AGREEMENT

BETWEEN:

HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO, as represented by the Minister of Natural Resources and Forestry (the "Ministry")

AND

THE NUCLEAR WASTE MANAGEMENT ORGANIZATION, (the "NWMO")

(referred to together as the "Parties")

WHEREAS the Ministry is the owner of the Crown land located approximately 5 Km northeast of Mennin Lake, 41 Km northwest of the Municipality of Ignace, 20 Km southeast of Wabigoon Lake Ojibway Nation, and 63 Km southeast of Dryden as described in Appendix A – Borehole Drilling Site Description attached hereto, defined below as the Borehole Drilling Site;

AND WHEREAS the Ministry and the NWMO executed a Memorandum of Understanding dated March 20, 2017, which in part sets out the process for NWMO to request permission to conduct borehole drilling projects on Crown Land;

AND WHEREAS the NWMO has requested a Permission, as defined below, from the Ministry to conduct a Borehole Drilling Project, as defined below, at the Borehole Drilling Site;

AND WHEREAS pursuant to subsection 2(2) of the Public Lands Act, 1990, c. P.43 (PLA), the Minister, as defined below, has the authority to enter into agreements with any person for the purpose of carrying out his or her duties under the Public Lands Act, including the management of public lands;

AND WHEREAS as a member of the Executive Council of Ontario, the Minister the has the common law authority to enter into agreements with respect to the use of public lands; and

THIS AGREEMENT WITNESSES that in consideration of the terms and conditions set out herein and such other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged), the Ministry hereby grants Permission, as defined below, to the NWMO to use the Borehole Drilling Site for the purpose stated herein, and for no other purpose, subject to the following terms and conditions:

1. DEFINITIONS and GENERAL PROVISIONS

1.1 In the Agreement, words in the singular include the plural and vice-versa.

1.2 The headings in the Agreement are for convenience of reference only and do not form part of the Agreement and in no manner modify, interpret or construe the Agreement.

1.3 In the Agreement the following words shall have the following meanings:

"Agreement " means this Agreement including:
- Appendix A – Borehole Drilling Site Description
- Appendix B – Borehole Drilling Project Description and Conditions
- Appendix C – Crown Land Occupier’s Self Reporting Form
- Appendix D – Environmental Management Plan
“Borehole Drilling Site” means the lands specified in Appendix A on which the NWMO may conduct the Borehole Drilling Project;

“Borehole Drilling Project” means the technical and other activities described in more detail in Appendix B, necessary for the NWMO to determine whether the Borehole Drilling Site may be suitable for a long-term underground storage facility for Canada's nuclear fuel waste;

"Indemnified Parties" means each of the following and their directors, officers, advisors, agents, appointees and employees: Ontario and the members of the Executive Council of Ontario;

"Ontario" means Her Majesty the Queen in right of Ontario;

“Minister” means the Minister of Natural Resources and Forestry; and

“Permission” means the permission set out in Article 3.

2. MINISTER’S AUTHORITY AND SEVERABILITY
2.1 The Minister has entered this Agreement pursuant to both (a) the authority provided by subsection 2(2) of the Public Lands Act, and (b) the Minister’s common law executive authority to enter into agreements respecting the use of public land as a member a member of the Executive Council.

2.2 Each source of the Minister’s authority to enter into this Agreement may be separately relied upon; if any provision of this Agreement is determined by a court to be illegal or unenforceable on account of being outside either (a) the Minister’s authority under subsection 2(2) of the Public Lands Act, or (b) the Minister’s common law executive authority, the remaining provisions of this Agreement shall be severable and enforceable in accordance with their terms.

3. DESCRIPTION OF PROPERTY AND PERMISSION
3.1 The Ministry grants the NWMO Permission to enter and use the Borehole Drilling Site for the Borehole Drilling Project, subject to the terms and conditions of this Agreement.

3.2 This Agreement does not convey any right, title or interest in the Borehole Drilling Site, or in any trees standing growing or being thereon, or in any minerals, sand, gravel or similar materials, in, on or under the land.

4. TERM
4.1 The term of this Agreement shall be from the date signed below by the Minister’s Designated Representative to the fifth anniversary of that date (the “Term”).

5. BOREHOLE DRILLING PROJECT CONDITIONS
5.1 The NWMO shall carry out the Borehole Drilling Project in accordance with the terms and conditions of this Agreement, and specifically in accordance with Appendix B – Borehole Drilling Project Description and Conditions.

6. MINISTRY'S PROPERTY
6.1 The NWMO agrees to assume full responsibility for the care of the Borehole Drilling Site during the Term, and to assume all risk of loss, damage, or injury to itself, its servants, agents, employees or licensees.

7. RESPONSIBILITIES
7.1 The NWMO shall be responsible at its own cost and expense for all maintenance directly associated with its use of the Borehole Drilling Site, including, without limitation: janitorial services, garbage removal, access maintenance, snow removal and any necessary rehabilitation of the Borehole Drilling Site as further specified in Appendix B and Appendix D.
7.2 In addition to complying and fulfilling the conditions referred to in Article 7.1, on termination or expiry of this agreement, or as further specified in Appendix B and Appendix D, the NWMO shall remove the all improvements, property or other assets from the Borehole Drilling Site, and remove all garbage and debris that resulted from the NWMO's use of the Borehole Drilling Site during the Term, and leave the Borehole Drilling Site in a clean and safe condition, restored as much as possible to its pre-Borehole Drilling Project condition. NWMO will be required to submit a Crown Land Occupation: Occupiers' Self Reporting Form attached as Appendix C to this Agreement. The Ministry will permit the NWMO to access the Borehole Drilling Site for the purposes described above.

7.3 The NWMO shall be responsible for securing the Borehole Drilling Site and restricting public access to it as required to ensure public safety.

8. CONDITION OF THE BOREHOLE DRILLING SITE

8.1 The Ministry makes no representations as to the suitability of the Borehole Drilling Site for the Borehole Drilling Project, and the Parties agree that access to the Borehole Drilling Site and the quality of that access is the responsibility of the NWMO.

8.2 The Ministry shall not be responsible for any damage or loss to the Borehole Drilling Site arising from circumstances, acts or conditions beyond the Ministry's control, or due to "force majeure", which is defined as an act of God, war, invasion, revolution, insurrection or other act of a similar nature.

9. ENVIRONMENTAL DAMAGE

9.1 The NWMO will be solely responsible for any environmental damage or adverse effects to the Borehole Drilling Site and any environmental clean-up or rehabilitation that may be required as a specified in Appendix B or Appendix D. The NWMO is not responsible for:

a) any environmental damage to the Borehole Drilling Site caused by the previous occupation of the area of the Borehole Drilling Site by other persons, organizations, or the Ministry;

b) any environmental damage to the Borehole Drilling Site arising during the period covered by this Agreement, where such environmental damage is a consequence of pre-existing environmental damage from previous occupation, or was caused by the activities of the Ministry during the period of this agreement; and

c) any environmental damage to the Borehole Drilling Site caused by any other persons, organizations, or by the Ministry.

10. INDEMNIFICATION

10.1 The NWMO shall indemnify and hold harmless Her Majesty The Queen in right of Ontario and the members of the Executive Council of Her Majesty The Queen in right of Ontario and their directors, officers, advisors, appointees, employees and agents ("Indemnified Parties") from and against any and all liability, loss, costs, damages and expenses (including legal, expert and consulting fees), causes of action, actions, claims, demands, lawsuits and other proceedings by whomever made, sustained, incurred, brought or prosecuted arising out of or in connection with anything done or omitted to be done by NWMO, its subcontractors or their respective directors, officers, employees, agents, partners or affiliates in the course of carrying out any activities under or in connection with the Agreement.

11. INSURANCE

11.1 The NWMO shall obtain and maintain for the Term at its expense with insurers having a secure A.M. Best rating of B + or greater, or the equivalent, all the necessary and appropriate insurance that a prudent person in the business of NWMO would maintain including, commercial general liability insurance on an occurrence basis for third party bodily injury, personal injury and property damage,
to an inclusive limit of not less than $2 million Cdn. dollars per occurrence, $5 million Cdn. dollars products and completed operations aggregate, the policy to include the following endorsements:

- the Indemnified Parties as additional insureds with respect to liability arising out of the negligence of NWMO, its subcontractors or their respective directors, officers, agents, employees, partners, affiliates, volunteers or independent contractors
- contractual liability coverage
- cross-liability clause/severability of interest
- contingent employers liability coverage
- NWMO shall maintain or cause to be maintained employers liability coverage (or compliance with the section below entitled "Proof of W.S.I.A. Coverage" is required);
- sudden and accidental pollution (120h)
- coverage for each of the following operations, when part of the work:
  - shoring, blasting, excavation, underpinning, demolition, pile driving and caisson work, work below ground surface, tunnelling and grading.
- 30 day written notice of cancellation, termination or material change
- non-owned automobile coverage with contractual coverage for hired automobiles

11.2 If the NWMO or its subcontractors are subject to the Workplace Safety and Insurance Act, 1997, S.O. 1997, c. 16, Schedule A ("WSIA"), it shall submit a valid clearance certificate of WSIA coverage to the Ministry prior to the execution of the Agreement by the Ministry. In addition, the Vendor shall, from time to time at the request of the Ministry, provide additional WSIA clearance certificates. The Vendor covenants and agrees to pay when due, and to ensure that each of its Subcontractors pays when due, all amounts required to be paid by it/its Subcontractors, from time to time during the Term, under the WSIA, failing which the Ministry shall have the right, in addition to and not in substitution for any other right it may have pursuant to the Contract or otherwise at law or in equity, to pay to the Workplace Safety and Insurance Board any amount due pursuant to the WSIA and unpaid by the Vendor or its Subcontractors and to deduct such amount from any amount due and owing from time to time to the Vendor pursuant to the Contract together with all costs incurred by the Ministry in connection therewith.

11.3 NWMO shall obtain and maintain for the Term at its expense automobile liability insurance as per statutory requirement in Ontario and/or other jurisdictions, Ontario Automobile Policy (OAP 1) Owner’s Policy Sections 3 and 4, auto liability for a limit of not less than $2,000,000 (two million) dollars per occurrence including Accident Benefits, and where applicable Section 7, Loss or Damage Coverage.

11.4 Proof of Insurance - The Vendor shall provide the Ministry with certificates of insurance, or other proof as may be requested by the Ministry, that confirms the insurance coverage as provided for in Section 11.1, and renewal replacements on or before the expiry of any such insurance. Upon the request of the Ministry, a copy of each insurance policy shall be made available to it. The Vendor shall ensure that each of its Subcontractors obtains all the necessary and appropriate insurance that a prudent person in the business of the Subcontractor would maintain and that the Indemnified Parties are named as additional insureds with respect to any liability arising in the course of performance of the Subcontractor’s obligations under the subcontract for the provision of the deliverables.

12. OCCUPATIONAL HEALTH AND SAFETY
12.1 This Agreement is not a contract for work or services, and nothing in the Agreement shall have the effect of making the Ministry an employer of the NWMO or any of the NWMO’s directors, officers, employees, agents, partners, affiliates, volunteers or subcontractors for the purposes of the Ontario Occupational Health and Safety Act, R.S.O. 1990, Chapter O.1, as amended ("OHS Act"), or Part I of the Canada Labour Code, R.S.C.,1985,c.L-2, as amended, ("CLC").
12.2 NWMO shall meet all employer obligations and ensure that all work performed by or for NWMO in connection with the Agreement is carried out in accordance with the OHS Act and its regulations to the extent they apply to the Borehole Drilling Project.

12.3 NWMO shall take all reasonable precautions to meet and to ensure its subcontractors meet all requirements for the protection of workers set out in the OHS Act and CLC and the regulations made under those Acts as applicable. Any health and safety concerns or deficiencies identified by the Ministry’s Designated Representative must be addressed and corrected by NWMO immediately.

13. AMENDMENTS AND ASSIGNMENT
13.1 This Agreement may be amended only by written agreement duly executed by the Parties.

13.2 NWMO shall not assign this Agreement or any part thereof without the written consent of the Ministry. Such consent shall be in the sole discretion of the Ministry and subject to any terms and conditions that may be imposed by the Ministry.

14. ACCESS AND INSPECTION
14.1 The Ministry or the Ministry’s authorized representatives may enter and inspect the Borehole Drilling Project Site described in Appendix A at any time.

14.2 The NWMO representative who is in charge of the Borehole Drilling Project Site shall produce and show this Agreement to any Ministry Represented whenever requested by the Ministry.

15. TERMINATION
15.1 The Ministry may terminate this Agreement upon giving thirty (30) days’ Notice to NWMO upon giving thirty (30) days’ Notice to NWMO, or immediately upon the occurrence of an Event of Default.

15.2 Each of the following events will constitute an Event of Default:
   a) NWMO, prior to or after executing the Agreement, makes a material misrepresentation or omission or provides materially inaccurate information to the Ministry;
   b) there is a material change to the nature, size or scope of the Borehole Drilling Project;
   c) NWMO assigns the Agreement in whole or in part without first obtaining the written approval of the Ministry; or
   d) NWMO breaches any of its other obligations under the Agreement and fails to rectify the breach within thirty (30) days from the date the Ministry notifies NWMO of such breach.

15.3 NWMO may terminate this Agreement upon giving thirty (30) days’ Notice to the Ministry, but not prior to receiving a Notice from the Ministry that has determined NWMO has fulfilled all applicable obligations under the Agreement, such determination to be at the sole discretion of the Ministry.

16. NOTICE
16.1 Any Notice shall be
   a) in writing;
   b) delivered personally or by pre-paid courier, or sent by facsimile, certified or registered mail; and
   c) forwarded to the Designated Representative of the respective Party.
16.2 All Notices shall be effective:

a) at the time the delivery is made if the Notice is delivered personally, by pre-paid courier or by facsimile; or

b) five business days after the day the Notice was deposited in the mail if the Notice is sent by certified or registered mail,

unless the day the Notice is effective falls on a day when the NWMO or the Ministry is normally closed for business or the Notice is sent by facsimile after 5:00 p.m. on a business day, in which case the Notice shall not be effective until the next business day that the NWMO or the Ministry, as the case may be, is normally open for business.

17. DESIGNATED REPRESENTATIVES

17.1 It is agreed that the Ministry and NWMO may act through any designated representative for the purposes of this Agreement.

17.2 For the purposes of this Agreement, for the Ministry, the Designated Representative and address are:

Ray Boudreau
District Manager
Dryden District Ministry of Natural Resources and Forestry
479 Government Street
Dryden, Ontario
P8N 3KN

and, for the NWMO, the Designated Representative and address are:

Allan Webster
Director, Regulatory Affairs and Environmental Assessment
22 St. Clair Avenue East 6th Floor
Toronto, Ontario
M4T 2S3

17.3 Either Party, through its Designated Representative, may designate a different representative or provide a revised address, from time to time, by providing Notice in writing to the other Party.

18. GENERAL

18.1 This Agreement and the rights, obligations and relations of the Parties shall be governed by and construed in accordance with the laws of the Province of Ontario, and the federal laws of Canada applicable therein. Any litigation arising in connection with the Agreement shall be conducted in Ontario unless the Parties agree in writing otherwise.

18.2 Any failure by the Ministry to insist in one or more instances upon strict compliance by the NWMO with any of the terms or conditions of the Agreement shall not be construed as a waiver by the Ministry of its right to require compliance with any such terms or conditions and the obligations of the NWMO with respect to such compliance shall continue in full force and effect.

18.3 The NWMO shall have no power or authority to bind the Ministry or to assume or create any obligation or responsibility, express or implied, on the Ministry's behalf. The NWMO shall not hold itself out as an agent, partner or employee of the Ministry. Nothing in the Agreement shall have the effect of creating an employment, partnership, or agency relationship between the Ministry and the NWMO.
19. SURVIVAL
19.1 The following Articles and sections, and all applicable cross-referenced sections and appendices, will continue in full force and effect for a period of seven years from the date of expiry or termination of the Agreement: Articles 1.1, 7.2, 9.1, 10.1 18.1, 19.1 of the Agreement, and Sections 8 and 13 of Schedule B.
IN WITNESS WHEREOF this Agreement has been executed by this 26th day of NOV. 2018, by,

For Her Majesty the Queen in Right of Ontario as represented by the Minister.

Name: Ray Bordonaro
District Manager
Date: NOV 26/18

For Nuclear Waste Management Organization

Name: A. Webby
Date: OCT 25, 2018
APPENDIX A – BOREHOLE DRILLING SITE DESCRIPTION

This Borehole Drilling Site Description is taken from the "MNRF Ignace Borehole Drilling Project Submission" received by the MNRF from the NWMO on November 21st, 2017.

The borehole locations are planned for: EASTING & NORTHING (UTM Zone 15N, NAD 83):

<table>
<thead>
<tr>
<th>BOREHOLE</th>
<th>EASTING</th>
<th>NORTHING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ignace BH2</td>
<td>554047</td>
<td>5483954</td>
</tr>
<tr>
<td>Ignace BH3</td>
<td>556167</td>
<td>5484572</td>
</tr>
</tbody>
</table>

The borehole locations are on the Revell batholith, approximately 5 Km northeast of Mennin Lake, 41 Km northwest of the Municipality of Ignace, 20 Km southeast of Wabigoon Lake Ojibway Nation, and 63 Km southeast of Dryden.

Figure 1 shows the approximate location of Boreholes 2 and 3 in the context of the Ignace region.

Figures 2 and 3 show the approximate locations of the fenced drill site area (yellow rectangle) and borehole locations (purple marker) for Boreholes 2 and 3.
Figure 1: Approximate location of Boreholes (BH) 2 and 3 (also showing BH 1 location) in the Ignace area in the Revell Batholith.
Figure 2: Approximate Borehole 2 Location – yellow rectangle represents the fenced drill site location (0.9 acre), purple marker indicates approximate location of Borehole 2.

Figure 3: Approximate Borehole 3 Location – yellow rectangle represents the fenced drill site location (0.9 acre), purple marker indicates approximate location of Borehole 3.
APPENDIX B – BOREHOLE DRILLING PROJECT DESCRIPTION AND CONDITIONS

Borehole Drilling Activities:

1. Construction of permanent and temporary structures

For the planned drilling work, no permanent structures are planned. Temporary structures shall be brought to each Borehole Drilling Site (or “Site”) and setup on the drill locations. These structures will include various sizes of trailers that will serve as offices, storage and work areas.

All drilling, power generation equipment and fuel storage areas shall be setup atop of spill containment structures. This is to provide additional spill protection in the event of an accidental spill or equipment failure.

2. Construction of, or improvements to, infrastructure such as accesses roads or trails, water crossings, including design specifications, methods, equipment, and materials to be used.

a) Site Access

Access routes will be developed to access the Borehole 2 and 3 Sites. The planned access routes (see Section 5; Figure 4 below) have been identified based on using existing road access as far as possible and minimizing the need to cross water features. The access routes shall follow contours to minimize steep grades, be cleared of trees and vegetation and prepared to allow drainage with minimum erosion from rain events and spring thaw.

Figure 4: Planned route for borehole access roads
As required, crushed aggregate will be placed to provide a stable running surface for vehicle access. Harvestable trees will be cut and cleared from the road, all other vegetation will be brushed and piled separately.

Equipment to be used is likely to include skid steer or similar, bull dozer, chainsaws, trucks to remove tress and deliver aggregate and small miscellaneous tools.

In general, road construction shall be performed as per the guidelines for those involved with building access roads on Crown land in Ontario "Environmental Guidelines For Access Roads and Water Crossings" (the "Water Crossing Guidelines"). The Water Crossing Guidelines shall be followed to address impacts from road construction including water crossings, and erosion and sedimentation during in water work as well as from soil erosion on slopes as described in MNRF Ignace Borehole Drilling Project Submission Appendix B – Example of Potential effects and mitigation Measures table, on pages 32, 34, 35 and 36.

The following minor road maintenance activities may occur without subsequent permission from MNRF.

- Water crossing cleaning for the purpose of maintaining the flow of water.
- Grading of existing trails or roads.
- Clearing of existing ditches.
- Graveling of existing trails or roads.
- Clearing or brushing of existing road or trail surface.
- Snow plowing.
- Sanding or dust control.
- Repair or replacement of posted signage.

Any proposed road maintenance and construction activities that are not listed in the above provisions, and which has not been authorized through this agreement, will require additional permission from the MNRF prior to commencement.

b) Site Establishment

The pads for drill locations at Borehole Drilling Sites 2 and 3 (approximately 3500 m² per Site or 0.9 acre) shall each be prepared using aggregate sourced from a local supplier. The aggregate shall be spread using a skid steer or similar equipment and compacted using a small compacting roller. It is planned to fence each Borehole Drilling Site with an 8' high fence. This is to prevent wildlife from entering the sites and to limit Site spread.

Equipment used during Site establishment will likely include trucks for towing in the trailers, drilling support equipment and possibly the drill rig (may also be self-propelled), a small mobile crane to remove equipment from the transport trailers and place into final location (if required), pickup trucks and small equipment such as a skid steer.

It is planned to have longer term land use (for a period of up to 5 years) at the Sites, required to support the monitoring equipment and a quarterly sampling program, as described in condition 10. The equipment will be installed as part of each Borehole Drilling Project. The instruments measure water temperature and pressure in discrete sections down the borehole.

c) Site Utilities

The Sites will operate diesel powered generators to provide the electrical power needed support the planned work activities. Power will be for offices, core logging activities, lighting, portable ablation facilities, yard lighting, etc.

Potable and process water will be brought to the Sites.
Designated waste disposal bins shall be setup on the Sites for the collection of all garbage generated during the work program. The garbage bins shall be removed from each Site and taken to a licensed disposal facility located at the nearest town (Dryden or Ignace).

3. Hazardous materials

Hazardous materials shall be stored according to regulated requirements. As required, and at the end of the planned work, hazardous waste shall be removed from each Site and disposed of at a licensed disposal facility. Hazardous materials are likely to be limited to diesel and gasoline fuel, hydraulic fluid, grease and oil.

4. Equipment fueling activities, including planned location for re-fueling and any fuel storage on Site

Due to the remote nature of the work locations, all fuel for equipment and tools shall be brought to the Sites in a certified fuel transportation container and transferred to certified fuel storage containers. These containers shall be double walled and stored in a dedicated fuel storage location with additional containment.

Fueling of large equipment will be done at the equipment e.g. the drill rig and power generator. This equipment will be positioned atop of containment. Where required, temporary spill trays shall be placed beneath the refueling point to capture any leaks of fuel during the refueling activities e.g. when refueling small equipment such as a skid steer or pickup truck. Refueling of small tools e.g. a chainsaw, shall be performed in a designated refueling area or atop of a spill tray. Fuel storage and refueling areas shall be set away from temporary offices and drilling equipment.

Hand held fire extinguishers and spill kits shall be located at the fuel storage and refueling locations.

5. Vegetation and ground clearing activities, including equipment and methods to be used and the location and size of area(s) to be cleared

Prior to the start of any work the Lead Contractor and NWMO shall work with the MNRF representative to visit the Sites and review the planned work so as to minimize the required ground clearing for access and site establishment.

The Sites indicated in Figures 2 and 3 have been chosen based on the technical needs of the Borehole Drilling Projects. They have been located in relatively level areas. The Sites will be cleared of trees and brush. The non-harvestable material (soil, saplings, and debris) shall be pushed to a suitably agreed area where it shall be piled and left at the end of the drilling activity.

6. Purchase of forest resources

a. Definitions: For the purposes of this section, the following terms have the following meanings:

“Harvest” means the cutting, clearing, removal, or similar activity related to Forestry Resources;

“Forest Resources” means any Merchantable Timber located at the Borehole Drilling Site;

“Merchantable Timber” means merchantable timber as defined and described in the Sca ing Manual;
“Ontario Stumpage Matrix” means the matrix of charges set and changed from
time-to-time by the Minister, and made publicly available on a Ministry
webpage;

“Rates” means the rates at which NWMO will pay for Forestry Resources and
described in sub-condition (d) below;

“Scale” means to measure Forest Resources in accordance with the Scaling
Manual; and

“Scaling Manual” means the Scaling Manual made by the Ministry under ss.
68(1)4 of the Crown Forest Sustainability Act, 1994.

b. Purchase: NWMO agrees to purchase, in accordance with the conditions of this section,
any Forest Resources Harvested from the Borehole Drilling Site under the authority of
this Permission Agreement.

c. Scaling: NWMO agrees:
   i. all Harvested Forest Resources shall be Scaled by either: (a) a staff member of or
person designated by the Ministry, or (b) a person approved by the Ministry and
who is licensed under the Scaling Manual;
   ii. Scaling shall occur at a location designated or approved by the Ministry;
   iii. Subject to condition (d) immediately below, Forest Resources shall not be moved
from the Borehole Drilling Site until so approved by the Ministry;
   iv. the person who Scales Forest Resource shall submit a tally sheet recording the
measurement of the Forest Resources to the Ministry; and
   v. to provide the Ministry with any information the Ministry requests regarding the
Scaling.
   vi. The Company agrees to submit by the 15th each month to the Ministry all scale
tally sheets for all Crown forest resources measured in the previous month.

d. Availability and Delivery of Scaled Forest Resources: NWMO agrees:
   i. to pile all Forest Resources separately by product/end destination at road side in
an orderly manner that enables scaling;
   ii. to contact the Ministry in relation to section C (i) of this agreement prior to
undertaking scaling activities;
   iii. to scale all wood prior to modification (e.g. chipping );
   iv. scaled wood may either be delivered to a forest resource processing facility or be
left on site and made available for public use for a period of no more than 180
days after harvest;
   v. to provide the name of the destination facility prior to the movement of
harvested Forest Resources;
   vi. to remove any harvested wood remaining on site after 180 days; and
vii. to provide the Ministry with any information the Ministry requests regarding the movement, reporting and payment of harvested wood.

e. **Rates of Payment:** NWMO agrees to pay for each cubic metre of Forest Resources Harvested, the Rates listed below as set by the Minister and adjusted from time-to-time in the Ontario Stumpage Matrix, as applicable to the Forest Resources on the date they are Scaled:
   - Minimum Rate
   - Forest Renewal Rate
   - Forestry Futures Rate
   - Residual Rate

f. **Invoicing:** the Ministry will calculate the amount owed by NWMO with respect to Scaled Forest Resources at applicable Rates based on the tally sheets submitted by scaler(s) pursuant to sub-condition (c) iii above, and will forward invoices reflecting the amount to NWMO for payment on a monthly basis.

g. **Payment:** NWMO agrees to pay the amounts specified on the invoice by the date and to the address specified on the invoice.

7. **The planned activities to be performed once the Sites are established include:**

   a) **Drilling and coring** – A drill rig will be setup to drill and core HQ3 (96 mm (3-3/8 in)) holes to maximum depths of 1000 m each. Included in the drilling setup will be the installation of conductor casing which will be bedded to a depth of 1 m below bedrock (casing length will be based on overburden depth). Drilling fluids and cuttings will be managed at surface and recirculated. Drilling fluids shall be traced using a combination of naturally occurring water isotopes (oxygen, deuterium and tritium) and a fluorescent tracer.

   Field measurements shall be made regularly in order to maintain consistent drill fluid properties and to identify any component of drilling fluid in the groundwater and pore water samples.

   b) **Core logging** – All core retrieved will be logged, photographed and sampled on Site and stored in core boxes. Some core samples will be taken and shipped off-Site for laboratory testing. The core boxes, with the remaining core, shall be removed from the Site and stored in the interim core storage facility located in Ignace. All core will be logged and labelled for traceability.

   c) **Geophysical well logging** – the well will be logged using industry-standard geophysical equipment that will be lowered down into the drilled hole. At the completion of each activity, the equipment shall be retrieved from the hole. All regulatory requirements for transporting, handling and removing the equipment shall be followed.

   d) **Hydraulic testing** – A straddle packer system and accompanying equipment will be used to perform the hydraulic testing to determine the hydraulic conductivity of the rock at regular intervals down the borehole. The test locations will be based on the information gained from the geophysical well logging and core logging activities.

   e) **Groundwater sampling and testing** – If permeable zones are detected during the drilling and coring activities, samples of water from those areas will be collected, prepared for testing and shipped out for further laboratory analysis.
f) **Well sealing** – At this time, it is planned that the boreholes will be instrumented for additional monitoring. Based on the results from the planned program, there may be a decision to abandon a borehole. If a borehole is abandoned, it shall be temporarily sealed at surface and between zones that have differing hydraulic pressures or ground water chemistry (if any are identified). The current plan includes instrumenting the wells to perform longer term data collection (see details in MNRF **Ignace Borehole Drilling Project Submission** Section 2 b) Site Establishment above). If longer term data collection is not required, the well shall be permanently sealed and abandoned according to provincial regulations.

y) **Site operation** - The Sites will operate on a 24/7 basis during drilling and certain testing operations. Workers will access the work Sites on a daily basis as required for their working shift. The number of workers at each Site will vary from 1 to an expected maximum of 15 per shift over the course of the work program. NWMO personnel and authorized visitors may be periodically at the Sites. Workers will drive to and from the work Sites.

**8. Decommissioning and clean-up of the Borehole Drilling Sites**

At the end of the drilling and testing program all equipment and materials shall be removed from the Sites (excluding long-term bore hole monitoring instruments). There will be a need to request retaining the access routes and some of the prepared pad. This is required to allow for access to the Sites to take water samples, download data from downhole instruments and service equipment as required. In the event of a contaminant spill, the spill shall be cleaned up according to the requirements of the contractor’s Environmental Management Plan and the satisfaction of the regulating authority. Site rehabilitation shall include forest regeneration, as required by the MNRF.

**9. Schedule**

The work is planned to begin upon commencement of the Term of the Permission Agreement, (site establishment and Borehole Two and Three drilling and testing) with monitoring continuing for up to 5 years after installation of the borehole instrumentation. The timing of the initiation of the work could be impacted by social engagement considerations.

**10. Alternate drilling locations**

Sites have been reviewed based on project requirements. Due to the nature of the target area all Sites and access routes require clearing of trees and vegetation. Target areas have been located on the most level ground, away from water bodies and least likely to cause erosion during heavy rain events and spring melts. Within the target areas drill locations and road access options were reviewed to check for possible environmental sensitivities.

**Longer Term Land Use:**

**11. Site requirements for longer term land use:**

a. **Retain the drill pad from the drilling program** – required when equipment and personnel access the Site to collect water samples, take pressure measurements and maintenance of the system if required. See Figure 4.
b. **Add a 3m x 3m x 0.1m thick concrete pad around the well head.** The pad provides a stable base for the enclosure and the setup of the test equipment required during the sampling event – See Figure 4.
c. **A protective enclosure approximately 1.2m x 1.2m x 1.2m.** See Figures 5, 6 and 7. The enclosure protects the external instruments and monitoring connections.
d. **Retain the gated fence to restrict access from public and wildlife.**
e. **Signage and contact numbers**
Figure 5: Example of an enclosure placed atop of an instrumented well head.
Figure 6: Example of concrete pad with well head enclosure and temporary test equipment.
Figure 7: Example of well head enclosure and temporary test equipment.

12. Quarterly sampling program

The quarterly sampling program requires access to the Site for a pickup truck and trailer. The trailer, containing the test and sampling equipment, is positioned at the borehole. The sampling tripod and winch are setup over the well head and water samples are collected from the isolated sections within the well. The collected water samples are bottled, labeled and prepared for dispatching to an accredited laboratory for analysis. The total volume of water removed from the well is less than 5 liters.
The sampling team, consisting of two people, mobilises to and from the Site each day for a total of 2-3 days. All required materials, tools and equipment are brought to the site for the work are removed at the end of the program.

During the winter sampling event it is expected that a local contractor will be hired to clear the access route and the Site of snow.

The data collected from the instrumentation and the results of the water sample analysis are key inputs to the ground water model and the baseline environmental monitoring program.

**Conditions:**

13. Culvert sizing for water crossing locations 1 & 2 for the preferred option to meet Q25 flood flows are as follows:
   a. WC 1 requires a 500mm pipe
   b. WC 2 requires an 800mm pipe
   c. No timing restriction would be applied to these crossings

14. Constructed roads no longer required to support the NWMO Borehole project requirements must be decommissioned as per guidelines contained within the Water Crossing Guidelines.

15. NWMO is responsible for ensuring that proposed and planned activities do not harm, harass, or kill species protected by the *Endangered Species Act, 2007* ("Species at Risk"), or damage or destroy their habitats. Where NWMO detects the presence of a Species at Risk or its habitat that could be impacted by the project, NWMO shall contact the Ministry’s Designated Representative.

16. All infrastructure and equipment shall be removed from the Sites and any area around the Sites after operations cease. NWMO shall ensure that all waste is removed routinely from the Sites to prevent...
scavenging and spread by wildlife. Fencing around the Sites shall be kept in orderly condition while in
place, and removed from the Sites when no longer required. All equipment to be kept in serviceable
condition to prevent fuel spills at the Sites.

APPENDIX C - Crown Land Use Occupation –
Occupier Self-Reporting Form
Occupation des terres de la Couronne –
Auto vérification par l’occupant(e)

Instructions: 1) Confirm location and use of improvements shown on the attached site plan by initialing the
improvements and or identifying and initialing changes.
2) Complete all applicable sections
3) Sign and date the declaration
4) Return signed form complete with photographs to:
Instructions: 1) Pour confirmer l’emplacement et l’utilisation des améliorations indiquées sur le plan ci-joint, veuillez
ecrire vos initiales sur les améliorations et, au besoin, en indiquant d’abord les améliorations.
2) Remplir toutes les sections applicables
3) Signer et dater la déclaration
4) Retourner le formulaire signé avec les photos à

Note: all photographs must be signed and dated on reverse by the authorized occupier
Remarque: toutes les photos doivent porter la signature de l’occupant(e) autorisé(e) et la date au verso.

Form of Authorization:
Formulaire d’autorisation :

Location:
Lieu :

Occupier:
Occupant(e) :

Occupier Mailing Address:
Adresse postale de l’occupant(e) :

Street
Rue :

Apt:
Appart. :

City/Town:
Ville/village :

Postal Code:
Code postal :

Site Plan – attached (as provided by MNR)
Plan des lieux ci-joint (conforme au plan du MRN)

Authorized Use(s):
Utilisation(s) autorisée(s) :

Solid waste disposal – approved waste disposal site ☐, located
Évacuation des déchets solides – lieu d’enfouissement approuvé ☐, reconnu

Sewage disposal – approved septic system ☐ Class
Évacuation des eaux usées – fosse septique approuvée ☐ Catégorie

Fuel storage facilities – approved system ☐ Type of system
Installation d’entreposage de combustible – système approuvé ☐ Type de système

Attach colour photographs covering the following views:
Joindre des photos en couleur représentant:

☐ waterfront viewed from the water body (where applicable)
☐ le rivage vu de l'eau (le cas échéant)

☐ all structures
☐ toutes les structures

☐ other -
☐ autre -

I hereby certify that the information is true and complete and the attached photographs accurately depict the location authorized by as of, 20.

Je certifie par les présentes que ces renseignements sont justes et complets et que les photos ci-jointes représentent précisément le lieu relevant du en date du 20 .

<table>
<thead>
<tr>
<th>Name of Occupier</th>
<th>Signature of Occupier</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nom de l'occupant(e)</td>
<td>Signature de l'occupant(e)</td>
<td>Date</td>
</tr>
</tbody>
</table>

Personal information on this form is collected under the authority of the Public Lands Act, R.S.O. 1990 and Ontario Regulation 973 as amended. The information will be used for the purposes of the Act and the regulation. Questions about this information should be directed to the local MNR office at the above note address.

APPENDIX D – ENVIRONMENTAL MANAGEMENT PLAN

The Environmental Management Plan for the Ignace BH02 and BH03 is a separate document received from NWMO on October 9, 2018. NWMO will provide updated figures for the topography drawing for surface water flow and the site equipment lay-out once they have completed the access roads and pad areas and before commencing drilling.

August 2018

PHASE 2 INITIAL BOREHOLE DRILLING AND TESTING - IGNACE AREA

Environmental Management Plan

Submitted to:
Nuclear Waste Management Organization
6th Floor
22 St. Clair Avenue East
Toronto, Ontario, M4T 2S3

Report Number: 1671632
Distribution:
e-copy - NWMO
e-copy - Golder Associates
e-copy - Roden Drilling
e-copy - Taranis Contracting
e-copy - Rico Trucking