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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

**File No: 8WLC-MEA2526**

June 17, 2025

Brian Glass  
Deployable Automation Technologies Group  
NASA Ames Research Center  
Moffett Field, CA 94035, USA

Email: [brian.glass@nasa.gov](mailto:brian.glass@nasa.gov)

**Subject: 8WLC-MEA2526 – Approval for the Use of Waters and Deposit of Waste Without a Licence**

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Dear Brian Glass:

Please find attached Approval No: 8WLC-MEA2526 issued to NASA Ames Research Center by the Nunavut Water Board (NWB or Board) pursuant to its authority under Article 13 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada (Nunavut Agreement)*. The Approval has been authorized for a period of one (1) year after the day on which the Board approves the Application and includes conditions related to the use of Waters and deposit of Waste, which are an integral part of this Approval required for this type of authorization under the *Nunavut Waters Regulations (NWR or Regulations)*.

This approval and the conditions contained therein permit the carrying out of activities involving the use of Waters and deposit of Waste with respect to the Application for approval. Any variation from these activities may result in a violation of this Approval and contravention of the *Nunavut Agreement*, the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWSRTA)* or the *NWR*. The NWB would like to remind the Applicant of the obligations with respect to the reclamation and reporting requirements of the Approval, which will arise as this Approval approaches its expiry.

If the activities authorized under the Approval are expected to continue longer than the term authorized, it is recommended that the Applicant, upon receipt of confirmation<sup>1</sup> from the Nunavut Planning Commission (NPC) and/or the Nunavut Impact Review Board (NIRB) that relevant requirements have been satisfied, apply for a new Approval at least thirty (30) days prior to the expiry of the current authorization. Note that if the existing Approval expires before the NWB

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<sup>1</sup>NPC and NIRB Requirements under *NuPPAA*.

issues a new Approval, the use of Waters and/or deposit of Waste must cease as required by the *Nunavut Agreement* and the *NWNSRTA*.

If the Applicant contemplates changes to its undertaking involving a change in scope or increased activity, a water licence may be required. It is the Applicant's responsibility to apply to the NWB for a water licence in accordance with the timelines set out for licences.

This Approval has been posted to the NWB's Public Registry and is accessible from the following link:

<https://public.nwb-oen.ca/registry/8%20MISCELLANEOUS/8WL/8WLC%20-%20Camp/8WLC-MEA2526%20NASA%20Ames%20Research%20Center/>

Sincerely,

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Lootie Toomasie  
Nunavut Water Board  
Chair

LT/ns/rh

Enclosure: Approval No: 8WLC-MEA2526

cc. Qikiqtani Region



## NUNAVUT WATER BOARD APPROVAL WITHOUT A LICENCE

### APPROVAL DECISION

**APPROVAL NO: 8WLC-MEA2526**

This is the decision of the Nunavut Water Board (NWB or Board) with respect to an application for Approval for the use of Waters and deposit of Waste without a licence, dated 02/20/2025, made by:

#### NASA AMES RESEARCH CENTER

to authorize the use of Waters and deposit of Waste during camp activities associated with research at the Mars Exploration through Analog-site Drilling project, located within the Qikiqtani Region, Nunavut and within Watershed of Eastern Devon Island Watershed (57), generally at the following geographical coordinates:

Project extents:      Max Latitude: 75° 30' 0" N      Max Longitude: 89° 59' 6" W  
Min Latitude: 75° 17' 60" N      Min Longitude: 89° 24' 25.20" W

Camp:      Latitude: 75° 22' 15.60" N      Longitude: 89° 32' 24" W

### DECISION

The application is for a proposal that conforms to the North Baffin Regional Land Use Plan (NBRLUP) as per the Nunavut Planning Commission (NPC)<sup>2</sup> and requires screening by the Nunavut Impact Review Board (NIRB) because it does not belong to a class of exempt works or activities set out in Schedule 12-1 of the *Nunavut Agreement*. After having received a confirmation from NIRB<sup>3</sup> that a review is not required subject to the terms and conditions recommended by the NIRB's Screening Decision Report in accordance with Article 12 of the *Nunavut Agreement* and s.89, 92(1)(a) and 92(2)(a) of *Nunavut Planning and Project Assessment Act (NuPPAA)*, subject to specific terms and conditions, the Board is satisfied that the requirements of Articles 11 and 12 of the *Nunavut Agreement* and sections 3, 4 and 5 of the *Nunavut Waters Regulations (NWR or Regulations)* have been adequately addressed. In addition, through the provision of a signed Application for an Approval Without a Licence, the Applicant has agreed to adhere to sections 4(3), 5(4), 5(5) and 6 of the *Regulations* and to comply with the associated requirements. The NWB determined that:

**Approval No: 8WLC-MEA2526 be issued, subject to the conditions of Schedule 1 contained therein (Motion # 2025-WL-010).**

SIGNED this 17<sup>th</sup> day of JUNE, 2025 at Gjoa Haven, NU.

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Lootie Toomasie  
Nunavut Water Board  
Chair

LT/ns/rh

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<sup>2</sup> NPC Conformity Determination dated March 20, 2025.

<sup>3</sup> NIRB Screening Decision dated May 30, 2025.



**NUNAVUT WATER BOARD  
APPROVAL WITHOUT A LICENCE**

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**APPROVAL NO: 8WLC-MEA2526**

Pursuant to the *Nunavut Waters Regulations*, *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada*, the Nunavut Water Board hereinafter referred to as the Board, hereby grants to

**NASA AMES RESEARCH CENTER**

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of

**DEPLOYABLE AUTOMATION TECHNOLOGIES GROUP, NASA AMES RESEARCH  
CENTER, MOFFETT FIELD, CA 94035, USA**

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Hereinafter called the Applicant, the right to use Waters and deposit of Waste for a period of one (1) year after the day on which the Board approved the Application or the Effect date, subject to the conditions contained in Schedule 1 attached to this Approval:

Project Name: **MARS EXPLORATION THROUGH ANALOG SITE  
DRILLING (MEAD)**

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Location: **QIKIQTANI REGION, NUNAVUT**

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Water Management Area: **EASTERN DEVON ISLAND WATERSHED (57)**

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Classification of  
Undertaking: **8. OTHER UNDERTAKING**

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Purpose: **USE OF WATERS AND DEPOSIT OF WASTE**

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Approval Criteria: **TOTAL WATER USE ONE (1) CUBIC METRE PER DAY,  
DEPOSIT OF SEWAGE**

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Effect Date: **JUNE 17, 2025**

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Expiry of Approval: **JUNE 16, 2026**

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Dated this 17<sup>th</sup> day of June, 2025, at Gjoa Haven, NU

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Nunavut Water Board  
Chair



## SCHEDULE 1 (Cont.)

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### General

1. In the case of an Applicant who has a mineral right and who intends to use Waters or deposit Waste in relation to that right, the Applicant shall respect the priority conferred on Inuit by section 62 of the *Act* as if that applicant had a licence for the use or deposit.

### Use of Waters

2. The Applicant shall take measures prior to the use of Waters to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.

### Deposit of Waste

3. The Applicant shall not deposit Waste to surface water or within thirty-one (31) metres of the ordinary High Water Mark of any water body.
4. The Waste must not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.
5. All other than Sewage Waste must be backhauled and disposed of at an approved Waste disposal facility.

### Spill Contingency

6. Measures to deal with unforeseen petroleum and hazardous materials releases that may occur during the activities conducted under the authorization to use Waters and/or deposit Waste without a licence, including:
  - a. all Sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary High Water Mark of any adjacent water body and inspected on a regular basis;
  - b. prevent any chemicals, petroleum products or Wastes associated with the project from entering water;
  - c. report spills immediately to the NWT/NU 24-Hour Spill Line at [\(867\) 920-8130](tel:867-920-8130) and to the Inspector at [\(867\) 975-4284](tel:867-975-4284);
  - d. for each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include reference to the assigned spill number, the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site; and
  - e. in addition to Item 6(c), regardless of the quantity of releases of harmful substances, report to the NWT/NU 24-Hour Spill Line if the release is near or into a water body.



## SCHEDULE 1 (Cont.)

### Abandonment and Restoration

7. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of Waters or deposit of Waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the use of Waters or the deposit of Waste.<sup>a</sup>

### Record Keeping

8. The Applicant shall:
- maintain accurate and detailed books and records of:
    - the quantity of Water, in cubic metres, used each day,
    - the quantity, in cubic metres, of Waste deposited each day,
    - where the Waste is deposited including GPS coordinates in Latitude and Longitude,
    - the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit of Waste,
    - the methodology used to calculate or determine the information referred to in items (i) to (v), and
    - the measures that were taken to avoid or mitigate any adverse impacts of the deposit of Waste.
  - keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
  - submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within thirty (30) days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the unlicensed use or deposit;<sup>b</sup> and
  - keep the books and records for two years after submitting the report describing the restoration of the site and undertakings.

### Notes:

- A site need not be restored prior to the end of the period authorized for the use of Water or the deposit of Waste without a licence, as required by Item 7, if the Board issues a licence for the use of Water or deposit of Waste for the same undertaking on same site prior to the end of that period.
- The Applicant need not submit the report referred to in Item 8(c) if the Applicant obtains a new approval authorizing a use of Water or deposit of Waste without a licence, or a licence authorizing a use of Water or deposit of Waste for the same undertaking on the same site within thirty (30) days after the last day of the period previously authorized.