

Parks Canada Water Licence

Licence Type	Licence No	Amendment No
A	PC2023L8-0002	

Subject to the Canada National Parks Act 41.1(4), National Parks General Regulations s. 11(1), National Parks General Regulations s.12(1), National Parks General Regulations s.35(2), National Parks General Regulations 18(1), National Parks General Regulations 18(2), National Parks Highway Traffic Regulations s.41(1), National Parks Highway Traffic Regulations s.41(2), National Parks Highway Traffic Regulations s.3(2), National Parks of Canada Fire Protection Regulations s.5(2), and National Parks Building Regulations s.5(1), Parks Canada hereby grants to:

Canadian Zinc Corporation

(Licensee)

of Suite 907 510 Burrard Street, Vancouver, British Columbia, V6C 3A8

(Mailing Address)

hereinafter called the Licensee, the right to alter, divert, or otherwise use water subject to and in accordance with the conditions specified in this Licence.

Location:	KP 17.14-101.3 of the Canadian Zinc Corporation All Season Road in Nahanni National Park Reserve, connecting Prairie Creek Mine to the Liard Highway.
Purpose:	To use water and dispose of waste and associated uses.
Quantity of Water not to be exceeded:	1000 cubic meters (m ³)/day
Effective date of licence:	July 12, 2024
Expiry date of licence:	July 11, 2034

This Licence may not be assigned.

His Majesty the King, in right of Canada, represented herein by the Minister of the Environment and Climate Change for the purposes of the Parks Canada Agency

Dated at Canmore, AB this 12 day of July, 2024

Signature, A/Field Unit Superintendent, Southwest Northwest Territories, Parks Canada

Signature Witness

Moira McKinnon

ATTENTION

It is a condition of this License that the Licensee comply with the provisions of the *Canada National Parks Act* and Regulations, and the terms and conditions set out herein. A failure to comply may result in suspension or revocation of this Licence.

Type A Water Licence PC2023L8-0002
Canadian Zinc Corporation – Prairie Creek All Season Road Project

Table of Contents

Part A: Scope and Defined Terms
Part B: General Conditions
Part C: Security
Part D: Water Use
Part E: Construction
Part F: Waste and Water Management
Part G: Aquatic Effects Monitoring
Part H: Spill Contingency Planning
Part I: Closure and Reclamation

Schedules

Schedule 1: Surveillance Network Program (Part B)
Schedule 2: Annual Water Licence Report (Part B)
Schedule 3: Security (Part C)
Schedule 4: Construction (Part E)
Schedule 5: Waste and Water Management (Part F)
Schedule 6: Closure and Reclamation (Part I)

Attachments:

Attachment A: Concordance Table of Items Requiring Submission
Attachment B: Revision History Table

PART A: SCOPE AND DEFINED TERMS

Scope

1. This Licence entitles the Licensee to use Water and deposit Waste for miscellaneous activities at the Prairie Creek Winter Road and All Season Road within Nahanni National Park Reserve of Canada (hereafter NNPR). **SCOPE**
The scope of this Licence includes the following:
 - a) Construction, operation and maintenance of an All Season Road;
 - b) Construction, operation, and maintenance of a Winter Road for Phase 1 and Phase 2;
 - c) Withdrawal of Water for dust suppression, Winter Road construction, camp use, and culvert installation;
 - d) Deposit of drilling Waste from geotechnical investigations to Sumps;
 - e) Deposit of Greywater from camps to Sewage Management Facilities;
 - f) Deposit of Toilet Waste to Sewage Management Facilities;
 - g) Use and storage of explosives;
 - h) Use and storage of fuel;
 - i) Construction, operation, and maintenance of camps;
 - j) Construction, operation, and maintenance of Water Supply Facilities;
 - k) Construction, operation, and maintenance of Sewage Management Facilities;
 - l) Construction, use, and maintenance of Borrow Sources;
 - m) Construction, use, and maintenance of Borrow stockpiles;
 - n) Construction, operation, and maintenance of Settling Pond(s);
 - o) Construction, operation, and maintenance of bridges;
 - p) Construction, operation, and maintenance of culverts;
 - q) Construction, operation, and maintenance of flood control structures;
 - r) Construction, operation and maintenance of Watercourse diversion structures; and
 - s) Progressive Reclamation and associated Closure and Reclamation activities.
2. The scope of the Project is as described in the Preliminary Screening Determination for MV2023L8-0003, dated September 28, 2023. **SCOPE – PRELIMINARY SCREENING**
3. This Licence is issued subject to the conditions contained herein with respect to the use of Water and the Deposit of Waste in any Waters or in any place under any conditions where such Waste or any other Waste that results from the Deposit of such Waste may enter any Waters. Whenever applicable new regulations are made, or existing Regulations are modified, or other applicable legislation imposing more stringent conditions relating to the quantity or type of Waste that may be so deposited or under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations or legislation, to be automatically amended to conform with such Regulations or legislation. **LEGISLATION SUBJECT TO CHANGE**
4. Compliance with this Licence does not relieve the Licensee from responsibility for compliance with the requirements of any applicable federal, territorial, or municipal legislation. **LEGISLATIVE COMPLIANCE**

Defined Terms:¹

Acid Rock Drainage – acidic Water, often with elevated sulphate concentrations, that occurs as a result of oxidation of sulphide minerals contained in rock or other materials that are exposed as a result of natural weathering processes, Construction, or Project activities.

Action Level – a predetermined qualitative or quantitative trigger which, if exceeded, requires the Licensee to take appropriate actions.

All Season Road – road from the Prairie Creek Mine to the Nahanni Butte Access Road for use in all seasons, including the road prism, bridges, culverts, and access roads to Borrow Sources.

Artesian Aquifer – a Water-bearing stratum which, when encountered, produces a pressurized flow of Groundwater that reaches an elevation above the Water table or above the ground surface.

Board – the Mackenzie Valley Land and Water Board established under subsection 99(1) of the *Mackenzie Valley Resource Management Act*.

Borrow - any mineral soil or rock used or produced as part of the Project.

Borrow Source - a location of Borrow.

Closure Cost Estimate - an estimate of the cost to close the Project and undertake Ecological Restoration of all impacted areas.

Closure Criteria - standards that measure the success of selected closure activities in meeting Closure Objectives. Closure Criteria may have a temporal component (e.g., a standard may need to be met for a pre-defined number of years). Closure Criteria can be site-specific or adopted from territorial/federal or other standards and can be narrative statements or numerical values.

Closure Objectives - statements that describe what the selected closure activities are aiming to achieve; they are guided by the closure principles. Closure Objectives are typically specific to project components, are measurable and achievable, and allow for the development of Closure Criteria.

Closure and Reclamation – the process and activities that facilitate the return of areas affected by the Project to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment and human activities.

Closure and Reclamation Plan (CRP) – a document, developed in accordance with this Licence, that clearly describes the Closure and Reclamation for the Project.

Concentrate – the product emanating from the processing of ore at the Prairie Creek Mine.

Construction – any activities undertaken during any phase of the Project to construct, build, upgrade, or replace any structures, facilities, or components of, or associated with, the Project.

Deposit of Waste – a deposit of Waste in any Water or in any other place under conditions in which the Waste, or any other Waste that results from the deposit of that Waste, may enter any Waters.

Discharge- a direct or indirect deposit or release of any Water or Wastewater to Water in the Receiving Environment.

Ecological Restoration – a process of assisting the recovery of an ecosystem that has been degraded, which places degraded ecosystems on trajectories of recovery that allow adaptation to local and global changes, and persistence and evolution of their component species.

Effluent – a Wastewater Discharge.

Engagement Plan – a document, developed in accordance with the LWB *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the Project.

Engineered Structure – any structure or facility related to Water Use or the disposal or Deposit of Waste that is designed by a Professional Engineer, including but not limited to the All Season Road, Non-Typical Winter Road, Culverts, Bridges, Ice Bridges, Septic Systems, Borrow Sources and Water Supply Facilities associated with the Project.

Environmental Assessment (EA) – the totality of the Mackenzie Valley Environmental Impact Review Board's Public Registry for Environmental Assessment EA1415-01, including the Report of Environmental Assessment.

Greywater – all liquid Waste from showers, baths, sinks, kitchens, and domestic washing facilities, but does not include Toilet Waste.

Groundwater – all Water in a zone of saturation beneath the land surface, regardless of its origin.

¹ Defined terms are capitalized throughout the License, including when used in other definitions.

Defined Terms:¹

Hazardous Waste - a Waste which, because of its quantity, concentration, or characteristics, may be harmful to human health or the environment when improperly treated, stored, transported, or disposed of.

Independent Technical Review Panel – the expert panel established by the Licensee to fulfill Measure 5-1 of the Report of Environmental Assessment.

Licensee – the holder of this Licence.

Metal Leaching – the release of metals and metalloids in leachate, Seepage, or drainage from rock or other materials associated with the Project.

Minister – the Minister of the Environment and Climate Change for the purposes of the Parks Canada Agency.

Nahanni National Park Reserve (NNPR)- as described in Schedule II of the Canada National Parks Act.

Non-Typical Winter Road- sections of the Winter Road that are not Typical Winter Road.

Ordinary High-Water Mark – the usual or average level to which a Watercourse rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing Watercourses (rivers, streams), this refers to an active channel/bank-full level, which is often the 1:2-year flood flow return level. In inland lakes, wetlands or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by Water so as to leave a mark on the land and where the natural vegetation changes from predominantly aquatic vegetation to terrestrial vegetation (excepting Water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).

Permafrost – ground (soil or rock) that remains at or below 0°C for at least two consecutive years.

Phase 1 - activities to support the Construction of the All Season Road in Phase 2, including the Construction and operation of the Winter Road to conduct geotechnical investigation and transport equipment and materials to Prairie Creek Mine.

Phase 2 – activities to support the Construction of the All Season Road including the Construction and operation of the Winter Road and of All Season Road Construction.

Phase 3 – activities to support the operation of the All Season Road including transportation of loaded Concentrate, consumable materials and supplies to support mine operations, and road maintenance.

Potentially Acid Generating Rock (PAG) – any rock that has the potential to produce Acid Rock Drainage.

Professional Engineer – a person registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists to practice as a Professional Engineer in the Northwest Territories as per the territorial *Engineering and Geoscience Professions Act* and whose professional field of specialization is appropriate to address the components of the Project at hand.

Progressive Reclamation – Closure and Reclamation activities conducted during the operating phase of the Project.

Project – the undertaking described in Part A, Conditions 1 and 2.

Receiving Environment – the natural environment that, directly or indirectly, receives any Waste from the Project.

RECLAIM – Parks Canada's model for estimating Closure and Reclamation costs.

Reclamation Research – literature reviews, laboratory or pilot-scale tests, engineering studies, and other methods of resolving uncertainties and answering questions pertaining to environmental risks for the purpose of providing data and information that will reduce uncertainties for closure options, selected closure activities, and/or Closure Criteria.

Report of Environmental Assessment (Report of EA) – the Mackenzie Valley Environmental Impact Review Board's Report of Environmental Assessment and Reasons for Decision for the EA1415-01, dated September 12, 2017, and adopted by the Minister of Crown-Indigenous Relations on October 9, 2018.

Response Framework – a systematic approach to responding to the results of a monitoring program through adaptive management actions conducted in accordance with the Report of Environmental Assessment Appendix B.

Response Plan – a document describing the actions that will be taken by the Licensee in response to an Action Level exceedance as described in each approved Plan and Program.

Runoff – the overland flow of Water or Wastewater that occurs when precipitation, meltwater, or other Water is not absorbed by the land.

Seepage – any Water or Waste that drains, passes through, or escapes from any structure designed to contain, withhold, divert, or retain Water or Waste.

Septic System- the structures designed to treat Sewage

Defined Terms:¹

Settling Pond – any above or below-grade natural or human-made depression designated for separating solids from Water or Wastewater.

Sewage – all Toilet Wastes and Greywater.

Sewage Management Facilities – the area(s) and structures designated to contain and treat Sewage, as described in the Waste Management Plan.

Spill Contingency Plan (SCP) – a document developed for the Project in accordance with INAC's *Guidelines for Spill Contingency Planning*.

Sump – a human-made excavation or a natural depression designated for depositing Water and/or Waste.

Superintendent – means the Superintendent of Nahanni National Park Reserve of Canada and includes any person appointed under the Canada National Parks Act who is authorized by the Superintendent to act on the Superintendent's behalf.

Surveillance Network Program (SNP) – a monitoring program required by this Licence and detailed in Schedule 1.

Temporary Closure – a state of care and maintenance, with the intent of resuming Project activities in the near future.

Toilet Wastes – all human excreta and associated products, not including Greywater.

Traditional Knowledge – the cumulative, collective body of knowledge, experience and values built up by a group of people through generations of living in close contact with nature. It builds upon the historic experiences of a people and adapts to social, economic, environmental, spiritual, and political change.

Typical Winter Road – portions of the road that are constructed using typical winter road characterized by packed snow and ice, and no soil disturbance.

Unauthorized Release – a release to the Receiving Environment of any Water or Waste not authorized under this Licence.

Waste – as defined in section 1 of the *Waters Act*:

- a) a substance that, if added to water, would degrade or alter or form part of a process of degradation or alteration of the quality of the water to an extent that is detrimental to its use by people or by an animal, fish or plant, or
- b) water that contains a substance in such a quantity or concentration, or that has been so treated, processed or changed, by heat or other means, that it would, if added to other water, degrade or alter or form part of a process of degradation or alteration of the quality of that water to the extent described in paragraph (a), and includes:
 - c) a substance or water that, for the purposes of the *Canada Water Act*, is deemed to be waste,
 - d) a substance or class of substances prescribed by regulations made under subparagraph 63(1)(b)(i),
 - e) water that contains a substance or class of substances in a quantity or concentration that is equal to or greater than a quantity or concentration prescribed in respect of that substance or class of substances by regulations made under subparagraph 63(1)(b)(ii), and

water that has been subjected to a treatment, process or change prescribed by regulations made under subparagraph 63(1)(b)(iii).

Waste Management Plan (WMP) – a document, developed in accordance with the MVLWB *Guidelines for Developing a Waste Management Plan*, that describes the methods of Waste management for the Project from Waste generation to final disposal.

Waste Rock – any rock material generated by the Project that is not utilized in Construction, maintenance, or Closure and Reclamation

Wastewater – any Water that is generated by Project activities or originates on-site, and which contains Waste, and may include, but is not limited to, Runoff, Seepage, Sewage, and Effluent.

Water – any inland waters, whether in a liquid or frozen state, on or below the surface of land.

Watercourse – a natural watercourse, body of Water or Water supply, whether usually containing Water or not, and includes, but is not limited to, Groundwater, springs, swamps, and gulches.

Water Supply Facilities – the area(s) and structures designed to collect, treat, and supply Water for the Project.

Water Use – a use of Waters as per section 51 of the Mackenzie Valley Resource Management Act.

Winter Road – road from the Prairie Creek Mine to the Nahanni Butte Access Road, for use in the winter seasons, including both the Typical Winter Road and Non-Typical Winter Road sections, ice bridges, snow fills, and overland components.

Condition	Condition Title
Part B: General Conditions	
1. The Licensee shall ensure a copy of this Licence is maintained on site at all times.	COPY OF LICENCE
2. The Licensee shall take every reasonable precaution to protect the environment.	PRECAUTION TO PROTECT ENVIRONMENT
3. In conducting its activities under this Licence, the Licensee shall make every reasonable effort to consider and incorporate any scientific information and Traditional Knowledge that is made available to the Licensee.	INCORPORATE SCIENTIFIC INFORMATION AND TRADITIONAL KNOWLEDGE
4. In each submission required by this Licence or by any directive from the Superintendent, the Licensee shall identify all recommendations based on Traditional Knowledge received, describe how the recommendations were incorporated into the submission, and provide justification for any recommendation not adopted.	IDENTIFY TRADITIONAL KNOWLEDGE
5. All references to policies, guidelines, codes of practice, statutes, regulations, or other authorities shall be read as a reference to the most recent versions, unless otherwise noted.	REFERENCES
6. The Licensee shall ensure all submissions to the Superintendent: <ul style="list-style-type: none"> a) Are in accordance with the LWB <i>Document Submission Standards</i> and, if applicable, <i>Geospatial Data Submissions Standards</i>; and b) Include any additional information requested by the Superintendent. 	SUBMISSION FORMAT
7. The Licensee shall ensure management plans are submitted to the Superintendent in a format consistent with the LWB <i>Standard Outline for Management Plans</i> , unless otherwise specified.	MANAGEMENT PLAN FORMAT
8. The Licensee shall comply with all terms of reference, plans, reports, and programs, including revisions, approved pursuant to the conditions of this Licence.	COMPLY WITH SUBMISSIONS AND REVISIONS
9. The Licensee shall conduct an annual review of all terms of reference, plans, reports, and programs, and make any revisions necessary to reflect changes in operations, contact information, or other details. No later than March 31 each year, the Licensee shall send a notification letter to the Superintendent, listing the documents that have been reviewed and do not require revisions.	ANNUAL REVIEW
10. The Licensee may propose changes at any time by submitting revised terms of reference, plans, reports, and programs to the Superintendent, for approval, except for plans required under Part E Conditions 19 STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN – PANEL and, 20 DESIGN AND CONSTRUCTION PLAN – PANEL, a minimum of 90 days prior to the proposed implementation date for the changes. The Licensee shall not implement the changes until approved by the Superintendent.	REVISIONS
11. The Licensee shall revise any submission and submit it as per the Superintendent’s directive.	REVISE AND SUBMIT
12. For each plan and program with requirements for Response Frameworks, the Licensee shall identify how a Response Framework has been incorporated in each plan and program. For Action Level exceedances identified in each approved plan and program with Response Frameworks, the Licensee shall, within the timeframe identified in each approved plan and program: <ul style="list-style-type: none"> a) notify the Superintendent; and b) submit a Response Plan to the Superintendent for approval. 	RESPONSE FRAMEWORK

Condition	Condition Title
13. If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.	SUBMISSION DATE
14. The Licensee shall comply with the Schedules , which form part of this Licence, and any updates to the Schedules as may be made by the Superintendent.	COMPLY WITH SCHEDULE(S)
15. The Licensee shall comply with the Surveillance Network Program set out in Schedule 1, and any updates to the Surveillance Network Program as may be made by the Superintendent.	COMPLY WITH SURVEILLANCE NETWORK PROGRAM
16. The Schedules and any compliance dates specified in this Licence may be updated at the discretion of the Superintendent.	UPDATES TO SCHEDULES AND COMPLIANCE DATE(S)
17. The Licensee shall comply with all directives issued by the Superintendent in respect of the implementation of the conditions of this Licence.	COMPLY WITH SUPERINTENDENT DIRECTIVES
18. The Licensee shall ensure signs are posted for all active Surveillance Network Program stations. All sign(s) shall be located and maintained to the satisfaction of the Superintendent.	POST SURVEILLANCE NETWORK PROGRAM SIGN(S)
19. The Licensee shall install, operate, and maintain meters, devices, or other such methods for measuring the volumes of Water used and Waste disposed of to the satisfaction of the Superintendent.	MEASURE WATER USE AND WASTE DISCHARGED
20. Beginning March 31, 2025 and no later than every March 31 thereafter, the Licensee shall submit an Annual Water Licence Report to the Superintendent. The Report shall be in accordance with the requirements of Schedule 2, Condition 1.	ANNUAL WATER LICENCE REPORT
21. The Licensee shall comply with the Engagement Plan , once approved. The Plan shall fulfill Measure 15-1, 15-4, and Suggestion 15-4 of the Report of EA.	ENGAGEMENT PLAN
23. A minimum of ten days prior to returning to the worksite following a seasonal shut down period, and commencement of Phase 1, Phase 2, and Phase 3, the individual responsible for overseeing the Project shall contact the Superintendent.	NOTIFICATION – RE-COMMENCEMENT
24. The Licensee shall immediately provide written notification to the Superintendent of any non-compliance with the conditions of this Licence.	NOTIFICATION – NON-COMPLIANCE WITH CONDITIONS
25. The Licensee shall immediately provide written notification to the Superintendent of any non-compliance with a Superintendent directive issued in respect of the implementation of the conditions of this Licence.	NOTIFICATION – NON-COMPLIANCE WITH DIRECTIVES
27. The Licensee shall submit a current Project schedule to the Superintendent upon request.	SUBMIT CURRENT PROJECT SCHEDULE
27. All information submitted to the Superintendent for or under this Licence must be submitted in a form and in detail acceptable to the Superintendent.	SUBMISSION FORMAT
28. The Licensee shall ensure that all persons working under the authority of this Water Licence are aware of, and will adhere to the terms and conditions as stated in this Water Licence.	ADHERANCE TO TERMS AND CONDITIONS
29. The Licensee shall ensure that all persons working under the authority of this Water Licence keep copies of the relevant operational plans on hand at all times, to assist in the carrying out their respective functions.	COPIES OF MANAGEMENT PLANS-ON HAND

Part C: Security

Condition	Condition Title
1. The Licensee shall post and maintain a security deposit with the Minister in accordance with Schedule 3 Condition 1. The Licensee shall not commence activities until the security deposit has been accepted by the Minister.	POST SECURITY DEPOSIT
2. Upon request of the Superintendent, the Licensee shall submit an updated Closure Cost Estimate using the current version of RECLAIM or another method acceptable to the Superintendent.	UPDATE CLOSURE COST ESTIMATE
3. The amount of the security deposit required by Part C, Condition 1 (POST SECURITY DEPOSIT) may be adjusted by the Superintendent: <ul style="list-style-type: none"> a) Based on an updated Closure Cost Estimate as per Part C, Condition 2 (UPDATE CLOSURE COST ESTIMATE); or b) Based on such other information as may become available to the Superintendent. 	ADJUSTED SECURITY AMOUNT
4. If the amount of the security deposit is adjusted by the Superintendent as per Part C, Condition 3 (ADJUSTED SECURITY AMOUNT), the Licensee shall post the adjusted amount with the Minister within the timeframe set by the Superintendent. The Licensee shall not commence any new activities associated with a security adjustment until the additional security deposit has been accepted by the Minister.	POST ADJUSTED SECURITY AMOUNT
5. Unless otherwise approved by the Superintendent, the Licensee may not submit security adjustment requests except with any of the following submissions: <ul style="list-style-type: none"> a) Closure and Reclamation Plans; b) Closure and Reclamation Completion Reports; or Performance Assessment Reports. 	SECURITY ADJUSTMENT REQUESTS

Part D: Water Use

1. **Parks Canada** **WATER SOURCE AND MAXIMUM VOLUME**
- The Licensee shall only obtain Water for the Project as set out in the following table. The Licensee may withdraw up to a combined total 1000 m³/day of Water from these sources.

Water Source Name	Coordinates	Type of Watercourse (e.g., river, lake, etc.)	Purpose of Water Use	Maximum Quantity
Sundog Creek	415639 E, 6829210 N	River	<ul style="list-style-type: none"> - Camp potable use - Culvert installation - Dust suppression 	<10% instantaneous flow
Sundog Creek II	420657 E, 6826795 N			
Sundog Creek III	427063 E, 6829318 N			
Polje Creek	440692 E, 6830793 N			
Fishtrap Creek	465061 E, 6813845 N			
Tetcela River	461383 E, 6815676 N		<ul style="list-style-type: none"> - Camp potable use - Culvert installation - Dust suppression - Winter Road Construction 	
Mosquito Lake	446703 E, 6825712 N	Lake	Winter road Construction	44,448 m ³ per year
Lake 70	448577 E, 6819566 N			64,995 m ³ per year
Cat camp pit	428523 E, 6830490 N	Ground water	Winter Road Construction	5750 m ³ per year

Condition	Condition Title									
<p>2. In any single ice-covered season, the Licensee shall not withdraw greater than the following quantities:</p> <table border="1"> <thead> <tr> <th>Water Source Name</th> <th>Coordinates</th> <th>Maximum Quantity (m³)</th> </tr> </thead> <tbody> <tr> <td>Mosquito Lake</td> <td>446703 E, 6825712 N</td> <td>33,528</td> </tr> <tr> <td>Lake 70</td> <td>448577 E, 6819566 N</td> <td>52,475</td> </tr> </tbody> </table>	Water Source Name	Coordinates	Maximum Quantity (m ³)	Mosquito Lake	446703 E, 6825712 N	33,528	Lake 70	448577 E, 6819566 N	52,475	<p>MAXIMUM UNDER-ICE WATER WITHDRAWAL VOLUME</p>
Water Source Name	Coordinates	Maximum Quantity (m ³)								
Mosquito Lake	446703 E, 6825712 N	33,528								
Lake 70	448577 E, 6819566 N	52,475								
<p>2. The Licensee shall only withdraw Water using the Water Supply Facilities, unless otherwise authorized temporarily in writing by the Superintendent.</p>	<p>WATER WITHDRAWAL – FACILITIES</p>									
<p>3. Prior to withdrawing Water from an approved Water source, the Licensee shall post sign(s) to identify the intake for the Water Supply Facilities. All sign(s) shall be located and maintained to the satisfaction of the Superintendent.</p>	<p>POST WATER INTAKE SIGN(S)</p>									
<p>4. The Licensee shall construct and maintain the Water intake(s) with a screen designed to prevent impingement or entrainment of fish. The screen shall be in accordance with the best practices outlined in Fisheries and Oceans Canada’s <i>Interim Code of Practice: End-of-Pipe Fish Protection Screens for Small Water Intakes in Freshwater</i> and <i>Fish Screen Design Criteria for Flood and Water Truck Pumps</i>.</p>	<p>WATER INTAKE SCREEN</p>									
<p>5. Water Use Fees shall be paid annually as per the <i>Parks Canada Agency Act</i> and <i>Canada National Parks Act</i>. This fee must be paid annually hereafter for the duration of the Licence on or before its anniversary date.</p>	<p>WATER USE FEE</p>									

Part E: Construction

<p>1. The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Waste are designed, constructed, and maintained to minimize the escape of Waste to the Receiving Environment.</p>	<p>OBJECTIVE – CONSTRUCTION</p>
<p>2. The Licensee shall ensure that all Engineered Structures are constructed and maintained in accordance with the recommendations of the Professional Engineer responsible for the design, including, but not limited to, recommendations regarding field supervision and inspection requirements.</p>	<p>ENGINEERED STRUCTURES – GENERAL</p>
<p>3. The Licensee shall ensure that all material used in Construction of the Project meets the geochemical criteria specified in the approved Geochemical Verification Program referred to in Part F, Condition 5. (GEOCHEMICAL VERIFICATION PROGRAM-REVISED).</p>	<p>CONSTRUCTION MATERIAL – GEOCHEMICAL CRITERIA</p>
<p>4. The Licensee shall only use material that is clean, non-PAG and free of contaminants and is from a source within an approved area as per the approved Borrow Source Management Plan, or that has been approved in writing by the Superintendent.</p>	<p>CONSTRUCTION MATERIAL – SOURCE(S)</p>
<p>5. The Licensee shall maintain records of Construction materials for all structures and make them available at the request of the Superintendent.</p>	<p>CONSTRUCTION RECORDS</p>
<p>6. The Licensee shall maintain geochemical records of Construction materials for all structures and make them available at the request of the Superintendent.</p>	<p>GEOCHEMICAL RECORDS</p>
<p>7. Unless otherwise authorized in writing by the Superintendent, a minimum of 90 days prior to the commencement of Construction of all structures, excluding Engineered Structures and structures under Part E, Condition 19 (STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN - PANEL), intended to contain, withhold, divert, or retain Water or Wastes, the Licensee shall submit to the Superintendent, for approval, a Structure Description and Construction Plan. The Plan shall be in accordance with the requirements of Schedule 4, Condition 1. The Licensee shall not commence Construction of the structure(s) prior to Superintendent approval of the Plan.</p>	<p>STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN</p>

Condition	Condition Title
8. A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not referred to in Part E, Condition 20 (DESIGN AND CONSTRUCTION PLAN – PANEL), the Licensee shall submit to the Superintendent, for approval, a Design and Construction Plan . The Plan shall be in accordance with the requirements of Schedule 4, Condition 2. The Licensee shall not commence Construction of the Engineered Structure(s) prior to Superintendent approval of the Plan.	DESIGN AND CONSTRUCTION PLAN
9. A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not referred to in Part E, Condition 20 (DESIGN AND CONSTRUCTION PLAN – PANEL), the Licensee shall submit to the Superintendent, Design Drawings stamped and signed by a Professional Engineer. A minimum of 90 days prior to implementing any proposed changes to the Design Drawings, the Licensee shall submit revised Design Drawings to the Superintendent.	DESIGN DRAWINGS
10. A minimum of ten days prior to the commencement of Construction of any Engineered Structure(s), the Licensee shall provide written notification to the Superintendent. Notification shall include the Construction commencement date, and the name and contact information for the individual responsible for overseeing Construction. Written notification shall be provided to the Superintendent if any changes occur.	NOTIFICATION – CONSTRUCTION – ENGINEERED STRUCTURES
11. A minimum of ten days prior to the commencement of Construction of any structure(s) intended to contain, withhold, divert, or retain Water or Wastes, the Licensee shall provide written notification to the Superintendent. Notification shall include the Construction commencement date, and the name and contact information for the individual responsible for overseeing the Construction. Written notification shall be provided to the Superintendent if any changes occur.	NOTIFICATION – CONSTRUCTION
12. The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Wastes, excluding Engineered Structures, are constructed in accordance with the approved Structure Description and Construction Plan(s) .	CONSTRUCT AS DESIGNED – STRUCTURE(S)
13. The Licensee shall ensure that all Engineered Structures are constructed in accordance with the Design Drawings and Design and Construction Plans approved by the Superintendent or, accepted by the Panel and approved by the Superintendent.	CONSTRUCT AS DESIGNED – ENGINEERED STRUCTURE(S)
14. Within 90 days of the completion of the Construction of each Engineered Structure, the Licensee shall submit to the Superintendent an As-Built Report stamped and signed by a Professional Engineer. The Report shall be in accordance with the requirements of Schedule 4, Condition 3.	AS-BUILT REPORT – ENGINEERED STRUCTURE(S)
15. Within 90 days of the completion of Construction of each non-Engineered Structure, the Licensee shall submit to the Superintendent a Construction Summary Report . The Report shall be in accordance with the requirements of Schedule 4, Condition 4.	CONSTRUCTION SUMMARY REPORT – NON-ENGINEERED STRUCTURE(S)
Independent Technical Review Panel for the Road	
16. The Licensee shall establish and maintain an Independent Technical Review Panel in accordance with Measure 5-1 of the Report of EA. The Licensee shall pay for all reasonable direct and indirect costs associated with the establishment of the Independent Technical Review Panel and its duties that arise from the conditions of this Licence.	INDEPENDENT TECHNICAL REVIEW PANEL - ESTABLISH AND MAINTAIN
17. The Licensee shall comply with the approved Terms of Reference for the Independent Technical Review Panel .	INDEPENDENT TECHNICAL REVIEW PANEL – TERMS OF REFERENCE

Condition		Condition Title
18.	<p>A minimum of 90 days prior to commencement of Construction of any structures reviewed by the Panel, the Licensee shall submit to the Superintendent, a Letter of Acceptance from the Independent Technical Review Panel that indicates their review and acceptance of:</p> <p>a) the final Structure Description and Construction Plan referred to in Part E, Condition 19 (STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN – PANEL); or</p> <p>b) Design and Construction Plan and Design Drawings referred to in Part E, Condition 20 (DESIGN AND CONSTRUCTION PLAN – PANEL).</p>	<p>INDEPENDENT TECHNICAL REVIEW PANEL – LETTER OF ACCEPTANCE</p>
	<p>A minimum of 45 days prior to implementing any proposed changes to the Plan, the Licensee shall submit to the Superintendent a revised Letter of Acceptance from the Independent Technical Review Panel that indicates their review and acceptance of the revised Plan and/or Design Drawing.</p>	
19.	<p>A minimum of 90 days prior to the commencement of Construction of any structures reviewed by the Panel, excluding Engineered Structures, the Licensee shall submit to the Superintendent for approval, a Structure Description and Construction Plan. The Plan shall be in accordance with the requirements of Schedule 4, Condition 1. The Plan shall be accepted by the Panel referred to in Part E, Condition 18 (INDEPENDENT TECHNICAL REVIEW PANEL – LETTER OF ACCEPTANCE). A minimum of 45 days prior to implementing any proposed changes to the Plan, the Licensee shall submit a revised Plan to the Superintendent.</p>	<p>STRUCTURE DESCRPTION AND CONSTRUCTION PLAN – PANEL</p>
20.	<p>A minimum of 90 days prior to the commencement of Construction of any Engineered Structures reviewed by the Panel, the Licensee shall submit to the Superintendent for approval the following:</p> <p>a) a Design and Construction Plan in accordance with the requirements of Schedule 4, Condition 2; and</p> <p>b) Design Drawings.</p>	<p>DESIGN AND CONSTRUCTION PLAN – PANEL</p>
	<p>Theses submissions shall be accepted by the Panel referred to in Part E, Condition 18 (INDEPENDENT TECHNICAL REVIEW PANEL – LETTER OF ACCEPTANCE). A minimum of 45 days prior to implementing any proposed changes to the Plan, the Licensee shall submit a revised Plan to the Superintendent for approval.</p>	

Part F: Waste and Water Management

1.	<p>The Licensee shall manage Waste and Water with the objective of minimizing the impacts of the Project on the quantity and quality of Water in the Receiving Environment through the use of appropriate mitigation measures, monitoring, and follow-up actions.</p>	<p>OBJECTIVE – WASTE AND WATER MANAGEMENT</p>
----	---	---

Management and Monitoring Plans

2.	<p>A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Waste Management Plan. The Licensee shall not commence activities described in the Plan prior to Superintendent approval of the Plan.</p>	<p>WASTE MANAGEMENT PLAN – REVISED</p>
3.	<p>A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Sediment and Erosion Control Plan. The Plan shall be in accordance with the requirements of Schedule 5, Condition 1. The Licensee shall not commence activities described in the Plan prior to Superintendent approval of the Plan.</p>	<p>SEDIMENT AND EROSION CONTROL PLAN – REVISED</p>
4.	<p>A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Permafrost Management and Monitoring Plan. The Plan shall be in accordance with the requirements of Schedule 5, Condition 2. The Licensee shall not</p>	<p>PERMAFROST MANAGEMENT AND MONITORING PLAN – REVISED</p>

Condition	Condition Title
commence activities described in the Plan prior to Superintendent approval of the Plan.	
5. A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Geochemical Verification Program . The Program shall be in accordance with the requirements of Schedule 5, Condition 3. The Licensee shall not commence activities described in the Program prior to Superintendent approval of the Program.	GEOCHEMICAL VERIFICATION PROGRAM – REVISED
6. A minimum of 90 days prior to the Construction and/or use, or as directed by the Superintendent, of any Borrow Source, the Licensee shall submit to the Superintendent, for approval, a Borrow Source Management Plan . The Plan shall be in accordance with the requirements of Schedule 5, Condition 4. The Licensee shall not construct and/or use Borrow Sources prior to Superintendent approval of the Plan.	BORROW SOURCE MANAGEMENT PLAN
7. A minimum of 90 days prior to development of any Borrow Source, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a Borrow Source Optimization Report with the goal to reduce impacts of borrow sources required for construction and operation that includes, but is not limited to, an assessment of the advantages and disadvantages for utilizing each borrow site that considers: <ul style="list-style-type: none"> a) land disturbance; b) proximity to and potential impacts to water quality, water drainage patterns; c) proximity to and potential impacts to fish and fish habitat; d) proximity to and potential impacts to terrestrial wildlife and habitat; e) construction methods; f) All Season Road operation; g) quantity and quality of the borrow material; h) Borrow Source reclamation; and monitoring of the borrow source. 	BORROW SOURCE OPTIMIZATION REPORT
8. A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Water Management Plan . The Plan shall be in accordance with the requirements of Schedule 5, Condition 5. The Licensee shall not commence activities described in the Plan prior to Superintendent approval of the Plan.	WATER MANAGEMENT PLAN – REVISED
9. A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Explosives Management Plan . The Plan shall be in accordance with the requirements of Schedule 5, Condition 6. The Licensee shall not commence activities described in the Plan prior to Superintendent approval of the Plan.	EXPLOSIVES MANAGEMENT PLAN – REVISED
10. A minimum of 90 days prior to commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a Fish and Fish Habitat Protection Plan . The Plan shall be in accordance with the requirements of Schedule 5, Condition 7. The Licensee shall not commence activities described in the Plan prior to Superintendent approval of the Plan.	FISH AND FISH HABITAT PROTECTION PLAN – REVISED
Inspections of Structures and Facilities	
11. The Licensee shall conduct annual inspections of flood control structures, and watercourse diversion structures, or as otherwise directed by the Superintendent. Records of these inspections shall be made available to the Superintendent upon request.	ANNUAL INSPECTION
12. The Licensee shall ensure that geotechnical inspections of all Engineered Structures, except for the Water Supply Facilities, are conducted annually during the summer months, and following any events that exceed design criteria, by a Professional Engineer, including, but not limited to, any extreme events such as earthquakes, flooding, cracks, sinkhole formation. The Licensee shall: <ul style="list-style-type: none"> a) A minimum of two weeks prior to the annual inspection, and when events that 	ANNUAL GEOTECHNICAL INSPECTION

Condition	Condition Title
<p>exceed design criteria occur, provide written notification to the Superintendent; and</p> <p>b) Within 90 days of completing the inspection, submit the Professional Engineer’s full Geotechnical Inspection Report to the Superintendent. The Report shall include:</p> <ul style="list-style-type: none"> i. a covering letter from the Licensee outlining an implementation plan to respond to any recommendations made by the Professional Engineer, including rationale for any decisions that deviate from the Professional Engineer’s recommendations; and ii. a summary of any actions taken by the Licensee to address the recommendations made following the previous year’s inspection. 	
Discharge and Disposal Locations and Rates	
<p>13. The Licensee shall dispose of all Waste as described in the approved Waste Management Plan.</p>	<p>ALL WASTE – WASTE MANAGEMENT PLAN</p>
<p>14. A minimum of ten days prior to the first deposit of any Waste into a licenced municipal facility for the calendar year, the Licensee shall provide written notification to the Superintendent.</p>	<p>NOTIFICATION – WASTE DISPOSAL</p>
<p>15. The Licensee shall not dispose of Waste, including Wastewater, to any Watercourse, or to the ground surface within 100 metres of the Ordinary High-Water Mark of any Watercourse.</p>	<p>DISPOSAL LOCATION – ORDINARY HIGH-WATER MARK</p>
Performance Monitoring Criteria	
<p>16. The Licensee shall ensure water quality downstream of all in-water Construction activities, in addition to SNP Station NNPR-2019-2 a, b, c, d, e, f, g, h, i and j meet the following criteria:</p> <ul style="list-style-type: none"> a) If the background concentration of total suspended solids is (TSS) ≤ 250 mg/L, the maximum concentration for TSS shall not exceed 25 mg/L above background in any daily sample, and shall not exceed 5 mg/L above background when averaged over any 30-day period; b) If the background concentration of TSS is > 250 mg/L, TSS concentrations shall not exceed 10% of background; and <p>All TSS samples are to be analyzed and measured in accordance with the approved Water Management Plan referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED).</p>	<p>TSS – CRITERIA</p>
<p>17. If Water quality data from any sample collected downstream of any in-water Construction activities and SNP stations NNPR-2019 -2 a, b, c, d, e, f, g, h, i and j exceeds the TSS criteria specified in Part F, Condition 16 (TSS CRITERIA), the Licensee shall:</p> <ul style="list-style-type: none"> a) Notify the Superintendent immediately; b) Implement the contingency response actions from the approved Sediment and Erosion Control Plan referred to in Part F, Condition 3; and <p>Within 30 days of initially reporting the incident, or within a timeframe authorized by the Superintendent, submit a detailed report on the occurrence, including a summary of corrective actions taken, to the Superintendent.</p>	<p>TSS CRITERIA EXCEEDANCE</p>
Other	
<p>18. If an Artesian Aquifer is encountered and producing Water at the ground surface, the Licensee shall:</p> <ul style="list-style-type: none"> a) Implement the approved Spill Contingency Plan b) Within 48 hours, notify the Superintendent, in writing, including the flow rate in cubic metres; 	<p>18.</p>

Condition	Condition Title
c) Dispose of Artesian Aquifer Water to a snow-bermed or self-contained area, unless otherwise authorized by the Superintendent; d) Collect a sample of no less than ten litres of Artesian Aquifer Water, provide five litres of the sample to the Superintendent for analysis, analyze the remaining sample as set out for SNP NNPR 2024-3 and provide the analytical results to the Superintendent; e) Seal the point of release to permanently prevent any further outflow of water and to the satisfaction of the Superintendent; and Within 24 hours following cessation of the flow of Artesian Aquifer Water, submit a detailed report of the event to the Superintendent, including the total amount of Water in cubic metres that has been released, and the total amount of Water in cubic metres stored in the snow-bermed, or otherwise approved, storage area.	

Part G: Aquatic Effects Monitoring

Intentionally left blank

Part H: Spill Contingency Planning

1. The Licensee shall ensure that Unauthorized Releases associated with the Project do not enter any Water.	OBJECTIVE – PREVENT WASTE INTO WATER
2. A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Spill Contingency Plan . The Licensee shall not commence any Construction prior to Superintendent approval of the Plan.	SPILL CONTINGENCY PLAN – REVISED
3. If a spill or an Unauthorized Release occurs or is foreseeable, the Licensee shall: <ul style="list-style-type: none"> a) Implement the approved Spill Contingency Plan referred to in Part H, Condition 2 (SPILL CONTINGENCY PLAN – REVISED); b) Report it immediately to the Superintendent by one of the following methods: <ul style="list-style-type: none"> • Telephone: (867) 695-6572 • E-mail: pc.officierendevoirrpnahanni-nahanninprduyofficer.pc@canada.ca c) Report it immediately using the NU-NT Spill Report Form by one of the following methods: <ul style="list-style-type: none"> • Telephone: (867) 920-8130 • Fax: 867) 873-6924 • E-mail: spills@gov.nt.ca • Online : Spill Reporting and Tracking Database 	REPORT SPILLS
<p>Within 30 days of initially reporting the incident, or within a timeframe authorized by the Superintendent, submit a detailed report to the Superintendent, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Written notification shall be provided to the Superintendent if any changes occur.</p>	
4. The Licensee shall ensure that spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.	SPILL PREVENTION AND RESPONSE EQUIPMENT
5. The Licensee shall restore all areas affected by spills and Unauthorized Releases to the satisfaction of the Superintendent.	CLEAN UP SPILLS
6. The Licensee shall not locate any fuel, chemicals, or Waste within 100 metres of the Ordinary High-Water Mark of any Watercourse unless otherwise authorized in writing by the Superintendent.	MATERIAL STORAGE –

Condition	Condition Title
7. A minimum of 90 days prior to the commencement of Construction, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Emergency Response Plan . The Licensee shall not commence any Construction prior to Superintendent approval of the Plan.	ORDINARY HIGH-WATER MARK EMERGENCY RESPONSE PLAN-REVISED

Part I: Closure and Reclamation

1. As directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a Closure and Reclamation Plan . The Plan shall be in accordance with the requirements of Schedule 6, Condition 1.	CLOSURE AND RECLAMATION PLAN
2. Every three years following the previous approval, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Closure and Reclamation Plan . The Plan shall be in accordance with the requirements of Schedule 6, Condition 1.	CLOSURE AND RECLAMATION PLAN – REVISED
3. Three years prior to the expiry date of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a final Closure and Reclamation Plan . The Plan shall be in accordance with the requirements of Schedule 6, Condition 1.	CLOSURE AND RECLAMATION PLAN – FINAL
4. The Licensee shall endeavor to carry out approved Progressive Reclamation as soon as is reasonably practicable.	PROGRESSIVE RECLAMATION
5. The Licensee shall conduct Progressive Reclamation in accordance with the most-recently approved Closure and Reclamation Plan, or as otherwise approved by the Superintendent.	PROGRESSIVE RECLAMATION – CARRY OUT AS APPROVED
6. Beginning April 1, 2025 and no later than every May 30 thereafter, the Licensee shall provide written notification to the Superintendent of any approved Progressive Reclamation that will be conducted in the upcoming year. Notification shall include the name and contact information for the individual responsible for overseeing the Progressive Reclamation. Written notification shall be provided to the Superintendent if any changes occur.	PROGRESSIVE RECLAMATION – NOTIFICATION
7. Within 90 days of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Superintendent, a Closure and Reclamation Completion Report . The Report shall be in accordance with the <i>MVLWB/AANDC Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories</i> .	CLOSURE AND RECLAMATION COMPLETION REPORT
8. As directed by the Superintendent, the Licensee shall submit to the Superintendent for approval, a Post-Closure Monitoring and Maintenance Plan . The Plan shall be in accordance with the requirements of Schedule 7, Condition 2.	POST-CLOSURE MONITORING AND MAINTENANCE PLAN
9. Within six months of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Superintendent for approval, a Performance Assessment Report . The Report shall be in accordance with the <i>MVLWB/AANDC Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories</i> . The Licensee shall submit subsequent Reports as directed by the Superintendent.	PERFORMANCE ASSESSMENT REPORT – COMPONENT-SPECIFIC

Signed on behalf of the Minister

Signature, A/Field Unit Superintendent, Southwest
Northwest Territories, Parks Canada

Signature Witness

Moira McKinnon

Schedule 1: Surveillance Network Program (SNP)

Quality Assurance/Quality Control Plan Requirements

1. The Licensee shall comply with a **Quality Assurance/Quality Control Plan (QA/QC Plan)**, once approved.
2. The Licensee shall comply with the approved **QA/QC Plan**. The **QA/QC Plan** shall include, at a minimum, the following items, for the purposes of quality assurance and quality control:
 - a) a list of techniques that will be used to collect and analyze samples collected under the SNP;
 - b) both field and laboratory requirements; and
 - c) QA/QC samples, including definitions and requirements for both field and laboratory.
3. The Licensee may propose changes at any time by submitting a revised **QA/QC Plan** to the Superintendent, for approval, a minimum of 60 days prior to the proposed implementation date for the changes. The Licensee shall not implement the changes until approved by the Superintendent.
4. If the **QA/QC Plan** is not approved by the Superintendent, the Licensee shall revise the Plan according to the Superintendent's direction and re-submit it to the Superintendent, for approval.

SNP Station Descriptions and Sampling Requirements

5. The SNP referred to in Part B, Condition 15 (COMPLY WITH SURVEILLANCE NETWORK PROGRAM) shall be conducted in accordance with requirements set out in the tables below.
6. The location of each SNP Station shall be subject to approval from the Superintendent.
7. More frequent sample collection may be required at the request of the Superintendent.
8. All sample collection, preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of American Public Health Association's (APHA) *Standard Methods for the Examination of Water and Wastewater* at the time of analysis, or by such other methods approved by the Superintendent.
9. All analyses shall be performed in a laboratory accredited by the Canadian Association for Laboratory Accreditation (CALA) for the specific analyses to be performed or as approved by the Superintendent.

SNP Tables

SNP Station Quick Reference Guide

Station #	Description	Status
SNP NNPR-2019-1 a, b, c, d, e, f, g, h and i	Daily Water Use for all purposes. a) Mosquito Lake (km 63.5) b) Lake 70 (km 70.5) c) Sundog Creek I (km 23.1) d) Sundog Creek II (km 29.0) e) Sundog Creek III (km 37.5) f) Polje Creek (km 53.2) g) Fishtrap Creek (km 94.6) h) Tetcela River (km 89.4) i) Cat Camp pit (km 39.4)	Active during Phase 1, Phase 2, and Phase 3
SNP NNPR-2019-2 a, b, c, d, e, f, g, h, i and j	Monitor surface water quality at the following crossings: a) Sundog Creek (KP 20.3) b) Sundog Creek (KP 23.3) c) Sundog Creek (KP 25.4) d) Sundog Creek (KP 28.5) e) Sundog Creek (KP 39.2) f) Unnamed (KP 42.9) g) Poljie (KP 53.2) h) Tetcela (KP 87.0) i) Tetcela (KP 89.5) j) Fish Trap (KP 95)	Active during spring freshet and summer of Phase 1, Phase 2, and Phase 3
SNP NNPR 2024-3	A floating SNP station for when Artesian Aquifer is encountered and producing Water at the ground surface	Active when Artesian Aquifer is encountered

SNP Station NNPR-2019-1 a, b, c, d, e, f, g, h and i:

Description:	Daily Water Use for all purposes. Water Use shall be measured and recorded in m ³ .
Location:	a) Mosquito Lake (km 63.5) b) Lake 70 (km 70.5) c) Sundog Creek I (km 23.1) d) Sundog Creek II (km 29.0) e) Sundog Creek III (km 37.5) f) Polje Creek (km 53.2) g) Fishtrap Creek (km 94.6) h) Tetcela River (km 89.4) i) Cat Camp pit (km 39.4)
Sampling Frequency:	Daily when pumping is in progress
Sampling Parameters:	Flow meter (m ³ /s) or tracking volume used (m ³) through tanker loads of known quantity.
Rationale:	Sites of compliance monitoring, in accordance with daily quantity Water Use limits identified in Part D, condition 1 (WATER SOURCE AND MAXIMUM VOLUME) of this Licence, and DFO guidelines for water withdrawal. To monitor the quantity of daily Water Use.
Status:	Active during Phase 1, Phase 2, and Phase 3

SNP Station NNPR-2019-2 a, b, c, d, e, f, g, h, i and j:

Description:	The surface water quality at near-field (2-5m) downstream of the major stream crossings
Location:	a) Sundog Creek (KP 20.3) b) Sundog Creek (KP 23.3) c) Sundog Creek (KP 25.4) d) Sundog Creek (KP 28.5) e) Sundog Creek (KP 39.2) f) Unnamed (KP 42.9) g) Poljie (KP 53.2) h) Tetcela (KP 87.0) i) Tetcela (KP 89.5) j) Fish Trap (KP 95)
Sampling Frequency:	June (spring freshet) and August (summer)
Sampling Parameters:	<ul style="list-style-type: none"> • Field parameters¹ • Standard parameters² • Major ions³ • Total Suspended Solids⁴ • Oil and Grease (Hexane Extractable Materials) • Total Metals⁵ • Petroleum Hydrocarbons⁶
Rationale:	Sites of compliance monitoring in accordance with Part F, Condition 16 (TSS – CRITERIA). To monitor impacts of stream crossings on water quality.
Status:	Active during spring freshet and summer of Phase 1, Phase 2, and Phase 3

SNP NNPR Station 2024-3

Description:	The quality of Artesian Aquifer Water at ground surface
Location:	Where an Artesian Aquifer is encountered and producing Water at ground surface
Sampling Frequency:	As directed by the Inspector
Sampling Parameters:	<ul style="list-style-type: none"> • Field parameters¹ • Standard parameters² • Major ions³ • Total Suspended Solids⁴ • Total Metals⁵
Rationale:	Compliance monitoring in accordance with Part F, Condition 18 (REPORT ARTESIAN AQUIFER). To monitor the quality of water coming from an Artesian Aquifer.
Status:	Active when Artesian Aquifer is encountered.

Notes

¹ Field measurements shall include, at a minimum, the following parameters: pH, electrical conductivity, temperature, dissolved oxygen, turbidity.

² Standard parameters shall include, at a minimum, the following parameters: pH, electrical conductivity, and turbidity.

³ Major ions shall include, at a minimum, the following parameters: alkalinity, hardness, calcium, chloride, fluoride, magnesium, potassium, sodium, sulphate, total dissolved solids.

⁴ Total suspended solids (TSS) samples shall be measured in accordance with the approved **Water Management Plan** referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED).

⁵ Total metals shall include, at a minimum, the following parameters: aluminum, antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, chromium, cesium, iron, lead, lithium, manganese, mercury, molybdenum, nickel, rubidium, selenium, strontium, titanium, thallium, uranium, vanadium, zinc. Total metals shall be analyzed in an unfiltered sample.

⁶ Petroleum hydrocarbon analysis shall include, at a minimum, the following parameters: BTEX (Benzene, Toluene, Ethylbenzene, Xylene), Fraction 1 (C6-C10), Fraction 2(C10 to C16), Fraction 3 (C16 to C34), and Fraction 4 (C34 to C50).

Flow and Volume Measurement Requirements

10. The Licensee shall measure and record all flow and volume continuously (I.e. using electronic data storage chip, water elevation, or weir, or equivalent) during water withdrawal described in Part D, Condition 1 (WATER SOURCE AND MAXIMUM VOLUME) and Part D, Condition 2 (MAXIMUM UNDER-ICE WATER WITHDRAWAL VOLUME).
11. The Licensee shall measure all flow and volume in cubic metres per second (m³/s) and cubic meters (m³):
 - a) The flow of rivers and creeks described in Part D, Condition 1 (WATER SOURCE AND MAXIMUM VOLUME) during water withdrawal;
 - b) The instantaneous flow rate of water pumped from rivers and creeks described in Part D, Condition 1 (WATER SOURCE AND MAXIMUM VOLUME) during water withdrawal;
 - c) The daily volume of water pumped from lakes described in Part D, Condition 1 (WATER SOURCE AND MAXIMUM VOLUME) during water withdrawal.

Reporting Requirements

12. Within 30 days of completing SNP sampling each month, and every month thereafter, the Licensee shall submit a **Surveillance Network Program Report (SNP Report)**, to the Superintendent. The SNP Report, shall include, but not be limited to, the following information:
 - a) Information regarding the calibration and status of the meters and devices referred to in Part B, Condition 19 (MEASURE WATER USE AND WASTE DISCHARGED);
 - b) Electronic and tabular summaries of all data and information required by the SNP referred to in Schedule 1, in accordance with Part B, Condition 6 (SUBMISSION FORMAT);
 - c) Any interpretive comments and calculations and rationale for SNP stations where samples were not collected;
 - d) The coordinates of all SNP stations sampled each month, including an updated map identifying the locations of all the SNP stations in accordance with Part B, Condition 6 (SUBMISSION FORMAT);
 - e) The daily flow and volume measurements from Water sources described in Part D, Condition 1 (WATER SOURCE AND MAXIMUM VOLUME) and Schedule 1, Condition 10;
 - f) A tabular summary of cumulative Water Use;
 - g) Graphical summaries and interpretation of the analytical results from the SNP samples collected at the point of compliance (SNP NNPR-2019-2 a, b, c, d, e, f, g, h, i and j) with comparison to the criteria specified in Part F, Condition 16 (TSS – CRITERIA);
 - a. An explanation of any actions taken in response to any exceedances to the criteria in Part F, Condition 17 (TSS CRITERIA EXCEEDANCE); and
 - b. Results and interpretation of QA/QC procedures and QA/QC samples as described in the approved QA/QC Plan referred to in Schedule 1, Condition 1;
 - c. A tabular summary of cumulative Water Use; and
 - d. Any other details required by the Superintendent.

Schedule 2: Annual Water Licence Report

Condition

1. The **Annual Water Licence Report** referred to in Part B, Condition 20 of this Licence shall include, but not be limited to, the following information about activities conducted during the previous calendar year.
 - a) A brief summary of Project activities;
 - b) An updated Project schedule;
 - c) A summary of meteorological data collected for Project activities, including but not limited to temperature in degree Celsius, precipitation in mm, evaporation, wind speed in kilometre per hour, and wind direction;
 - d) A summary of how Traditional Knowledge was incorporated into decision making referred to in Part B, Condition 4 (IDENTIFY TRADITIONAL KNOWLEDGE) of this Licence;
 - e) The monthly and annual quantities in cubic metres of fresh Water obtained from all sources, as required in Part B, Condition 19 (MEASURE WATER USE AND WASTE DISCHARGED) of this Licence;
 - f) A summary of the calibration and status of the meters and devices referred to in Part B, Condition 19 (MEASURE WATER USE AND WASTE DISCHARGED) of this Licence;
 - g) A summary of engagement activities conducted in accordance with the approved **Engagement Plan**, referred to in Part B, Condition 21 (ENGAGEMENT PLAN) of this Licence;
 - h) A summary of security posted or adjusted in accordance with Part C of this Licence;
 - i) A summary of Construction activities conducted in accordance with Part E of this Licence, including:
 - i. A comparison of the geochemical records of Construction material to the geochemical criteria referred to in Part E, Condition 3 (CONSTRUCTION MATERIAL – GEOCHEMICAL CRITERIA) of this Licence;
 - ii. A summary of Construction material used for all structures referred to in Part E;
 - iii. A summary of geochemical records of Construction material referred to in Part E, Condition 6 (GEOCHEMICAL RECORDS) of this Licence;
 - iv. A summary of structures and Engineered structures approved by the Superintendent;
 - v. A summary of structures and Engineered structure reviewed and accepted by the Panel; and
 - vi. A summary of **As-Built Reports** submitted.
 - j) A summary of maintenance activities conducted in accordance with this Licence;
 - k) A summary of activities conducted in accordance with the approved **Waste Management Plan**, referred to in Part F, Condition 2 (WASTE MANAGEMENT PLAN – REVISED) of this Licence, including:
 - i. A summary of approved updates or changes to the process or facilities required for the management of Waste;
 - ii. Monthly and annual quantities, in cubic metres, of solid Waste including, but not limited to domestic Waste and recyclable Waste, disposed of, by location;
 - iii. Monthly and annual quantities, in cubic metres, of liquid Waste including, but not limited to drilling Waste and Greywater, disposed of, by location;
 - iv. Monthly and annual quantities, in cubic metres, of Hazardous Waste disposed of, by location;
 - v. Monthly and annual quantities, in cubic metres, of Sewage solids removed from the Sewage Management Facilities, identified by disposal location;
 - vi. A map depicting the location of Sumps
 - vii. A map depicting the location of Septic Systems; and
 - viii. A summary and interpretation of any ground water quality monitoring results including but not limited to:
 - a. A list of any Action Level exceedances;
 - b. A description of actions taken in response to any Action Level exceedances; and
 - c. A summary of any contingency actions taken.

Condition

- l) A summary of activities conducted in accordance with the approved **Sediment and Erosion Control Plan**, referred to in Part F, Condition 3 (SEDIMENT AND EROSION CONTROL PLAN – REVISED) of this Licence, including:
- i. A summary of approved updates or changes to the process or facilities required for the management of erosion and sedimentation;
 - ii. A description of any erosion susceptible areas encountered (provide a map and photos);
 - iii. A summary of activities undertaken to prevent or mitigation erosion;
 - iv. A report of the performance of mitigations applied;
 - v. A summary and interpretation of any monitoring results;
 - vi. A list of any Action Level exceedances;
 - vii. A description of actions taken in response to any Action Level exceedances; and
 - viii. A summary of any contingency actions taken.
- m) A summary of activities conducted in accordance with the approved **Permafrost Management and Monitoring Plan**, referred to in Part F, Condition 4 (PERMAFROST MANAGEMENT AND MONITORING PLAN – REVISED) of this Licence, including:
- i. A description of how Report of EA Measure 12-1 has been met;
 - ii. A summary and interpretation of any monitoring results;
 - iii. A list of any Action Level exceedances;
 - iv. A description of actions taken in response to any Action Level exceedances; and
 - v. A summary of any contingency actions taken.
- n) A summary of activities conducted in accordance with the approved **Geochemical Verification Program**, referred to in Part F, Condition 5, GEOCHEMICAL VERIFICATION PROGRAM – REVISED including:
- i. A summary of approved updates or changes to the processes for characterizing and managing Acid Rock Drainage and Metal Leaching;
 - ii. A summary of results from geochemical assessment of bedrock, Borrow, and overburden;
 - iii. A summary and interpretation of results from Seepage monitoring performed under the approved **Geochemical Verification Program**, including:
 - a. a site map with Seepage locations;
 - b. comparisons to reference locations;
 - c. an analysis of major trends over the year and since Project inception; and
 - d. a summary of recommendations for future Seepage monitoring and/or management actions;
 - iv. A summary and interpretation of Water quality monitoring results for each of the main source areas;
 - v. A summary of any Action Level exceedances;
 - vi. A description of actions taken in response to any Action Level exceedances; and
 - vii. A summary of any contingency actions taken, including, but not limited to the management of Waste Rock.
- o) A summary of activities conducted in accordance with the approved **Borrow Source Management Plan**, referred to in Part F, Condition 6 BORROW SOURCE MANAGEMENT PLAN – REVISED of this Licence, including:
- i. A summary of Borrow Sources approved under the **Borrow Source Management Plan**;
 - ii. A summary of constructed and used Borrow Sources, including the source, tonnage, volume and destination;
 - iii. A summary of stockpiles associated with each Borrow Source; and
 - iv. A summary of Settling Ponds associated with each Borrow Source.
- p) A summary of activities conducted in accordance with the approved **Water Management Plan**, referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED) of this licence, including:
- i. A summary and interpretation of baseline data collected;
 - ii. A summary of approved updates or changes to the processes for monitoring water;
 - iii. A summary of conducted monitoring linked to other plans and programs;

Condition

- iv. A summary and interpretation of any monitoring results;
 - v. A list of any Action Level exceedances;
 - vi. A description of actions taken in response to any Action Level exceedances; and
 - vii. A summary of any contingency actions taken.
- q) A summary of activities conducted in accordance with the approved **Explosives Management Plan**, required in Part F, Condition 9 (EXPLOSIVES MANAGEMENT PLAN – REVISED) of this Licence, including:
- i. A summary and interpretation of any monitoring results;
 - ii. A list of any Action Level exceedances;
 - iii. A description of actions taken in response to any Action Level exceedances; and
 - iv. A summary of any contingency actions taken.
- r) A summary of activities conducted in accordance with the approved Fish and Fish Habitat Protection Plan, required in Part F, Condition 10 (FISH AND FISH HABITAT PROTECTION PLAN – REVISED) of this Licence, including:
- i. A summary of approved updates or changes to the Fish and Fish Habitat Protection Plan
 - ii. A summary and interpretation of any monitoring results; and
 - iii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.
 - iv. A summary of any contingency actions taken
- s) A summary of the results and any actions taken as a result of the following inspections required under Part F of this Licence:
- i. Visual inspections conducted under the **Geochemical Verification Program**
 - ii. Inspections of structures/facilities referred to in Part F, Condition 11 (ANNUAL INSPECTION); and
 - iii. Geotechnical inspections referred to in Part F, Condition 12 (ANNUAL GEOTECHNICAL INSPECTION).
- t) A summary of performance monitoring from all in-water Construction activities, including but not limited to:
- i. Monitoring results from all in-water Construction activities, in addition to SNP stations NNPR-2019-2 a, b, c, d, e, f, g, h, i and j;
 - ii. Any TSS criteria exceedances referred to in Part F, Condition 16 (TSS – CRITERIA); and
 - iii. A summary of contingency actions taken in response to TSS criteria exceedances referred to in Part F, Condition 17 (TSS CRITERIA EXCEEDANCE).
- u) A summary of Artesian Aquifers encountered and response activities implemented;
- v) A summary of activities conducted in accordance with the approved **Spill Contingency Plan**, referred to in Part H, Condition 2 (SPILL CONTINGENCY PLAN – REVISED) of this Licence, including:
- i. A list and description for all Spills and Unauthorized Releases, including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e., open or closed), in accordance with the reporting requirements in Part H, Condition 3 (REPORT SPILLS) of this Licence; and
 - ii. An outline of any spill training carried out.
- w) A summary of activities conducted in accordance with the **Closure and Reclamation Plan**, referred to in Part I, Condition 1 (CLOSURE AND RECLAMATION PLAN) of this Licence, including:
- i. Details of any Progressive Reclamation undertaken;
 - ii. A discussion on whether planning and implementation remains on schedule, and a summary of any new scheduling setbacks;
 - iii. A summary of Reclamation Research completed;
 - iv. A summary of engagement conducted regarding Closure and Reclamation;
 - v. A list of any factors that would increase or decrease the Closure Cost Estimate the next time the Closure Cost Estimate is updated.
- x) Tabular summaries of all data and information generated under the SNP in Schedule 1 of this Licence and graphical summaries of parameters in Excel format in accordance with the Board's *Document*

Condition*Submission Standard.*

- y) A list of any non-compliance(s) with the conditions of this Licence or any directive from the Superintendent pursuant to the conditions of this Licence;
- z) A table detailing all commitments related to Water Use and the Deposit of Waste made during the Environmental Assessment, with descriptions of how each commitment is being or has been met; and
- aa) Any other details requested by the Superintendent by November 30 of the year being reported

Schedule 3: Conditions Applying to Security

Condition

- | |
|---|
| <ol style="list-style-type: none">1. The amount of security referred to in Part C, Condition 1 (POST SECURITY DEPOSIT), shall total \$3,056,474, as per the following schedule:<ol style="list-style-type: none">a) No later than 60 days from the effective date of this Licence, the Licensee shall deposit \$482,067; andb) Prior to the commencement of Phase 2 activities, an additional \$2,574,407 to maintain a total security deposit in the amount of \$3,056,474. |
|---|

Schedule 4: Conditions Applying to Construction

Condition

1. The **Structure Description and Construction Plan** referred to in Part E, Conditions 7 (STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN) and 19 (STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN – PANEL) shall include, but not be limited to, the following:
 - a) Information regarding the facilities:
 - i. A description of the facilities to be constructed, including the purpose of the facilities;
 - ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;
 - iii. Relevant background information for the area beneath the footprint of the of the facilities, including the results of any investigations;
 - iv. Construction specifications and performance parameters;
 - v. A description of any operations and maintenance requirements associated with the facilities; and
 - vi. An explanation of why the facilities do not need to be designed by a Professional Engineer.
 - b) Information regarding the Construction of the facilities:
 - i. A Construction schedule, including sequencing information;
 - ii. A description of the materials required for Construction, including, but not limited to:
 - a. sources;
 - b. quantities;
 - c. physical characteristics; and
 - d. geochemical characteristics.
 - iii. A description of any potential effects on the Receiving Environment associated with Construction of the facilities; and
 - iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified as per (b)(iii).
 - c) Information regarding monitoring during Construction, including:
 - i. A description of any monitoring that will be conducted to determine the potential impacts to the Receiving Environment and the effectiveness of the mitigation measures described as per (b)(iv), including, but not limited to:
 - a. locations;
 - b. parameters;
 - c. frequencies; and
 - d. rationale.
 - ii. Linkages to other monitoring programs required in this Licence.
 - d) A description of how monitoring will be evaluated and what actions may be taken in response to monitoring results.
2. The **Design and Construction Plans** referred to in Part E, Conditions 8 (DESIGN AND CONSTRUCTION PLAN) and 20 (DESIGN AND CONSTRUCTION PLAN – PANEL) shall include, but not be limited to, the following:
 - a) Information regarding the design of the facilities:
 - i. A description of the facilities to be constructed;
 - ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;
 - iii. Relevant background information for the area beneath the footprint of the facilities, as deemed adequate by the Professional Engineer responsible for the design, including:
 - a. the results and data from geotechnical and geochemical investigations; hydrogeological investigations; and programs to characterize soil, rock, Groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the facilities; and
 - b. any other relevant information.
 - iv. A design alternatives analysis;
 - v. Design specifications and performance parameters;
 - vi. Stability analyses;
 - vii. For the road:

- a. coordinates and curve tables, also supplied in digital format, including route centerlines (P-lines);
 - b. for the Typical Winter Road, geometric layout that outlines the road width and right of way, depicted in a plan view map that shows the preferred location of the road, the extent of clearing to be completed, and the proposed All Season Road right of way clearing; and
 - c. for the Non-Typical Winter Road, additional detail on road characteristics in profile view and any site-specific construction considerations.
 - viii. A description of how the design has been optimized for Closure and Reclamation;
 - ix. A description of how climate change projections and considerations have been incorporated into the design;
 - x. A description of any instrumentation that will be installed as part of the facilities, including locations and rationale; and
 - xi. A description of any operations and maintenance requirements associated with the design of the facilities.
- b) Information regarding the Construction of the facilities:
- i. A Construction schedule, including sequencing information;
 - ii. A description of the materials required for Construction, including, but not limited to:
 - a. sources;
 - b. quantities;
 - c. physical characteristics; and
 - d. geochemical characteristics.
 - iii. A description of any potential effects on the Receiving Environment associated with Construction of the facilities; and
 - iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified above.
- c) Information regarding monitoring during Construction, including:
- i. A description of any monitoring that will be conducted to demonstrate conformance with the design specifications and design performance, and to detect potential impacts to the Receiving Environment and evaluate the effectiveness of the mitigation measures described above, including, but not limited to:
 - a. locations;
 - b. parameters;
 - c. frequencies; and
 - d. rationale.
 - ii. Linkages to other monitoring programs required in this Licence
- d) Information regarding responses to monitoring results during Construction, including:
- i. Definitions, with rationale, for Action Levels applicable to the performance of the mitigation measures; and
 - ii. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions may be taken by the Licensee if the Action Level is exceeded.
- e) A **Quality Control Plan** stamped by a Professional Engineer, a component of which includes a plan for a Professional Engineer to supervise and field check Construction activities.
3. For Engineered Structures, an **As-Built Report** signed and stamped by a Professional Engineer shall include:
- a) A description of the Engineered Structure with reference to the associated Design and Construction Plans and/or Design Drawings.
 - b) As-built drawings, signed and stamped by a Professional Engineer, for each Engineered Structure with similar detail to the corresponding design drawings as described in Item 3.a) of this schedule.
 - c) In addition to the requirements of Part B, Condition 10, provide documentation of field decisions that deviate from the approved **Design and Construction Plans** and **Design Drawings**, including approval of the deviation by the Professional Engineer indicating that the deviation meets the design intent. Any data used to support the deviation shall be included.
 - d) A description and list of instrumentation installed, if applicable, and the outcomes from Schedule

- 4, Condition 2 c) and d).
 - e) A summary of quality control completed, including the comparison of quality control to design requirements, construction activities, and photographic records before, during and after construction.
 - f) A summary of quality assurance completed, including the comparison of quality assurance to design requirements, construction activities, and photographic records before, during, and after construction.
 - g) A comparison of measured versus predicted performance and required monitoring to ensure performance is maintained.
4. For non-engineered structures, a **Construction Summary Report** shall include:
- a) A description of the non-Engineered Structure with reference to the associated **Structure Description and Construction Plan**.
 - b) Drawings of the non-engineered structure.
 - c) In addition to the requirements of Part B, Condition 10, provide documentation of field decisions that deviate from the original plans. Any data used to support the deviation shall be included.
 - d) A description and list of instrumentation installed, if applicable, and the outcomes from Schedule 4, Condition 1 c) and d).
 - e) A summary of quality control completed, including the comparison of quality control to construction requirements, construction activities, and photographic records before, during, and after construction.
 - f) A summary of quality assurance completed, including the comparison of quality assurance construction requirements, construction activities, and photographic records before, during, and after construction.
 - g) A comparison of measured versus predicted performance and required monitoring to ensure performance is maintained.

Schedule 5: Conditions Applying to Waste and Water Management

Condition

1. The **Sediment and Erosion Control Plan**, referred to in Part F, Condition 3 (SEDIMENT AND EROSION CONTROL PLAN – REVISED) of this Licence shall include, but not be limited to, the following information:
 - a) Information regarding erosion and sedimentation, including:
 - i. A summary of the areas identified as susceptible to erosion and sedimentation including, but not limited to, road embankment cuts, and riparian areas;
 - ii. Maps and/or diagrams, including:
 - a. Locations of areas susceptible to erosion and sedimentation;
 - b. Locations of erosion and sedimentation management structures;
 - c. Locations of erosion and sedimentation control equipment and supplies; and
 - d. Monitoring locations.
 - iii. A description of the process and criteria for assessing the risk of erosion and sedimentation;
 - iv. A description of best management practices that will be employed for different levels of assessed risk;
 - v. A description of Water management during use of explosives, Construction and operation of roads, barge landings, and Borrow Sources;
 - vi. A description of how climate change has been considered, including any linkages to other plans required under this Licence; and
 - vii. Any other information required to describe how erosion and sediment release into the Receiving Environment will be minimized.
 - b) Information regarding monitoring, including;
 - i. Linkages to the **Water Management Plan** referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED) of this Licence;
 - ii. Any linkages to other plans and programs required under this Licence;
 - iii. Details of the other types of monitoring, including rationale, that will be undertaken with respect to the effectiveness and maintenance of erosion and sediment management practices, including:
 - a. Monitoring locations, parameters, frequencies, methods, and types of instrumentation; and
 - b. Predicted performance values for monitoring parameters based on expected facility design.
 - iv. Any other information about monitoring that will be performed to meet the objectives in Part F, Condition 1.
 - c) Information regarding a Response Framework in accordance with the Appendix B of the Report of EA, including:
 - i. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 are met. This description shall include:
 - a. A decision tree that outlines the path of adaptive management decision;
 - b. Definitions, with rationale, for Action Levels applicable to the performance of erosion and sedimentation control measures;
 - c. For each Action Level, a description of how exceedances of the Action Level will be assessed and generally, which types of actions will be taken for the Action Levels exceeded;
 - d. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - e. For response action, a specific tier of Action Level exceedances and a timeframe to submit Response Plan to the Superintendent for approval.
 - d) Information regarding contingency planning, including:
 - i. A description of reasonably foreseeable scenarios; and
 - ii. For each scenario identified in (i) above:
 - a. A description of response action options; and
 - b. A risk-based analysis of response action options, identifying preferred options and alternate options.

Condition

2. The **Permafrost Management and Monitoring Plan** referred to in Part F, Condition 4 (PERMAFROST MANAGEMENT AND MONITORING PLAN – REVISED) shall include, but not be limited to, the following information:
 - a) Information regarding permafrost management, including:
 - i. A summary of information and results from permafrost investigations in accordance Measure 12-1, Part 2 of the Report of EA;
 - ii. A summary of the areas identified as susceptible to permafrost degradation;
 - iii. Maps and/or diagrams, including:
 - a. Locations of areas susceptible to permafrost degradation; and
 - b. Monitoring locations.
 - iv. A description of the process and criteria for assessing the risk of permafrost degradation;
 - v. A description of the best management practices that will be employed for different levels of assessed risk;
 - vi. A description of proposed control and mitigation measures;
 - vii. A description of how climate change has been considered;
 - viii. Any linkages to other plans and programs required under this Licence; and
 - ix. Any other information required to describe how permafrost degradation will be minimized.
 - b) Information regarding monitoring, including:
 - i. Details of the monitoring, including rationale, that will be undertaken to measure the effects of the Project on permafrost (with an emphasis on early detection of any changes in permafrost) and evaluate the effectiveness of Project design and mitigations in preventing or minimizing permafrost degradation, including:
 - a. Monitoring locations, parameters, frequencies, methods, and types of instrumentation;
 - b. Predicted performance values for monitoring parameters based on expected facility design;
 - ii. Any linkages to other plans or programs required under this Licence; and
 - iii. Any other information about monitoring that will be performed to meet the objectives in Part F, Condition 1 OBJECTIVE – WASTE AND WATER MANAGEMENT.
 - c) Information regarding A Response Framework in accordance with the Measure 12-1 Part 4 and Appendix B of the Report of EA, including:
 - i. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 are met. This description shall include:
 - a. A decision tree that outlines the path of adaptive management decision;
 - b. Definitions, with rationale, for Action Levels applicable to the performance of erosion and sedimentation control measures;
 - c. For each Action Level, a description of how exceedances of the Action Level will be assessed and generally, which types of actions will be taken for the Action Levels exceeded;
 - d. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - e. For response action, a timeframe to submit Response Plan to the Superintendent for approval.
 - d) Information regarding contingency planning, including:
 - i. A description of reasonably foreseeable scenarios; and
 - ii. For each scenario identified in (d)(i) above:
 - a. A description of response action options; and
 - b. A risk-based analysis of response action options, identifying preferred options and alternate options.
3. The **Geochemical Verification Program** referred to in Part F, Condition 5 (GEOCHEMICAL VERIFICATION PROGRAM – REVISED) of this Licence shall include, but not be limited to, the following information:

Condition

- a) Information regarding geochemical characterization, including:
 - i. A summary of findings from previous geochemical characterization (Acid Rock Drainage/Metal Leaching potential) on bedrock, Borrow, and overburden, including references and weblinks to previous reports;
 - ii. A description of geochemical characterization of overburden that will be used in Construction and/or Closure and Reclamation, including specific measures to ensure that this material meets or exceeds the geochemical cut-off criteria defined for non-PAG; and
 - iii. Criteria, with rationale, for defining PAG, non-PAG and Metal Leaching materials.
- b) Information regarding geochemical assessments and supplemental monitoring activities:
 - i. A description of geochemical assessments, including visual inspections, and supplemental sampling and testing of bedrock, Borrow, and overburden;
 - ii. A description, with appropriate maps, of monitoring locations;
 - iii. A description of sampling and analysis of any Seepage or Runoff, or that does not report directly to an SNP monitoring station;
 - iv. Any linkages to other plans or programs required under this Licence; and
 - v. Any other information about the monitoring that will be performed to meet the objectives in Part F, Condition 1.
- c) Quality assurance and quality control measures;
- d) Information regarding a Response Framework to monitoring results in accordance with and Appendix B of the Report of EA, including:
 - i. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 are met. This description shall include:
 - a. A decision tree that outlines the path of adaptive management decisions;
 - b. Definitions, with rationale, for Action Levels applicable to the performance of Acid Rock Drainage/Metal Leaching control measures;
 - c. For each Action Level, a description of how exceedances of the Action Level will be assessed and generally, which types of actions will be taken for the Action Levels exceeded;
 - d. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - e. For response action, a specific tier of Action Level exceedances and a timeframe to submit Response Plan to the Superintendent for approval.
- e) Information regarding contingency planning, including:
 - i. A description of reasonably foreseeable scenarios, including but not limited to:
 - a. increasing trends in Acid Rock Drainage and Metal Leaching; and
 - b. if storage of any PAG material is required.
 - ii. For each scenario identified in (e)(i) above:
 - a. A description of response action options; and
 - b. A risk-based analysis of response action options, identifying preferred options and alternate options.
 - iii. For the scenario identified in (e)(i)(b) above, information regarding PAG material management, including:
 - a. A description of the management PAG material, including:
 - i. appropriate maps or diagrams, including monitoring locations; and
 - ii. descriptions of the methods that will be used to limit generation of acidic drainage and/or Metal Leaching.
 - iii. source, tonnage, volume, and destination of the PAG material; and
 - b. A summary of the operational procedures that will be used to segregate the PAG material;
 - c. Any other information required to describe how the PAG material will be managed such that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) of this Licence are achieved.

Condition

4. The **Borrow Source Management Plan** referred to in Part F, Condition 6 (BORROW SOURCE MANAGEMENT PLAN – REVISED) of this Licence shall include, but not be limited to, the following information:
 - a) Information regarding each Borrow Source, including but not limited to:
 - i. A description, with appropriate maps or diagrams, of locations of each Borrow Source;
 - ii. A description, with appropriate maps or diagrams, of each Borrow Source and associated features, including, but not limited to, topography, stockpiles, and Settling Ponds.
 - iii. A description of the physical characteristics;
 - iv. A description of the intended purpose of each Borrow Source;
 - v. A description of how efforts to reduce the number of Borrow Source has been considered, including justification for each Borrow Source;
 - vi. A description of how hydrogeological characterization has been considered to maintain natural drainage;
 - vii. A description of erosion and sediment management, with linkages to the Sediment and Erosion Control Plan referred to in Part F, Condition 3 (SEDIMENT AND EROSION CONTROL PLAN – REVISED);
 - viii. A description of how permafrost investigations have been considered, including any linkages to the Permafrost Management Plan referred to in Part F, Condition 4 (PERMAFROST MANAGEMENT AND MONITORING PLAN – REVISED);
 - ix. A description of how geochemical characterizations has been considered, including any linkages to the Geochemical Verification Program referred to in Part F, Condition 5 (GEOCHEMICAL VERIFICATION PROGRAM – REVISED);
 - x. A description of dust control measure at the Borrow Sources;
 - xi. A description of how Water and Wastewater at Borrow Sources will be managed such that the objective listed in in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) are achieved; and
 - xii. Any other information required to describe how the Borrow Sources will be managed such that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) are achieved.
 - b) A schedule for Borrow Source production for each Phase, including:
 - i. Sequence and timing of Construction and operation of each Borrow Source;
 - ii. Source, tonnage, volume and destination for each Borrow Source;
 - iii. Location, tonnage, volume of each stockpile; and
 - iv. A description of when changes to the schedule will require updates to the Plan.
5. The **Water Management Plan** referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED) of this Licence shall include, but not be limited to, the following information:
 - a) Information regarding baseline data conditions:
 - i. A summary of baseline data including:
 - a. Baseline data collected to date;
 - b. Identification of baseline data gaps; and
 - c. A description of methods for filling in baseline data gaps.
 - b) Information regarding baseline monitoring:
 - i. A description of baseline monitoring activities, including, but not limited to, the following:
 - a. those required to meet Measure 8-1, Part 2 of the Report of EA;
 - b. for filling in baseline data gaps identified in item a)(i)(c) above;
 - c. in areas with concern of Acid Rock Drainage and Metal Leaching, total suspended solids and turbidity, and blast residue;
 - d. for hydrological conditions at the Liard River barge landing to determine, with rationale, whether a Groundwater monitoring program is necessary;
 - ii. A description of monitoring protocols, methodologies, parameters, and frequencies, specific to each type of monitoring identified in item b)(i) above; and, including, but not limited to:

Condition

- a. A description, with rationale, of any additional hydrometric stations selected for hydrological monitoring; and
 - b. A description of SNP stations referred to in Schedule 1 of this Licence used for Water Quality.
- c) Information regarding monitoring:
- i. Details of monitoring Water and Wastewater, including rationale, that will be undertaken, including:
 - a. monitoring locations, parameters, frequencies and duration, methods, and types of instrumentation; and
 - b. predicted performance values for monitoring parameters based on expected facility design.
 - ii. Linkages to **Sediment and Erosion Control Plan** referred to in Part F, Condition 3 (SEDIMENT AND EROSION CONTROL PLAN – REVISED), including but not limited to:
 - a. development of a TSS/turbidity regression curve to establish the site-specific relationship between turbidity field measurements and laboratory measurements;
 - b. monitoring of upstream, near and downstream, including near, mid- and far-field of construction activities; and
 - c. location of streams for long-term monitoring.
 - iii. Linkages to other monitoring programs required under this Licence, including, but not limited to:
 - a. Design and Construction Plan(s) referred to in Part E of this Licence;
 - b. **Geochemical Verification Program** referred to in Part F, Condition 5 (GEOCHEMICAL VERIFICATION PROGRAM – REVISED) of this Licence;
 - c. **Borrow Source Management Plan** referred to in Part F, Condition 6 (BORROW SOURCE MANAGEMENT PLAN – REVISED) of this Licence; and
 - d. **Explosives Management Plan** referred to in Part F, Condition 9 (EXPLOSIVES MANAGEMENT PLAN – REVISED) of this Licence.
 - iv. Any other information about monitoring that will be performed to meet the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT); and
 - v. A description of the quality assurance and quality control measures.
- d) Information regarding Response Framework that satisfies the requirements of Report of EA Measure 8-1 Part 5 and Appendix B:
- i. A decision tree that outlines the path of adaptive management decision;
 - ii. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) are met. This description shall include:
 - a. Definitions, with rationale, for Action Levels for each parameter of concern;
 - b. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions will be taken for the Action Level exceeded;
 - c. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - d. For response action, a specific tier of Action Level exceedances and a timeframe to submit Response Plan to the Superintendent for approval.
6. The **Explosives Management Plan** referred to in Part F, Condition 9 of this Licence shall include, but not be limited to, the following information:
- a) Information regarding explosives management, including:
 - i. A description of the facilities used for management and storage of explosives;
 - ii. Maps and diagrams of the facilities and monitoring locations;
 - iii. A description of the mitigation approaches to be employed with respect to storage, handling, blasting, disposal, and spills;
 - iv. The predicted ammonium nitrate dissolution rate;
 - v. How the Licensee proposes to minimize nitrogen species loading to the environment;
 - vi. A description of how climate change has been considered, including any linkages to other plans required under this Licence; and
 - vii. Any other information required to describe how explosives will be managed such that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) will be

Condition

met.

- b) Information regarding monitoring, including:
 - i. Details of the monitoring, including rationale, that will be undertaken to evaluate whether the mitigation approaches for storage, handling, and blasting procedures are effective, including:
 - a. monitoring locations, parameters, frequencies, methods, and types of instrumentation; and
 - b. predicted performance values for monitoring parameters based on expected facility design.
 - ii. Any linkages to other plans or programs required under this Licence, including, but not limited to:
 - a. **Water Management Plan** referred to in Part F, Condition 8 (WATER MANAGEMENT PLAN – REVISED); and
 - iii. Any other information about monitoring that will be performed to meet the objectives in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT).
 - c) A description of a Response Framework that satisfies the requirements of Report of EA Appendix B, including but not limited to:
 - i. A decision tree that outlines the path of adaptive management decisions;
 - ii. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) are met. This description shall include:
 - a. Definitions, with rationale, for Action Levels applicable to the performance of the mitigation measures;
 - b. For each Action Level, a description of how exceedances of the Action Level will be assessed and generally, which types of actions will be taken for the Action Levels exceeded;
 - c. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - d. For response action, a specific tier of Action Level exceedances and a timeframe to submit Response Plan to the Superintendent for approval.
 - d) Information regarding contingency planning, including:
 - i. A description of reasonably foreseeable scenarios; and
 - ii. For each scenario identified in (c)(i) above:
 - a. A description of response action options; and
 - b. A risk-based analysis of response action options, identifying preferred options and alternate options.
7. The **Fish and Fish Habitat Protection Plan** referred to in Part F, Condition 10 (FISH AND FISH HABITAT PROTECTION PLAN– REVISED) of this Licence shall include, but not be limited to, the following information:
- a) A description of how fish and fish habitat will be managed for the Project, specifically at the proposed water crossings and areas of project encroachment on potential fish habitat including:
 - i. A description of baseline collection necessary to design, construct, operate and monitor the project so that fish and fish habitat are protected throughout the life of the project and to inform which Watercourses have the potential to be fish-bearing;
 - ii. Maps of all Watercourses that have the potential to be fish-bearing
 - iii. A description of the process and criteria for assessing the risk of impacts to fish and fish habitat, including a description of the potential pathways of effects that could cause the death of fish or the harmful alteration, disruption or destruction of fish habitat (e.g. construction, use of explosives, blasting residue, sediment release, spills, etc).
 - iv. A description of how potential impacts to fish and fish habitat will be avoided or mitigated, including a description of the best management practices that will be employed for different levels of assessed risk.
 - v. A description of how climate change has been considered;

Condition

- vi. Any linkages to other plans and programs required under this Licence; and
 - vii. Any other information required to describe how impacts to fish and fish habitat will be managed.
- b) A description of the monitoring program that will be used to detect both short and long term project related effects on fish and fish habitat, including but not limited to:
- i. Monitoring methods, locations, parameters, timing, duration, frequency, types of instrumentation and gear.
 - ii. Quality assurance and quality control;
 - iii. Predicted performance values for monitoring parameters;
 - iv. Any linkages to other plans or programs required under this Licence; and
 - v. Any other information about monitoring that will be performed to meet the objectives in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT).
- c) A description of a Response Framework that satisfies the requirements of Report of EA Appendix B, including but not limited to:
- i. A decision tree that outlines the path of adaptive management decisions;
 - ii. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 (OBJECTIVE – WASTE AND WATER MANAGEMENT) are met. This description shall include:
 - a. Definitions, with rationale, for Action Levels applicable to the performance of the mitigation measures;
 - b. For each Action Level, a description of how exceedances of the Action Level will be assessed and generally, which types of actions will be taken for the Action Levels exceeded;
 - c. For Action Level exceedances, a timeframe to notify the Superintendent; and
 - d. For response action, a specific tier of Action Level exceedances and a timeframe to submit Response Plan to the Superintendent.
- d) Information regarding contingency planning, including:
- i. A description of reasonably foreseeable scenarios; and;
 - ii. For each scenario identified in (e)(i) above:
 - a. A description of response action options; and
 - b. A risk-based analysis of response action options, identifying preferred options and alternate options;

Crossing Structure design

- e) The baseline data (e.g., fish species swim speeds , water velocities, hydrograph/discharge, habitat type and usage, life stages requiring passage, etc.) and calculations used to inform the sizing and design of crossing structures that will be constructed in watercourses that have the potential to be fish-bearing to ensure that they provide fish passage when required (i.e., three-day delay during a 1:10 year flow event (3Q10), and/or low flow periods).
- f) A description of the mitigation and maintenance plan that will be in place for culverts in the event that barriers to fish passage occur due to ice blockage, flooding, debris, beaver activity, or culvert perching.

Sundog Creek

- g) A subsection outlining the information specific to the alignment along Sundog Creek, in accordance with the Report of Environmental Assessment Measure 9-1.

8. The **Waste Management Plan** referred to in Part F, condition 2 (WASTE MANAGEMENT PLAN – REVISED), shall include, but not be limited to, the following information:
- a) A plan for the management of Greywater within NNPR, including:
 - i. Storage of all Greywater within NNPR in holding tanks for removal and treatment off site at an approved location. Details on the storage, removal and transportation must be provided; OR
 - ii. A Septic System for each location within NNPR which produces Greywater, including:
 - a. details on the development, management and decommissioning of each system;
 - b. a design of the Septic System being proposed in accordance with the Yukon Government’s Environmental Health Services Guidelines for Grey Water Disposal at Remote Camps (2012) and/or the direction of the Superintendent;
 - c. the soil stratification for all proposed locations;

Condition

- d. the depth of the water table;
 - e. the distance to nearest water course/ water body and potable water source; and
 - f. a closure plan for each location with a Septic System that details how the treatment works will be decommissioned upon camp closure. The closure plan must be prepared by a qualified professional.
- b) A plan for the management of Toilet Wastes that shall include but not be limited to:
- i. Storage of all Toilet Wastes within NNPR in holding tanks for removal and treatment off site at an approved location. Details on the storage, removal and transportation must be provided;
OR
 - ii. A Septic System for each location within NNPR which produces Toilet Wastes, including:
 - a. details on the development, management and decommissioning of each system;
 - b. a design of the Septic System being proposed in accordance with the Yukon Government's Design Specifications for Sewage Disposal Systems (2017) and/or the direction of the Superintendent;
 - c. the soil stratification for all proposed locations;
 - d. the depth of the water table;
 - e. the distance to nearest water course/ water body and potable water source.
 - f. a ground water quality monitoring program including thresholds for active management;
and
 - g. a closure plan for each location with a Septic System that details how the treatment works will be decommissioned upon camp closure. The closure plan must be prepared by a qualified professional.

Schedule 6: Conditions Applying to Closure and Reclamation

Condition

1. The **Closure and Reclamation Plan** referred to in Part I, Condition 1 (CLOSURE AND RECLAMATION PLAN) of this Licence shall include, but not be limited to the following information:
 - a) A description of how the Report of EA Suggestion 14-1 is fulfilled;
 - b) A plain language summary of the Plan;
 - c) A description of the overall goals for Closure and Reclamation of the Project, including expected future land use;
 - d) A description of the Closure and Reclamation planning team;
 - e) A description of engagement related to Closure and Reclamation planning, including a summary of completed and planned engagement, and links to the **Engagement Plan** referred to in Part B, Condition 21 (ENGAGEMENT PLAN) for the Project;
 - f) A list of any other regulatory authorizations required for Closure and Reclamation of the Project;
 - g) A description of the pre-existing and current Project environment, including, but not limited to:
 - i. Climatic conditions;
 - ii. Physical conditions;
 - iii. Chemical conditions;
 - iv. Biological conditions;
 - v. Any physical or chemical assessments of soil, water, and permafrost; and
 - vi. Traditional uses.
 - h) A description of the Project, including, but not limited to:
 - i. Site history;
 - ii. Project development;
 - iii. Current status of the Project;
 - iv. Maps delineating all disturbed areas, including but not limited those listed in i) below and hydrological features, and elevation contours; and
 - v. Photographs.
 - i) A description of each Project component, including, but not limited to:
 - i. All Season Road;
 - ii. Winter Road;
 - iii. Borrow Sources;
 - iv. Settling Ponds;
 - v. Stream crossings including, but not limited to, bridges and culverts;
 - vi. Water Supply Facilities;
 - vii. Sewage Management Facilities
 - viii. Explosive Storage Facilities;
 - ix. Fuel Storage Facilities;
 - x. Camps;
 - xi. Laydown areas;
 - xii. Sumps;
 - xiii. Areas affected by spills or Unauthorized Releases; and
 - xiv. Other areas affected by Project activities.

Condition

- j) For the Project site, a description of Closure and Reclamation plans, based on the Society for Ecological Restoration's International Standards for the Practice of Ecological Restoration to demonstrate that the reclamation approach is designed to help progress the site on the trajectory of Ecological Restoration, including, but not limited to:
 - i. Closure Objectives and Criteria;
 - ii. Preferred Closure and Reclamation option and method for each Project component identified in Condition (i) above;
 - iii. Design drawings, signed and stamped by a Professional Engineer, for any Engineered structures;
 - iv. Water management and restoration of natural drainage;
 - v. Predicted environmental effects during and after Closure and Reclamation activities;
 - vi. Post-closure monitoring, maintenance, and reporting;
 - vii. Description of a Response Framework that satisfies the requirements of Report of EA Appendix B;
 - viii. Uncertainties and contingencies;
 - ix. Climate change considerations; and
 - x. Closure and Reclamation Research plans.
 - k) A description of any planned Progressive Reclamation, including but not limited to:
 - i. Progressive Reclamation goals and objectives;
 - ii. A description of activities (including timing) and methods (including techniques and materials);
 - iii. A description of a Response Framework that satisfies the requirements of Report of EA Appendix B;
 - iv. Contingencies; and
 - v. An implementation schedule.
 - l) A plan for Temporary Closure, including, but not limited to the following information:
 - i. Temporary Closure goals and objectives;
 - ii. A description of activities and methods;
 - iii. A description of monitoring, maintenance, and reporting;
 - iv. A description of a Response Framework that satisfies the requirements of Report of EA Appendix B;
 - v. Contingencies; and
 - vi. An implementation schedule.
 - m) An implementation schedule that includes Progressive Reclamation and final Closure and Reclamation activities; and
 - n) A Closure Cost Estimate.
2. The **Post-Closure Monitoring and Maintenance Plan** referred to in Part I, Condition 8 (POST-CLOSURE MONITORING AND MAINTENANCE PLAN) of this Licence shall include, but not be limited to the following information:
- a) Information regarding site conditions:
 - i. A summary of completed Closure and Reclamation activities, including links to Closure and Reclamation Completion Reports;
 - ii. A list of the Closure Objectives and Criteria for completed Closure and Reclamation activities;
 - iii. A list of all components, Closure Objectives, and Closure Criteria that require monitoring, surveillance, and/or inspections; and
 - iv. A list of all components that require geotechnical inspections by a Professional Engineer.
 - b) Information regarding monitoring:
 - i. A description, including detailed rationale, of the site-specific monitoring activities required to evaluate the Closure Objectives and Criteria for the Project, including links to the approved Closure and Reclamation Plan;
 - ii. A description of monitoring protocols, methodologies, parameters, frequency, and duration specific to each type of monitoring identified in (i) above;
 - iii. Site map(s) and attached table or detailed legend, illustrating monitoring and sampling locations; and
 - iv. A description of the quality assurance and quality control measures followed for each monitoring

Condition

type.

- c) Information regarding responses to monitoring results:
 - i. A description of how the Licensee will evaluate the monitoring results against the Closure Objectives and Criteria for the Project; and
 - ii. A description of how the Licensee will link the results of monitoring to the implementation of contingencies, revisions to the Plan, and/or other necessary response actions.
- d) Information regarding surveillance and inspections:
 - i. A description, including detailed rationale, of the method and schedule for surveillance and inspections for each component identified in (a)(iv);
 - ii. A description, including detailed rationale, of the schedule for geotechnical inspections for each component identified in (a)(iv).
- e) Information about responses to surveillance and inspections:
 - i. A description of how the Licensee will evaluate the results of surveillance and inspections against the Closure Objectives and Criteria for the Project; and
 - ii. A description of how the Licensee will link the results of surveillance and inspections to the implementation of contingencies, revisions to the Plan, and/or any other necessary response actions.
- f) Information regarding maintenance:
 - i. A description and schedule of routine maintenance work to be conducted at the site;
 - ii. A description of the expected timeline for routine maintenance, including a description of how the Licensee will determine when routine maintenance is no longer required;
 - iii. A description of reasonably likely non-routine maintenance work that may be required, with linkages to other plans required under this Licence;
 - iv. A description of how and when the Licensee will notify the Superintendent of any proposed non-routine maintenance work;
 - v. A description of any potential impacts to the Receiving Environment during routine maintenance work;
 - vi. A detailed description of any measures used to prevent or mitigate impacts to the Receiving Environment during routine maintenance work; and
 - vii. A description of any monitoring including, but not limited to, sampling locations, parameters measured and frequencies of sampling to be carried out during maintenance activities to determine impacts to the Receiving Environment.
- g) A description of how the results of the activities carried out under this Plan will be reported.

Attachments

Attachment A – Concordance Table of Items Requiring Submission

The table below summarizes the items the Licensee is required to submit as per the Licence conditions. In the event of a discrepancy between this table and the Licence conditions, the Licence conditions shall prevail.

Condition Location	Item	Date
Part B, Condition 20	ANNUAL WATER LICENCE REPORT	March 31 of every year
Part E, Condition 7	STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN	A minimum of 90 days prior to the commencement of Construction of all structures, excluding Engineered Structures and structures under Part E, Condition 19
Part E, Condition 8	DESIGN AND CONSTRUCTION PLAN	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not referred to in Part E, Condition 20
Part E, Condition 9	DESIGN DRAWINGS	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not referred to in Part E, Condition 20
Part E, Condition 14	AS-BUILT REPORT – ENGINEERED STRUCTURE(S)	Within 90 days of the completion of the Construction of each Engineered Structure
Part E, Condition 18	INDEPENDENT TECHNICAL REVIEW PANEL – LETTER OF ACCEPTANCE	A minimum of 90 days prior to commencement of Construction of any structures reviewed by the Panel
Part E, Condition 19	STRUCTURE AND CONSTRUCTION PLAN - PANEL	A minimum of 90 days prior to the commencement of Construction of any structures reviewed by the Panel, excluding Engineered Structures
Part E, Condition 20	DESIGN AND CONSTRUCTION PLAN - PANEL	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures reviewed by the Panel. This includes the Design and Construction Plan and Design Drawings.
Part F, Condition 2	WASTE MANAGEMENT PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 3	SEDIMENT AND EROSION CONTROL PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 4	PERMAFROST MANAGEMENT AND MONITORING PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 5	GEOCHEMICAL VERIFICATION PROGRAM – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 6	BORROW SOURCE MANAGEMENT PLAN	A minimum of 90 days prior to the Construction and/or use, or as directed by the Superintendent, of any Borrow Source
Part F, Condition 7	BORROW SOURCE OPTIMIZATION REPORT	A minimum of 90 days prior to development of any Borrow Source, or as directed by the Superintendent
Part F, Condition 8	WATER MANAGEMENT PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 9	EXPLOSIVES MANAGEMENT PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 10	FISH AND FISH HABITAT PROTECTION PLAN– REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part F, Condition 12	ANNUAL GEOTECHNICAL INSPECTION	Within 90 days of completing the inspection, submit the Professional Engineer’s full Geotechnical Inspection Report to the Superintendent

Condition Location	Item	Date
Part H, Condition 2	SPILL CONTINGENCY PLAN – REVISED	A minimum of 90 days prior to the commencement of Phase 2, or as directed by the Superintendent
Part I, Condition 1	CLOSURE AND RECLAMATION PLAN	As directed by the Superintendent
Part I, Condition 2	CLOSURE AND RECLAMATION PLAN – REVISED	Every three years following the previous approval, or as directed by the Superintendent
Part I, Condition 3	CLOSURE AND RECLAMATION PLAN – FINAL	Three years prior to the expiry date of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first, or as directed by the Superintendent
Part I, Condition 7	CLOSURE AND RECLAMATION COMPLETION REPORT	Within 90 days of completing Closure and Reclamation of any specific component of the Project
Part I, Condition 8	POST-CLOSURE MONITORING AND MAINTENANCE PLAN	As directed by the Superintendent
Part I, Condition 9	PERFORMANCE ASSESSMENT REPORT – COMPONENT SPECIFIC	Within six months of completing Closure and Reclamation of any specific component of the Project
Schedule 1, Condition 12	Surveillance Network Program Report	Within 30 days of completing SNP sampling each month, and every month thereafter

Attachment B – Revision History Table

The table below summarizes revisions made to the Licence since its effective date (as set out on the Cover Page).

Date	Location of Change	Description of Change