











**Unearth the Potential at the Meliadine Project** 

April 14, 2015 Alexandre Proulx





## **Forward Looking Statement**



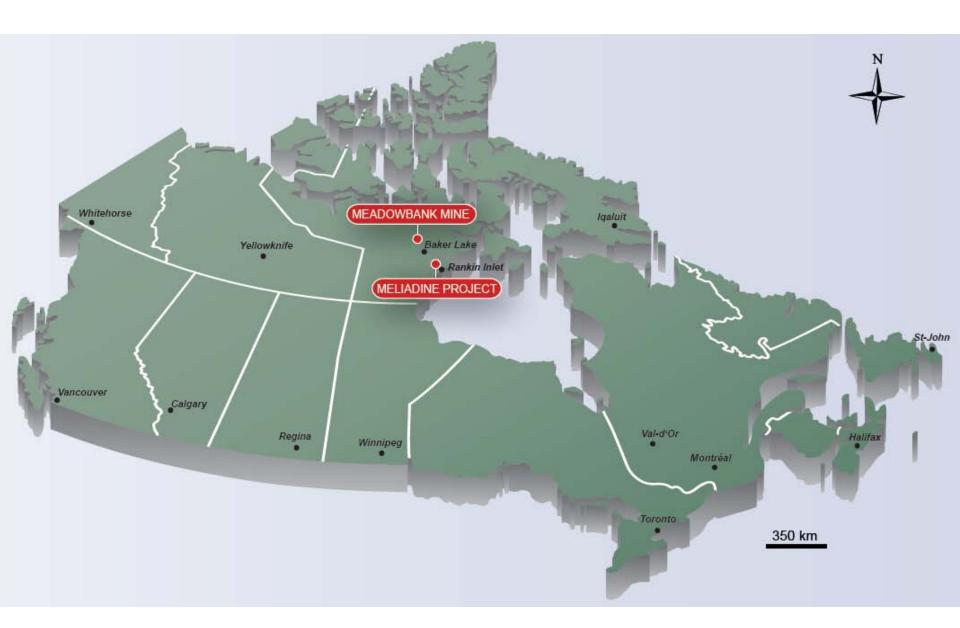
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Such statements and information include, without limitation, statements relating to the future exploration, permitting and development activities to be undertaken at the Meliadine project. The material factors and assumptions used in the preparation of forward-looking statements contained herein, which may prove to be incorrect include, but are not limited to, that that exploration, permitting and development at the Meliadine project proceeds on a basis consistent with current expectations and plans.

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#### Location





#### **Project Description**



- Advanced exploration project with on-going underground development for conversion of deep resources
- Potential to be in production for decades based on an impressive mineral inventory of more than 10M oz.
- Potential to produce 300k-400k oz. per year
- Significant exploration upside at all 7 known deposits
- Advanced permitting for construction and production
- Future capital expenditures and decision of building a mine are subject to Board approval, prevailing market conditions, and outcomes of the various potential scenarios being evaluated



# **Project History**



Years	Ownership	Highlights
1987-1988	Asamera	Investigation of gold occurrence at Tonic Lake
1989-1992	Asamera/Comaplex	Discovery and Wolf deposits discovered
1993-1994	Comaplex/Cumberland	Tiriganiaq, F-Zone and Pump deposits discovered
1995-2003	WMC	Drilling on known deposits and regional assets
2004-2009	Comaplex	Drilling on known deposits and regional assets Underground development and 1st bulk sample program
2010	AEM	Acquisition of Comaplex in July (100% interest in Meliadine)
2010-2014	AEM	Drilling on known deposits and regional assets Underground development and <b>2</b> <sup>nd</sup> <b>bulk sample</b> program. Normeg discovered. Various economical studies

# **Meliadine Early Days (1995)**





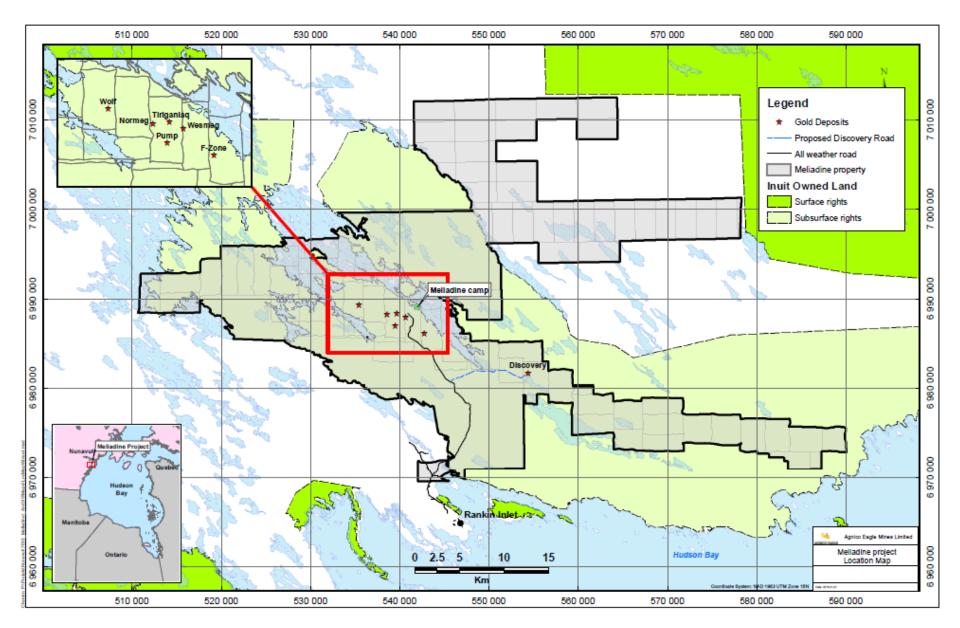
## **Meliadine 2014**





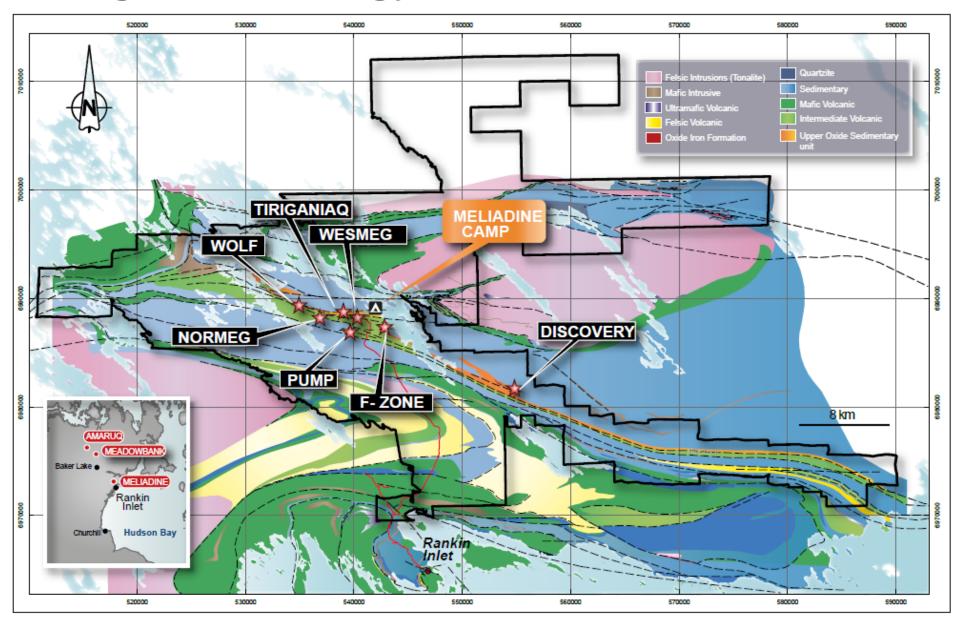
#### **Land Tenure and Position**





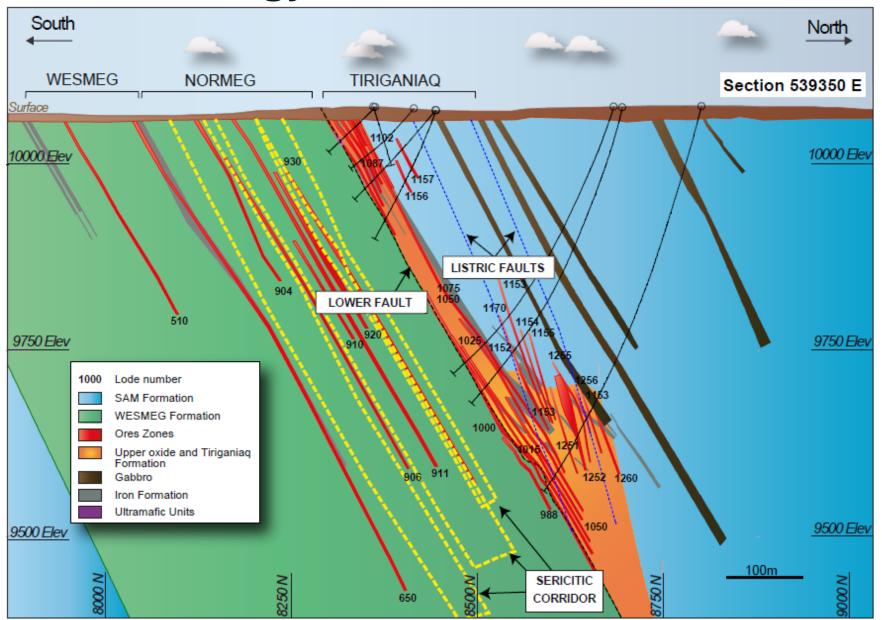
## **Regional Geology**





## **Local Geology**



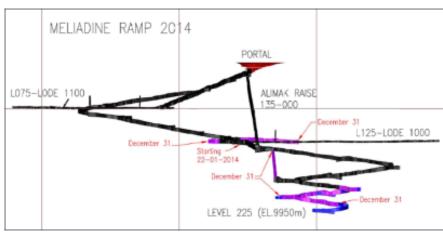


#### **Project Update – 2014 Realization**



- NIRB approval: Oct 15th
- 122 drill holes for 32k m of conversion and regional exploration
- 1,367m of underground development
- Number of internal technical studies completed
- 596 dayswithout LTI



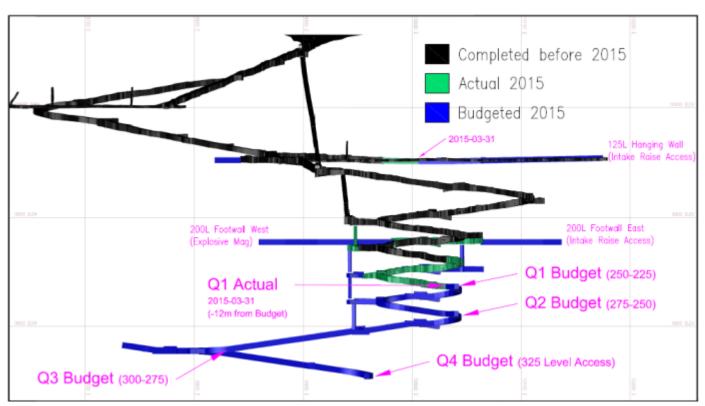


## **Project Update – 2015 Objectives**



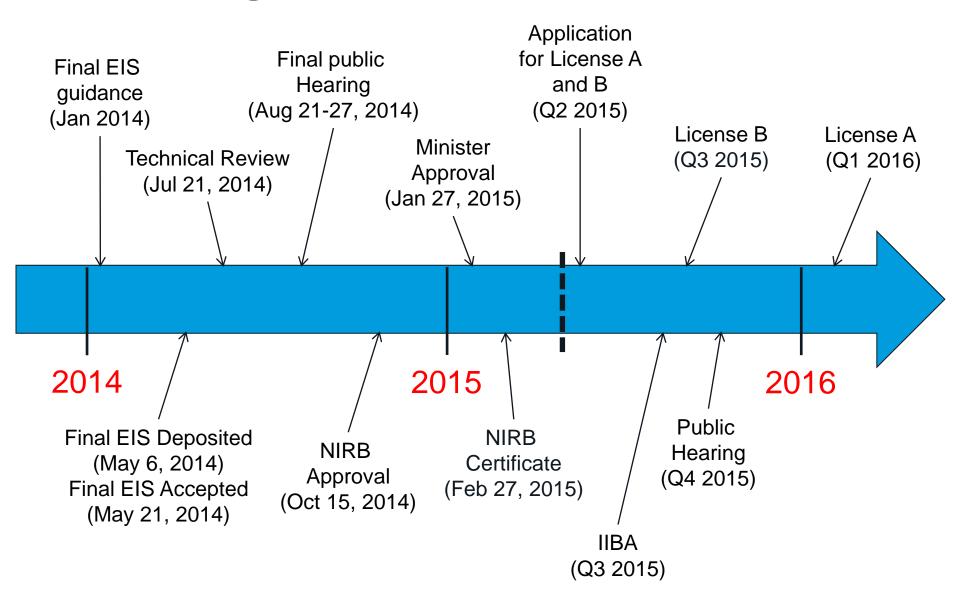
- 43-101 (Dec. 2014 MRMR)
- **Continue with Permitting**
- Ramp-up to 2 development crews

- 2.5km of development
- Continue to optimize the project economics



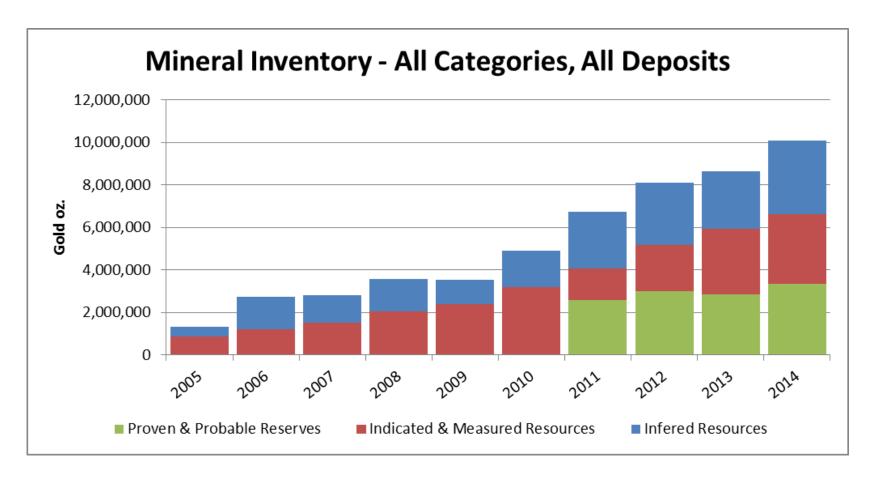
#### **Permitting Timeline**





#### **MRMR Evolution**





- 2005 Mineral Inventory: 1.3M oz.
- 2014 Mineral Inventory: 10.1M oz.
- 719k meters of drilling over 20+ years

#### **Dec. 2014 MRMR**

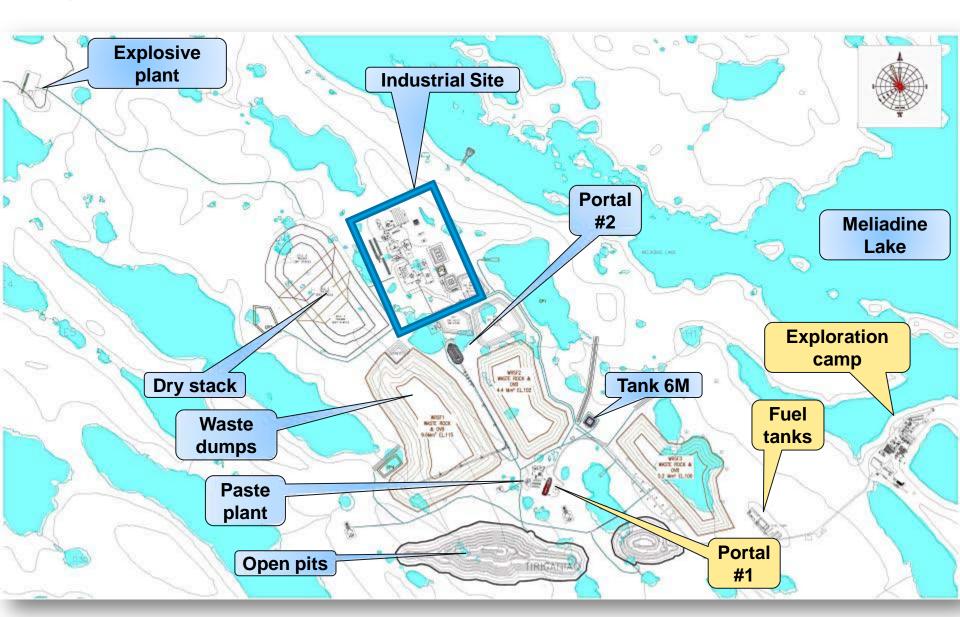


Category	M Tonnes	Grade	M Ounces
Reserves Proven & Probable	13.9	7.44	3.34
Resources Inferred	14.1	7.65	3.46
Resources Indicated	20.2	5.06	3.29

- Reserves at Tiriganiaq and Wesmeg only, resources at all other deposits
- Reserves increase of 494k oz. and overall Inventory increase of 1.5M oz. mainly due to changes to the modeling parameters implemented to better reconcile with the bulk samples

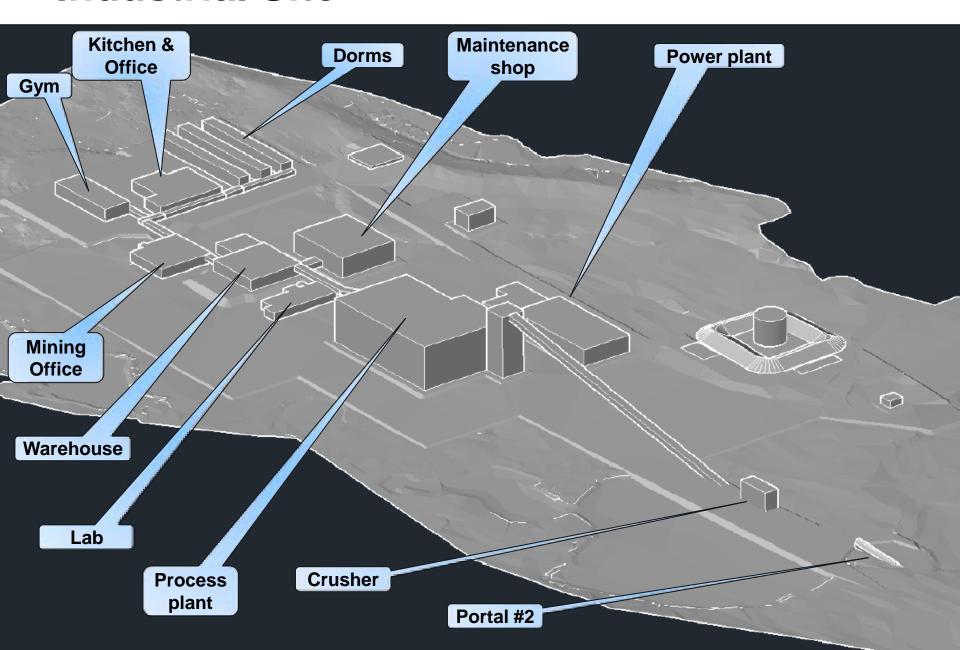
#### **Surface Infrastructure**





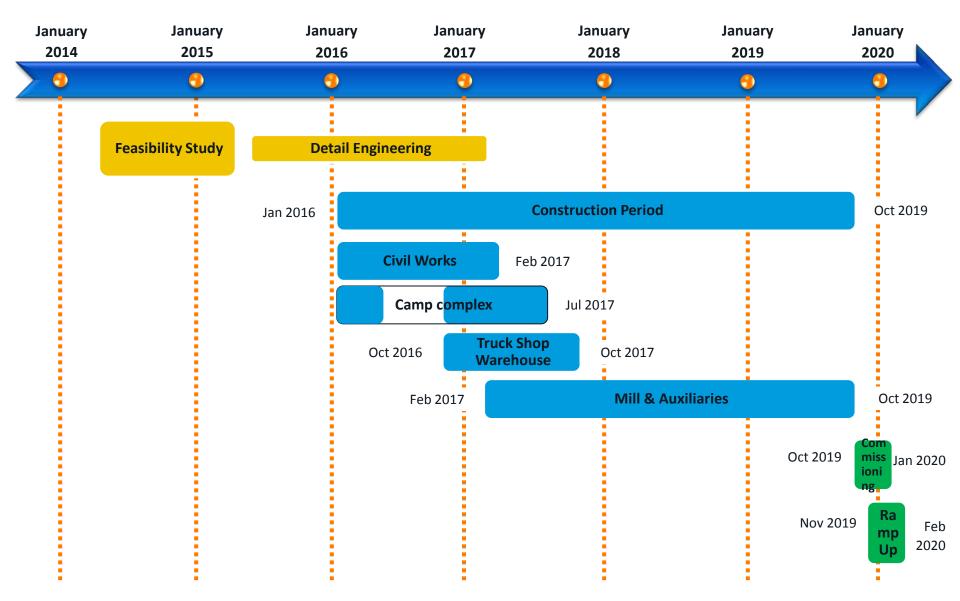
#### **Industrial Site**





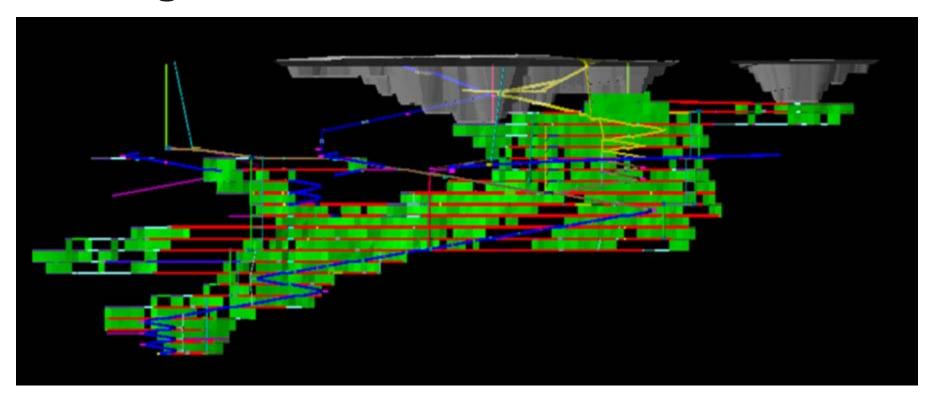
#### **Construction Schedule**





## **Mining**





- UG and OP mining (2 pits and over 1000 stopes)
- 3,000 tpd from Y1 to Y3 then 5,000 tpd until Y9
- 86.5km of development

# **Project Summary (43-101)**



Parameters	Description
Ore Reserves	3.3M oz. (13.9 M tonnes at 7.44 g) US\$1,150 and 1.08 US\$/C\$ Fx
LOM	9 years
Processing	3,000 tpd Y1 to Y3, 5,000 tpd Y4 to Y9
Mining	Tiriganiaq and Wesmeg, OP and UG
Gold Production	326k oz. Y1 to Y3, 362k oz. Y4 to Y9
Initial Capex	US\$911M
Sustaining and Closure	US\$398M
Project Financials	IRR: 10.3%  NPV (5%): US\$276M  US\$1,300 and 1.15 US\$/C\$ Fx  AISC: US\$531 per oz.  Mine site costs: C\$139 per tonne

## **Conclusion and Next Steps**



- **Project is marginal when using only Reserves**
- Prepare a larger mining plan with some of the inferred resources (more realistic picture of Meliadine)
- Continue to optimize the project in order to reduce the Initial **Capex and the Operation Costs**
- Continue Ramp development and conversion drilling from underground



