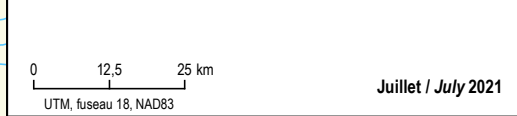


GALAXY
 Mine de lithium Baie-James / James Bay Lithium Mine

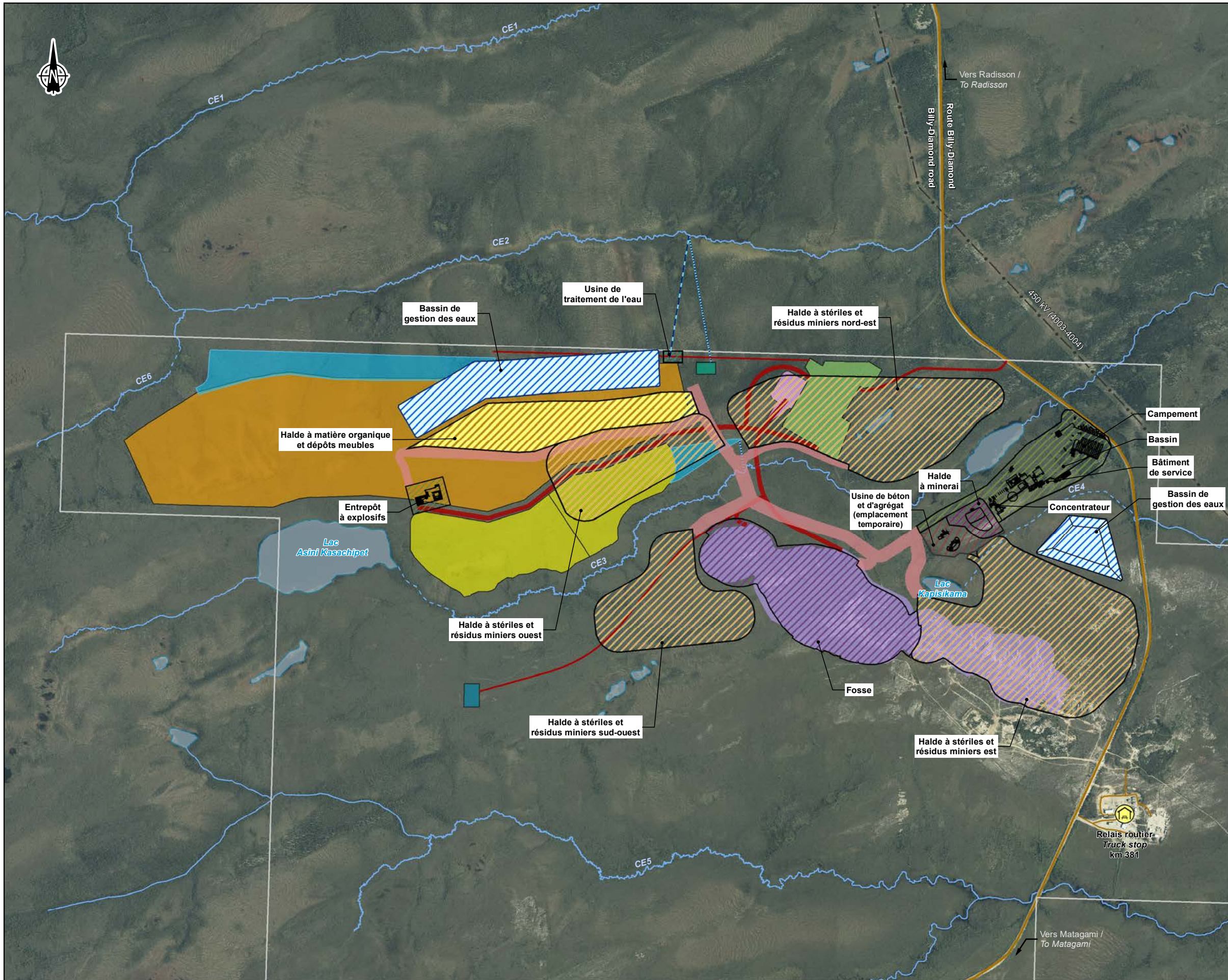
Carte / Map 1-1
Localisation régionale du site minier / Regional Location of the Mine Site

Sources :
 Canvec, 1 : 50 000, RNCan, 2015
 BDGA, 1 : 1 000 000, RNCan, 2011
 Terres de catégorie / Category land : Carto-Média, 2001



Dessin : A. Masson
 Approbation : C.-A. Vachon
 201-12362-00_c1-1_wspT300_loc_projet_210701.mxd

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Limite de propriété / Property limit

Composantes du projet / Project Component
 2018 2021

- Route / Road
- Effluent minier / Mine effluent
- Usine de traitement de l'eau / Water treatment plant
- Secteur administratif et industriel / Administrative and industrial sector
- Fosse / Pit
- Halde à minéral / ROM pad
- Halde à stériles / Waste rock stockpile
- Halde à matière organique / Organic matter stockpile
- Entrepôt à explosifs / Explosives magazine
- Bassin de rétention d'eau / Water retention basin
- Câble de fibre optique / Optical fiber cable

Infrastructures / Infrastructure

- Route principale / Main road
- Route d'accès / Access road
- Ligne de transport d'énergie / Transmission line
- Relais routier / Truck stop

Hydrographie / Hydrography

- CE3** Numéro de cours d'eau / Stream number
- Cours d'eau permanent / Permanent stream
- Cours d'eau à écoulement diffus ou intermittent / Intermittent or diffused flow stream
- Plan d'eau / Waterbody

GALAXY
 Mine de lithium Baie-James / James Bay Lithium Mine

Carte / Map 1-2
Comparaison générale de l'aménagement du site 2018 vs. 2021 / General Mine Site Arrangement Comparison 2018 vs. 2021

Sources :
 Orthoimage : Microsoft Bing (ESRI, 2017)
 Gestim : MRNF Québec, 210315
 Données du projet / Project data : Galaxy 2021

0 200 400 m
 UTM, fuseau 18, NAD83

Juillet / July 2021

Dessin : A. Masson
 Approbation : C. Martineau
 201-12362-00_c1-2_wspT302_compar_GA_210701.mxd

wsp

1.6.2 MINING

The James Bay Lithium Mine project consists of setting up a mining operation. The material will be mined from a pit using conventional surface mining methods. Drill rigs and blasting will be used to extract ore and waste rock. Tracked power shovels will be used to load **100 t trucks** that will **carry ore to the concentrator**. **In 2018, the project was planning for 61.5 t trucks.**

No changes were made to the quantity of ore to be mined or to the quantity of waste rock generated.

1.6.3 PROCESSING

The onsite **ore processing** will consist of a spodumene **concentration process**. The concentrator will allow the spodumene to be separated to obtain approximately 6.0% lithium oxide (Li₂O) concentrate. The selected process involves crushing of the **ore** followed by a dense media separation (DMS).

The project optimization did not include any ore processing changes. The process will remain the same as what was planned in the 2018 EIA.

1.6.4 STORAGE AREAS

Areas to stockpile and store ore, waste rock, dry tailings, spodumene concentrate, overburden and topsoil will be built on the site of the James Bay Lithium Mine project. **Four waste rock and tailings storage facilities (WRTSFs)** will be built to store the waste rock and tailings, **while a single stockpile was planned in 2018**. All storage areas will be set up in such a way as to limit environmental impacts. Surface drainage channels will be built to divert **runoff from areas for stockpiling ore, waste rock/tailings, spodumene concentrate, overburden and topsoil**. The same strategy will be used to control surface water around the infrastructure, namely, the concentrator, buildings and roads.

The stockpiling and storage areas were moved from their 2018 project locations. Their locations were chosen in order to minimize the project's footprint on the environment while reducing waste rock transportation distances.

1.6.5 WATER MANAGEMENT

Process water will be used in the plant. It will be recovered and recycled via the dewatering screens, tails thickener and tails filtration. Recirculation of the water will be facilitated by the fact that no chemical reagents are present in the tailings following processing. Raw water will, however, be used to top up the process water system as required. Raw water shall be directed to the concentrator from the main retention pond.

Surface water runoff will be directed to the raw water storage pond. Appropriate wastewater management will be applied on this project. Before being released into the receiving environment, if required, the effluent will be treated to meet the applicable effluent discharge standards, including those specified in *Directive 019 for the mining industry* (D019) of the MDDELCC (MDDEP, 2012) and the federal *Metal and Diamond Mining Effluent Regulations* (MDMER).

The approach selected for managing process water and runoff remains the same as the one planned in the 2018 EIA.

1.6.6 WASTE MANAGEMENT

The collection and sorting of reusable, recyclable and waste materials (whether harmless or hazardous) will be carried out on site. They will then be managed by specialized contractors and transported off-site to a certified disposal site or to appropriate services.

The selected approach for managing waste materials remains the same as the one planned in the 2018 EIA.

1.6.7 OTHER INFRASTRUCTURE

In addition to site-specific developments, a series of additional equipment and infrastructure projects are also planned to ensure proper management of the site, namely:

- an administrative and operations building;
- an autonomous workers' camp;
- a tank farm for the fuelling of the mining equipment, for heating purposes and for backup generators.

Furthermore, GLCI is planning to connect the mining site to Hydro-Québec's power distribution system by a 69-kV power line. This could require up to 11 km of additional power lines, **depending on** the route set by Hydro-Québec. The site will also be connected to the optic fiber or cellular data network.

The additional infrastructure and equipment needed for the project remain similar to what was planned in the 2018 EIA. The design was simply reviewed to reduce the size of the buildings and the free space between buildings.

1.6.8 SITE REHABILITATION

Following the end of mining operations, rehabilitation measures will be taken to bring the receiving environment back as close as possible to its original state. These measures will involve management of the mining complex, waste rock, tailings and water from the treatment ponds, as well as demolition of the infrastructure and of the administrative and ore processing facilities. A progressive rehabilitation approach will be deployed. A mine rehabilitation plan will be filed with the Ministère de l'Énergie et des Ressources naturelles (MERN) before the start of the mine operations, as provided for under Québec's *Mining Act* (RSQ, c. M-13.1).

The recommended site rehabilitation approach remains unchanged from the one presented in the 2018 EIA.

1.6.9 PROJECT SCHEDULE

In the 2018 EIA, construction work was planned to start in 2020 and the commissioning was planned for 2022. The lifespan of the mine was initially 15 to 20 years.

GLCI **now** plans to start construction work at the mine in **2022** for a commissioning in **2023**. According to the latest forecast, the mine will be in operation for **18,5 years**.

1.7 GLCI'S CORPORATE SUSTAINABLE DEVELOPMENT POLICY

GLCI is firmly committed to limiting environmental impacts resulting from the development of mineral resources, while building a successful business that fully assumes its responsibilities within the communities where it operates.

This commitment is put into practice daily by integrating the social, economic and environmental dimensions to the company's decision-making process and through the ongoing respect of the interests of its many stakeholders. GLCI's commitment toward sustainability is reflected in its environmental and social policies, which are set forth in this section.

1.7.1 ENVIRONMENTAL POLICY

In its environmental policy, GLCI plans to conduct its activities in a manner that respects the environment and all applicable regulations and to implement a management system that will ensure the application of the highest environmental standards possible to its products, services and processes. More specifically, GLCI undertakes to:

- include environmental considerations in all its planning decisions and in its overall business strategy;
- evaluate the potential impact on the environment of all services and processes, from the project design to delivery and disposal;
- develop products and services and operate the facilities in a manner that prevents pollution, improves efficiency, reduces energy consumption, uses renewable resources and minimizes waste by recycling wherever possible;
- promote a culture in which all employees, contractors, suppliers, customers and community members share its commitment;
- respect cultural heritage and the local communities in which it operates;
- aim to continuously improve its environmental management system and performance by taking into account technical developments, scientific understanding, consumer needs and community expectations;
- prevent environmental incidents and have effective emergency plans;
- provide adequate training at all levels, make resource people available and ensure that the policy is well understood and applied;
- comply with applicable legislative and sectoral requirements.

1.7.2 HEALTH AND SAFETY POLICY

In its health and safety policy, GLCI wants to take all possible and feasible measures to ensure the health and safety of its employees and other members of its personnel directly or indirectly involved in the project by eliminating all occupational injuries and diseases. GLCI guarantees that no business objectives will compromise safety. More specifically, GLCI undertakes to:

- make the health and safety of all employees, contractors and the public its top priority;
- promote a culture that obliges and authorizes all employees and contractors to stop work when they deem it to be hazardous;
- provide a work environment that allows each individual to be “able to work”, meaning in a physical, mental and emotional state that allows them to work efficiently, free of risks to their well-being or that of others;
- plan to consult with employees on safety initiatives and measures to prevent accidents;
- offer continuous integration training and instructions to ensure that all employees and contractors understand their responsibilities and GLCI’s expectations with regard to safety;
- provide and update safe work methods for which hazards and risks have been identified and reduced to the lowest level possible;
- ensure that safe work practices are developed, implemented and continuously reviewed;
- ensure that all mobile equipment and fixed facilities are safely operated and maintained;
- ensure that all new substances, activities and processes are assessed for potential risks to health and safety;
- investigate all accidents, incidents or hazards and take corrective measures;
- comply with all applicable legislative requirements and industry standards.

1.7.3 POLICY ON HARASSMENT AND EQUAL ACCESS TO EMPLOYMENT

The principles of equal access to employment are crucial for GLCI. These principles apply to all employees regardless of gender, sexual orientation, family situation, pregnancy, family responsibilities, race, disability, political or religious convictions and age.

Furthermore, GLCI wishes to create a work environment free of harassment and intimidation and to treat all people with dignity and respect. GLCI will not tolerate any discriminatory behaviour whatsoever by anyone on its property.