



# Canada Nickel – Crawford Project

## Initial Project Description Public Meeting

### Welcome

Please close your mic when you are not speaking

Raise your hand when you wish to speak (during the Q&A period)

Questions can also be shared in the Q&A box



Mute



Chat



Raise Hand



Q&A

Leave



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# Canada Nickel – Crawford Nickel Project

*Delivering the Next Generation  
of Nickel Sulphide Projects*

Initial Project Description (IPD) Presentation  
May 2022





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This Presentation contains certain information that may constitute "forward-looking information" under applicable Canadian securities legislation about Canada Nickel Company Inc. ("CNC"). Forward-looking information includes statements about strategic plans, including future operations, future work programs, capital expenditures, discovery and production of minerals, price of nickel, timing of geological reports and corporate and technical objectives. Forward-looking information is necessarily based upon a number of assumptions that, while considered reasonable, are subject to known and unknown risks, uncertainties, and other factors which may cause the actual results and future events to differ materially from those expressed or implied by such forward-looking information, including the risks inherent to the mining industry, adverse economic and market developments. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. All forward-looking information contained in this Presentation is given as of the date hereof and is based upon the opinions and estimates of management and information available to management as at the date hereof. CNC disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, except as required by law.

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The scientific and technical information contained in this Presentation has been reviewed by Steve Balch, P. Geo, (VP Exploration) and a Qualified Person within the meaning of National Instrument 43-101.

## **Foreign Exchange Assumptions**

All amounts discussed herein are denominated in CAD dollars unless otherwise specified.

# Agenda



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- Welcome and Engagement Team Presentations
- The (new) Impact Assessment Process
  - What has changed?
  - Where is Canada Nickel in the process?
- Initial Project Description
  - Project Information
  - Stakeholder, Community, and Indigenous Engagement
  - Existing Infrastructure and Activities
  - Proposed Mine Facilities/Infrastructure
  - Preliminary Decommissioning Approach
  - Preliminary Schedule
  - Preliminary List of Activities
  - Baseline Studies
  - Approvals
  - Potential Impacts of the Project
- Questions and Feedback
- Next Steps
- Meeting End





## Transfer Environment and Society (TES) has been retained to build and manage Canada Nickel's Engagement Processes

- ✓ Who is TES?
  - 30-year experience, 200+ mandates in building bridges between organizations and communities
  - Act as custodians of the engagement process, to ensure Canada Nickel: **follows best practices, gives proper consideration to local feedback when planning its project and follows up on its commitments**
- ✓ In terms of the Community & Stakeholder Engagement Process, what comes next?
  - Understanding the **expectations** and **interests** of the community and local stakeholders to build an Engagement Plan
  - The Engagement Plan will be reviewed throughout the process, per the community's feedback





## OVERVIEW

**Planning and decision-making tool** used by regulators, communities, stakeholders, Indigenous groups, and proponents to emphasize the positive and resolve or mitigate the negative impacts of a proposed major project

Focused heavily on **Indigenous participation, early planning** of a project's design, and the **environmental and social impacts** of a project through a **gender-based analysis plus (GBA+)**

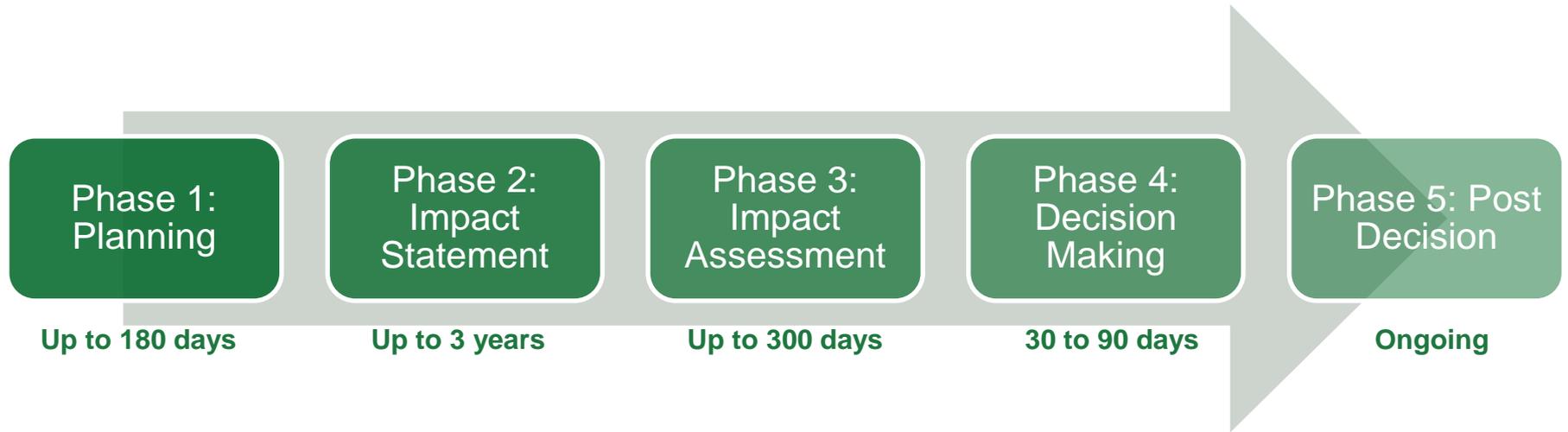
This process is distinct from the provincial Environmental Assessment Process and is more in-depth than previous assessment processes.



# Stages of the Process



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This is a phased process involving multiple document submissions, federal review periods, and public participation opportunities.

By taking the time to provide feedback on Canada Nickel's submissions, you are helping Canada Nickel and the IAAC to develop a comprehensive understanding of the Project's impacts and benefits

**Canada Nickel, by submitting the *Initial Project Description*, will begin the Planning phase of the Impact Assessment Process**

# The Planning Stage



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A proponent develops an Initial Project Description and Detailed Project Description, with input from Indigenous and stakeholder communities, which are then submitted to the Agency.

The planning process can take up to 180 days, commencing once the Agency accepts and posts the IPD.

<b>Proponent Key Documents</b>	<b>IAAC Key Documents</b>	<b>Includes Indigenous and/or Public Engagement or Consultation by the Proponent or Agency</b>
Initial Project Description		✓
	Summary of Issues	✓
Detailed Project Description		✓
Response to Summary of Issues		✓
	Notice of Impact Assessment Decision	
	Public Participation Plan	✓
	Cooperation Plan	
	Indigenous Engagement and Partnership Plan	✓
	Permitting Plan	
	Tailored Impact Statement Guidelines	✓





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# Canada Nickel's *Initial Project Description*

[www.canadanickel.com](http://www.canadanickel.com)



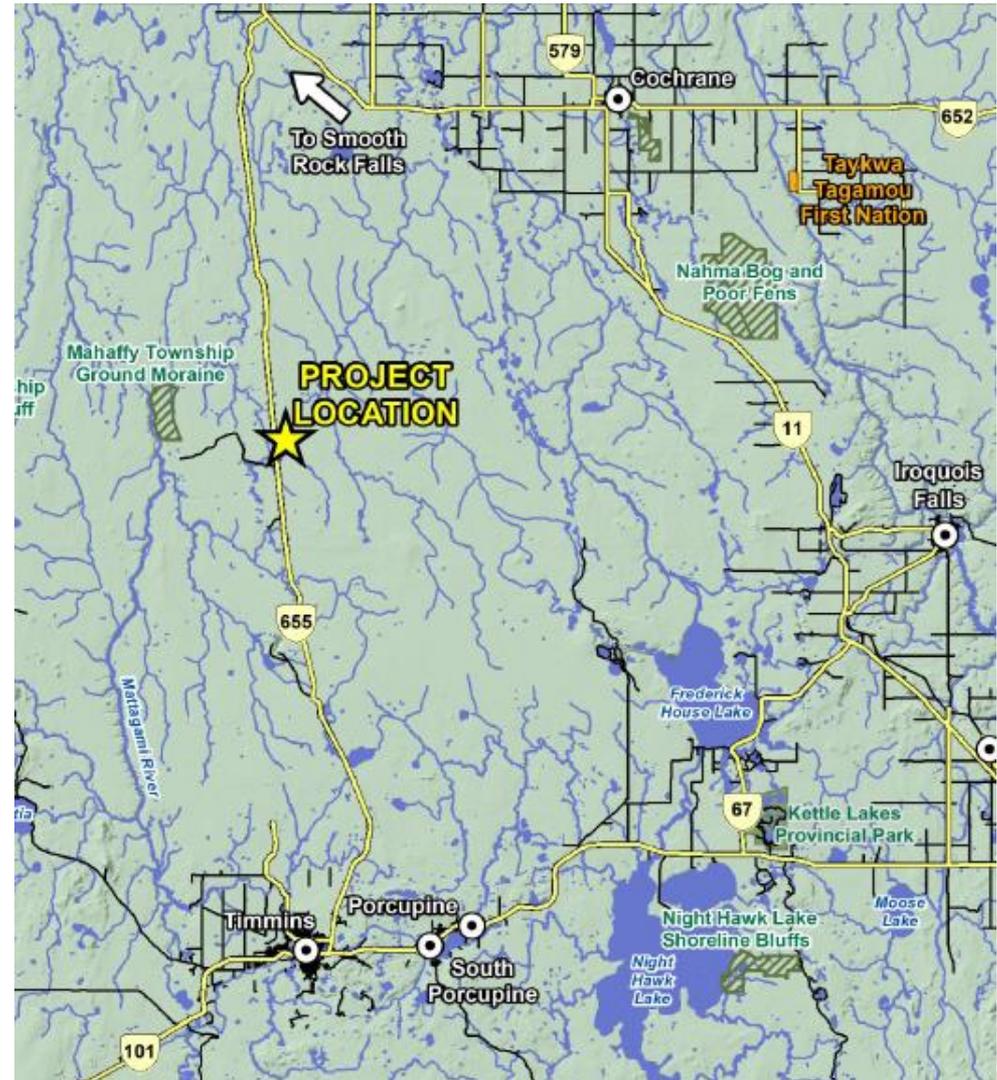
# Project Information



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Advancing the **Crawford Nickel Project** as a potentially **carbon neutral** source of some of Canada's critical minerals: **nickel, iron, and cobalt**

- ✓ According to the World Bank Group, demand for these minerals could increase by as much as **500% by 2050**
- ✓ Canada Nickel plans to feed into the clean technology revolution through the **electric vehicle and stainless-steel markets**
- ✓ Crawford is well positioned, located in the heart of the Cochrane District Mining Camp
- ✓ Estimated 40+ year life of mine





## PHASE 1 – PRELIMINARY ENGAGEMENT - COMPLETED

### Indigenous

Introductions and beginning of discussions with Taykwa Tagamou Nation, Matachewan First Nation, Mattagami First Nation, and the Metis Nation of Ontario

### Stakeholders

Preliminary stakeholder meetings – General Project Information and baseline studies  
Feedback Survey – Topics of Interest and Engagement Preferences  
Opening of regional office

## PHASE 2 – LAUNCH OF IAAC PHASE 1 – ONGOING AND UPCOMING

### Indigenous

Ongoing discussions, formalization of agreements  
Review of IPD and IPD Community Meetings

### Stakeholders

IPD stakeholder meetings  
Open, virtual public IPD meetings  
Formation of *Environment and Labour and Training* committees  
Development of *Local Procurement Policy* and *Contributions Program* in collaboration with Committee

## PHASE 3 – CONTINUATION OF IMPACT ASSESSMENT PROCESS

Ongoing meetings for review of Impact Assessment documents for both Indigenous communities and stakeholders  
Continued provision of up-to-date information via quarterly newsletters and updates to the project website



## KEY TAKEAWAYS

### 1. YOU WILL BE HEARD

*All feedback is recorded and logged alongside undertaken action or responses from CNC, as appropriate*

### 2. THIS PROCESS IS ONGOING AND FLEXIBLE

*Project design is an interactive process still in the early phases- engagement activities, collection of feedback, and revisions will be ongoing*

### 3. WE WANT TO KNOW WHAT IS IMPORTANT TO YOU

*Canada Nickel is committed to transparent, tailored engagement that is suited to your interests and expectations*

# Existing Infrastructure and Activities



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- ✓ Greenfield site with no history of mining or advanced exploration, though subject to past logging
- ✓ Surface drilling for ~3 years
- ✓ Infrastructure: exploration road, trails, and intersection with Highway 655 and two transmission lines

## ONGOING ACTIVITIES

- Continued environmental baseline studies
- Environmental Approvals for exploration (as/if required)
- Continued engagement with Indigenous communities, stakeholders, and the public
- Completion of engineering studies associated with
  - Project design
  - Highway and transmission line relocation
  - Metallurgical testwork
  - Net Zero/carbon sequestration research and testing
- Legal/business/land agreements
- Hiring of individuals, contractors, and consultants, as necessary
- **Completion of the Feasibility Study, scheduled for late Q4 2022**





Design and engineering team made best effort to following established guidelines and goals that helped shape the IPD Site Layout, including:

- Minimize site footprint
- Avoid encroachment into West Buskegau river
- Minimize overprinting of waterbodies
- Avoid relocation of 115 kV powerline to east of site
- Avoid overlap into Mahaffy Conservation Reserve

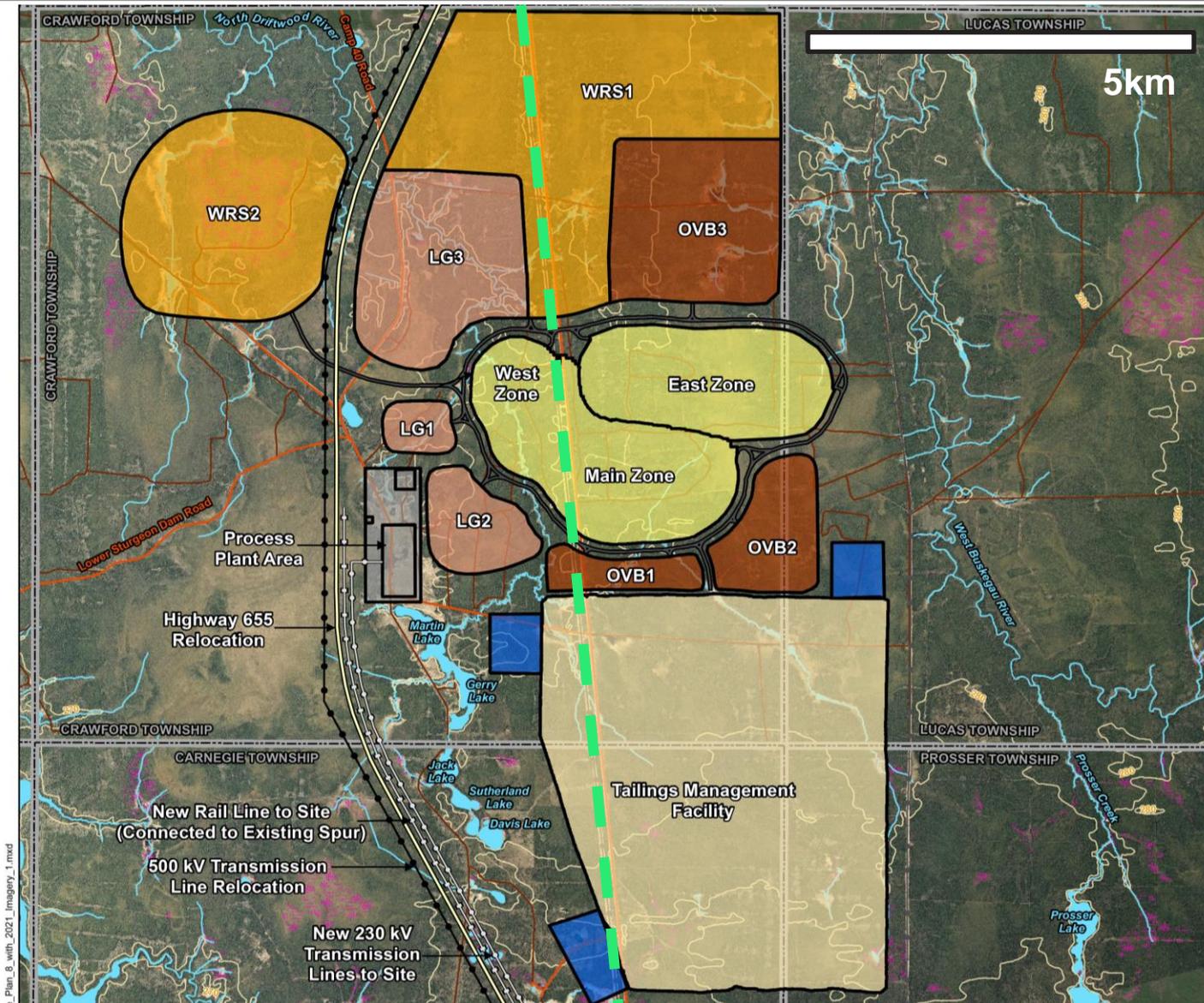
Additional considerations during exploration and site planning:

- Location of snowmobile trails and ongoing communication with snowmobile clubs
- Location of hunting blinds, camps, traplines, etc. and efforts to contact owners
- Maintaining, where possible, a 100 m distance from all waterbodies during drilling (as opposed to regulation 30 m)
- Open communication with other landowners, including commercial operations (OPG, Haliburton Forest, etc.)

# Proposed Mine Facilities/Infrastructure



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**LEGEND**

- WRS: Waste Rock Stockpile
- OVB: Overburden Stockpile
- LG: Low Grade Ore Stockpile
- : Pond
- : Current Highway 655

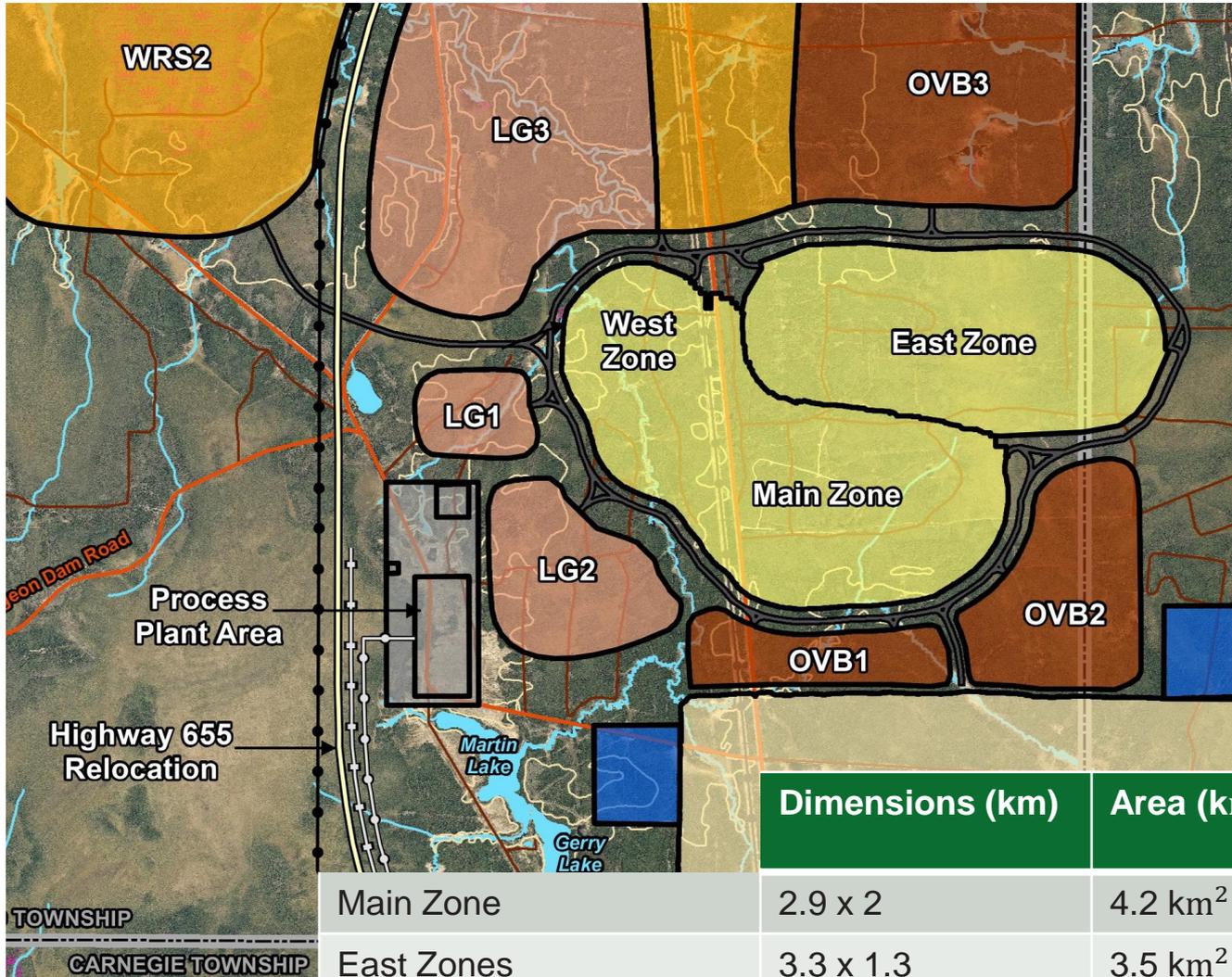
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**NOTE: All information to follow may be subject to revision during ongoing engineering**

# Proposed Mine Facilities/Infrastructure



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**OPEN PIT**

3 adjacent pits proposed

**Total Material to be mined:**  
Total: 5,186 million tonnes  
Ore: 1,671 million tonnes

**Processing Capacity:**  
Early Years: 42,500 tpd  
LOM: 120,000 tpd

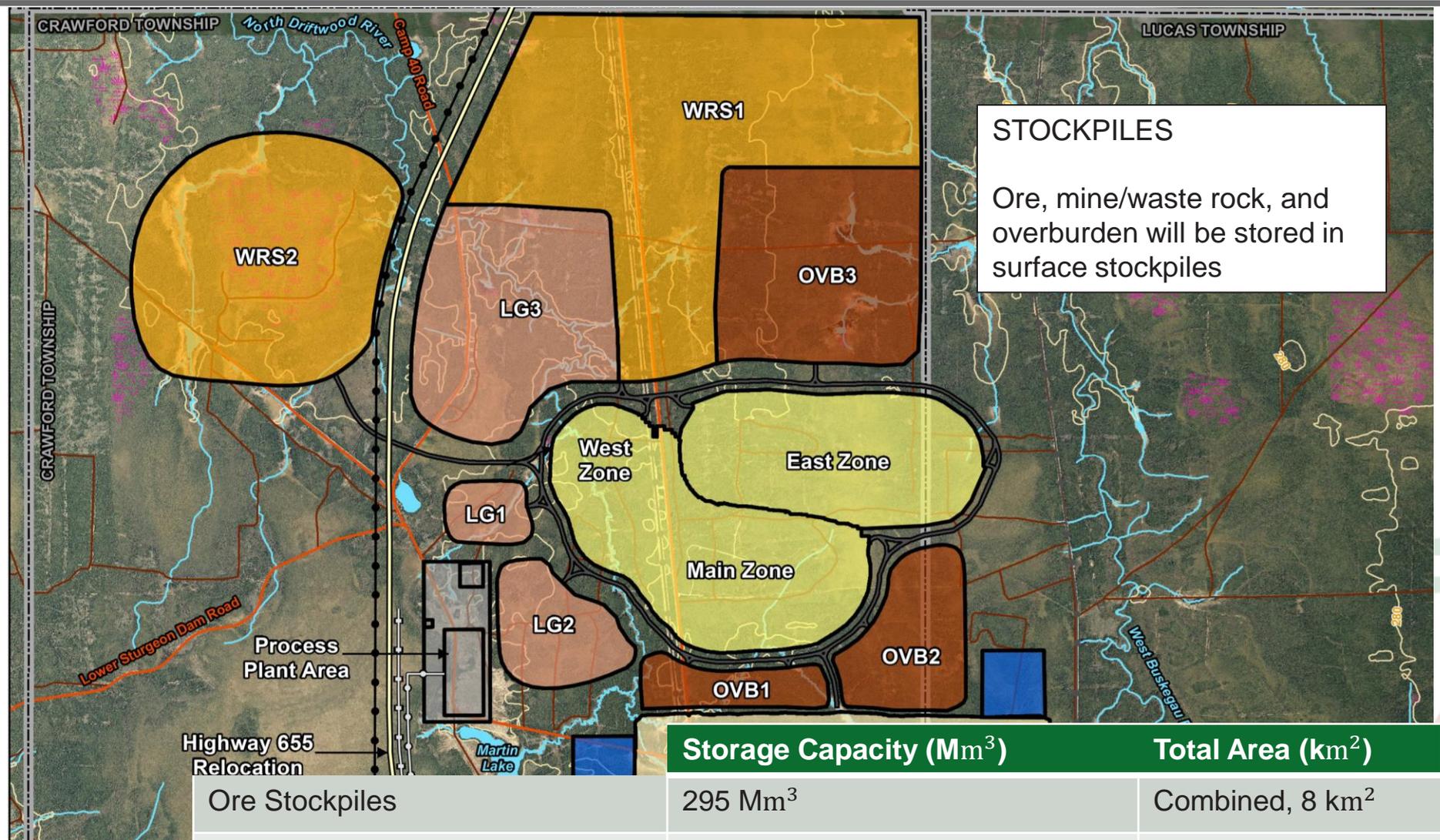
*tpd = tonnes per day*

	Dimensions (km)	Area (km <sup>2</sup> )	Depth (m)
Main Zone	2.9 x 2	4.2 km <sup>2</sup>	690
East Zones	3.3 x 1.3	3.5 km <sup>2</sup>	615
West Zone	1.5 x 1.5	1.3 km <sup>2</sup>	435

# Proposed Mine Facilities/Infrastructure



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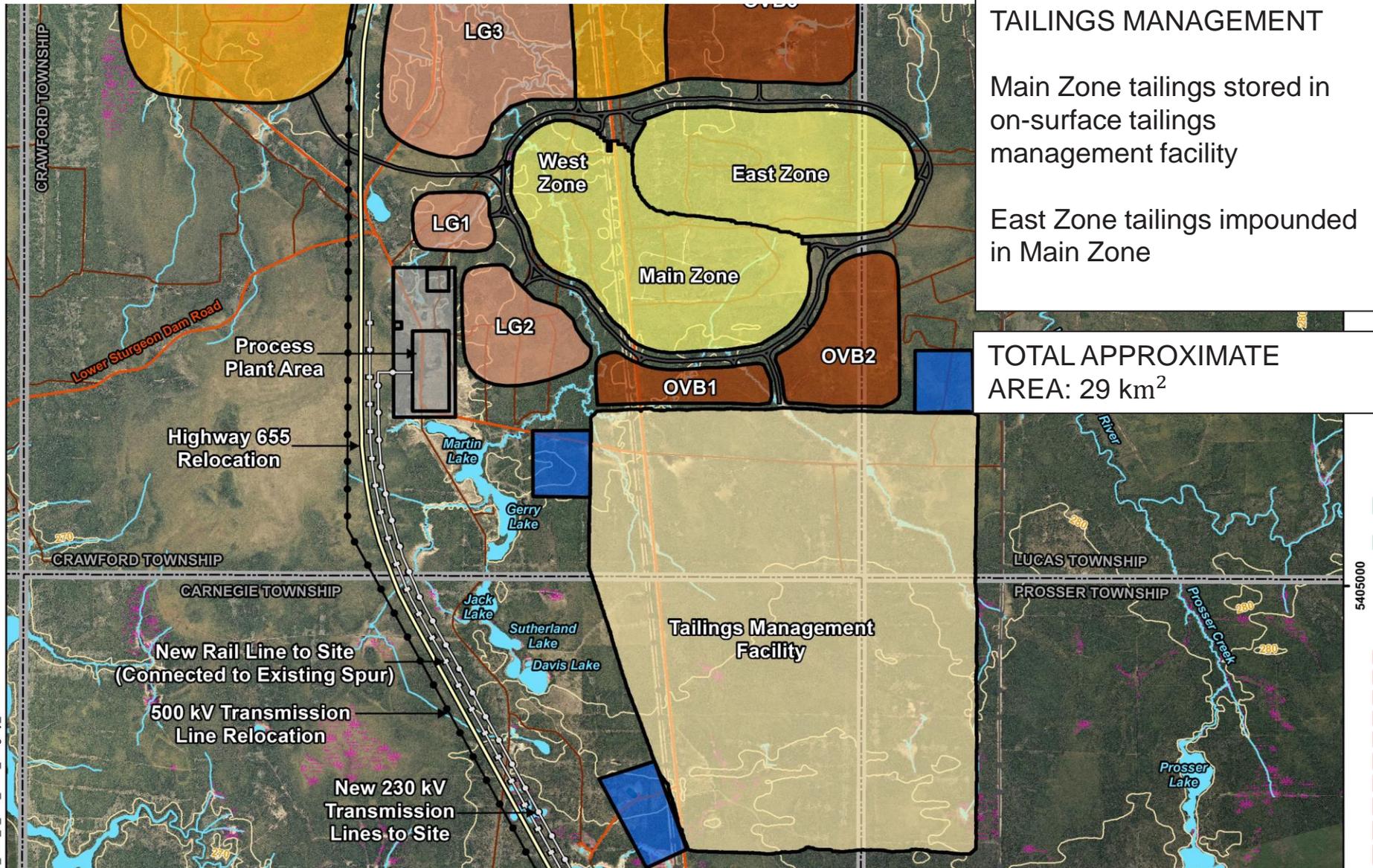
**STOCKPILES**  
Ore, mine/waste rock, and overburden will be stored in surface stockpiles

	Storage Capacity (Mm <sup>3</sup> )	Total Area (km <sup>2</sup> )
Ore Stockpiles	295 Mm <sup>3</sup>	Combined, 8 km <sup>2</sup>
Mine/Waste Rock Stockpiles	963 Mm <sup>3</sup> and 461 Mm <sup>3</sup>	Combined, 24 km <sup>2</sup>
Overburden/Topsoil Stockpiles	Combined, 318 Mm <sup>3</sup>	Combined, 11 km <sup>2</sup>

# Proposed Mine Facilities/Infrastructure



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**TAILINGS MANAGEMENT**

Main Zone tailings stored in on-surface tailings management facility

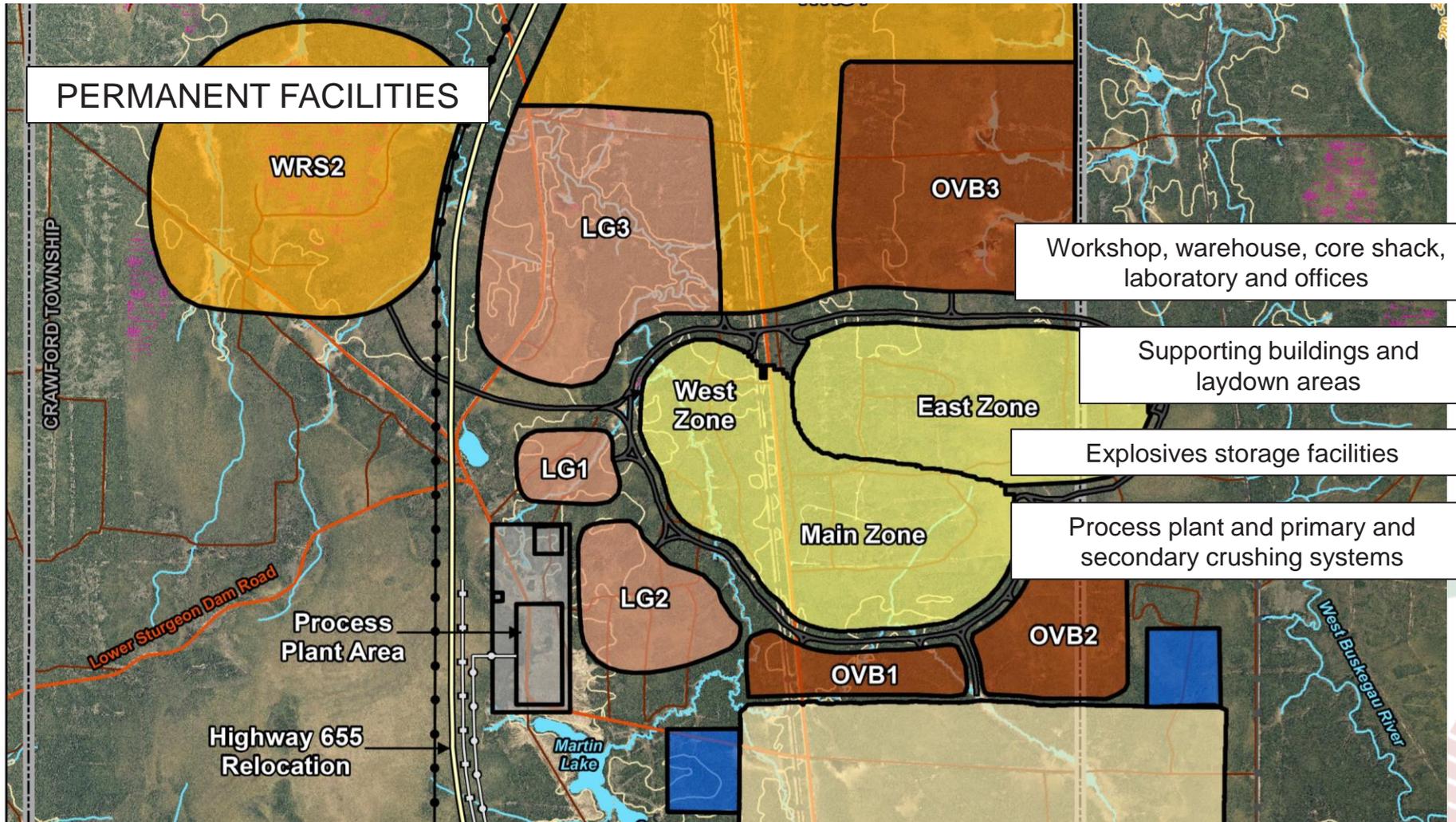
East Zone tailings impounded in Main Zone

**TOTAL APPROXIMATE AREA: 29 km<sup>2</sup>**

# Proposed Mine Facilities/Infrastructure



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Domestic sewage will be treated by an appropriately-sized technically acceptable method (sewage treatment plant).  
Domestic and special management / hazardous materials will be periodically shipped offsite to appropriate facilities

# Proposed Mine Facilities/Infrastructure



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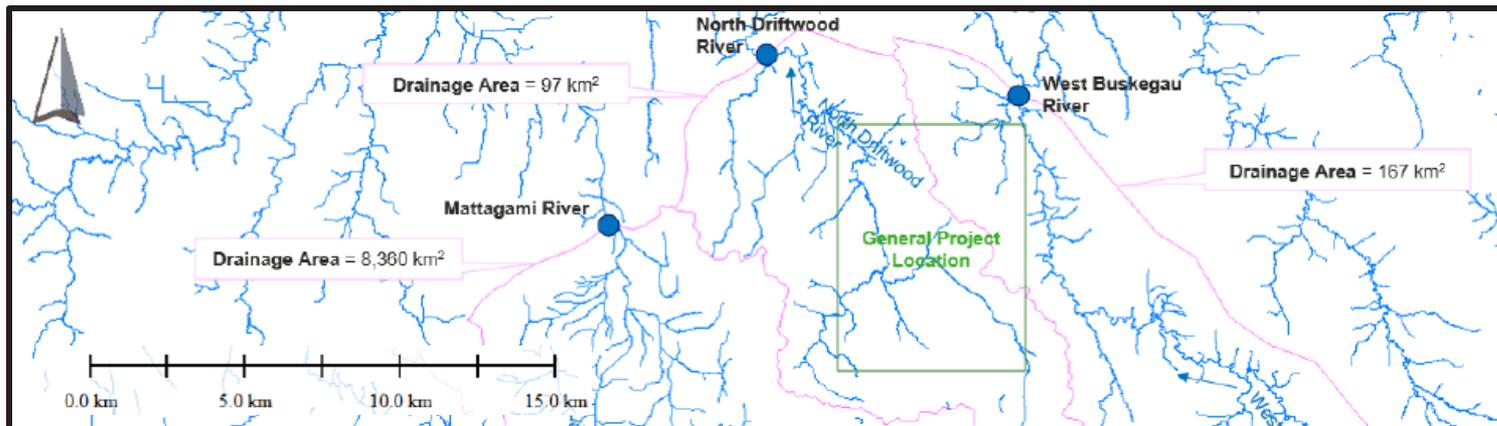
## WATER MANAGEMENT AND DRAINAGE

- Open pit will collect groundwater, runoff, and direct precipitation
  - Collected during dewatering, pump to sedimentation pond, used as make up water for process plant
- General surface runoff and precipitation collected in ditches/collection ponds and pumped to sedimentation pond

**Potential Effluent Discharge Locations: Mattagami River, North Driftwood River, West Buskegau River, or potential combination of locations**

*Regardless of location, site effluent will meet regulatory requirements for safe discharge to the environment*

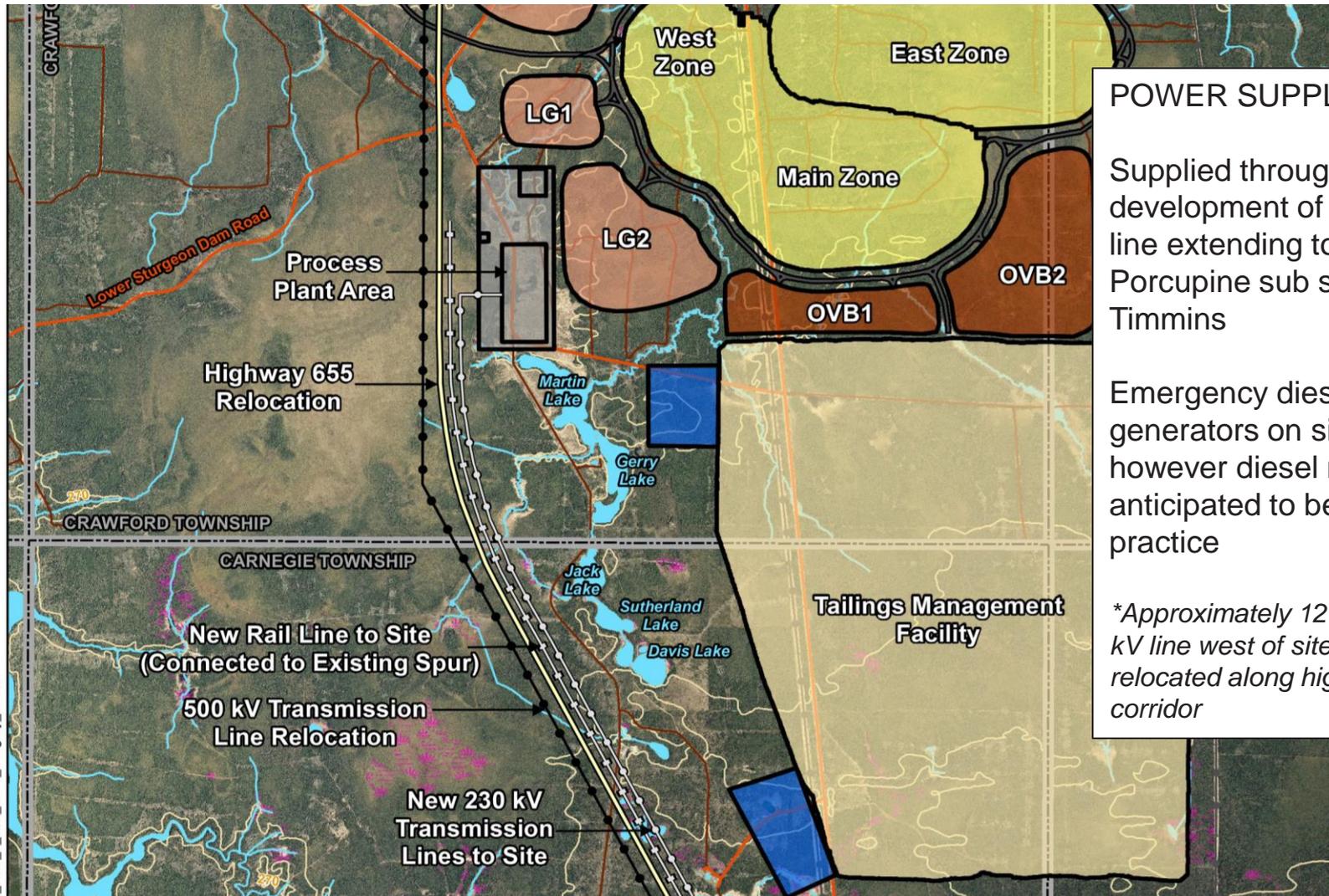
Receiving Source	Pros	Cons
Mattagami River	<ul style="list-style-type: none"> <li>- Capacity to accept added quantity</li> <li>- Year-round flow</li> <li>- Good mixing characteristics</li> </ul>	<ul style="list-style-type: none"> <li>- Distance from site</li> <li>- Currently, limited footprint of project within watershed</li> </ul>
West Buskegau River	<ul style="list-style-type: none"> <li>- Proximity to project</li> </ul>	<ul style="list-style-type: none"> <li>- Reduced capacity to accept added quantity</li> <li>- Inconsistent year-round flow</li> <li>- Currently, limited footprint of project within watershed</li> </ul>
North Driftwood River	<ul style="list-style-type: none"> <li>- Proximity to project</li> <li>- Water would “stay within the watershed”</li> </ul>	<ul style="list-style-type: none"> <li>- Reduced capacity to accept added quantity</li> <li>- Inconsistent year-round flow</li> </ul>



# Proposed Mine Facilities/Infrastructure



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## POWER SUPPLY

Supplied through development of 230 kV line extending to Porcupine sub station in Timmins

Emergency diesel fuel generators on site, however diesel not anticipated to be standard practice

*\*Approximately 12 km of 500 kV line west of site will be relocated along highway corridor*

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# Preliminary Decommissioning Approach



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Governed by Ontario *Mining Act* and associated Regulations and Codes. Closure Plan to be filed and financial assurance provided before construction commences

## Open Pit

Portion of tailings stored in Main Zone during East Zone operation

Natural and/or enhanced refilling of remainder of pit will form a lake

Ongoing monitoring of water quality and pit slope stability

Appropriate safety measures taken during refilling process

Potential reconnection to North Driftwood system for habitat restoration

## Stockpiles and Tailings Management Facility

Preliminary geochemical investigations indicate that mine rock, ore, and tailings are not potentially acid generation

Areas reclaimed and reshaped as needed for stability and reduced potential for erosion, then revegetated with regionally appropriate vegetation

## Water Management Facilities

Decommissioned after dewatering and water treatment/management is complete

## General Site Area

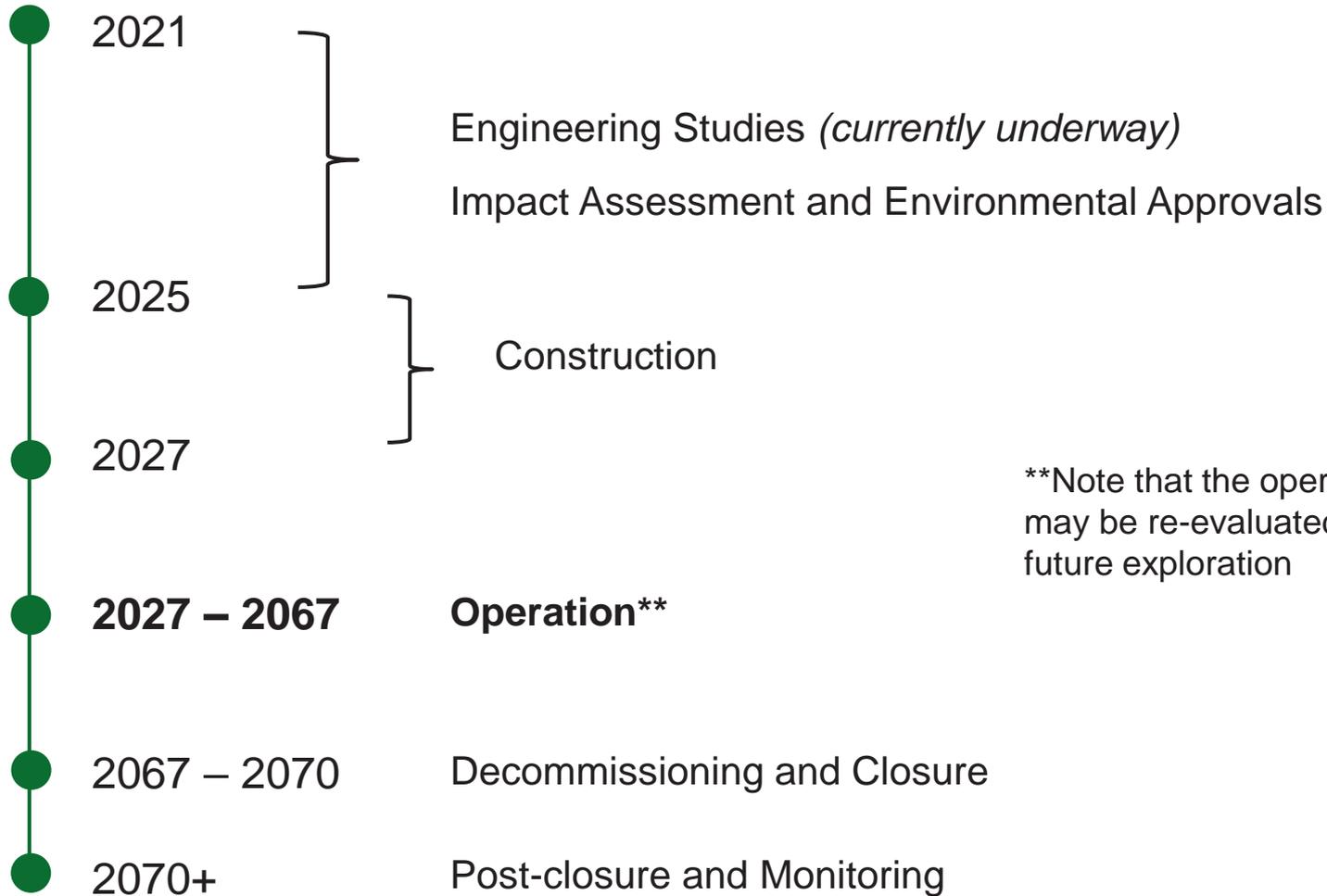
Infrastructure demolished, with waste materials sold for reuse or recycled, where reasonable.

Areas not required for long term monitoring will be revegetated

# Preliminary Schedule



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\*\*Note that the operational period may be re-evaluated subject to future exploration



# Preliminary List of Activities



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**Construction**  
3 years

**Operation**  
> 40 years

**Closure**  
3 years

- **Complete engineering studies**
- **Corporate decision to proceed**
- **Develop/Implement/Continue environmental protection, monitoring, and reporting plans**
- Ongoing engagement and consultation
- Environment-related **permitting**
- **Hiring and procurement**
- **Mitigation of effects, if/as needed**
- **Construction of rail spur line**
- **Site preparation**
  - Upgrade access roads
  - Land clearing
  - Implementation of erosion/sediment control measures
  - Excavation/grading
  - Bring construction materials
  - Diversion of local watercourses/stabilization
- Construct new site facilities
- Develop aquatic habitat offset and compensation features, as needed
- **Open pit development**
- Water management and treatment works
- Mine waste management facilities
- **Relocate Highway 655**
- **Construct 230 kV transmission line**
- **Relocate 500 kV transmission line**

# Preliminary List of Activities



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Construction  
3 years

Operation  
> 40 years

Closure  
3 years

- **Develop/Implement/Continue environmental protection, monitoring, and reporting plans**
- Ongoing engagement and consultation
- Overburden/mine rock
  - Stockpiled, or
  - Used in progressive reclamation
- Ore extracted from open pit
  - Temporarily stockpiled, or
  - Transported to primary crusher for sizing
- Ore processing, produce concentrate for shipping
- Tailings from Main Zone stored in surface facility
- Once Main Zone emptied and mining in East Zone, tailings stored in Main Zone
- Progressive reclamation where and when applicable
  - Progressive reclamation of open pit slopes and studies to ensure success of pit lake
- **Ongoing management and treatment of water discharge and waste**
- Follow up environmental studies
- Updates/amendments of Closure Plan as needed

# Preliminary List of Activities



**CANADA NICKEL**  
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**Construction**  
3 years

**Operation**  
> 40 years

**Closure**  
3 years

- **Develop/Implement environmental protection and monitoring plans**
- Ongoing engagement and consultation
- **Remove from site, once no longer needed,**
  - Mine equipment
  - Reagents and chemicals for proper disposal
  - Site power infrastructure
- **Allow open pit to flood**
- For inert waste, potentially either establish on-site demolition landfill or contracts for waste removal
- Demolish facilities and remove site power infrastructure, once no longer necessary
- Investigate and remediate residual ground spillage, if any
- Break up concrete, scarify compacted ground etc. to establish free drainage
- Regrade as needed
- Place growth material over affected areas as needed
- Revoke approvals to operate when no longer required
- If appropriate, connect flooded open pit to local drainage system
- Return of reclamation financial assurance



## **Air Quality**

*Results to Date:* Monitoring ongoing

### *Notes:*

Baseline results expected to be impacted by operations at Kidd Mine, traffic along Highway 655, and natural sources (volatile organic emissions from vegetation, pollen, or natural fires)

## **Noise, Light, Vibration**

*Testing Ongoing or Planned:* Scheduled for 2022 to establish baseline

## **Cultural Heritage and Archeology**

*Results to Date:* Preliminary desktop analysis completed

### *Testing Ongoing or Planned:*

- Field assessment in areas of increased or predicted likelihood (ex. bodies of water)
- Canada Nickel wishes to receive public and Indigenous feedback on areas of relevance

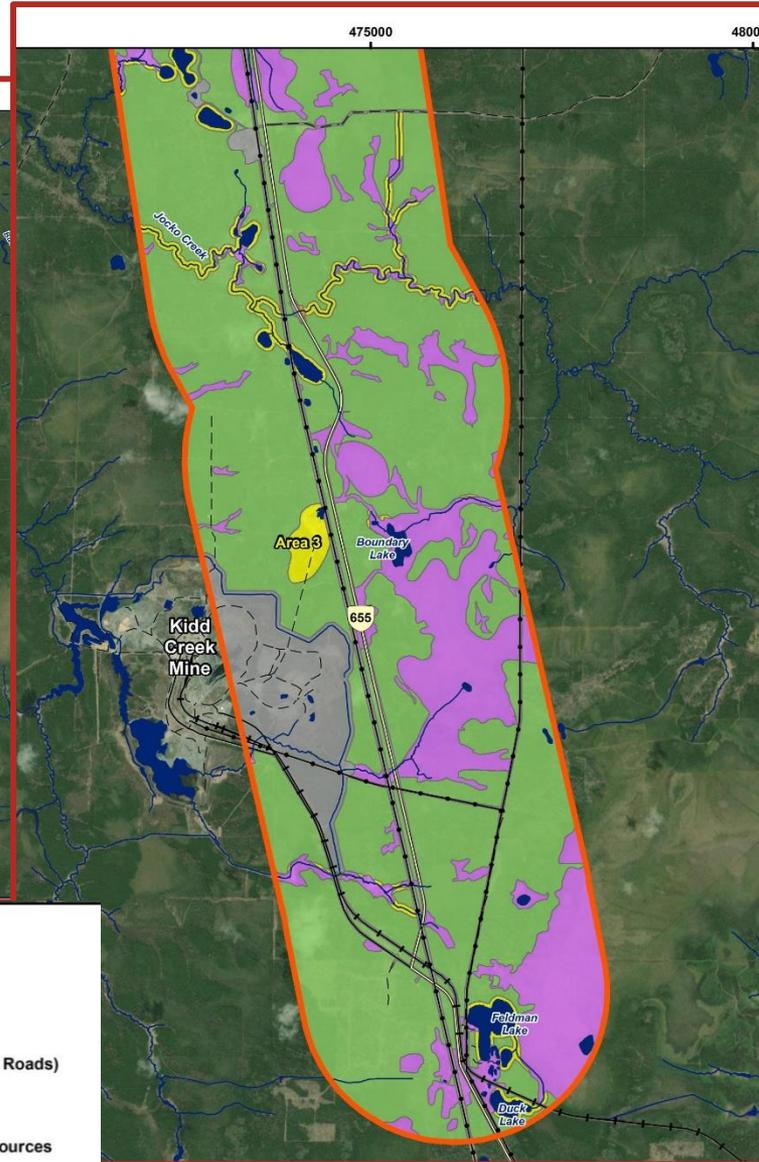
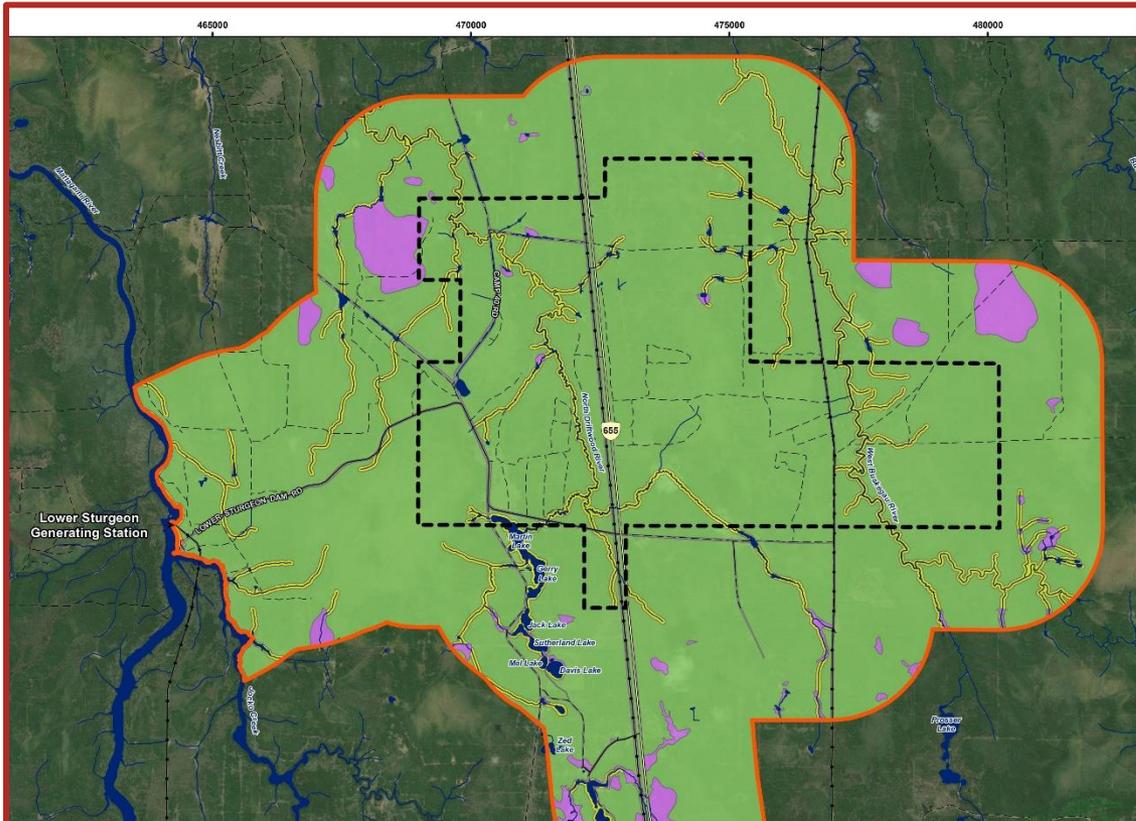


# Baseline Studies



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## Archeology Further Survey Locations



**LEGEND**

Archeology Study Area	Railway	<b>Stage 1 Results</b>
Property Boundary		Stage 2 Test Pit Survey Required - Unploughable Land (Wooded)
Utility Line		No Further Assessment Required - Previously Assessed
Primary Road / Highway		No Further Assessment Required - Disturbed (Forestry Activity and Roads)
Secondary / Local Road		No Further Assessment Required - Permanently Low and Wet
Resource / Recreation Road		No Further Assessment Required - Over 50 m from Modern Water Sources



## Geochemistry

*Results to Date:* Indicate that waste rock is non-acid generating

*Testing Ongoing or Planned:*

- Additional testing of waste rock, testing of tailings, ore, and overburden

## Hydrogeology

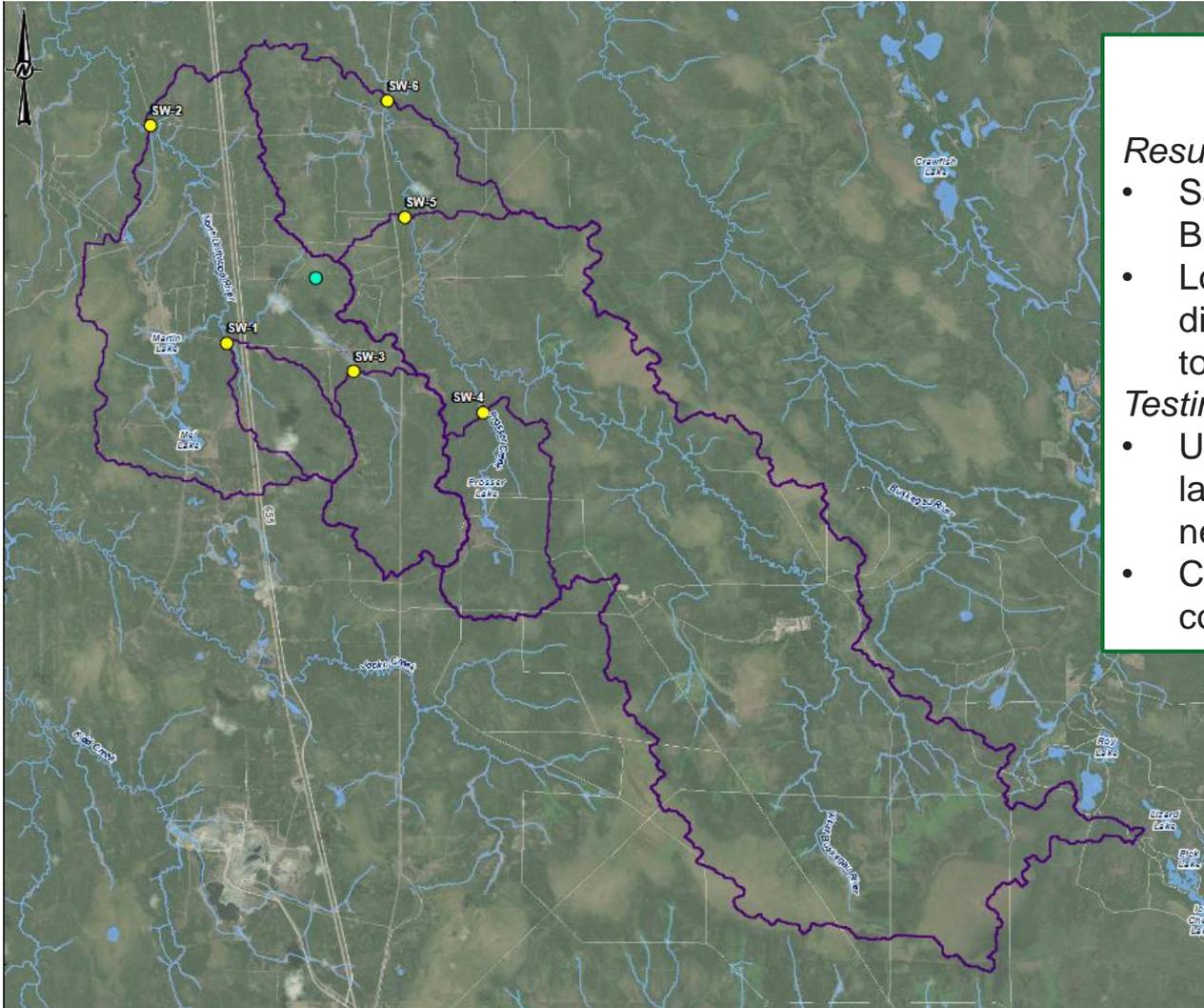
*Results to Date:*

- Average overburden thickness around 40 – 50 metres
- Early predictions that shallow groundwater will flow from site to both North Driftwood and West Buskekau

*Testing Completed, Ongoing, or Planned:*

- Drilling program recently completed
- Monitoring wells installed to obtain groundwater elevations, conduct hydraulic testing, and sample groundwater quality
- Packer testing program was completed to assess bedrock hydraulic conductivity
- All information currently under analysis





## Hydrology

### Results to Date:

- Sampling in North Driftwood, West Buskegau, and Mattagami
- Low total suspended and total dissolved solids. Concentrations of total and dissolved metals very low

### Testing Ongoing or Planned:

- Update program per changes in site layout and feedback, where necessary
- Campaigns in different hydrologic conditions (drought, rain, etc.)

### LEGEND

- ROAD
- WATERCOURSE
- LOCAL CATCHMENT AREA
- WATERBODY
- BAROLOGGER
- HYDROMETRIC MONITORING STATION



## Social, Economic, and Health

### *Results to Date:*

- Preliminary desktop analysis of community social, economic, and health contexts for regional municipalities has been completed

### *Testing Ongoing or Planned:*

- A full assessment of baseline conditions to allow for a comprehensive impact assessment
- Canada Nickel wishes to receive community feedback to contribute to the comprehensiveness and accuracy of these assessments (baseline, impact, and mitigation measures)

\*Note that Indigenous communities will have a distinct assessment





## Flora and Vegetation

### Results to Date:

- Extensive vegetation surveys completed
- Black Ash, common but in decline, noted in two locations

## Wildlife

### Results to Date:

- Observed moose, marten, wolf, hare, otter, lynx
- No Woodland Caribou observed
- Bat detection and bird surveys completed

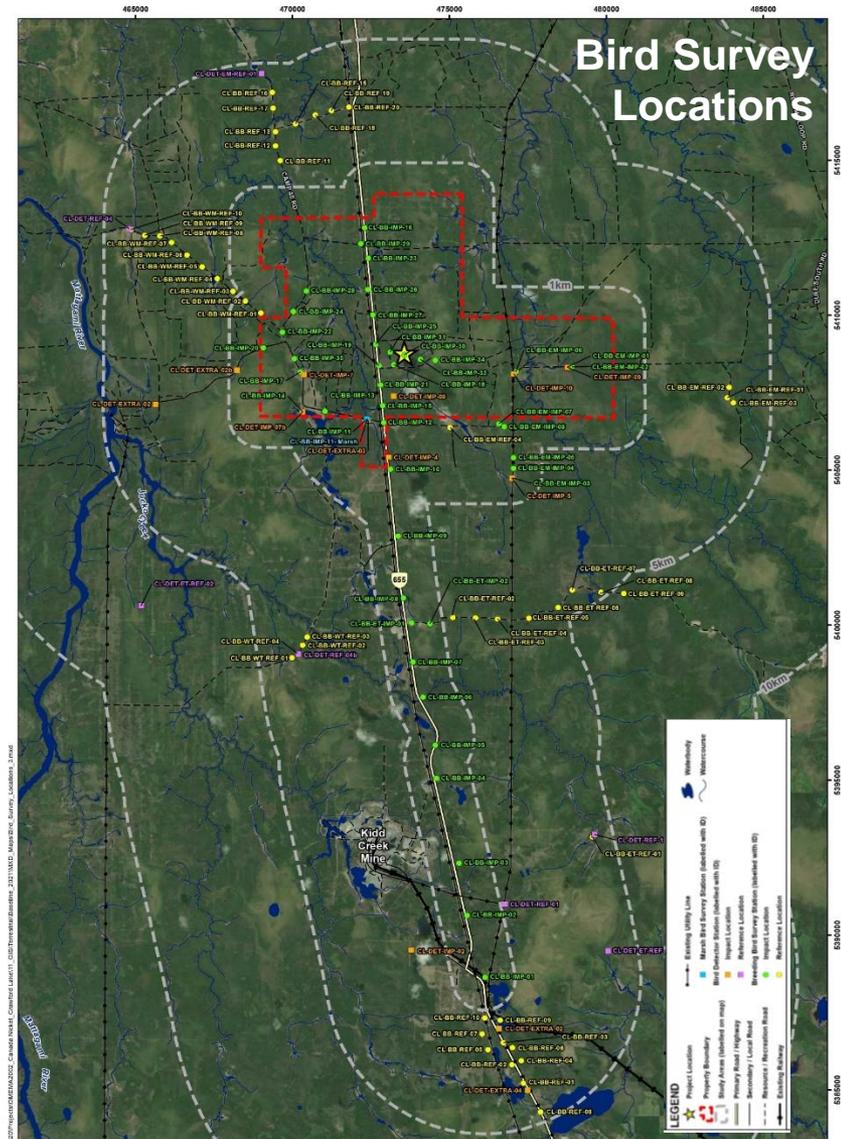
*Testing Ongoing or Planned: Surveys planned in 2022*

### Species of Conservation Concern

- **Black Ash**
- **Bald Eagle**
- Bank Swallow
- **Canada Warbler**
- Common Nighthawk
- Olive-sided Flycatcher
- Peregrine Falcon
- Yellow Rail

- Blanding's Turtle
- Little Brown Myotis
- Northern Myotis
- Tricolored Bat
- Monarch
- Yellow-banded Bumble Bee

\*Those in **bold** have been observed in the field



## Aquatic

### Results to Date:

- Completed in West Buskegau, North Driftwood, Mattagami Rivers, and associated tributaries
- 17 fish species documented – mostly small-bodied forage fish as well as Northern Pike, White Sucker, Burbot
- Wetland vegetation and amphibian surveys also completed

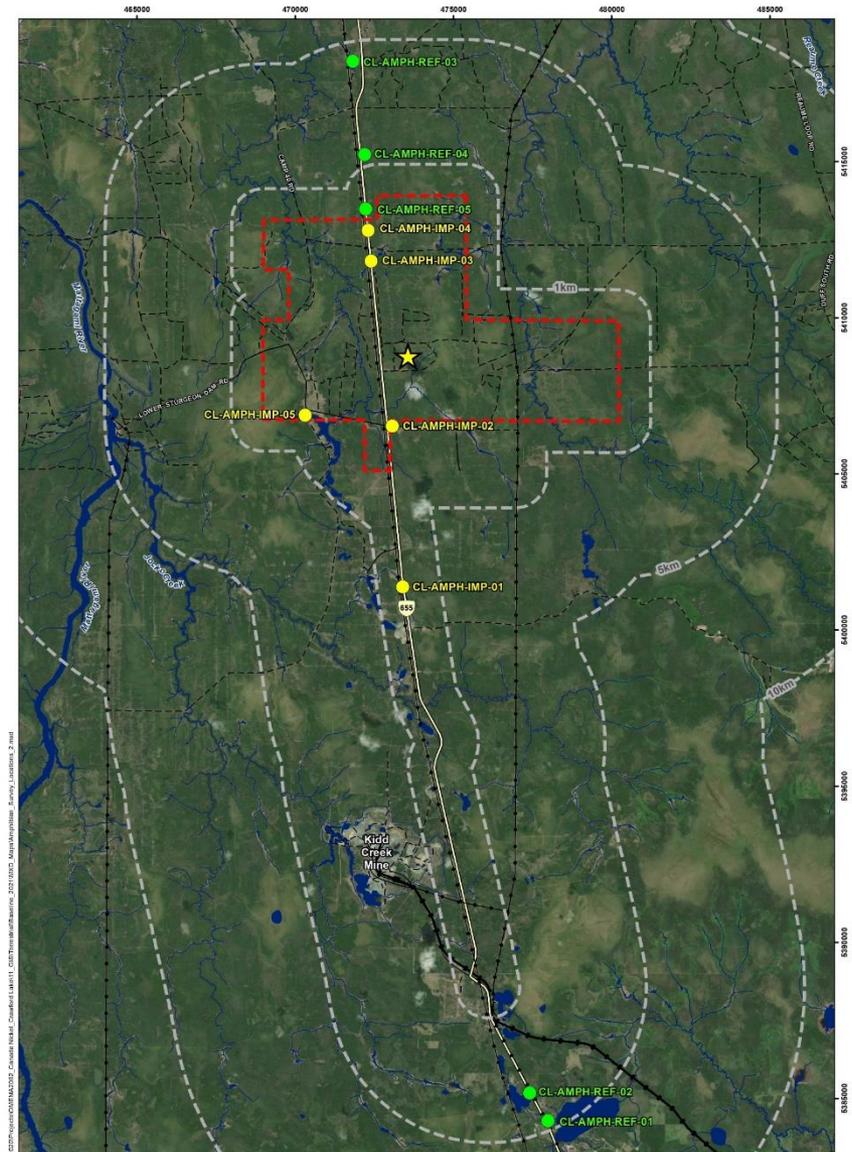
### Testing Ongoing or Planned:

- Monitoring ongoing in 2022, potential for additional stations as necessary

## Amphibian Survey Locations

### LEGEND

- |  |                            |             |
|--|----------------------------|-------------|
| Project Location                       | Primary Road / Highway     | Watercourse |
| Property Boundary                      | Secondary / Local Road     |             |
| Study Areas (labelled on map)          | Resource / Recreation Road |             |
| <b>Amphibian Call Survey Locations</b> | Existing Railway           |             |
| Impact Location                        | Existing Utility Line      |             |
| Reference Location                     | Waterbody                  |             |



# Potential Approvals - Federal



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## Preliminary list of Potential Federal Approvals

Department	Regulated Project Activities	Possible Requirements
<b>Environment and Climate Change Canada</b>	- Effluent Regulations: Storage of potentially deleterious mineral waste covering minor tributaries frequented by fish	- Alternative assessment for mineral waste disposal - Fish habitat compensation plan
<b>Fisheries and Oceans Canada</b>	- Direct impacts to fish habitat including overprinting of waterbodies and construction of structures in waterbodies / watercourses - Indirect impacts to fish habitat including flow reductions	- Approved fisheries offset plan
<b>Natural Resources Canada</b>	- Explosives magazine, manufacturing facility and/or transportation	- Permit required
<b>NAV Canada</b>	- Land Use Clearance: Construction of tall structures, use of cranes, transmission line towers	
<b>Transport Canada</b>	- Aeronautical obstruction clearance	- Marking and lighting for structures that could interfere with aeronautical navigation

# Potential Approvals - Provincial



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## Preliminary list of Potential Provincial Approvals

Ministry	Regulated Project Activities	Possible Requirements
<b>Ministry of Northern Development, Mines, Natural Resources and Forestry</b>	Progressive reclamation and final closure	Closure Plan
	Environmental Assessment Act - Resource Stewardship and Facility Development Projects [new]	Environmental Assessment based on the preliminary project design, expected requirement subject to regulatory confirmation.
	Construction of facilities on Crown land including below the high water mark of waterbodies / watercourses	Work Permits
	Temporary land tenure for facilities off the mining lease if required	Land Use Permit
	Cutting of merchantable timber for site development	Forest Resource Licence (Cutting Permit)
	Potential fish transfer during construction and investigations during construction, operation and closure	Permit to Collect Fish for Scientific Purpose
	If proposed field investigations find an appropriate resource, Canada Nickel may pursue	Licenses and/or Aggregate permits
<b>Ministry of the Environment, Conservation and Parks</b>	Dewatering activities and water supply	Permit to Take Water
	Mine water, process water and contact water, and tailings management	Environmental Compliance Approval
	Atmospheric emissions from project	Environmental Compliance Approval
	Minor Transmission Facilities, based on preliminary project design, expected requirement based on anticipated length of the line (>2 km length)	Class Environmental Assessment
	Potential impact to habitat for species at risk	Over Benefit Agreement



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## *Potential Project Impacts*

# Potential Impacts of the Project



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Note that this is not a full impact assessment, merely a preliminary evaluation. This *Initial Project Description* is the initiating phase for the full Impact Assessment. Your feedback throughout the Impact Assessment Process will be incorporated when determining potential project effects and mitigation measures.

	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Air emissions	<ul style="list-style-type: none"> <li>• Generation of dust or and other airborne particulates</li> </ul>	<ul style="list-style-type: none"> <li>• On-site emissions and air quality at property boundary meeting regulatory requirements</li> <li>• Usage of water sprays to control dust</li> <li>• Assessment on presence of chrysotile in orebody and implementation of necessary safety considerations</li> </ul>
Noise emissions	<ul style="list-style-type: none"> <li>• Disturbance of other area users, although the site is remote from residences</li> </ul>	<ul style="list-style-type: none"> <li>• On-site emissions and surrounding noise sensitive locations meeting regulatory criteria</li> <li>• Measures to reduce sound emission effects (Maintaining tree screens around work areas, reducing height of stockpiles, maintaining equipment in good order and utilizing efficient mufflers to reduce sound emissions at source)</li> </ul>
Greenhouse Gas emissions	<ul style="list-style-type: none"> <li>• Minor potential to contribute to global carbon dioxide (CO<sub>2</sub>) emissions and the associated phenomenon of climate change</li> </ul>	<ul style="list-style-type: none"> <li>• Compact overall site reducing haulage / transportation distances resulting in fuel economy and reduction of greenhouse gas emissions</li> <li>• Usage of electric trolley-assist trucks and electric shovels</li> <li>• Assessing options to optimize carbon capture</li> <li>• Maintaining equipment and vehicles in good working order to improve on fuel combustion efficiency</li> </ul>
Light	<ul style="list-style-type: none"> <li>• Increase in the ambient light on site and a localized glow off-site</li> </ul>	<ul style="list-style-type: none"> <li>• Care to ensure appropriate aim for lights to minimize off-site disturbance</li> </ul>
Indigenous Rights	<ul style="list-style-type: none"> <li>• Impacts on how and where Indigenous Peoples' Rights are exercised</li> </ul>	<ul style="list-style-type: none"> <li>• Development of management practices / plans to be implemented</li> </ul>

# Potential Impact of the Project



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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
<p><b>Local waterbodies / watercourses</b></p>	<ul style="list-style-type: none"> <li>• Overprinting of small creeks and beaver ponds which may reduce downstream flow in the immediate vicinity</li> <li>• Vibration (such as from explosives use) may disturb aquatics species</li> <li>• Intake / discharge location is proposed (to be determined) with potential habitat disturbance and may affect water quality and flows</li> <li>• One or more crossings may be needed which has the potential for aquatic habitat disturbance</li> <li>• Impacts on how and where Indigenous Peoples' Rights are exercised</li> </ul>	<ul style="list-style-type: none"> <li>• Effluent discharge to the environment will meet all federal and provincial regulatory requirements</li> <li>• Efforts made to develop to limit the overprinting of watercourses, where feasible (aim to maximize tailings impounded in pits to reduce the footprint of the tailings impoundment at surface)</li> <li>• Effluent discharge location analyzed and consulted upon to ensure the acceptability and limit impacts</li> <li>• Water from waterbodies located upstream from the Project will be diverted to a downstream water body, if feasible</li> <li>• In water structures will be designed to avoid interference with navigation and effects to fish as reasonable</li> <li>• Compensatory aquatic habitat will be provided to mitigate effects on aquatic resources including habitat loss (to be consulted upon and approved through a rigorous federal process)</li> </ul>

# Potential Impacts of the Project



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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Groundwater System	<ul style="list-style-type: none"> <li>Open pit dewatering will affect the local groundwater levels and may affect surface water flows</li> <li>Groundwater quality could be affected by the seepage from the impoundments at surface and in the pits</li> </ul>	<ul style="list-style-type: none"> <li>Modelling investigations will fully assess potential effects, to support mitigation if needed</li> <li>Groundwater levels will return after the open pit re-fills with water at closure</li> <li>Geochemistry program on mine rock and tailings will help assess potential for metal leaching over time</li> </ul>
Natural Vegetation and Wildlife	<ul style="list-style-type: none"> <li>Displacement of existing terrestrial habitat, like Species at Risk if present</li> <li>Wildlife may be affected by site activities and disturbances, including noise</li> <li>Impacts on how and where Indigenous Peoples' Rights are exercised</li> </ul>	<ul style="list-style-type: none"> <li>Efforts to develop a compact site to limit disturbance to new areas as reasonable</li> <li>Avoiding tree clearing during bird nesting season</li> <li>Reclaiming the site to support future productive habitat</li> <li>If presence of Species at Risk or associated habitat, implementation of appropriate compensation measures</li> </ul>

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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Hunting, Fishing and Tourism	<ul style="list-style-type: none"> <li>Limited effect as the mine is to be located on an active exploration program site (access is controlled / restricted for safety of workers).</li> <li>More extensive disruption to the local experience in the immediate vicinity of the site from the larger scale mining operation</li> </ul>	<ul style="list-style-type: none"> <li>Intention to continue work with stakeholders to mitigate potential localized effects during operations</li> <li>Hunting will continue to be restricted on the project site in order to ensure the safety of workers and others</li> </ul>
Commercial Operations	<ul style="list-style-type: none"> <li>Could limit access to people and resources for other operations and industries</li> <li>Benefit: could potentially draw local people back to the area for jobs</li> </ul>	<ul style="list-style-type: none"> <li>No mitigation measures other than to optimize economic benefits to the local and regional economies, including to Indigenous Peoples, as reasonable</li> </ul>

# Potential Impacts of the Project



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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
<b>Traditional use of lands and resources</b>	<p>Effects on:</p> <ul style="list-style-type: none"><li>• Spiritual relationships and connection with the environment</li><li>• Locations of sentimental, traditional and heritage value</li><li>• Traditional use of lands and resources as sites of value and interest to Indigenous Peoples</li><li>• Cultural practices</li><li>• Changes to land and resources resulting in effect on exercising rights</li></ul>	<ul style="list-style-type: none"><li>• Ongoing engagement with Indigenous Peoples to identify and mitigate potential effects</li></ul>

# Potential Impacts of the Project



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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
<b>Indigenous / Public Health and Safety</b>	<ul style="list-style-type: none"> <li>• Release of air contaminants associated with processing operations, fuel combustion and fugitive dust; and release of contaminants in mill and mine water effluents, and from stockpile drainage (all regulatory requirements will be met)</li> <li>• Effects on Indigenous women's safety</li> <li>• Effects on Indigenous women, youth, elders</li> <li>• Changes to community safety, well-being, and health</li> </ul>	<ul style="list-style-type: none"> <li>• Canada Nickel will work with communities and local Indigenous Peoples with an aim of helping ensure the project will provide an overall positive benefit</li> <li>• Traffic management and awareness will reduce potential for accidents on public roads; design changes could also be incorporated in the highway re-routing, such as turn lanes(s)</li> <li>• Regulatory requirements will be met for all potential emissions/releases that could impact air or water quality</li> <li>• Canada Nickel will work collaboratively with community and Indigenous representatives to address social and health concerns that could arise as a byproduct of the project's development and operation</li> </ul>

# Potential Impacts of the Project



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	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Socio-economics	<ul style="list-style-type: none"> <li>• Benefits including employment and procurement opportunities</li> <li>• Benefits for education and training opportunities</li> <li>• Effects on healthcare services and providers</li> <li>• Effects on traffic due to mine personnel commuting to site</li> <li>• Pressure on local housing and effects to vulnerable populations</li> </ul>	<ul style="list-style-type: none"> <li>• Working with local Indigenous Peoples and Non-Indigenous communities with an aim of helping ensure the project will provide a positive benefit</li> <li>• Implementing a community contribution program designed in collaboration with relevant local stakeholders to specifically address local needs and challenges.</li> </ul>
Physical and cultural heritage	<ul style="list-style-type: none"> <li>• No anticipated effect to known archaeology site</li> <li>• Effects to cultural heritage to be determined</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing archaeological studies have not identified cultural heritage features or artefacts in proposed development areas</li> <li>• Identifying any as yet undetected features or artefacts during construction</li> </ul>
Identified structures or sites *	<ul style="list-style-type: none"> <li>• No effect expected, pending determination of diversion routing / water levels</li> </ul>	<ul style="list-style-type: none"> <li>• None expected to be required</li> </ul>



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**QUESTIONS OR COMMENTS ?**

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# MEETING TERMS

## Reminder when asking questions



Promote good faith and respectful dialogue



Be open to new or “out of the box” ideas



Be mindful of everyone’s time

## Next Steps



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- Canada Nickel to integrate Indigenous, community, stakeholder, and Agency feedback into the draft Initial Project Description
- Canada Nickel to officially submit Initial Project Description for posting on Agency website
- Agency to conduct own consultation process on the IPD
- Agency to complete Summary of Issues, Canada Nickel to begin work on Detailed Project Description (DPD) and eventual response to Summary of Issues
- Groups to be consulted on the Summary of Issues, Response to Summary of Issues, and DPD



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# THANK YOU FOR YOUR PARTICIPATION

FOR COMMUNICATIONS AFTER THE MEETING, PLEASE  
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