1.1. Used Oil

Waste oil from generators, pumps, vehicles or other equipment will be collected and stored in sealed and labeled 205 L drums. All waste oils will be removed from the Property regularly and will be transported south to an authorized hazardous waste disposal facility.

##### 3.1.2. Hydraulic Fluid

Waste hydraulic fluids will be collected and stored in sealed and labeled 205 L drums. Waste hydraulic fluids drums will be removed from the Property regularly and will be transported south to an authorized hazardous waste disposal facility.

##### 3.1.3. Contaminated Fuels

Contaminated and waste fuels will be collected and stored in sealed and labeled 205 L drums. All contaminated and waste fuels will be removed from the Property regularly and will be transported south to an authorized waste disposal facility.

All drummed fuels will be stored in secondary containment berms, in organized horizontal rows, with bungs tightly secured and oriented at 3:00 and 9:00 o'clock positions to mitigate moisture inflow. All drummed fuels will be clearly labeled in accordance with the Workplace Hazardous Materials Information System (WHMIS) which includes the name of the fuel provider, the date the drum was filled and the type of fuel contained within. Drummed jet fuel has a limited drum life of two years after which it must be retested to confirm that it remains compliant with the requirements of the Canadian General Standards Board specified for Aviation Turbine Fuel. All efforts will be made to use jet fuel prior to the expiry date specified on the individual drums. In the event that the drum is not used prior to the expiry date the fuel will be tested and recertified so as to avoid designation as waste fuel.

##### 3.1.4. Solvents

Whenever possible, non-toxic alternatives will be used in place of petroleum-based solvents. Waste solvents will be sealed in their original containers and stored in the hazardous waste storage area. Those containers will be removed from the Property regularly and transported to an approved disposal facility.

##### 3.1.5. Contaminated Snow and Ice

Any contaminated water, ice and snow will be cleaned up immediately and contained in sealed and appropriately labelled 205 L drums and stored in secondary containment berms. Drums containing



contaminated water, ice or snow will be removed from site regularly and transported to an approved disposal facility. Please refer to the “Spill Contingency Plan” for additional procedures for spills resulting with contaminated water, snow and ice.

#### 3.1.6. Contaminated Soils

Any contaminated soils will be cleaned up immediately and contained in sealed and appropriately labelled 205 L drums and stored in secondary containment berms. Drums containing contaminated soils will be removed from site regularly and transported to an approved disposal facility or pending the appropriate authorizations, contaminated soils may be remediated by soil farming. Please refer to the “Spill Contingency Plan” for additional procedures for spills resulting with contaminated soils.

#### 3.1.7. Used Rags and Sorbents

Used rags and sorbent pads will be incinerated on site in a dual chamber, forced-air incinerator. Granular sorbents will be placed in sealed and labeled containers and stored in the hazardous waste storage area and will be removed from the Property regularly and transported to an authorized disposal facility.

#### 3.1.8. Drilling Fluids

Recirculation and filtration equipment will be used to minimize the amount of water used and additives released into the environment. Secondary containment for additives will be placed around the hole. Any residual drill fluids will be contained in sumps or an equivalent natural depression, preventing the drill fluids from entering water bodies directly and allow for slow infiltration into the soil. Sumps will be positioned a minimum of 31 metres from the normal high-water mark of any water body. Sumps will be positioned down slope from the drill collar in such a manner that runoff flows into the sump. Full sumps will be covered with enough material for future ground settlement. Biodegradable drill additives will be used whenever possible. See Appendix B of Generation Uranium’s “Spill Contingency Management Plan” for the MSDS of possible drill additives used.

#### 3.1.9. Empty Drums and Hazardous Materials Containers

After use, all fuel drums will be drained of residual contents and aggregated into 205 L waste fuel drums. All empty drums and hazardous materials containers will be stored in a designated area. Empty drums will be removed from site regularly and transported south to be returned to the supplier for recycling or to an authorized facility for disposal.

#### 3.1.10. Waste Batteries

Dry cell batteries (AAA to D cell, 6 or 9 volt) will be collected in a designated container and backhauled to an approved recycling facility.

Waste lead acid batteries will be packaged in accordance with TDG Regulations and will be removed from site regularly. All waste lead acid batteries will be transported south for disposal at an authorized facility.

#### 3.1.11. Aerosol Cans

Empty aerosol cans will be stored in a designated and appropriately labelled container and will be backhauled for proper disposal.

#### 3.1.12. Fluorescent Bulbs and Tubes

If possible, waste fluorescent bulbs and tubes are packaged in their original container and backhauled to an accredited facility. Fluorescent bulbs and tubes are considered hazardous if broken. Broken bulbs/tubes will be collected in a sealed drum, then labeled and shipped to a registered hazardous waste receiver.

#### 3.1.13. Radioactive Waste

A cutting retrieval system is used during drill operations. Benign cuttings will be captured and stored in a natural depression near each active drill site. If uranium concentrations are greater than 0.05%  $U_3O_8$  (or  $U_3O_8$  equivalent), drill cuttings will be collected and pumped back down the hole or contained in sealed steel 205 litre drums and cached as short-term storage on an elevated flat dry outcropping, a minimum of 100 m from the high-water mark of any waterbody, the location of which is yet to be determined. The radioactive waste storage location will be submitted to NWB and CIRNAC for approval prior to drums being stored on site. Drums will be kept at this short-term storage location until proper transportation and disposal at an accredited facility can be arranged.

### 3.2. Inert Non-Combustible Solid Wastes

#### 3.2.1. Tires and Other Rubber Materials

Tires and other rubber materials that cannot be patched or repurposed will be backhauled for proper recycling/disposal.

#### 3.2.2. Scrap Metal

Scrap metal will be repurposed as much as possible. Scrap metal will be removed from the Property regularly and shipped south to an authorized metals recycling facility.

#### 3.2.3. Glass

All waste glass will be stored in a sealed and clearly marked container. Waste glass will be removed from site regularly and shipped south for recycling at an authorized facility.

#### 3.2.4. Electronics

Electronics and electrical equipment will be collected in a container. Waste electrical equipment will be removed from site regularly and shipped south for disposal or recycling at an authorized facility.

#### 3.2.5. Vehicles and Other Mechanical Equipment

Broken vehicles and mechanical equipment that is unserviceable and no longer functioning will be removed from site and transported south for refurbishing or disposal at an authorized facility.

### 3.3. Inert Combustible Solid Wastes

All Inert Combustible Solid Wastes will be incinerated in a dual chamber, fuel fired, forced-air incinerator in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Waste and Canada-Wide Standards for Dioxins and Furans. Ash generated from the on-going incineration will be stored in sealed 205 L drums. Ash drums will be removed from site regularly and transported south for disposal at an authorized facility.

### 3.3.1. Food Waste and Packaging

Food waste and packaging will be incinerated in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes. Ash generated from the on-going incineration of food waste and packaging will be stored in sealed 205 L drums. Ash drums will be removed from site regularly and transported south for disposal at an authorized facility.

### 3.3.2. Paper and Cardboard

Paper and cardboard will be incinerated in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes. Ash generated from the on-going incineration of paper and cardboard will be stored in sealed 205 L drums. Ash drums will be removed from site regularly and transported south for disposal at an authorized facility.

### 3.3.3. Waste Lumber

Unusable waste lumber will be incinerated in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes. Ash generated from the on-going incineration of waste lumber will be stored in sealed 205 L drums. Ash drums will be removed from site regularly and transported south for disposal at an authorized facility. Untreated, larger pieces of lumber will be burned in a controlled open burn in compliance with the Municipal Solid Wastes Suitable for Open Burning Guidelines, only after approval in writing by a Land Use Inspector.

## 3.4. Sewage

Pacto toilets are used at the Camp. Bags containing black water waste will be incinerated in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes. Ash generated from the incineration of Pacto wastes will be sealed in designated 205 L drums and labelled accordingly. Ash drums will be removed from site regularly and transported south for disposal at an authorized facility.

## 4. Site Facilities

### 4.1. Hazardous Waste Storage Area

All hazardous waste materials will be stored in secondary containment adjacent to the main fuel cache at the Camp. The hazardous waste storage area will be a minimum of 31 metres from the normal high-water mark of any water body and such that there is no possibility of a potential spill entering any water body. All hazardous wastes will be sealed and labelled in containers and stored in the hazardous waste storage area until they can be backhauled for recycling or authorized disposal.

Secondary containment berms will be equipped with Spilfyter RailMat 3 ply hydrocarbon absorbent fabric (or similar) and Rain Drain hydrocarbon filters for water drainage. Secondary containment structures will be capable of holding 110 percent of the volume of the largest fuel reservoir that is housed within the secondary containment. These structures will be of sufficient height and depth to hold any potential spill or failure and will be made of material that is sufficiently durable to withstand Nunavut's climate and the natural terrain. Secondary containment structures will comply with all applicable federal and territorial laws, regulations and guidelines.

Radioactive waste materials will be contained in sealed 205 L steel drums and temporarily staged on an elevated flat dry outcropping, 100 m from the high-water mark of any waterbody, the location of which is yet to be determined. A radioactive waste storage location will be submitted to NWB and CIRNAC prior to drums being stored on site. Please refer to the Radiation Hazard Control Plan for more information.

#### 4.2. Incinerator

The proposed Camp will have a dual chamber incinerator which shall be at least 31 metres from the high-water mark of any water body and placed relative to camp so that the prevailing winds do not carry smoke towards camp. All combustible waste will be incinerated in accordance with the Nunavut Environmental Guideline for the Burning and Incineration of Solid Waste and Canada-Wide Standards for Dioxins and Furans. Ash generated from the on-going incineration will be stored in sealed metal 205 L drums and removed from site regularly to be transported south for disposal at an authorized facility.

#### 4.3. Sump

Waste-water from the camp will be discharged to grey water sumps. A grease trap and screens will be installed on the kitchen drain to ensure grease and food solids do not enter the sump. The discharge pipe into the sump will be inaccessible to wildlife. The grey water sump will be located at least 31 metres away from any water body.

Non-radioactive cuttings from drilling operations will be collected in natural depression sumps at each drill site.

### 5. Training

Site and job-specific training will be provided to all personnel who are required to handle waste materials. Generation Uranium will have a Level 3 First Aid Attendant on site during operations. The Camp Manager is required to oversee the handling of hazardous wastes and must have valid First Aid and WHMIS. On site management are responsible for the transportation of hazardous wastes and have Transportation of Dangerous Goods (TDG) certification. All employees and contractors will receive training in Fuel and Waste Management and Spill Response, as outlined in the Yath Property Fuel Management Plan, Waste Management Plan and Spill Contingency Plan.

Personnel responsible for operating or maintaining the incinerator will receive hands on training to ensure the equipment is operated safely and efficiently in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Wastes.

### 6. Inspection and Monitoring

Inspections of the hazardous waste storage area and other waste storage facilities will be regularly conducted weekly to ensure the hazardous waste inventory is up to date, the secondary containment is in place and in good condition, and that spill kits are fully stocked. Daily monitoring of the hazardous waste storage area and the contained wastes will include an assessment of the condition of waste receptacles and storage containers, checking for any damaged or leaking containers or berms, and ensuring that waste is collected and stored in the correct containers and safely placed in the storage area. Waste inspections

will be completed in conjunction with the fuel storage inspections outlined in the Yath Property "Fuel Management Plan." Any leaks or spills will be treated as outlined in the Yath Property "Spill Contingency Plan."

The Project Supervisor will be responsible for supervising the monitoring and inspection program and keeping a detailed inventory of all hazardous wastes on site.

## APPENDIX I



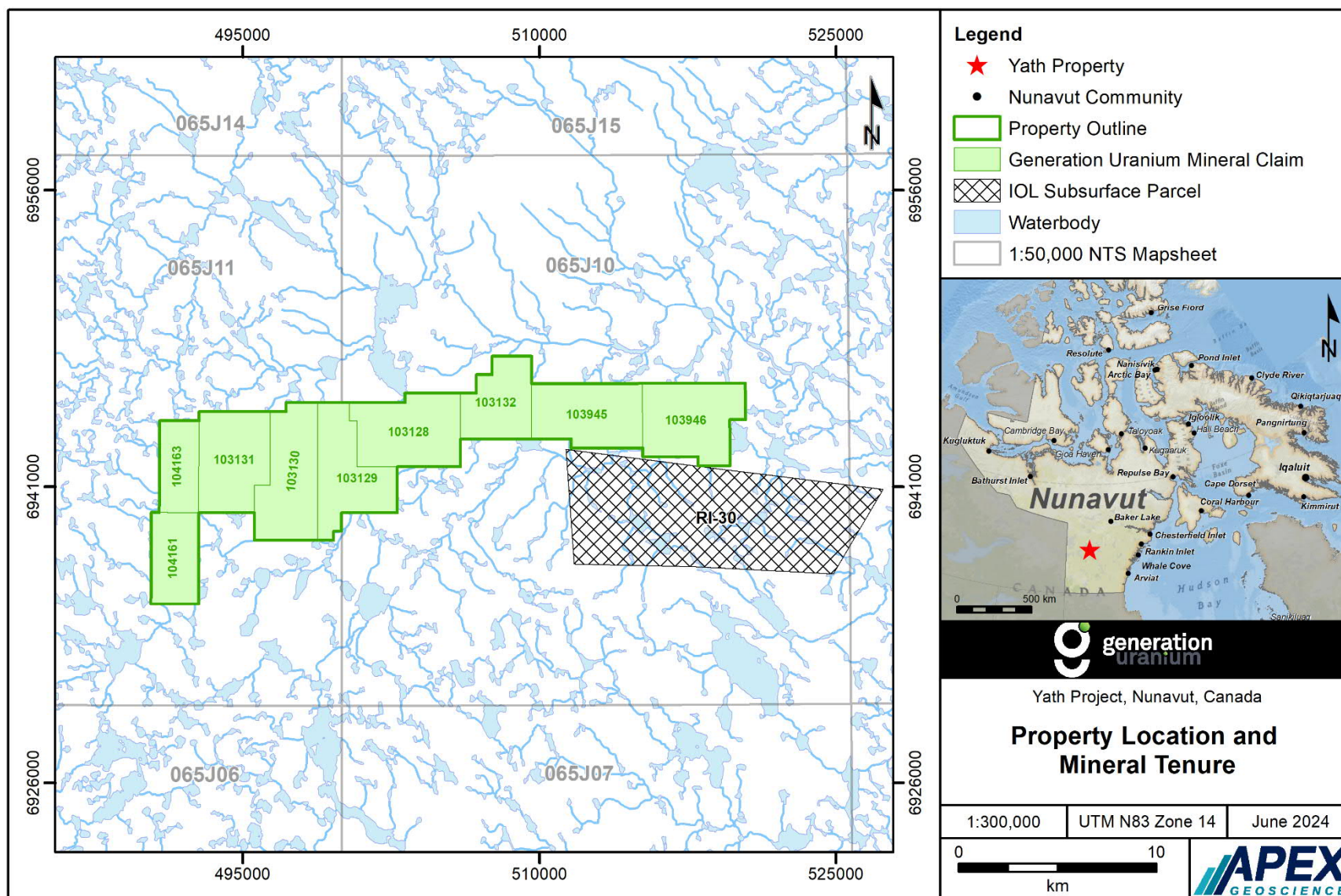


Figure 1: Yath Property Location and Mineral Tenure