



Baptiste Nickel Project Preliminary Feasibility Study Summary of Results

September 2023

fpxnickel.com

CAUTIONARY NOTE

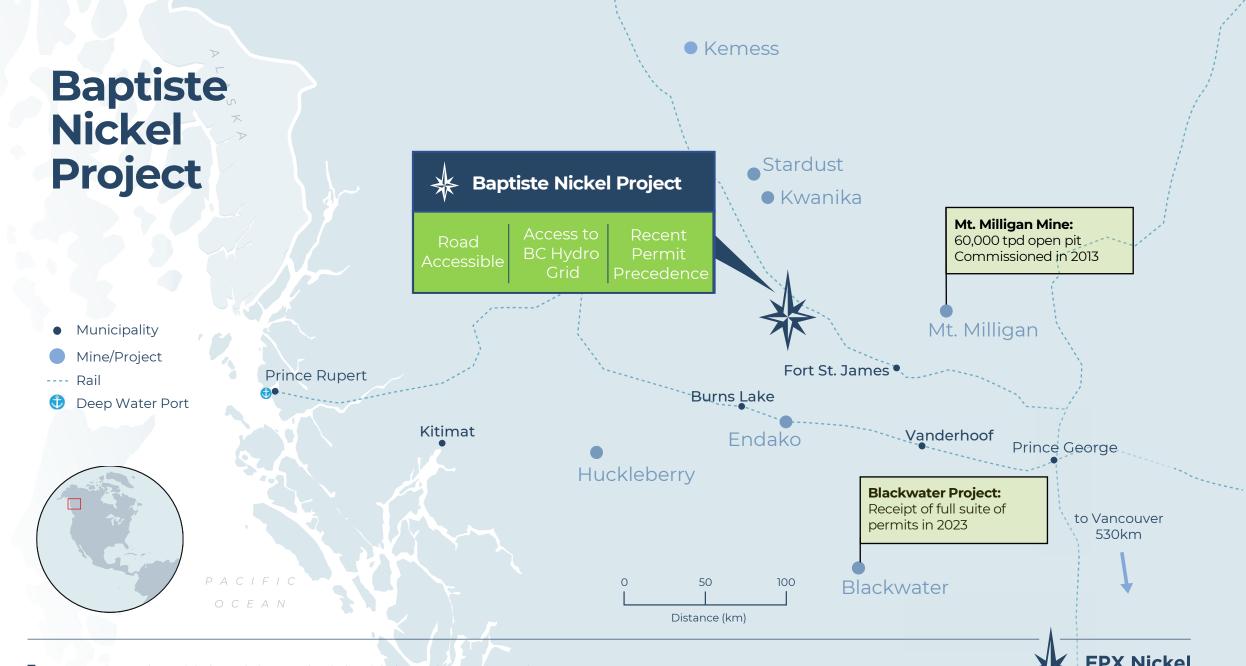
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TECHNICAL INFORMATION

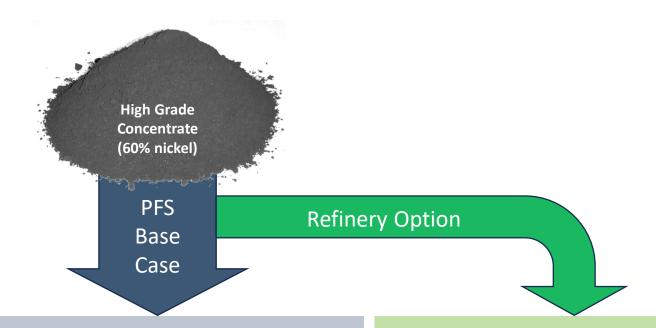
All technical information in this presentation was prepared under the supervision of FPX Nickel's SVP, Projects & Operations, Andrew Osterloh, P.Eng., a qualified person consistent with Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43 101")





Strategic Flexibility

Premium Nickel Product Suitable for Stainless Steel and EV Battery Material Supply Chains



PFS Base Case100% to Stainless Steel Market

- Direct sale to stainless steel producers
- Comparable to FeNi products sold by Anglo, etc.
- Bypass Ni smelters → premium pricing



Refinery Option40,000 tpy to EV Supply Chain

- Optimized flowsheet based on testwork
- Demonstrated route to battery-grade NiSO₄
- Balance of nickel to stainless steel producers



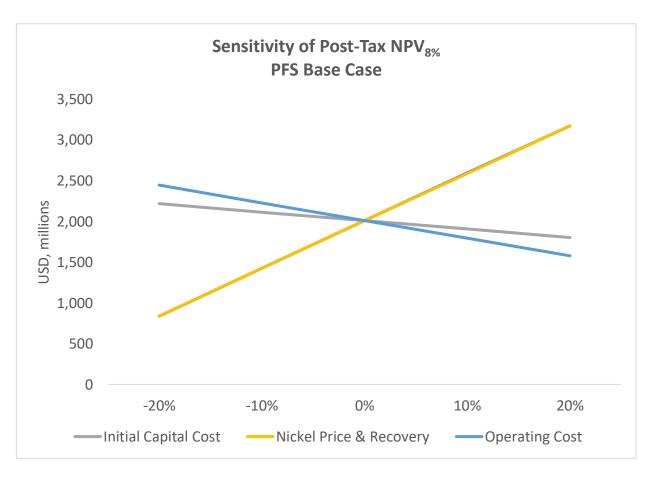


PFS Base Case Economics

Key Assumptions	
 Nickel Price 	8.75 US\$/lb
 FeNi Payability 	95%
 MHP Payability 	87%
 Discount Rate 	8%
 CAD to USD rate 	0.76

Opex & Post-Tax Metrics	Value
C1 Operating Cost (US\$/Ib Ni)	3.70
$NPV_{8\%}$ (US\$, millions)	2,010
IRR	18.6%
Payback (years)	3.7
Mine Life to Payback (ratio)	7.8
NPV _{8%} to Initial Capex (ratio)	0.92

Note: Above C1 Operating Costs exclusive of any byproduct credits





Refinery Option Economics

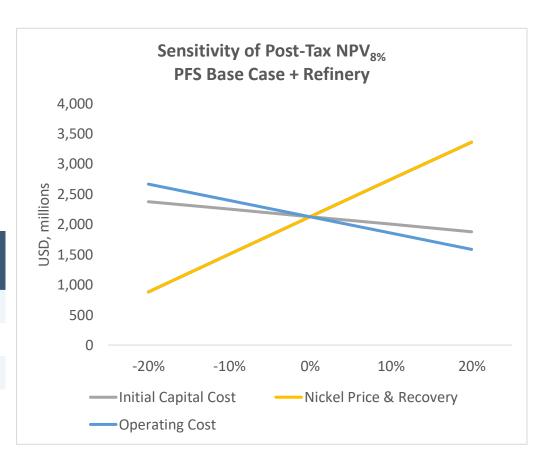
Key Assumptions

•	Nickel Price	8.75 US\$/lb
•	Cobalt Price	15.00 US\$/lb
•	Copper Price	3.50 US\$/lb
•	NiSO4 Premium	1.00 US\$/lb
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Discount Rate 8%CAD to USD rate 0.76

Opex & Post-Tax Metrics	Base Case + Refinery	Refinery Only
Cl Operating Cost (US\$/Ib Ni)	3.89	0.79
$NPV_{8\%}$ (US\$, millions)	2,127	63
IRR	17.7%	9.9%
Payback (years)	3.9	7.5

Note: Above C1 Operating Costs inclusive of Co & Cu byproducts from refinery





PFS Fundamentals

 29-year mine life incorporating a phased development approach:

Phase 1 Y1-9 108,000 tpdPhase 2 Y10-29 162,000 tpd

- The PFS incorporates results of FPX's extensive de-risking process, including:
 - ➤ In-fill drilling & more representative modelling approach yielded a 7% increase in mill feed grade
 - > Extensive metallurgical program which yielded a 4% increase in recovery
 - Engineering trade-off studies to define best value configurations
 - > 2 seasons of geotechnical drilling
 - > 18 months of environmental & cultural baseline studies
 - > Initial community engagement workshops

Baptiste Nickel Project - Reserves

Category	Tonnes (Mt)	DTR Ni (%)	Total Ni (%)	Contained Metal (kt DTR Ni)	Contained Metal (kt Total Ni)
Proven	-	-	-	-	-
Probable	1,488	0.13	0.21	1,933	3,125
Proven + Probable	1,488	0.13	0.21	1,933	3,125

Notes:

- 1. Mineral Reserves are reported effective September 6, 2023.
- The Qualified Person for the estimate is Mr. Cristian Hernan Garcia Jimenez, P.Eng, an independent consultant.
- 3. Mineral Reserves were developed in accordance with CIM Definition Standards (2014).
- Mineral Reserves are reported using a fixed 0.06% DTR Ni cut-off grade, which represent approximately US\$9/t NSR value, which is above the economic cut-off grade of US\$5.5/t.
- The Mineral Reserves are supported by a mine plan, based on a pit design, guided by a Lerchs Grossmann (LG) pit shell. Inputs include \$8.75/lb Ni, \$1.98/t mining opex, \$3.72/t process opex, \$1.10 /t G&A opex, pit slopes varying from 42-44 degrees, and 85% process recovery
- 6. Life-of-mine strip ratio is 0.56 (W:O), excluding capitalized pre-stripping.
- Ore and contained nickel tonnes are reported in metric units and grades are reported as percentages.
- 8. All figures are rounded to reflect the relative accuracy of the estimate. Totals may not sum due to rounding as required by reporting guidelines.



Mining

Conventional Open Pit

- Mining commences in SE of deposit:
 - > Targets Phase 1 head grade
 - Defers stripping to Phase 2
- Strip Ratio, excluding capitalized pre-stripping:

> LOM 0.56

> Phase 1 0.41

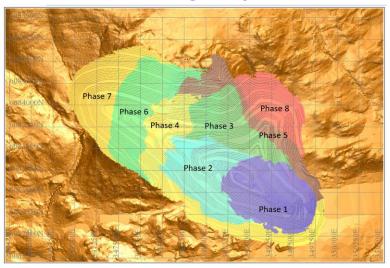
Equipment Selection

- Loading & Drilling: now electric equipment
- Haulage: 300 Ton class trucks
- Decarbonization study planned for 4Q23

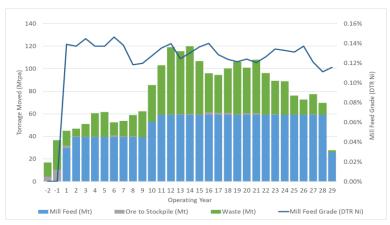
Mine Design Basis

- Pit slopes flattened from PEA
 - From 45 to 42-44 degrees
- Owner-purchased fleet

PFS Mining Sequence



Material Moved by Year





Processing

Robust Metallurgical Program

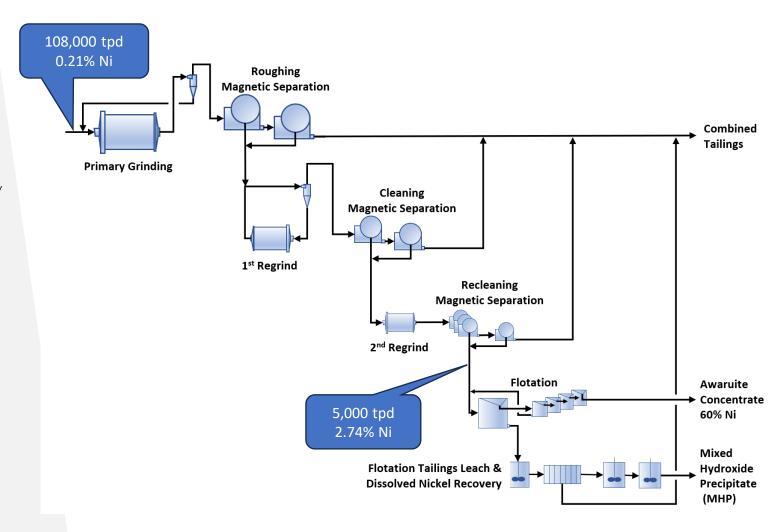
- Multiple bench-and pilot-scale programs with leading labs & met team
- Demonstrated 4% increase in DTR Ni recovery
 - > 88.7% for PFS (vs. 84.7% from PEA)

Conventional Process

- SAG-mill grinding
- Magnetic separation sequentially rejects a total of 95% of fresh plant feed
- Flotation then separates magnetite and awaruite to produce a 60% Ni concentrate

New Flotation Tails Leach Circuit

- Mild, atmospheric leach
- Simple purification to a high-Ni MHP product
- Accounts for 7% of total Ni production





Project Facilities

Compact Footprint

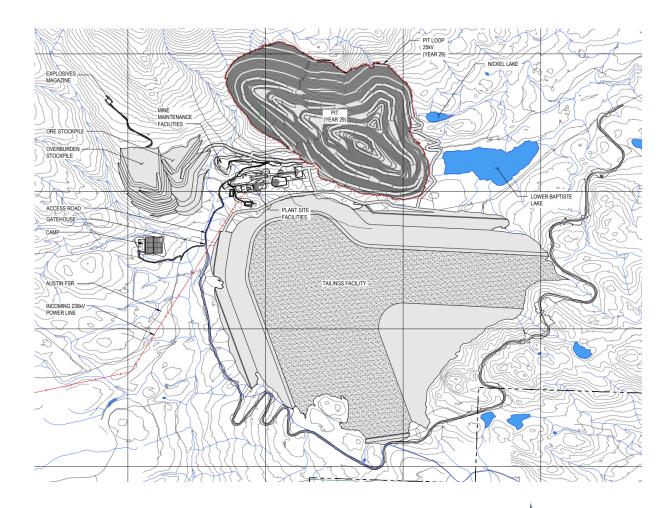
Reduced by 33% from PEA

Integrated Waste Facilities

- Pre-stripping material and mine waste integrated into tailings facility
 - No permanent external waste dumps
 - Elimination of PEA's sand dam concept

Infrastructure & Logistics

- Camp for construction & operations
- Upgrades & expansion to existing FSR network
- Connection to BC Hydro grid
- High-value product; Opex considers bagging, containerizing, and shipment to Asia





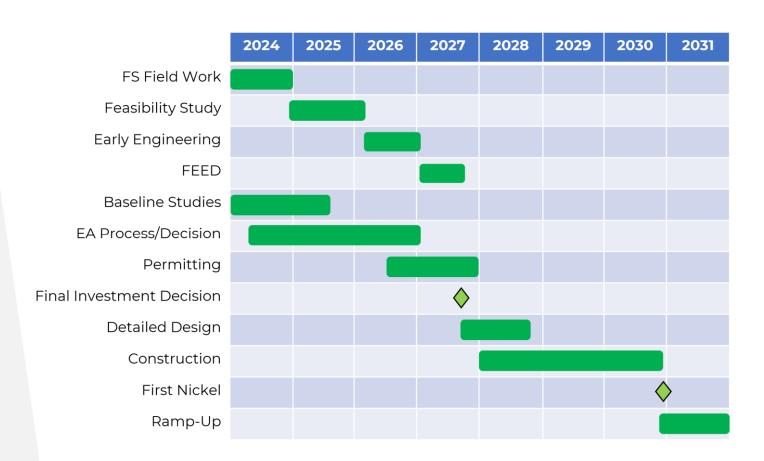
Project Execution

Critical Path

- Firmly runs through environmental assessment (EA) and permitting process
- Engineering studies approximately 9-12 months off critical path
- FPX targeting submission of Initial Project Description in mid-2024, to initiate the EA process

Key Next Steps

- Continued early engagement with local communities
- Continued cultural and environmental baseline data collection
- Initiate key environmental and engineering studies to support greater project definition in advance of entering EA process





Cost Estimates

Estimate Basis:

- Initial: AACE Class 4
- Expansion & Sust.: AACE Class 5
- Closure: order of magnitude
- CAD:USD Exchange = 0.76
- Initial capital intensity managed through:
 - > Deferred mining approach
 - Progressive concentration
 - > Efficient footprint
 - > Fit-for-purpose approach
- Opex developed bottoms-up, but benchmarked against comparable regional operations
- Additionally, closure capital costs of \$284M are included in the financial model

Capital Costs (US\$, millions)

Category	Initial	Expansion	Sustaining
Mining	325	68	643
Processing	845	409	421
Infrastructure	233	34	-
Total Direct Costs	1,403	511	1,064
Indirect & Owner's Costs	507	149	20
Contingency	272	103	97
Total Capital Costs	\$2,182	\$763	\$1,181

Operating Costs (US\$/t milled)

Phase 1	Phase 2	Total
Years 1-9	Years 10-29	LOM
2.59	3.31	3.14
3.75	3.59	3.63
1.23	1.05	1.09
0.31	0.29	0.29
\$7.88	\$8.24	\$8.15
\$3.48	\$3.76	\$3.70
	Years 1-9 2.59 3.75 1.23 0.31 \$7.88	Years 1-9 Years 10-29 2.59 3.31 3.75 3.59 1.23 1.05 0.31 0.29 \$7.88 \$8.24

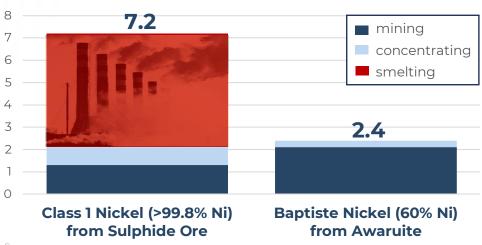
^{1.} C1 operating costs are the costs of mining, milling and concentrating, on-site administration and general expenses, metal product treatment charges, and freight and marketing costs. No byproduct credits are included in the above figures. These are expressed on the basis of per unit nickel content of the sold product.



The Green Choice For Nickel

Lowest Decile Carbon Intensity

- FPX calculations indicated a 2.4 tCO2/t Ni carbon intensity on a Scope 1 & 2 basis
- BC's hydro-powered grid carries very low carbon intensity
- PFS includes electrified pit
- Post-PFS trade-off study will evaluate haulage decarbonization



Source:

- Class 1 Nickel figures from Mistry et al, 2016
- Baptiste Nickel figures based on FPX internal calculation considering PFS configuration.

Other Environmental Strengths

- Product quality suitable for direct feed to stainless steel
 - Totally eliminates any need for intermediate smelting
- Low mine strip ratio
- Mine waste integrated into tailings facility
- Geochemistry of waste rock and tailings materials (very low potential for acid rock drainage)
- PFS footprint reduced by 33% (vs. PEA)
- Utilize existing FSR network as foundation for an all-season access road
- PFS water modelling indicates a zero-discharge basis (only modest quantity of fresh water required for potable and make-up purposes)
- PEA's impact to Lower Baptiste and Nickel Lakes minimized through inclusion of buffer zones



Refinery Option

Location

- Assumed semi-urban setting in Central BC
- Ideally co-located in integrated battery hub

Process

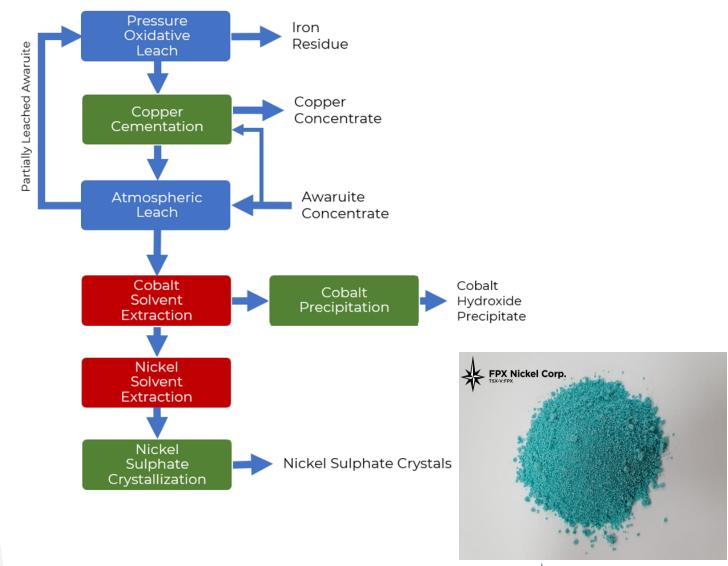
- Sized for 40,000 tpa of Ni in nickel sulphate
- Simple flowsheet & conventional unit operations
- Optimized leaching circuit which reduces downstream purification requirements
- Production of NiSO₄ crystals included
- Valorization of secondary metals:

> Co MHP 700 tpy Co

Cu Conc. 300 tpy Cu

Infrastructure

- Minimal infrastructure requirements
- Primary waste is hematite and sodium sulphate (no economic benefit considered in study)





Refinery Option

Basis of Estimate

- AACE Class 5
- CAD/USD 0.76

Economic Criteria

Ni Price8.75 US\$/lb

Co Price 15.00 US\$/Ib

Cu Price 3.50 US\$/lb

NiSO₄ Premium 1.00 US\$/lb

Capital Costs (US\$, millions)

Category	Base Case + Refinery	Refinery Only
Direct Costs	1,665	261
Indirect & Owner's Costs	593	86
Contingency	372	100
Total	\$2,629	\$448

Refinery Economics (US\$, post tax)

	Base Case + Refinery	Refinery Only
C1 Operating Cost (US\$/Ib Ni)	3.89	0.79
$NPV_{8\%}$ (US\$, millions)	2,127	63
IRR	17.7%	9.9%
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Note: Above C1 Operating Costs inclusive of Co & Cu byproducts from refinery



Share Structure & Financial Position

Capital Structure

TSX-V: FPX | OTCOB: FPOCF

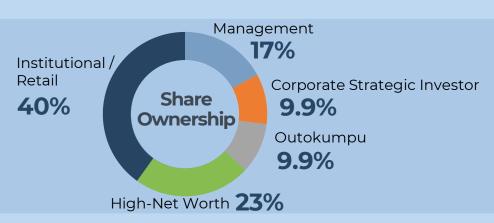
52-week Range: C\$ 0.31 -C\$ 0.64

Shares Outstanding: 273.9 M (basic); 287.7 M (diluted)

Market Capitalization (basic): C\$110 million

Cash and working capital: ~C\$31 million

No debt, No warrants | Fully Funded for 2023 & 2024



Analyst Coverage

CORMARKSECURITIES INC.



ETF Inclusion



FPX (TSX-V): 2020-2023 Price Chart (C\$/share)





