

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

|                                                                                                                                                                                                                                                                                                                                                   |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Licensee                                                                                                                                                                                                                                                                                                                                          | Licensee Representative    |
| Mars Society                                                                                                                                                                                                                                                                                                                                      | Shannon Rupert             |
| Licence No. / Expiry                                                                                                                                                                                                                                                                                                                              | Representative's Title     |
| 3BC-MAR1014                                                                                                                                                                                                                                                                                                                                       | Director                   |
| Land / Other Authorizations                                                                                                                                                                                                                                                                                                                       | Land / Other Auhorizations |
| N2012N0018                                                                                                                                                                                                                                                                                                                                        |                            |
| Date of Inspection                                                                                                                                                                                                                                                                                                                                | Inspector                  |
| July 5, 2022                                                                                                                                                                                                                                                                                                                                      | Joseph Monteith            |
| Activities Inspected                                                                                                                                                                                                                                                                                                                              |                            |
| <div><input type="checkbox"/> Camp<input type="checkbox"/> Drilling<input type="checkbox"/> Mining<input type="checkbox"/> Construction<input checked="" type="checkbox"/> Reclamation<input type="checkbox"/> Fuel Storage</div> <div><input type="checkbox"/> Roads/Hauling<input type="checkbox"/> Other:<input type="checkbox"/> Other:</div> |                            |

|                                                                                                                                                        |               |                                                                               |           |                  |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|-----------|------------------|--------------------|
| Conditions:                                                                                                                                            | A- Acceptable | U-Unacceptable                                                                | C-Concern | NI-Not Inspected | NA- Not applicable |
| PART:                                                                                                                                                  |               |                                                                               | Condition | Observation No.* |                    |
| A: SCOPE, DEFINITIONS AND ENFORCEMENT                                                                                                                  |               |                                                                               | A         |                  |                    |
| B: GENERAL CONDITIONS                                                                                                                                  |               |                                                                               | A         |                  |                    |
| C: CONDITIONS APPLYING TO SECURITY                                                                                                                     |               |                                                                               | NI        |                  |                    |
| D: CONDITIONS APPLYING TO WATER USE                                                                                                                    |               |                                                                               | A         | 1,2              |                    |
| E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT                                                                                                |               |                                                                               | A         | 3-5              |                    |
| F: CONDITIONS APPLYING TO MODIFICATIONS                                                                                                                |               |                                                                               | A         |                  |                    |
| G: CONDITIONS APPLYING TO CONSTRUCTION                                                                                                                 |               |                                                                               | A         |                  |                    |
| H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING                                                                                  |               |                                                                               | A         |                  |                    |
| I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING                                                                                |               |                                                                               | A         | 6,7,8,9          |                    |
| J: CONDITIONS APPLYING TO MONITORING                                                                                                                   |               |                                                                               | NI        |                  |                    |
| SCHEDULES                                                                                                                                              |               |                                                                               | A         |                  |                    |
| *The item number corresponds with specific conditions within the licence and the observation number corresponds with specific comments provided below. |               |                                                                               |           |                  |                    |
| Samples taken by Inspector:                                                                                                                            |               | Location(s):                                                                  |           |                  |                    |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                    |               | <ul style="list-style-type: none"><li>N75° 25' 52.9" W89° 49' 24.5"</li></ul> |           |                  |                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
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| Background                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <p>The Mars Society is an international society dedicated to the furthering the human exploration and settlement of the Planet Mars. In July 2000, the Mars Society established a research facility at the Haughton impact crater site on Devon Island, Nunavut, called the “Flash line Mars Arctic Research Station” (FMARS). The station is situated on Haynes Ridge, overlooking the Haughton impact crater, a 23 kilometer (14 mi) diameter crater formed approximately 39 million years ago.</p> <p>Mars Society established 2 camps sites at Geographical Coordinates (Camp name-GPS):</p> <ul style="list-style-type: none"><li>FMARS-N75° 25' 52.9" W89° 49' 24.5"</li><li>Water supply support tent -N75° 25' 53.0" W89° 49' 27.0"</li></ul> <p>The Mars Society was issued 8WLC-1718 on June 5, 2017 for the purpose of use of water and deposit of waste. Mars Society was authorized withdrawal 1m<sup>3</sup> of water per day. Mars Society let their authorization expire on June 4, 2018.</p> <p><b>Inspector Statement</b></p> <p>On July 5, 2022, a Water License inspection by Aerial Survey was conducted by Water Resource Officer(WRO) Joseph Monteith at the sites where 3BC-MAR1014 were located on Devon Island, NU.</p> <p><b>Water Use</b></p> <ol style="list-style-type: none"><li>No signs of water use, equipment or disturbances.</li><li>No observation of Water Supply Tent at N75° 25' 53.0" W89° 49' 27.0". No signs of water withdrawal, no signs of disturbance to fish bearing waters.</li></ol> <p><b>Waste</b></p> <ol style="list-style-type: none"><li>No signs of sump pit</li><li>No signs of spills</li></ol> |  |

5. Spill Kit observed onsite
- Reclamation
6. FMARS Structure still occupying site.

7. Fuel Cache observed on site. Spill Kit observed

8. Boxes of supplies observed on site

9. Waste Oil drums observed on site

SECTION 1

☒ Comments

☐ Non-Compliance with Act or Licence

☒ Action Required

Due to the expiry of the water license, remove all structures and equipment or re apply for a new water license.

SECTION 2

☐ Comments

☒ Non-Compliance with Act or Licence

☐ Action Required

**8WLC-LHA1718 Terms and Conditions -Schedule 1- Abandonment and Restoration**

*6. 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.a*

**Nunavut Waters and Nunavut Surface Rights Tribunal Act**

*Prohibitions*

**Use of waters**

*11 (1) Subject to subsection (2), no person shall use, or permit the use of, waters in Nunavut except in accordance with the conditions of a licence.*

**Deposit of waste**

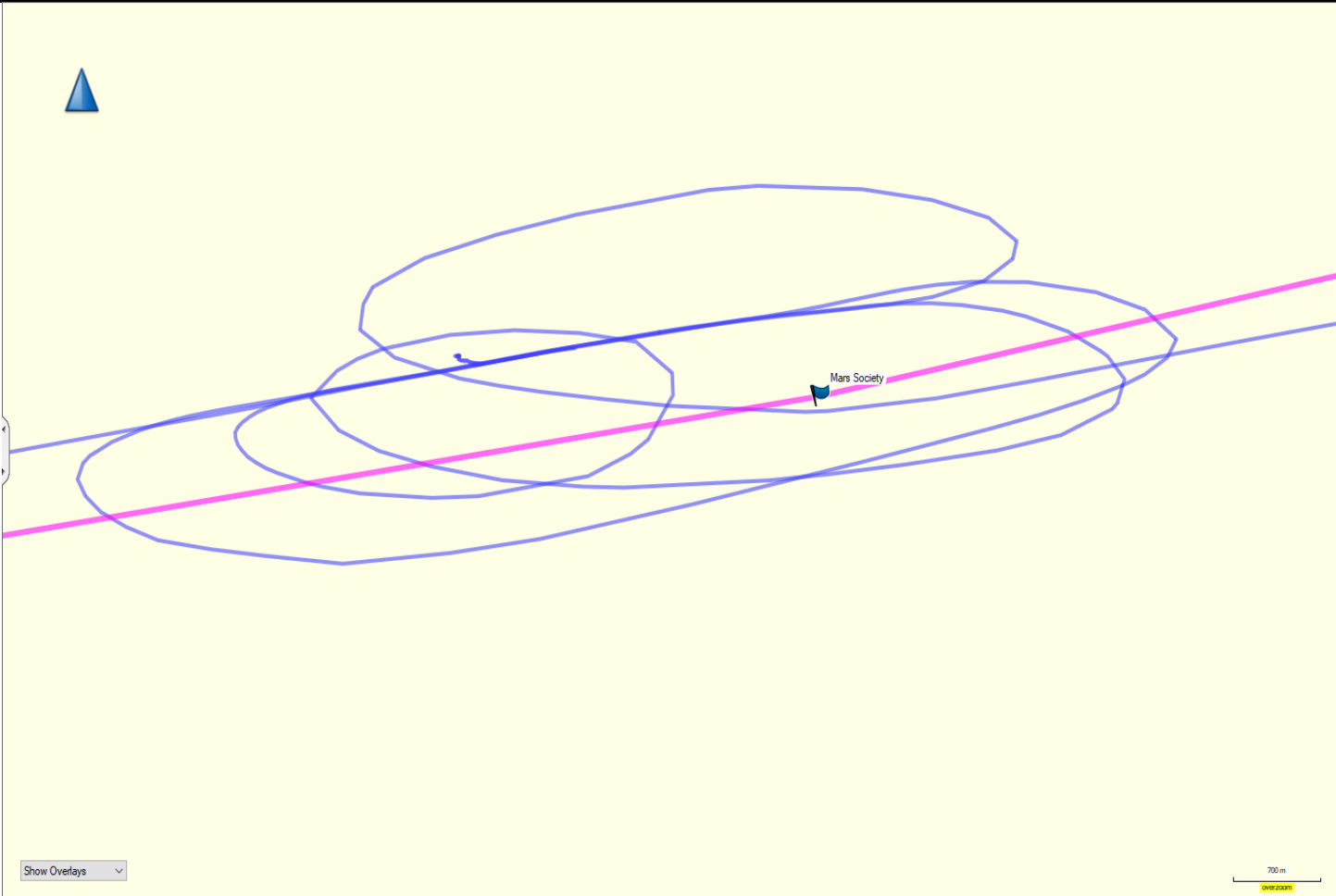
*12 (1) Subject to subsection (2) and except in accordance with the conditions of a licence, no person shall deposit or permit the deposit of waste (a) in waters in Nunavut; or(b) in any other place in Nunavut under conditions in which the waste, or any other waste that results from the deposit of that waste, may enter waters in Nunavut.*

|                            |                   |
|----------------------------|-------------------|
| Licensee or Representative | Inspector's Name  |
| Shannon Rupert             | Joseph Monteith   |
| Signature                  | Signature         |
| Date                       | Date              |
|                            | November 29, 2022 |

CC: Licensing Department, NWB  
Jeremy Fraser, Manager of Field Operation



PHOTO LOG

| Date                                                                                                                       | Camera            | Inspector                                                      |
|----------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------|
| July 5, 2022                                                                                                               | Samsung Galaxy S9 | Joseph Monteith                                                |
| Photo Log #1                                                                                                               |                   | Location                                                       |
| Photo 1                                                                                                                    |                   | Fosheim Peninsula, Ellesmere Island, Qikiqtani Region, Nunavut |
| <div></div>                              |                   |                                                                |
| Description: Basemap routes, tracks and points. Mars Society Point, and aerial survey tracks of Water License 8WLC-MAR1718 |                   |                                                                |

| Photo Log # | Location                      |
|-------------|-------------------------------|
| Photo 2     | N75° 25' 52.9" W89° 49' 24.5" |



**Description:** FMARS. Fuel Cache pile closest to FMARs, few wooden crates, and waste drum stockpile to furthest pile to FMARS.

Photo Log #

Photo 3

Location

N75° 25' 52.9" W89° 49' 24.5"



**Description:** Fuel cache with spill kit observed nearest to FMARS building. Yellow Spill kit with fuel cache. Waste drums on far right.

