



**SUMMARY REQUEST FOR CERTIFICATE OF EXEMPTION TO THE ENVIRONMENTAL
PROCESS FOR THE DEWATERING OF J4 AND 87 PITS.**



APRIL 2019

Troilus Gold Corp.

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1.0 INTRODUCTION AND CONTEXT

Troilus Gold is a company that was created in January 2018 to explore and develop resources at the site of the former Troilus mine located north of Chibougamau, on the Eeyou Istchee-James Bay territory. Recently, Troilus Gold purchased the rights to First Quantum Minerals' property, and therefore the related restoration obligations.

The site of the former Troilus mine has been restored during the years 2011 to 2018. Since then, water has been filling up both pits. Several restoration activities have been carried out including the planting of waste rock dumps, the restoration of the tailings pond, the dismantling of infrastructure, etc. First Quantum then acquired the property. The site is now under the responsibility of Troilus Gold, which acquired this responsibility by purchasing First Quantum's property rights in April 2018.

As part of the advanced exploration work, Troilus Gold wants access to the deposit at depth to continue exploration drilling from the pit floor. Indeed, the gold and copper deposit shows continuity at depth and towards the north, in the axis of the pits F87 and J4. The drilling done in 2018 shows the existing potential. Drilling from the surface makes it difficult to reach the targets and greater precision is required for subsequent steps, which will allow me to define a project if needed. Emptying the pits would greatly facilitate the exploration work.

1.1 Company Identification and coordinates.

Head Office :

Troilus Gold

800-65 Queen Street W.

Toronto (Ontario), M5H 2M5

Tél : (416) 735-7131

Chibougamau Office:

Troilus Gold

334, 3rd Street

Chibougamau (Quebec) G8P 1N5

Tél : (418) 770-5990

1.2 Company Number

Troilus Gold Company number is 1163428072.



1.3 Project Initiator

The Project Initiator is Troilus Gold. Here are the coordinates of the Chibougamau Office :

Troilus Gold
334, 3^{ième} Rue
Chibougamau (Québec) G8P 1N5

Here are the coordinates of the designated signatory:

Jacqueline.leroux@troilusgold.com
418-770-5990

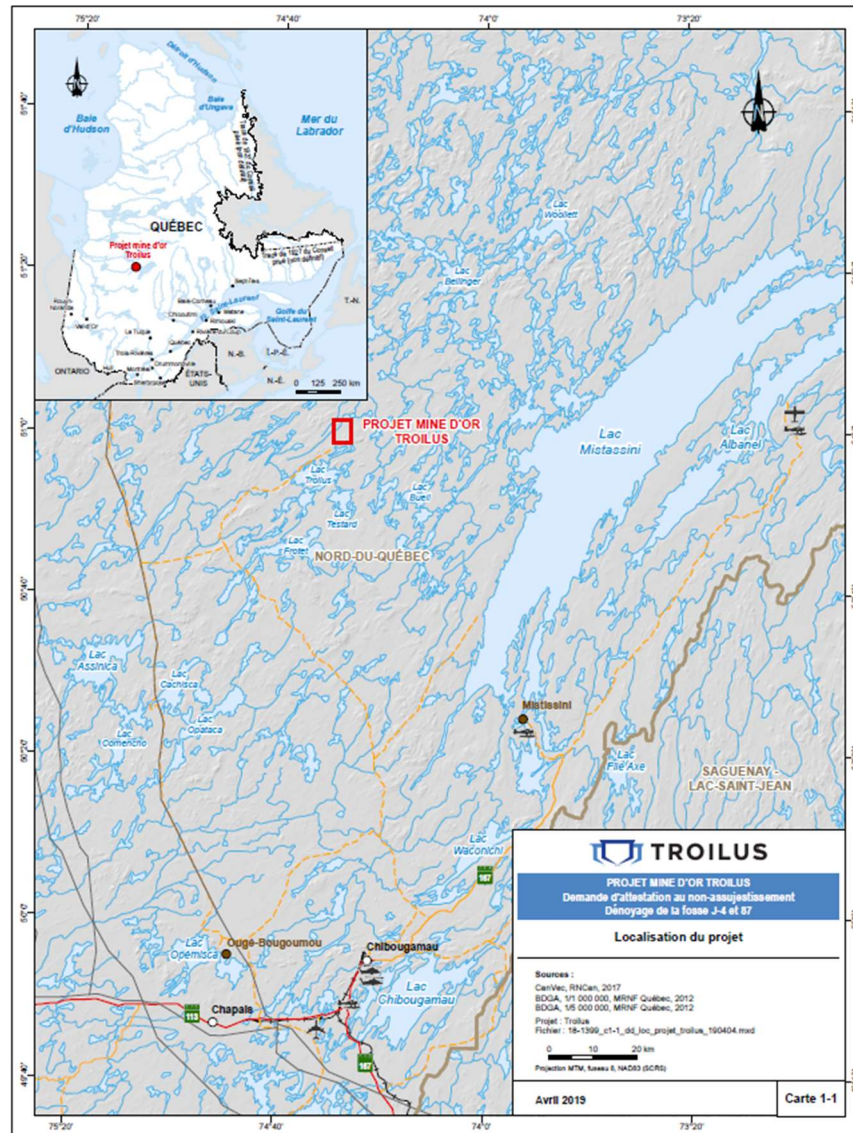
1.4 Project Title

Request For Certificate Of Exemption To The Environmental Process For The Dewatering of J4 And 87 Pits.

1.5 Property location

The former Troilus mine is located at a latitude of 51 ° 00 'N and a longitude of 74 ° 28' W, about 175 km north of Chibougamau. Figure 1.1 shows the location plan of the site. Access to the mine site is provided by a section of road approximately 44 km long, starting at PK 108 Route du Nord, and oriented northeast. The former mine site is in the territory described as Lot 1 of the cadastre of the Rupert River Basin, registration division of Lac St-Jean-Ouest

Figure 1.1 : Location of Troilus Gold property



2.0 ADMINISTRATIVE ASPECTS

2.1 Board of Directors Resolution

Appendix A of the French document presents the resolution of the Board of Directors appointing Mrs. Jacqueline Leroux as signatory authorized by Troilus Gold, authorizing it to submit this application to the Regional Direction of Abitibi-Témiscamingue and Northern Quebec MELCC.

2.2 Applicable Law and Regulation

According to the Environment Quality Act, section 153, the dewatering project for the pits could fall under the category of projects that are subject to the impact assessment and review procedure (Annex A, paragraph a), but in our opinion, this case is in a gray area and we do not believe that it is subject to



the environmental Evaluation Process, as the potential impacts are not significant for the site, and they have been evaluated in section

2.3 Mandatory Declaration according to article 115.8 from EQA

The declaration of the applicant or holder required under section 115.8 of the Environment Quality Act is presented in Appendix B of the French Document.

2.4 Fees

Pursuant to section 2 of the Ministerial Order concerning the fees payable under the EQA, an amount of \$ 1417 is provided with this application for a request to be exempt from the ENvironmental evaluation Process.

3.0 LOCATION OF PROJECT

3.1 Land Ownership

The property comprises 83 claims covering 3878.60 ha. These claims are located on the territory of the Eeyou Istchee James Bay Regional Government. All of the claims that make up the property are map-designated cells called CDCs and are located on Crown land on Category Three land under the James Bay Agreement. Figure 3.1 shows the claims of the property and Table 3-1 lists them in detail

Tableau 3.1– List of claims of Troilus Gold property

NUMBER OF THE TOPOGRAPHIC SHEET (1/50 000)	Claim Number	Area (ha)	NUMBER OF THE TOPOGRAPHIC SHEET (1/50 000)	Claim Number	Area (ha)
SNRC 32J15	1133905	54,22	SNRC 32O01	1133956	25,1
SNRC 32J15	1133906	54,22	SNRC 32O01	1133957	54,15
SNRC 32J15	1133907	54,22	SNRC 32O01	1133958	54,19
SNRC 32J15	1133908	54,22	SNRC 32O01	1133959	54,19
SNRC 32J15	1133909	54,22	SNRC 32O01	1133960	46,18
SNRC 32J15	1133913	54,21	SNRC 32O01	1133961	9,42
SNRC 32J15	1133914	54,21	SNRC 32O01	1133962	25,33
SNRC 32J15	1133915	54,21	SNRC 32O01	1133963	54,15
SNRC 32J15	1133916	54,21	SNRC 32O01	1133964	54,18
SNRC 32J15	1133917	54,21	SNRC 32O01	1133965	54,16
SNRC 32J15	1133918	54,2	SNRC 32O01	1133966	26,66
SNRC 32J15	1133919	54,2	SNRC 32O01	1133967	0,2
SNRC 32J15	1133920	54,2	SNRC 32O01	1133968	13,83
SNRC 32J15	1133921	54,2	SNRC 32O01	1133969	47,87
SNRC 32J15	1133922	54,2	SNRC 32O01	1133970	54,16
SNRC 32J15	1133923	54,19	SNRC 32O01	1133971	54,16
SNRC 32J15	1133924	54,19	SNRC 32O01	1133972	27,32
SNRC 32J15	1133925	54,19	SNRC 32O01	1133973	0,01
SNRC 32J15	1133926	54,19	SNRC 32O01	1133974	4,23
SNRC 32J16	1133929	54,21	SNRC 32O01	1133975	24,44
SNRC 32J16	1133930	54,21	SNRC 32O01	1133976	46,01
SNRC 32J16	1133936	54,2	SNRC 32O01	1133977	54,16
SNRC 32J16	1133937	54,2	SNRC 32O01	1133978	54,16
SNRC 32J16	1133938	54,2	SNRC 32O01	1133979	54,15
	Claim Number	Area (ha)		Claim Number	Area (ha)

NUMBER OF THE TOPOGRAPHIC SHEET (1/50 000)			NUMBER OF THE TOPOGRAPHIC SHEET (1/50 000)		
SNRC 32J16	1133940	54,2	SNRC 32O01	1133982	54,15
SNRC 32J16	1133941	54,2	SNRC 32O01	1133983	54,15
SNRC 32J16	1133942	54,2	SNRC 32O01	1133984	54,15
SNRC 32J16	1133943	54,19	SNRC 32O01	1133985	54,15
SNRC 32J16	113944	54,19	SNRC 32O02	1133998	54,18
SNRC 32J16	1133945	54,19	SNRC 32O02	1133999	54,19
SNRC 32J16	1133946	54,2	SNRC 32O02	1134000	54,19
SNRC 32J16	1133947	51,28	SNRC 32O02	1134001	54,19
SNRC 32J16	1133948	54,15	SNRC 32O02	1134002	54,18
SNRC 32J16	1133949	54,2	SNRC 32O02	1134003	54,18
SNRC 32J16	1133950	54,2	SNRC 32O02	1134004	54,18
SNRC 32O01	1133951	54,19	SNRC 32O02	1134005	54,18
SNRC 32O01	1133952	54,13	SNRC 32O02	1134006	54,17
SNRC 32O01	1133953	41,82	SNRC 32O02	1134007	54,17
SNRC 32O01	1133954	20,08	SNRC 32O02	1134008	54,17
SNRC 32O01	1133955	1,95	TOTAL		3878,60

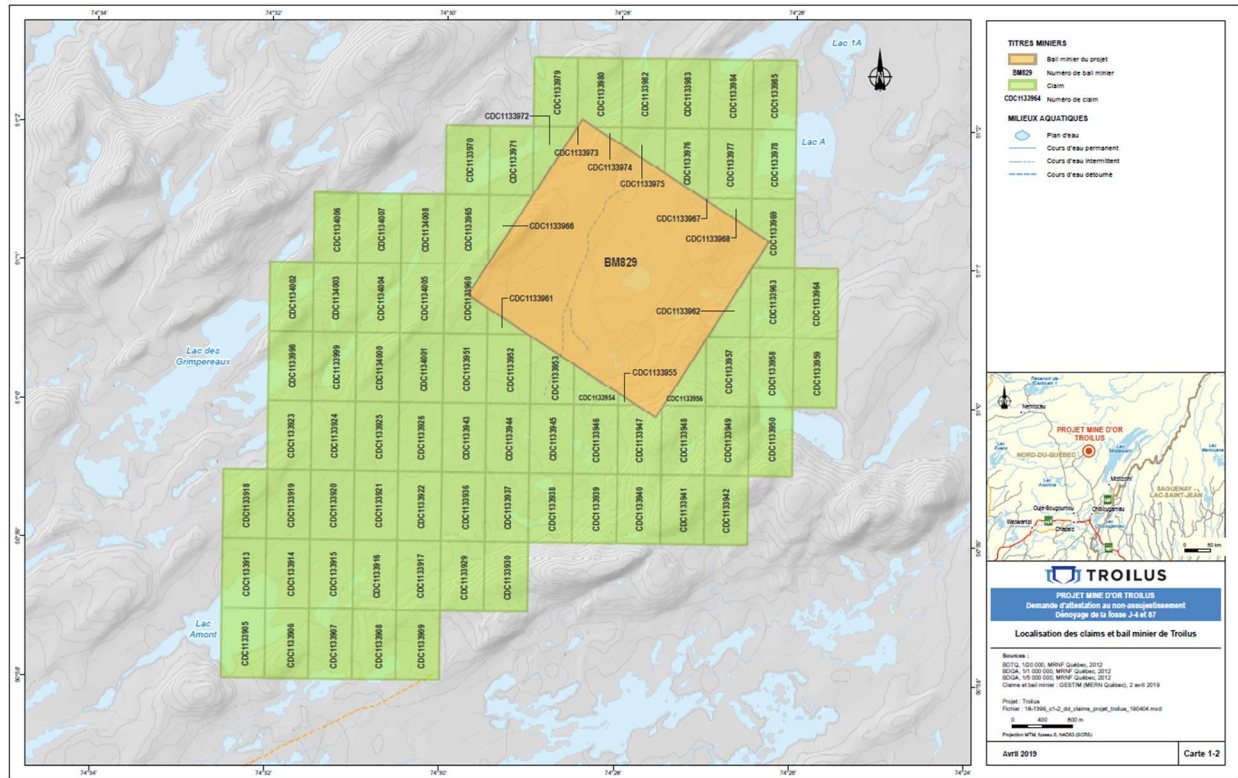


Figure 3.1 : Location of Troilus Gold claims.



3.2 Agricultural Zoning

No agricultural zone is touched

3.3 Waters Act or dam Safety Act

Water from the pits will go back to the unnamed creek that flows through the property.

4.0 PROJECT DESCRIPTION

Troilus Gold Corp. (Troilus or the Company) is currently exploring the opportunity of developing a new mine at the original Troilus Mine site. For the Company to further develop the resource at depth and near surface it will be necessary to access the two original pits Z87 and J4 to facilitate drilling from within the pits to better define the resource/orebody on strike to the north of Z87 and at depth below Z87.

The Company therefore proposes to empty the two pits of run-off and ground water into the receiving environment of the Troilus site which will entail pumping the water from one pit at a time, this will then facilitate access to the pits for exploration drilling.

Pumping System

Troilus will install a floating platform which will accommodate two pumps (one in operation the other on standby) and a small compressor as well as associated electrical equipment for starting/stopping the pumps and the necessary isolation equipment including valves. The pumps will be of the centrifugal type and as such will take suction from the pit and will discharge through a discharge pipe up the pit ramp to the surface topographical point, here there will be a flow and pressure control unit to ensure that the discharge from the pumps can be set in accordance with the discharge limits prescribed by the ***** (insert regulatory authority).

From the flow control station there will be an overland piping that will discharge into the creek that runs adjacent to the J4 pit. This discharge pipe will be fitted with a monitoring station measuring pH and TSS that in the event of an excursion from the prescribed regulatory limits the system will shutdown.

The water will discharge into the creek. The access point into the creek will be constructed such that the energy from the water will be dissipated reducing the velocity of the water and the potential for eroding the creek banks.

Electrical power will be supplied to the pumping system by of a pole line from the main sub-station located at (reference point) to a switching station that will have the main disconnect/isolation switches and the necessary control systems for the pumps and associated equipment to operate. This switching station will likely be a contained unit that can be easily relocated.

- In-pit equipment
- Pumping platform,
- 2 x centrifugal pumps,
- Air compressor
- Electrical equipment
- Check or non-return valves
- Isolation valves
- Electrical equipment

- Discharge piping rated for the discharge head
- Miscellaneous equipment
- Surface equipment

Flow and pressure control equipment:

- Piping
- Monitoring equipment
- Creek discharge point
- Electrical pole line,
- Switching/mini sub-station
- Miscellaneous equipment.
- Operation of the Pit Dewatering

It is intended that the two pits will be emptied in sequence starting with the J4 pit first which it is anticipated will take some 15 to 18 months. Upon completion, the pumping system will then be moved to the 87 pit to commence the dewatering process. The pumps will operate 24 hours per day, 7 days per week until the water is completely discharged or is halted due to an excursion outside of the discharge limits as set by the ministry.

The pumps will be set over the deepest part of the pit on a floating platform and will pump water through a discharge pipe to the creek, flow and pressure will be regulated through a flow control valve ensuring that the discharge flow is maintained below the maximum allowable at all times.

Pumping will continue whilst the water is within the discharge limits set by the ministry, if, at any time during the operation it is seen that there is a deviation to the prescribed parameters then the pumping operation will be stopped, and one of two scenarios will be initiated:

1. Relocate the pumping platform as there may be disturbance from the pumping that has stirred up solids due to the proximity of the suction pipe and the mining surface in the pit,
2. Redirect the water to a holding pond that will allow for the solids to precipitate out before the water enters the creek.

To ensure that the operation can continue through the winter months a compressor will pump air into the water close to the pumping platform ensuring that the water is continually agitated in the pit and does not freeze around the pumping platform.

Once the pit is drained a series of pumping stations will be set up to maintain the pit empty until one of the following two scenarios is seen as the path forward:

1. The Troilus project has developed a resource and has received the necessary approvals to redevelop the mine and as such the pits will become part of the normal operating regime and discharge requirements have been set as part of the operating parameters or,

2. There is no mineable resource to be exploited and the pits will be allowed to refill as per the original closure plan developed by Inmet.

4.1 Number of employees

The work will be done by a specialized contractor for the installation of the barge and piping, then one employee will be needed to monitor the dewatering operation and make the necessary adjustments.

4.2 Intrants and fuel

All power will be provided by electricity with the power already available on site.

5.0 WATER QUALITY AND RECEIVING ENVIRONMENT

5.1 Water effluent from pits J4 and 87

The water would go back to the unnamed creek that flows through the property. The rate at which the pits will be emptied is consistent to what was done in the previous operation of the mine, so no new impacts are expected.

5.2 Water Quality

Water samples were taken from the pits in the fall of 2018 to determine the concentration of the different parameters at different depths in the two pits. The characterization report by Wachiih is presented in Appendix D of the French Document

Table 3.6 presents the criteria for Directive 019 for the following parameters: arsenic, copper, iron, nickel, lead, zinc, cyanides, petroleum hydrocarbons and materials in suspension. The graphs in Figures 3.2 and 3.3 present the results for the parameters for which criteria are found in Directive 019, for pits 87 and J4. The other parameters that have been measured are presented in Appendix D of the French document.

Parameter	D019 acceptable monthly average. (µg/l)
Arsenic	200
Cuivre	300
Fer	3 000
Nickel	500
Plomb	200
Zinc	500
Total Cyanide	1 000
Hydrocarbons (C ₁₀ -C ₅₀)	2 000
Suspended Solids	15 000

Table 3.6 - Concentrations of parameters - criteria from Directive 019

In the following figures, we see that for both pits, and at all depths, the water will be of good quality for discharge:

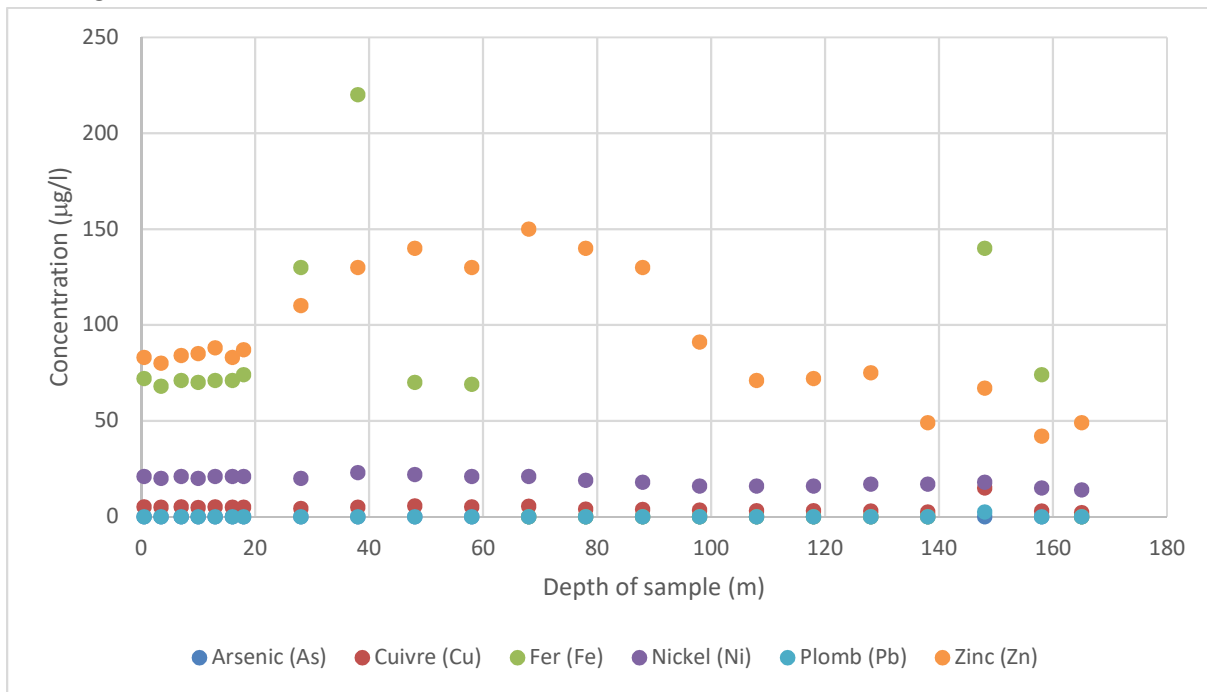


Figure 3.2 - Concentrations of different metals in relation to depth in pit J4

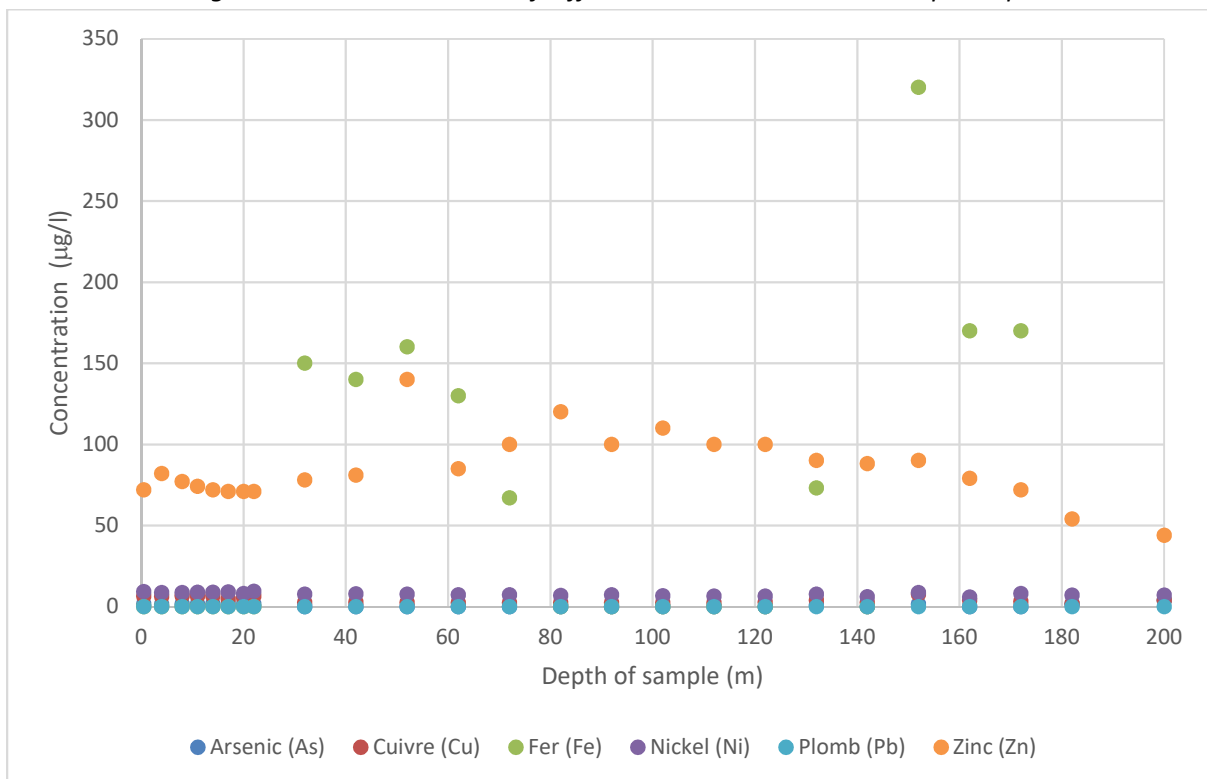


Figure 3.3 : Concentrations of different metals related to the depth of 87 pit.

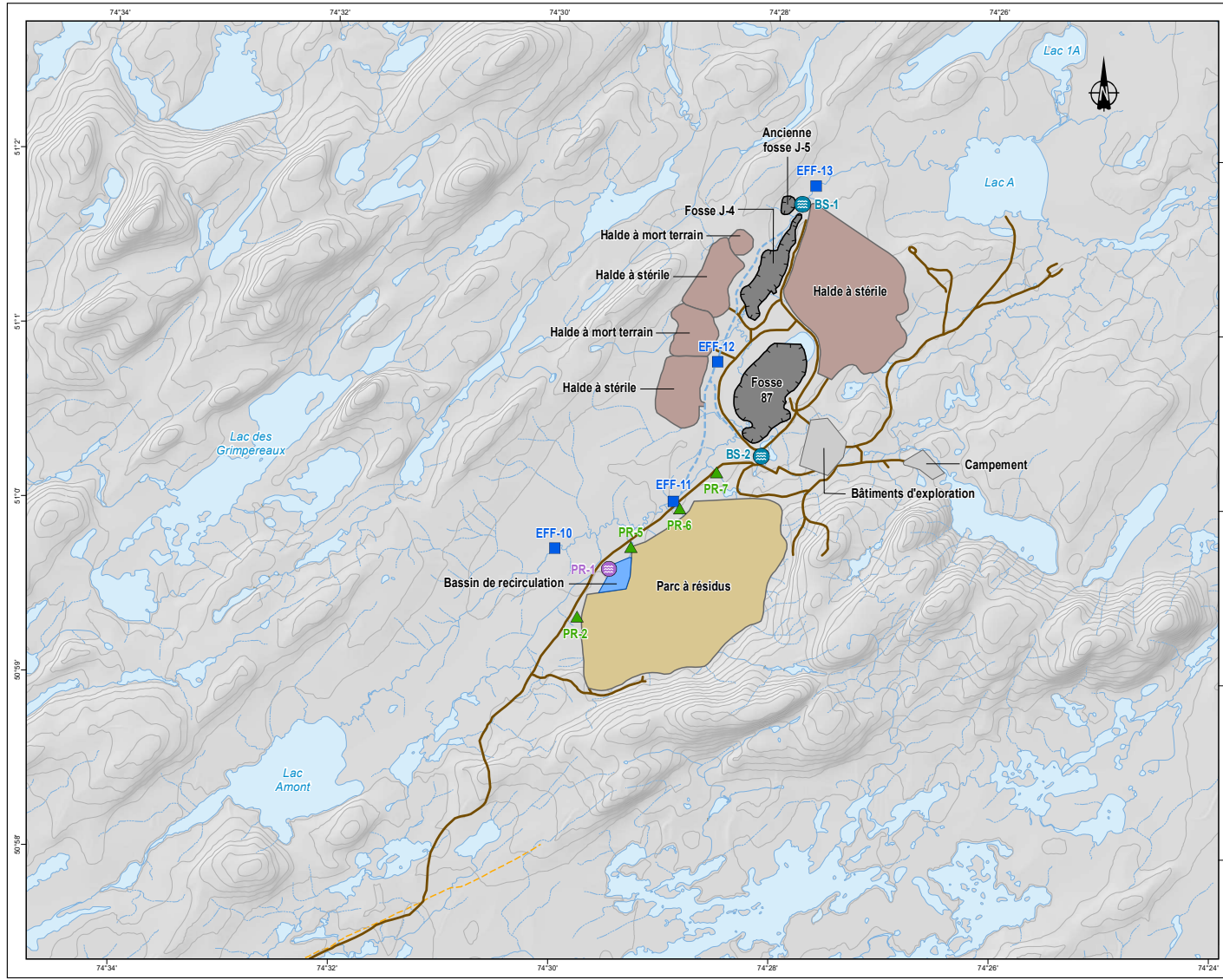
5.3 Receiving Environment

During the operation, the EFF10, EFF11, EFF12 and EFF13 stations were sampled regularly as part of the EEM follow-up of the Metal Mining Effluent Regulations (MMER) and provincial monitoring. The stations are located in the unnamed stream that runs on the mine site between Lake Amont and Lake A. EFF-10 is located upstream of the mine site and is a reference point. Point EFF-11 is located after the tailings pond and measures the effect of the discharge of the park's water on the creek. The EFF-12 point is located at the height of F87 and measures the effect of the park and dewatering pits at the time. Finally, the EFF-13 point makes it possible to know the effects of the entire mining site on the receiving environment. Several historical data are available and are presented in the Genivar reports (2009 and 2010). Figure 2.4 shows the location of sampling stations and release points when the mine was in operation.

The monitoring of effluent water quality and the unnamed stream as well as in Lake A which is located downstream from the project first revealed that the mine met the requirements of the criteria for rejection of the Directive. 019 and the Metal Mining Effluent Regulations during the years of operation. The follow-up measurements in the environment have shown that the effluents from the mine have caused an increase in alkalinity, hardness, conductivity, pH, and concentrations of arsenic, ammonia nitrogen, cadmium, copper, molybdenum, nickel, nitrates, radium 226 and zinc (Genivar 2009). The details of the effects on the receiving environment are presented in Genivar's EEM reports published in 2009 and 2010.

The next page shows the location of the EFF stations for the receiving Environment and the general layout of the site.

The receiving Environment has been characterized for fish habitat. That study is in Appendix C of the French Document.



- COMPONENTES DU PROJET**
- Fosse
 - Halde
 - Parc à résidus
 - Bassin
 - Bâtiment ou campement
 - Chemin
- EFFLUENTS**
- Effluent actif
 - Ancien effluent
 - Exfiltration du parc à résidus
- STATION D'ÉCHANTILLONNAGE**
- Station d'échantillonnage de l'eau
- MILIEUX AQUATIQUES**
- Plan d'eau
 - Cours d'eau permanent
 - Cours d'eau intermittent
 - Cours d'eau détourné



TROILUS

PROJET MINE D'OR TROILUS
Demande d'attestation au non-assujettissement
Dénoyage de la fosse J-4 et 87

Localisation des effluents et des stations d'échantillonnage

Sources :
BDTQ, 1/20 000, MRNF Québec, 2012
BDGA, 1/1 000 000, MRNF Québec, 2012
BDGA, 1/5 000 000, MRNF Québec, 2012
Composantes du projet, Troilus, 2019

Projet : Troilus
Fichier : 18-1399_c1-3_dd_eau_projet_troilus_190404.mxd
0 400 800 m
Projection MTM, Niveau 8, NAD83 (S.C.R.S.)

Avril 2019

6.0 INFORMATION AND CONSULTATION:

Several information activities were conducted with elected officials, the community of Mistissini in general, and families potentially impacted, and historically consulted as part of the Troilus project, namely the Awashish, Neeposh and Petawabano families.

During the meetings with the stakeholders, notably with the Mistissini people and the affected families, the concerns raised were the following, as well as how they were addressed:

Quality of the water in the pits: to ensure that the water is of adequate quality for a discharge without treatment, Troilus Gold has sampled the pits and measured the quality of the water at the same time. along the depth of the pits; Troilus Gold makes this information available upon request. (see Wachiih report, Appendix C)

- **Flow of water in the receiving stream** to avoid bank erosion and the movement of fish fauna in downstream lakes: to ensure that the receiving environment is able to take the additional flow, it has It was decided to have a dewatering rate that does not exceed that experienced during the operation of the mine, and for which the effects are known to the users of the territory and meant insignificant.

- **Maintaining the restoration of the tailings pond and dumps:** Troilus Gold will mine pits without affecting revegetation at the tailings pond and on the dumps.

- **Stakeholders also told Troilus Gold that they wanted to be kept informed of the progress of the project in general, which Troilus Gold is committed to.**

Here is the table of meetings held, in which dewatering of the pits was discussed.

Meetings with first nation				
Titre	Localisation	Date	Stakeholders	Troilus Employees attending
Troilus Site Visit October 23, 2018	Troilus mine site.	2018-10-15	Mistissini Cree Council	Blake Hylands Ian Pritchard John Matoush
Follow up on Troilus Site Visit	Mistissini, QC, CA	2018-10-15	Mistissini Cree Council	Blake Hylands Ian Pritchard John Matoush
Environmental Update with Pamela MacLeod - Local Environment Administrator	Mistissini, QC, CA	2018-11-14	Deputy Chief (Chief Thomas Neeposh) Marlene Mackinnon (Cree Nation of Mistissini) Pamela MacLeod	Blake Hylands Daniel Bergeron Ian Pritchard Jacqueline Leroux John Matoush
Project Update to Chief, Marlene McKinnon and Pamela McLeod	Mistissini, QC, CA	2019-01-15	Deputy Chief (Chief Thomas Neeposh) Marlene Mackinnon (Cree Nation of Mistissini) Pamela MacLeod	Blake Hylands Daniel Bergeron Ian Pritchard Jacqueline Leroux John Matoush
Project Update to the ██████████ Impacted Family	Mistissini, QC, CA	2019-01-15	██████████	Blake Hylands Daniel Bergeron Ian Pritchard Jacqueline Leroux John Matoush
Impact family meeting with Hubert Petawabano	Mistissini, QC, CA	2019-01-15	Hubert Petawabano (Coordinator of Land Management and Environment - Nation)	Blake Hylands Daniel Bergeron Ian Pritchard Jacqueline Leroux
Meeting with ██████████	Chibougamau, QC, CA	2019-01-24	██████████	Daniel Bergeron Jacqueline Leroux

Meetings with first nation				
Titre	Localisation	Date	Stakeholders	Troilus Employees attending
Troilus Introduction to Cree Nation Government Environmental and Remedial Works	Montreal, QC, CA	2019-01-30	Isaac Voyageur (Director - Remedial Works Department) Lucas Del Vecchio (Remedial Works Department) Pernilla Talec (Remedial Works Department)	Ian Pritchard Jacqueline Leroux John Matoush
PDA Meeting at Troilus site	Troilus mine site.	2019-02-26	Anthony MacLeod (Director of Commerce and Industry - GCC(EI)/CNGG) John Longchap (Director General - CNM)	Daniel Bergeron Jacqueline Leroux
Meeting with [REDACTED]	Mistissini, QC, CA	2019-02-27	Mathieu Michaud (Troilus Gold Corp.)	John Matoush
Ad hoc meeting at the Band office	Misini, QC, CA	2019-02-27	Andrew Coon (Coordinator of Economic Development - CNM)	Ian Pritchard Jacqueline Leroux John Matoush
Ad hoc meeting with Jeff Spencer and Richard Shecapio	Mistissini, QC, CA	2019-02-27	Chief Richard Shecapio Jeff Spencer - Eskan	Ian Pritchard Jacqueline Leroux John Matoush
rencontre Nibiischi Corporation	Chibougamau, QC, CA	2019-03-20	Glongchap - Mireille Gravel Nibiischii	Daniel Bergeron Jacqueline Leroux Mathieu Michaud
Meeting with [REDACTED] - Baseline Inventory implication of impacted families	Troilus Site, QC, CA	2019-03-28	[REDACTED]	Félix Quessy-Savard Mathieu Michaud



7.0 ENVIRONMENTAL MONITORING

Environmental monitoring currently in effect at the site will be continue as usual, with the added new effluent from dewatering of the pits to monitor.

A handwritten signature in black ink that reads "Jacqueline Leroux, ing." The signature is written in a cursive style.

Jacqueline Leroux, ing.
Environment Director
Troilus Gold.