



**À :** Agence d'évaluation d'impact du Canada  
**DE :** Caroline Morissette, Directrice Environnement et Permis  
**OBJET :** Mine de lithium Baie-James – Avis de modifications apportées au projet désigné  
**DATE :** 17 janvier 2024

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## Mise en contexte

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Conformément à la condition 2.16 de la déclaration de décision émise le 13 janvier 2023, le présent document vise à informer l'Agence d'évaluation d'impact du Canada et le Gouvernement de la Nation Crie des changements mineurs apportés au projet tel que défini à la condition 1.33 de la déclaration de décision. Ce document est transmis suite à la réception du certificat d'autorisation émis par le gouvernement provincial le 27 décembre 2023 et qui approuve les changements suggérés.

## Modifications de l'empreinte au sol des infrastructures du projet

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Le plan d'aménagement du projet a été mis à jour (carte 1) pour tenir compte des modifications mineures apportées à l'empreinte au sol des infrastructures du projet. La carte 2 superpose le plan d'aménagement de l'étude d'impact sur l'environnement (WSP, 2021) à celui qui a été mis à jour afin de bien illustrer les changements qui ont été faits.

La principale modification au projet concerne le déplacement de la halde ouest vers l'ouest-sud-ouest. Les informations liées au déplacement de cette halde sont présentées plus bas.

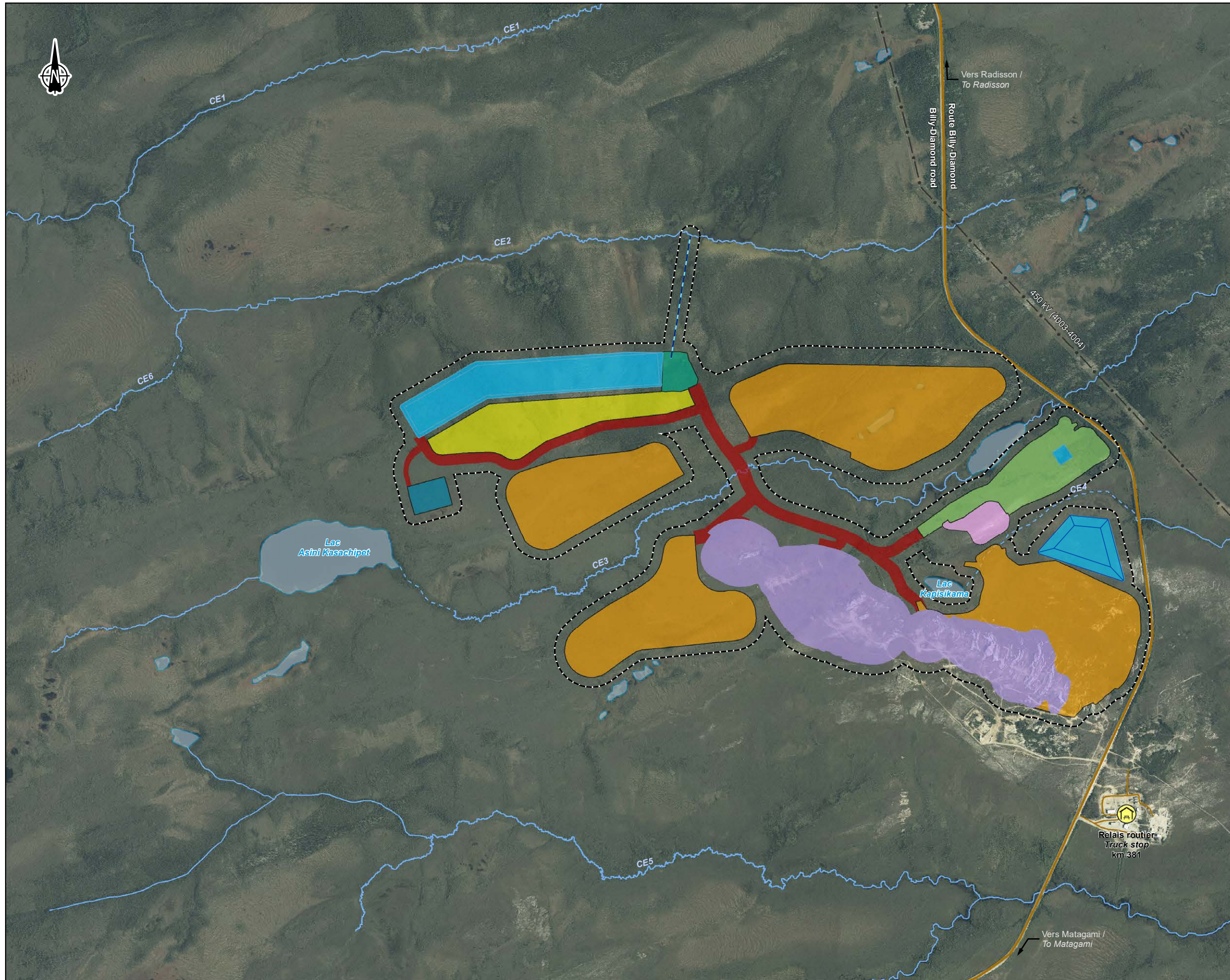
Les modifications de l'empreinte au sol entraînent une augmentation des superficies d'habitats affectées par le projet (tableau 1).

Il est toutefois important de noter que la version du plan de compensation des milieux humides (WSP, 2023), qui a été soumise aux autorités crie et fédérales, tient compte des changements de superficies affectées présentés dans cet avis de modification.

Tableau 1 : Comparaison des superficies directement affectées par le projet

MILIEUX	Superficie directement affectée par le projet (ha)		
	Étude d'impact sur l'environnement (2021)	Plan d'aménagement à jour (2023)	Différence par rapport à l'ÉIE (2021)
<b>Milieu terrestre</b>			
Affleurement rocheux	52,17	51,94	-0,23
Anthropique	0,86	1,12	+0,26
Arbustaie	53,00	62,11	+9,11
Aulnaie crispé	1,71	2,87	+1,16
Dénudé sec	17,56	17,66	+0,10
Pessière noire à lichen	18,12	25,16	+7,04
Pinède grise	1,61	1,72	+0,11
Brulis	0	0,07	+0,07
<b>Sous-total</b>	<b>145,03</b>	<b>162,64</b>	<b>+17,61</b>
<b>Milieus humides et hydriques</b>			
Tourbière arbustive	72,33	72,45	+0,12
Tourbière boisée	91,19	94,50	+3,31
Tourbière ouverte	140,69	154,83	+14,14
Lac	0,65	0,66	+0,01
<b>Sous-total</b>	<b>304,87</b>	<b>322,44</b>	<b>+17,57</b>
<b>Total</b>	<b>449,90</b>	<b>485,08</b>	<b>+35,18</b>

Source : Calculs faits par WSP, novembre 2023.



- Composantes du projet / Project Component**
- Effluent minier / Mine effluent
  - Accès/ Access road
  - Usine de traitement de l'eau / Water treatment plant
  - Secteur administratif et industriel / Administrative and industrial sector
  - Secteur de la halde à minerai / Rom Pad area
  - Fosse / Pit
  - Halde à matières organiques et dépôts meubles / Overburden and peat storage facility
  - Halde à stériles et résidus miniers / Waste rock and tailings stockpile
  - Entrepôt à explosifs / Explosives magazine
  - Bassin de gestion des eaux / Water retention basin
  - Empreinte de la mine (zone tampon 50 mètres) / Mine footprint (buffer zone 50 meters)

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

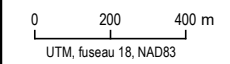
- Hydrographie / Hydrography**
- CE3** Numéro de cours d'eau / Stream number
  - Cours d'eau permanent / Permanent stream
  - Cours d'eau à écoulement diffus ou intermittent / Intermittent or diffused flow stream
  - Plan d'eau / Waterbody



Mine de lithium Baie-James / James Bay Lithium Mine

**Carte / Map 1**  
**Aménagement général de la mine /**  
**General mine site Arrangement**

**Sources :**  
 Orthoimage : Microsoft Bing (ESRI, 2017)  
 Gestim : MRNF Québec, 210315  
 Données du projet / Project data : Galaxy nov. 2023

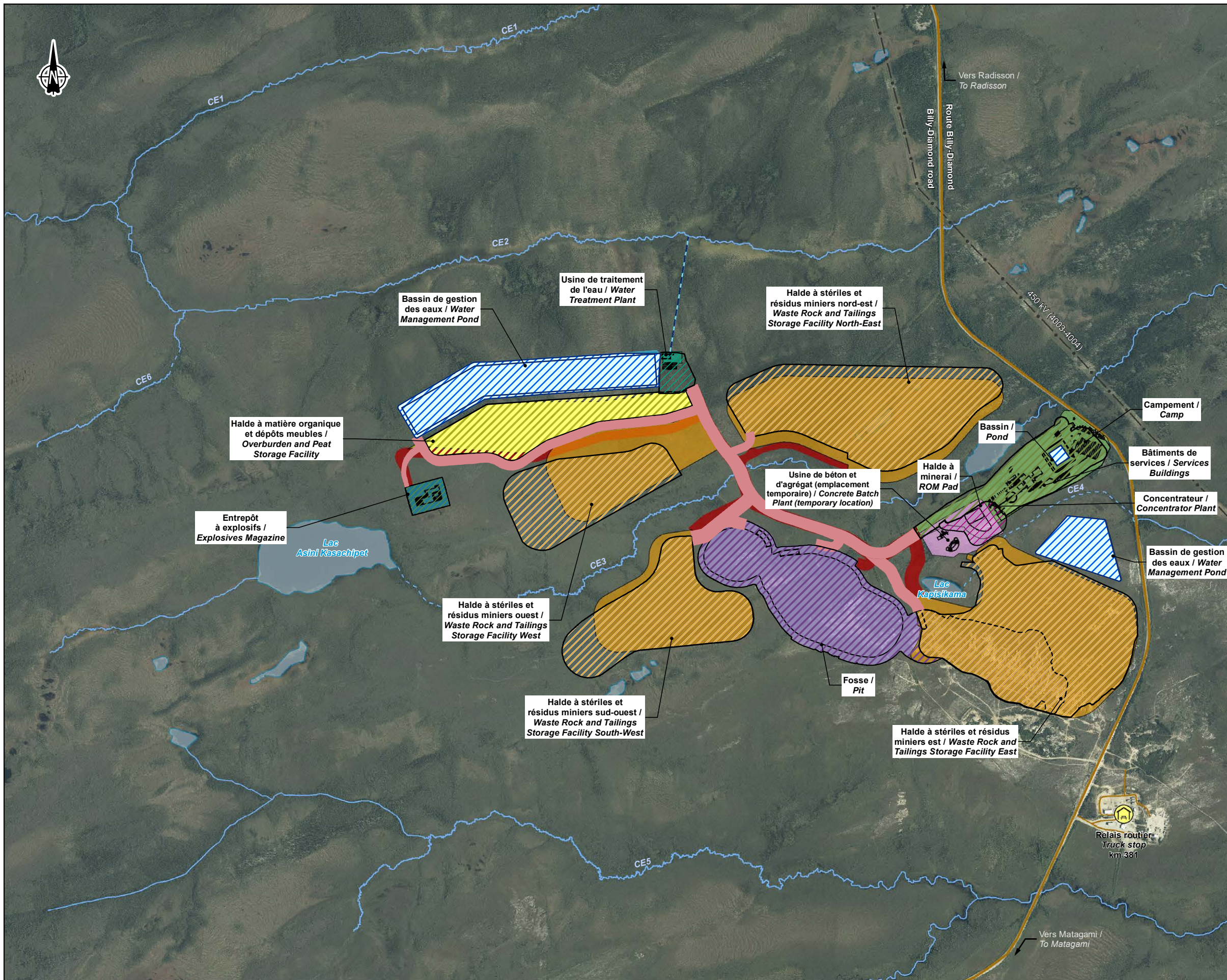


**Janvier /**  
**January 2024**

Dessin : A. Masson  
 Approbation : D. Thiffault  
 CA0005537\_2398\_C1\_wsp\_perle\_sanscontourCE3\_240110.mxd







**Composantes du projet / Project Component**

- |  |  |
|--|--|
|  | 2021 2023  |
|  | 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  |
|  | Secteur de la halde à minerai / ROM pad area                               |
|  | Halde à stériles et résidus miniers / Waste rock and tailings stockpile    |
|  | Halde à matière organique / Organic matter stockpile                       |
|  | Entrepôt à explosifs / Explosives magazine                                 |
|  | Bassin de rétention d'eau / Water retention basin                          |

**Infrastructures / Infrastructure**

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

**Hydrographie / Hydrography**

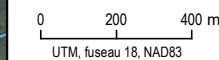
- |  |  |
|--|--|
|  | CE3 Numéro de cours d'eau / Stream number  |
|  | Cours d'eau permanent / Permanent stream   |
|  | Cours d'eau à écoulement diffus ou intermittent / Intermittent or diffused flow stream |
|  | Plan d'eau / Waterbody   |



Mine de lithium Baie-James / James Bay Lithium Mine

**Carte / Map 2  
Comparaison de l'aménagement général  
du site 2021 vs 2023 / Comparison of General  
Mine Site Arrangement 2021 vs 2023**

Sources :  
Orthoimage : Microsoft Bing (ESRI, 2017)  
Données du projet / Project data : Galaxy 2021 et nov. 2023



Janvier /  
January 2024

Préparation : D. Thiffault  
Dessin : A. Masson  
Approbation : D. Thiffault  
CA0005537\_2398\_C2\_wsp\_compar\_GA\_240111.mxd





## Déplacement de la halde ouest

Suite aux forages de condamnation qui ont été effectués en 2022 et qui ont démontré des indices en lithium dans des pegmatites se trouvant sous l'emplacement de la halde Ouest, il a été décidé de déplacer cette halde de 262 mètres en direction ouest-sud-ouest afin d'éviter la zone présentant un potentiel de minéralisation en lithium qui a été interceptée.

### a) Impacts associés au déplacement de la halde Ouest

Le déplacement de la halde Ouest n'entraîne aucun impact significatif additionnel sur le milieu puisque la halde conserve la même superficie ainsi que la même capacité d'entreposage de stériles et de résidus miniers; elle est uniquement déplacée. Les distances de transport additionnelles sont considérées négligeables et seront effectués sur la halde la plus éloignée des récepteurs sensibles (soit le relais routier du Km 381 et aires de chasse qui se trouvent le plus près de la zone du projet, à l'est et au sud-est des infrastructures prévues). Le constat est le même au niveau de la gestion de l'eau; aucun impact additionnel n'est anticipé.

### b) Consultation des premières nations

En juin 2023, Galaxy a informé les communautés de Waswanipi, Waskaganish et Eastmain ainsi que les utilisateurs du territoire du changement potentiel à la définition du projet que représente le déplacement de la halde ouest. Des sessions d'informations de groupes et des rencontres individuelles en présentiel ont été privilégiées à Eastmain pour informer la communauté et le maître de trappe du territoire RE02, M. Brian Weapenicappo. L'annonce des sessions à Eastmain a été faite par le biais de Facebook, la radio, courriels, de même que par les différentes associations et organisations (Les Aînés, Les jeunes, l'association des trappeurs, WEDC, CNE, ASD). Les diverses rencontres et communications, les commentaires fournis ainsi que les appréciations reçues lors des consultations sont présentés en annexe A.

<Original signé par>

Caroline Morissette, Directrice Environnement et Permis



## Références bibliographiques

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WSP. 2021. Étude d'impact sur l'environnement (version 2). Projet de mine de lithium Baie-James. Rapport produit pour Galaxy Lithium (Canada) Inc.

WSP. 2023. Plan de compensation des milieux humides. Projet mine de lithium Baie-James. Rapport produit pour Galaxy Lithium (Canada) Inc. 38 pages et annexes.



## **Annexe A – Consultation des Premières Nation concernant le déplacement de la halde ouest**

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# CONSULTATIONS WASKAGANISH



# James Bay Lithium Mine Project

Alternative Solution for the West Stockpile

June, 21th 2023

By Dominique Thiffault, Environment Director (Interim)  
Christelle Faivre, CR & HSS Director  
Catherine Lagacé, Community Relations Coordinator



# Agenda

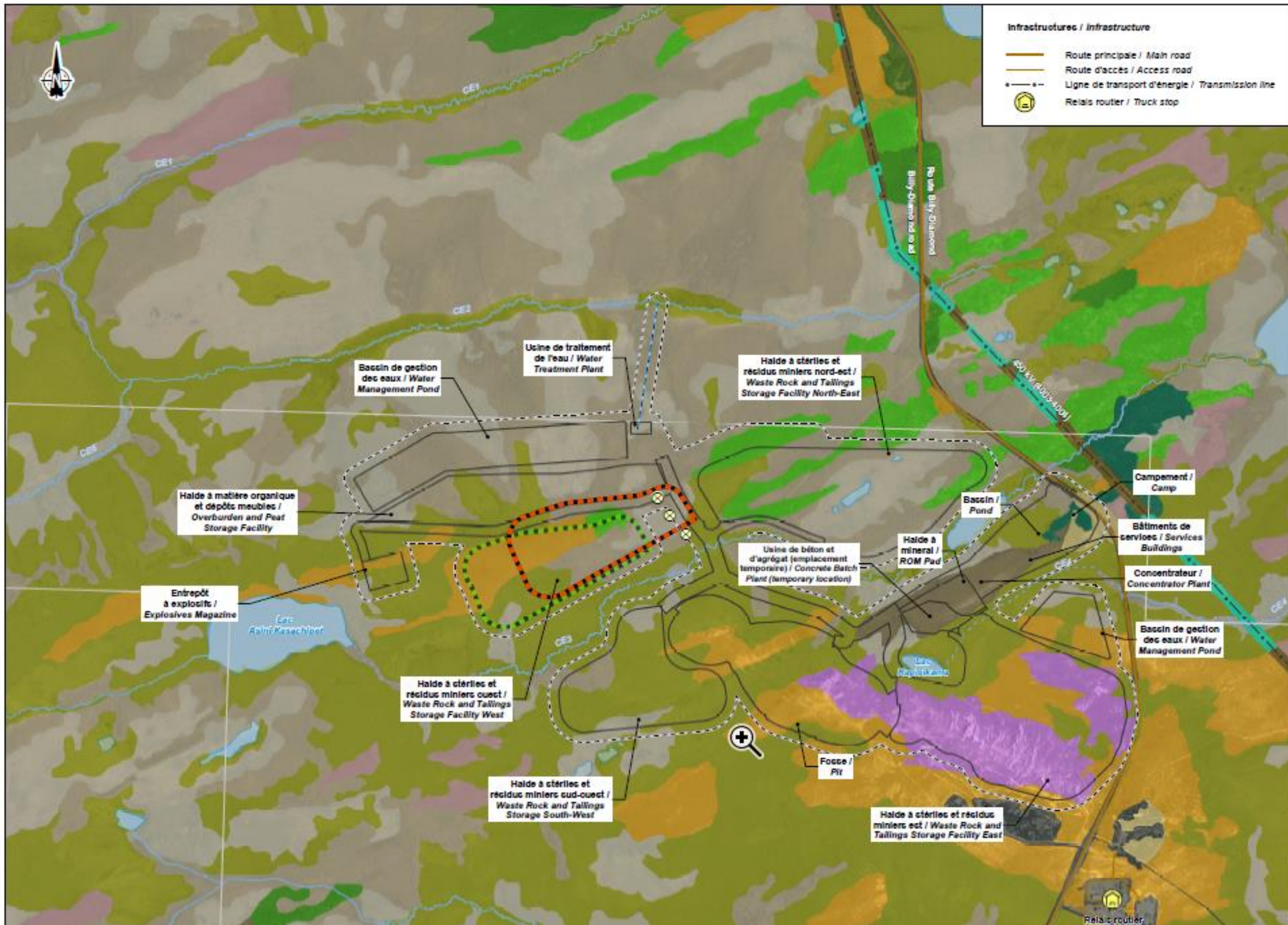
1. Context
2. Site Map
3. Impacts
4. Comparison of Surface Areas  
Affected by the West Stockpile





# Context

- Condemnation drillings performed in 2022 have shown the presence of spodumene under the West Waste Rock and Tailings Storage Facility.
- To avoid the mineral zone, we suggest moving this stockpile by 262 meters West-South-West from the original proposed location.



**Infrastructures / Infrastructure**

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

**Composantes du projet / Project Component**

- Limite de propriété / Property limit
- Effluent minier / Mine effluent
- Infrastructures minières / Mining infrastructure
- Empreinte de la mine (zone tampon de 50 mètres / Mine footprint (buffer 50 meters)
- Haie à stériles ouest (EIE 2021) / West waste rock stockpile (EIE 2021)
- Haie à stériles ouest (déplacement proposé mars 2023) / West waste rock stockpile (Proposed move March 2023)
- Forage / Borehole

**Peuplements terrestres / Terrestrial Vegetation**

- Afféurement rocheux / Rock outcrop
- Arbustale / Scrubland
- Aulnaie crispé / Alder forest
- Boisé / Woodland
- Dénué sec / Dry barren land
- Pessière noire à lichen / Black spruce lichen forest
- Pessière noire à aulnes / Black spruce alder forest
- Pinède grise / Jack pine forest
- Anthropique / Anthropogenic
- Brûlis / Burnt area
- Végétation terrestre dans l'emprise / Terrestrial vegetation in right-of-way

**Peuplements humides / Wetland**

- Plan d'eau / Waterbody
- Tourbière arbustive / Shrubby peatland
- Tourbière boisée / Treed peatland
- Tourbière ouverte / Open bog
- Végétation humide dans l'emprise / Wetland in right-of-way

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

**Carte / Map 1**  
 Solution de rechange pour la haie Ouest / West stockpile Alternative Solution

Source :  
 Océanage - Microsoft Bing (IGN, 2017)  
 Géoinf. MRF Québec, 210219  
 Données du projet / Project data - Galaxy 2023

# Impacts

- No additional impact on the environment:
  - Stockpile with the same size/shape;
  - Stockpile with the same storage capacity;
  - Additional transport distance is negligible and located at the farthest distance from the Truck Stop 381 and from the closest harvest zones.
- No additional impact on water management.
- No significant changes habitat loss in comparison with the ones estimated in the 2021 ESIA.



**Table 1: Comparison of Surface Areas Affected by the West Stockpile**

	<i>ESIA (2021) (ha)</i>	<i>Alternative Solution – West Stockpile (ha)</i>	<i>Variation from ESIA (2021) (ha)</i>
<b>Terrestrial Vegetation</b>			
Rock outcrop	52.17	52.17	--
Anthropogenic	0.86	0.86	--
Scrubland	53.00	59.82	+ 6.82
Alder forest	1.71	1.71	--
Dry barren land	17.56	17.56	--
Black spruce lichen forest	18.12	1.61	--
Jack pine forest	1.61	1.61	--
<b><i>Sub-total</i></b>	<b><i>145.03</i></b>	<b><i>151.85</i></b>	<b><i>+6.82</i></b>
<b>Wetland and Waterbody</b>			
Shrubby peatland	72.33	71.96	-0.37
Treed peatland	91.19	91.13	-0.06
Open bog	140.69	146.63	+ 5.94
Lake	0.65	0.65	--
<b><i>Sub-total</i></b>	<b><i>304.87</i></b>	<b><i>310.37</i></b>	<b><i>+5.5</i></b>
<b>Total</b>	<b>449.90</b>	<b>462.22</b>	<b>12.32</b>



**MIGWETCH**

**Comments or questions?**

**Thank you for your time and collaboration!**

# MINUTES OF MEETING

<b>SUBJECT:</b>	Alternative solution for the West Stockpile		
<b>DATE:</b>	June 21 <sup>st</sup> , 2023	<b>TIME:</b>	
<b>SITE:</b>	Phone Meeting	<b>LOCATION:</b>	Waskaganish
<b>ATTENDEES (Names):</b>	Barbara Hester Land Registrar / Local Environment Administrator		
<b>ALLKEM REPRESENTATIVES:</b>	Christelle Faivre		
<b>DISTRIBUTION:</b>	Barbara Hester And Wayne Cheezo		

<b>PURPOSE OF THE MEETING</b>	<p>The purpose of this meeting is to share some new information with the Waskaganish Local Environment Administrator on an alternative solution for the location of the West Stockpile. The condemnation drillings took place back in 2022, has shown the presence of spodumene under the West waste rock and tailings storage facility. To avoid the mineral zone, we suggest moving the West waste rock and tailings storage facility by only 262 meters West-South-West from the original proposed location. Please refer to the “2023-06_West Stockpile Alternative Solution” for more information.</p>
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ITEM	QUESTIONS/COMMENTS	ANSWERS
1.	Not applicable	

<b>Comments</b>	<p>The presentation was sent to the Waskaganish Local Environment Administrator for review. Any comments, questions or concerns will be sent to us by e-mail.</p>
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# CONSULTATIONS EASTMAIN



# James Bay Lithium Mine Project

Alternative Solution for the West Stockpile

June, 26<sup>th</sup> & 27<sup>th</sup>  
2023

Christelle Faivre, CR & HSS Director  
Denis Couture, Head of Canadian Operations



# Agenda

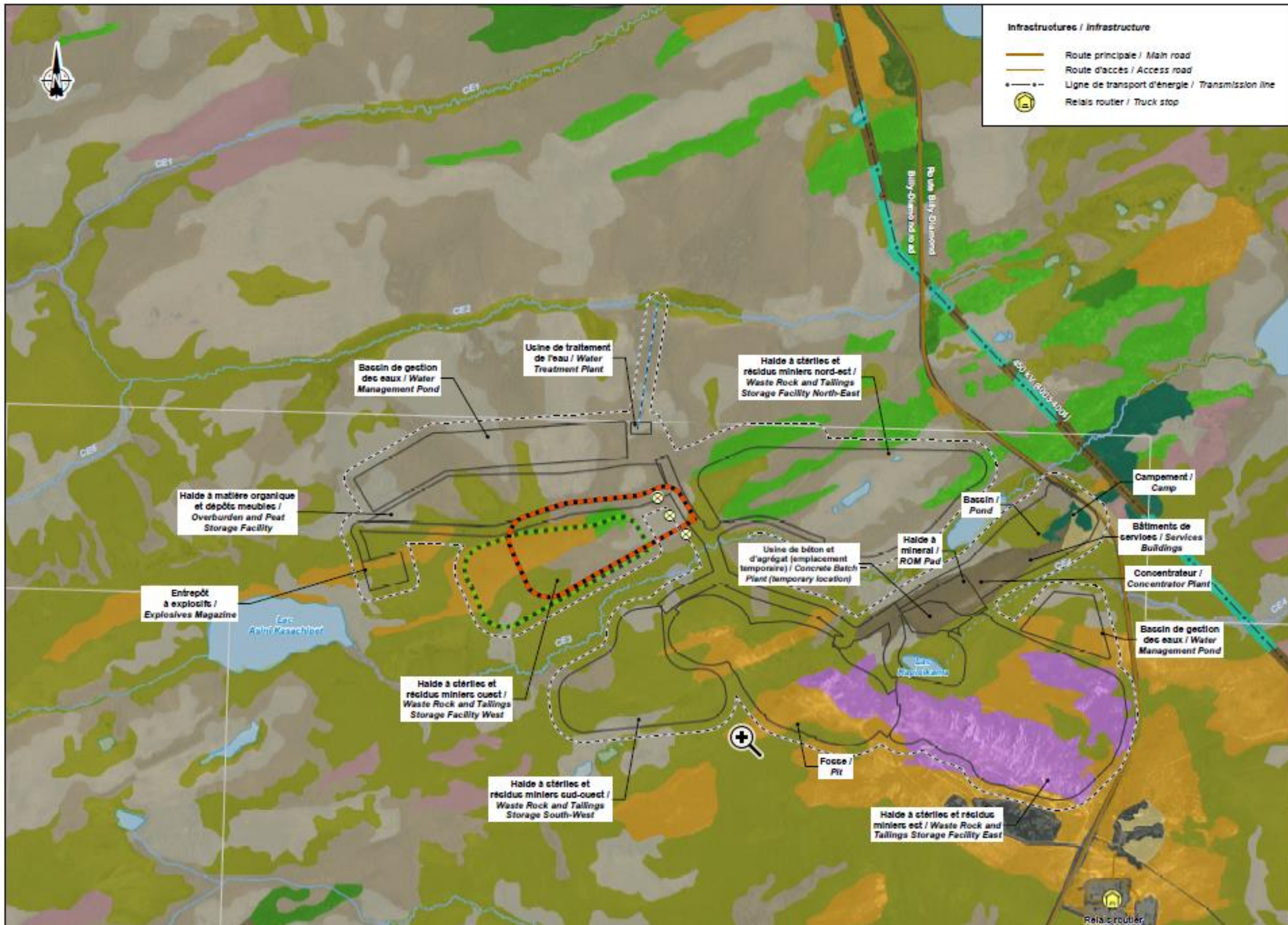
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# Context

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**Composantes du projet / Project Component**

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- Plan d'eau / Waterbody

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

**Carte / Map 1**  
 Solution de rechange pour la haie Ouest / West stockpile Alternative Solution

Source :  
 Océanage - Microsoft Bing (IGN, 2017)  
 Géoinf. MRF Québec, 210219  
 Données du projet / Project data - Galaxy 2023

# Impacts

- No additional impact on the environment:
  - Stockpile with the same size/shape;
  - Stockpile with the same storage capacity;
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- No additional impact on water management.
- No significant changes habitat loss in comparison with the ones estimated in the 2021 ESIA.



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<b>Total</b>	<b>449.90</b>	<b>462.22</b>	<b>12.32</b>



**MIGWETCH**

**Comments or questions?**

**Thank you for your time and collaboration!**

# MINUTES OF MEETING

<b>SUBJECT:</b>	Consultation with the Community of Eastmain regarding the West Stockpile Alternative Solution		
<b>DATE:</b>	June 26 <sup>th</sup> , and June 27 <sup>th</sup> 2023	<b>TIME:</b>	All days
<b>SITE:</b>	Individual Meeting	<b>LOCATION:</b>	Eastmain
<b>ATTENDEES (Names):</b>	<b>Billy Gilpin</b>	<b>Roger Weapenicappo</b>	<b>Chief Shanoush</b>
	<b>Shania Moses</b>	<b>Martina Cheezo</b>	<b>Shirley Moses</b>
	<b>Greg Williams</b>	<b>Mark Stewart loyce</b>	<b>Sydne Odjich</b>
	<b>Betty Tomatuk</b>	<b>Demerise Mayappo</b>	<b>Namagose Dawn</b>
	<b>Alvin Cheezo</b>	<b>Gregory Mayappo</b>	<b>Mercedes Tomatuk</b>
<b>ALLKEM REPRESENTATIVES:</b>	Christelle Faivre		
<b>DISTRIBUTION:</b>	All the Eastmain Community group		

<b>PURPOSE OF THE MEETING</b>	<p>The purpose of these individual meetings is to share some new information with the community of Eastmain on an alternative solution for the location of the West Stockpile. The condemnation drillings that took place back in 2022 showed a potential presence of spodumene under the West stockpile. To avoid this potential spodumene zone, we suggest moving the West stockpile by only 262 meters West-South-West from the original proposed location. Please refer to the “2023-06_West Stockpile Alternative Solution” for more information.</p> <p>15 individual meetings have been conducted.</p> <p>This document was sent also through the Elders association, the WEDC organization, the CNE organization, the Youth, and the Cree Trapper Association via local employees.</p> <p>Radio has been used to announce the event too and we sent email through our list of contacts</p>
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ITEM	QUESTIONS/COMMENTS	ANSWERS
1.	What did you find as minerals in the 3 boreholes?	Condemnation drillings performed in 2022 have shown the presence of lithium pegmatite.
2.	Is it the same as the deposit?	Yes, it is the same grade.
3.	What kind vegetation is impacted?	It is Scrubland and Open bog. Please see the presentation slide 6.

## MINUTES OF MEETING

4.	General comments: it is a small change.	
5.	<b>Other questions</b>	
6.	When will the project start?	For now, we don't know. We are waiting the ESIA approval.
7.		
8.		
9.		
10.		
11.		
12.		

Comments

# MINUTES OF MEETING

<b>SUBJECT:</b>	Consultation with the Community of Eastmain regarding the West Stockpile Alternative Solution		
<b>DATE:</b>	June 27th 2023	<b>TIME:</b>	2:00 pm to 3:00pm with the Tallyman Brian Weapenicappo and Waylon 3:00 pm to 4:00 pm Community Meeting
<b>SITE:</b>	Sports Complex – Eastmain	<b>LOCATION:</b>	Eastmain
<b>ATTENDEES (Names):</b>	<b>2:00 pm Brian Weapenicappo</b>	<b>2:00 pm Waylon Weapenicappo</b>	
	<b>3:00 pm Roderick Mayappo</b>	<b>3:00 pm Sidney Weapenicappo</b>	<b>3:30 pm Lindy Spencer</b>
	<b>3:00 pm Denise Brown</b>		
<b>ALLKEM REPRESENTATIVES:</b>	Christelle Faivre	Denis Couture	
<b>DISTRIBUTION:</b>	All the Eastmain Community group		

<b>PURPOSE OF THE MEETING</b>	<p>The purpose of these individual meetings is to share some new information with the community of Eastmain on an alternative solution for the location of the West Stockpile. The condemnation drillings that took place back in 2022 showed a potential presence of spodumene under the West stockpile. To avoid this potential spodumene zone, we suggest moving the West stockpile by only 262 meters West-South-West from the original proposed location. Please refer to the “2023-06_West Stockpile Alternative Solution” for more information.</p> <p>This document was sent also through the Elders association, the WEDC organization, the CNE organization, the Youth, and the Cree Trapper Association via local employees.</p> <p>Radio has been used to announce the event too and we sent email through our list of contacts for Eastmain</p>
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ITEM	QUESTIONS/COMMENTS	ANSWERS
1.	Is it only on the three boreholes that you find some minerals?	Yes, it is only on the 3 boreholes on the map that spodumene has been found.
2.	It is very small change	

## MINUTES OF MEETING

3.	<b>OTHERS QUESTIONS:</b>	
4.	What is the next step after this consultation?	<p>Last week, Allkem received a list of questions/commitments from the COMEX which we must answer. The COMEX will meet in July to analyze the information. Today's consultation was one of the activities to be carried out.</p> <p>The ESIA is not currently approved or issued to Allkem, and neither is the IBA. Following the approval of ESIA, and IBA, Allkem will have to apply for all its construction permits.</p>
5.	As far as training is concerned, will Allkem give training to Eastmain?	<p>Allkem will provide health and safety training at the site in its induction program, but this is not educational training. Every month, the CSB, CNE, WEDC organizations meet to determine the relevant training to have on-site training, but also students. Currently the challenge is to find a training place for some of its training.</p> <p>WEDC for Cree Jobs to Offer Pre-Employment Program</p>
6.	Do you plan to make a presentation of the Cree jobs available for construction?	<p>Yes. Following the approval of ESIA and IBA, specific meetings on posts may be held in collaboration with WEDC. Additionally, WEDC will develop a Cree Workforce for the construction.</p>
7.	How do I apply for a future job <b>in the construction phase</b> ?	<p>Contact WEDC. They will look for people in different areas of construction but also in administration, warehouse, carpenter, driver, camp management, etc.</p>
8.	Is it necessary to have a qualification for the construction period?	<p>Not necessarily. Talk to WEDC. We will look at the person's experience as well. There will be accompaniments with companies on site.</p>
9.	If I want a contract, how do you do it?	<p>As we have always discussed, please go to meet the WEDC.</p>
10.	Will some of the type of work be contracted? or everything will be the company?	<p>Certain services will be contracted but the majority of the work will be carried out by the Company.</p>

## MINUTES OF MEETING

<p>11.</p>	<p>Has the bus contract been awarded between Eastmain &amp; the site?</p>	<p>Allkem went to tender, with one Cree Enterprise and one non-Cree company in March 2023. Allkem received two fully compliant bids respecting regulatory requirements (provincial permits, etc.). Preference was granted to the Cree Enterprise and Allkem is currently negotiating the contract with the Cree Enterprise.</p>
<p>12.</p>	<p>Do you have exploration now on site?</p>	<p>We don't have any activities now. Exploration activities will likely happen in the wintertime of 2024. Comment of Lindy: he has a partnership with a company, and he would like to be invited to the tender.</p>
<p>13.</p>	<p>When the temporary camp will be installed and who is installed it?</p>	<p>We are waiting for the ESIA approval prior to installing the temporary camp at the truck stop. It will be Horizon North who will install the camp with the WEDC supplying manpower where and when available. If you have any interest and qualifications, please contact the WEDC.</p>

Comments



GALAXY LITHIUM CANADA INC. – JAMES BAY PROJECT

Alternative Solution for the West Stockpile

What:

Where: Eastmain

When: 26 06 2023

ATTENDANCE REGISTER

#	Name (Last, First Name)	Organisation	E-mail	Phone Number	Signature
	Billy Gilpin	WEDC	<données d'identification caviardées>	<données d'identification caviardées>	<Original signé par>
	Shawn M	WEDC	<données d'identification caviardées>	<données d'identification caviardées>	<Original signé par>
	Gay Williams	WEDC	<données d'identification caviardées>	<données d'identification caviardées>	<Original signé par>
	Betty Tomatuk	CTA	<données d'identification caviardées>	<données d'identification caviardées>	<Original signé par>



GALAXY LITHIUM CANADA INC. - JAMES BAY PROJECT

INDIVIDUAL MEETING

Where: Eastmain

When: 27-06-2023

What:

ATTENDANCE REGISTER

Alternative Solution for the West Stock Pile

#	Name (Last, First Name)	Organisation	E-mail	Phone Number	Signature
	<i>Rogell [Signature]</i>	Richell CNE			
	<i>Martina Cheyo</i>	WEDC	<données d'identification caviardées>		
	<i>Mark-Stewart, Claya</i>	WEDC	<données d'identification caviardées>		<Original signé par>
	<i>Demerise Mayappa</i>	ASD	<données d'identification caviardées>		<Original signé par>
	<i>Raymond Shavoush</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>Shirley Moses</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>Sydne Odjick</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>Namagoose, Dawn</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>Mercedes Tomatak</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>ALVIN CHEYO</i>	CNE	<données d'identification caviardées>		<Original signé par>
	<i>Gregory Mayappa</i>	CNE	<données d'identification caviardées>		<Original signé par>



## Caroline Morissette

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**De:** Greg Williams <greg@wedc.email>  
**Envoyé:** 27 juin 2023 08:21  
**À:** Christelle Faivre  
**Cc:** Mathieu Boucher  
**Objet:** RE: Presentation West Stockpile alternative solution

Thank you Christelle and I will share with the team

**Greg Williams**  
General Manager

WEDC Development Corporation | 1 - Mewaben Meskimo Eastmain, QC, J0M 1W0

Cell: [1 819 977 5596](tel:18199775596) Office: [1 819 977 0355](tel:18199770355) Fax: [1 819 977 0356](tel:18199770356)

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**From:** Christelle Faivre <christelle.faivre@allkem.co>  
**Sent:** Monday, June 26, 2023 6:29 PM  
**To:** Greg Williams <greg@wedc.email>  
**Cc:** Mathieu Boucher <mboucher@stajune.ca>  
**Subject:** Presentation West Stockpile alternative solution

Dear Greg,

We are planning the meeting **tomorrow at 3:00 pm at the Sport Complex**, if the condition of air quality is good.

Allkem would like to share information regarding **the west rock pile alternative solution**.

In fact, the condemnation drillings took place back in 2022, it has shown the presence of spodumene under the West waste rock and tailings storage facility.

To avoid the mineral zone, we suggest moving the West waste rock and tailings storage facility by **only 262 meters** West-South-West from the original proposed location.

- Stockpile has the same size/shape;
- Stockpile has the same storage capacity;
- Additional transport distance is negligible and located at the farthest distance from the Truck Stop 381 and from the closest harvest zones.

Please see the presentation in attachment.

If you can share this information to the people that you think they can be interested.

Many thanks Greg for your help. Any comments please contact me.

**Christelle Faivre**  
Director, HSS, CR & Climate Change



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# CONSULTATIONS WASWANUPI



# James Bay Lithium Mine Project

Alternative Solution for the West Stockpile

June, 21th 2023

By Dominique Thiffault, Environment Director (Interim)  
Christelle Faivre, CR & HSS Director  
Catherine Lagacé, Community Relations Coordinator



# Agenda

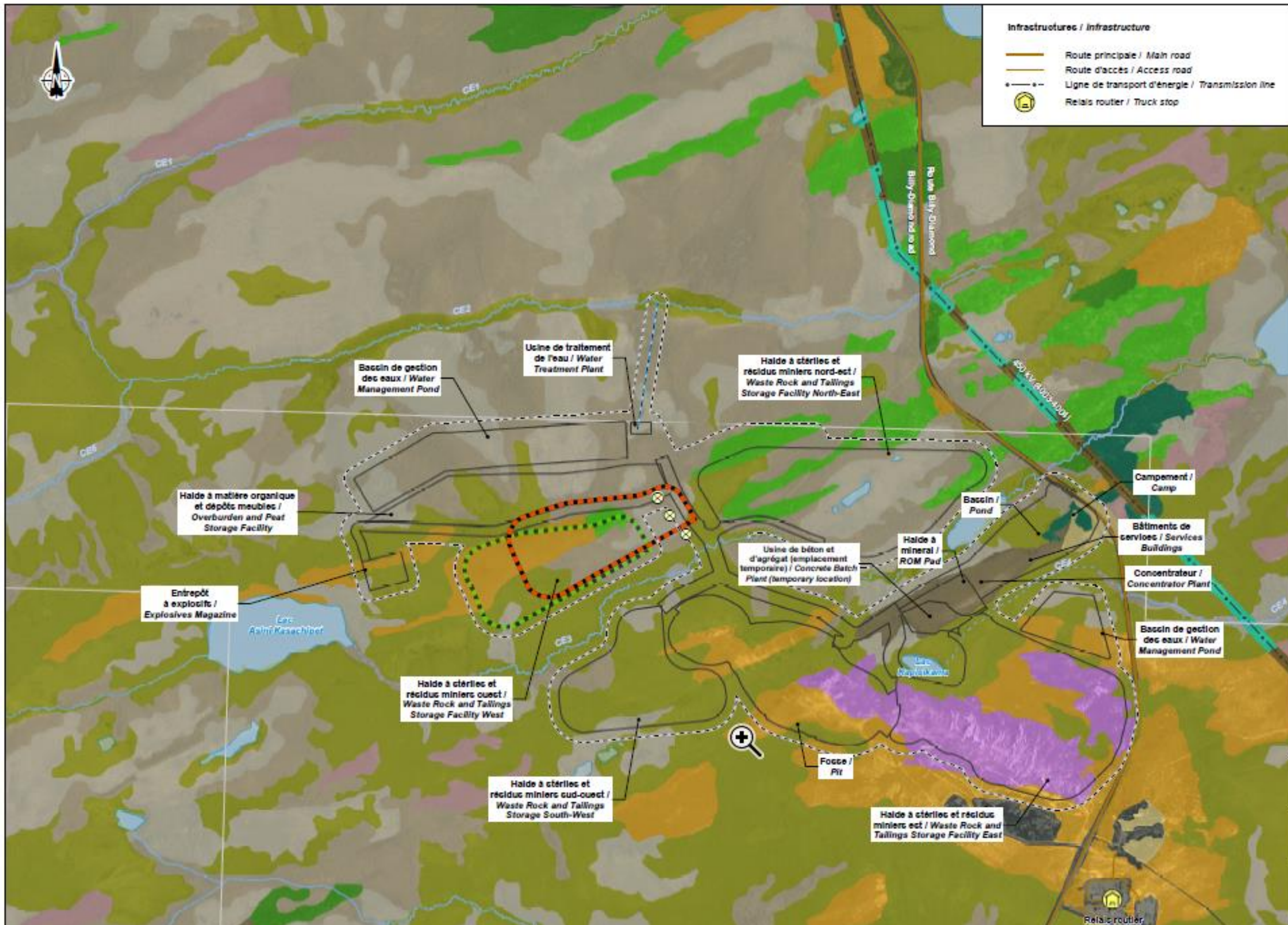
1. Context
2. Site Map
3. Impacts
4. Comparison of Surface Areas  
Affected by the West Stockpile





# Context

- Condemnation drillings performed in 2022 have shown the presence of spodumene under the West Waste Rock and Tailings Storage Facility.
- To avoid the mineral zone, we suggest moving this stockpile by 262 meters West-South-West from the original proposed location.



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

- Composantes du projet / Project Component**
- Limite de propriété / Property limit
  - Effluent minier / Mine effluent
  - Infrastructures minières / Mining infrastructure
  - Emprise de la mine (zone tampon de 50 mètres / Mine footprint (buffer 50 meters)
  - Haie à stériles ouest (EIE 2021) / West waste rock stockpile (EIE 2021)
  - Haie à stériles ouest (déplacement proposé mars 2023) / West waste rock stockpile (Proposed move March 2023)
  - Forage / Borehole

- Peuplements terrestres / Terrestrial Vegetation**
- Afféurement rocheux / Rock outcrop
  - Arbustale / Scrubland
  - Aulnaie crispé / Alder forest
  - Boisé / Woodland
  - Dénué sec / Dry barren land
  - Pessière noire à lichen / Black spruce lichen forest
  - Pessière noire à aulnes / Black spruce alder forest
  - Pinède grise / Jack pine forest
  - Anthropique / Anthropogenic
  - Brûlis / Burnt area
  - Végétation terrestre dans l'emprise / Terrestrial vegetation in right-of-way

- Peuplements humides / Wetland**
- Plan d'eau / Waterbody
  - Tourbière arbustive / Shrubby peatland
  - Tourbière boisée / Treed peatland
  - Tourbière ouverte / Open bog
  - Végétation humide dans l'emprise / Wetland in right-of-way

- 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**  
 Solution de rechange pour la haie Ouest / West stockpile Alternative Solution

Source :  
 Océanage - Microsoft Bing (IGN, 2017)  
 Géoinf. MRF Québec, 210219  
 Données du projet / Project data - Galaxy 2023

# Impacts

- No additional impact on the environment:
  - Stockpile with the same size/shape;
  - Stockpile with the same storage capacity;
  - Additional transport distance is negligible and located at the farthest distance from the Truck Stop 381 and from the closest harvest zones.
- No additional impact on water management.
- No significant changes habitat loss in comparison with the ones estimated in the 2021 ESIA.



**Table 1: Comparison of Surface Areas Affected by the West Stockpile**

	<i>ESIA (2021) (ha)</i>	<i>Alternative Solution – West Stockpile (ha)</i>	<i>Variation from ESIA (2021) (ha)</i>
<b>Terrestrial Vegetation</b>			
Rock outcrop	52.17	52.17	--
Anthropogenic	0.86	0.86	--
Scrubland	53.00	59.82	+ 6.82
Alder forest	1.71	1.71	--
Dry barren land	17.56	17.56	--
Black spruce lichen forest	18.12	1.61	--
Jack pine forest	1.61	1.61	--
<b><i>Sub-total</i></b>	<b><i>145.03</i></b>	<b><i>151.85</i></b>	<b><i>+6.82</i></b>
<b>Wetland and Waterbody</b>			
Shrubby peatland	72.33	71.96	-0.37
Treed peatland	91.19	91.13	-0.06
Open bog	140.69	146.63	+ 5.94
Lake	0.65	0.65	--
<b><i>Sub-total</i></b>	<b><i>304.87</i></b>	<b><i>310.37</i></b>	<b><i>+5.5</i></b>
<b>Total</b>	<b>449.90</b>	<b>462.22</b>	<b>12.32</b>



**MIGWETCH**

**Comments or questions?**

**Thank you for your time and collaboration!**

## Caroline Morissette

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**De:** Catherine Lagacé  
**Envoyé:** 21 juin 2023 13:32  
**À:** joshua.blacksmith@cfnw.ca  
**Cc:** Christelle Faivre; Dominique Thiffault; Caroline Morissette  
**Objet:** Alternative solution for the West Stockpile - Allkem  
**Pièces jointes:** 2023-07\_Alternative Solution for the West Stockpile .pdf

Dear Joshua,

Thanks for the call today. As discussed, please find attached the presentation regarding the Alternative Solution for the West Stockpile.

In fact, the condemnation drillings took place back in 2022, it has shown the presence of spodumene under the West waste rock and tailings storage facility.

To avoid the mineral zone, we suggest moving the West waste rock and tailings storage facility by **only 262 meters** West-South-West from the original proposed location.


If you could please review the document. We will discuss it next Wednesday.

Thanks Joshua!

And Happy National Aboriginal Day!!

**Catherine Lagacé**

Coordonnatrice Relations avec la Communauté / Community Relations Coordinator

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**Please note that our Montreal office has moved locations. Our new address is 800-2000 Mansfield, Montreal, Qc, H3A 2Z5**