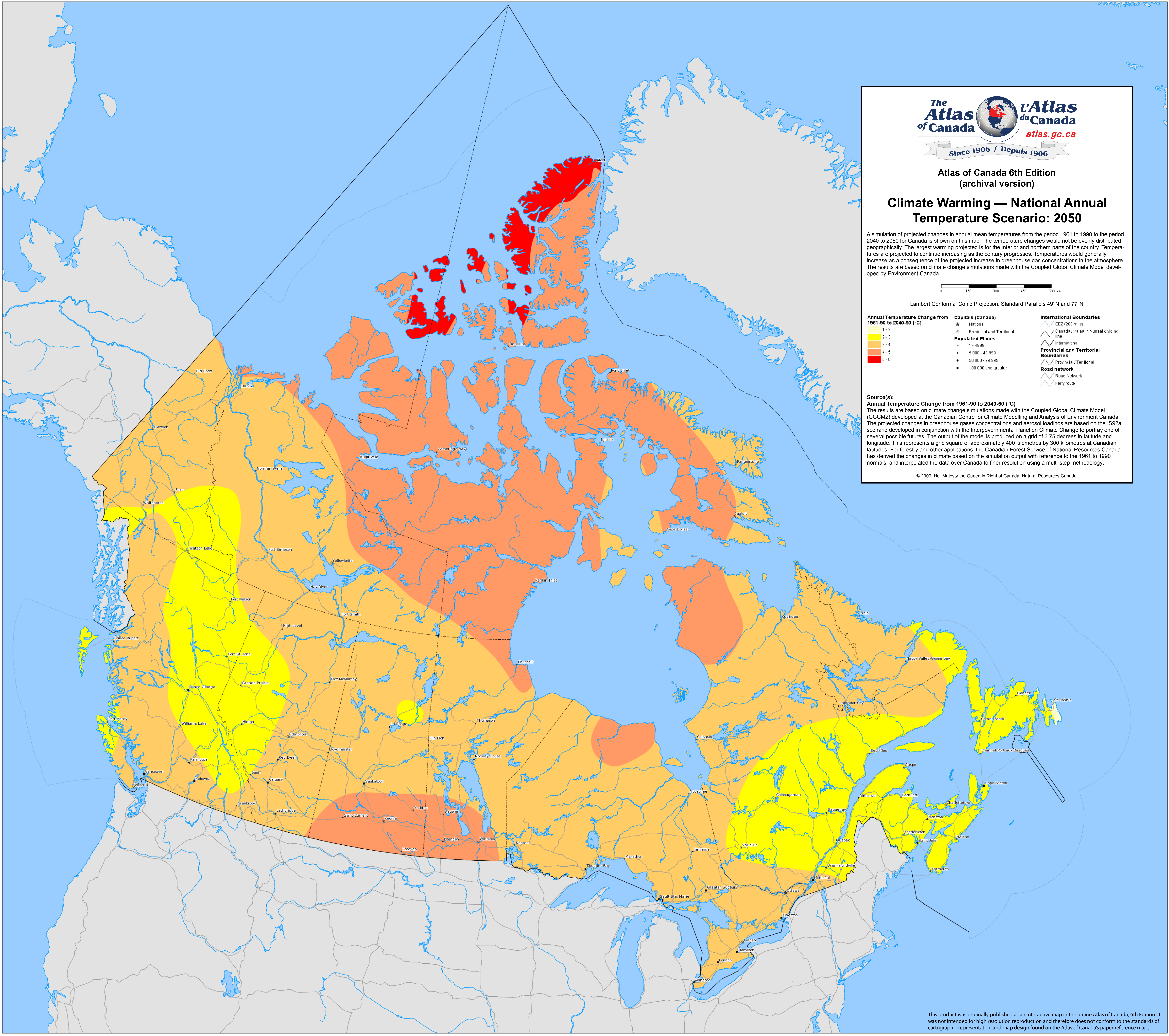
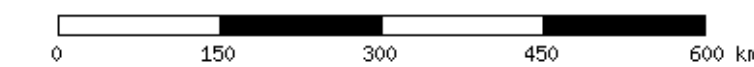




Atlas of Canada 6th Edition
(archival version)

Climate Warming — National Annual Temperature Scenario: 2050

A simulation of projected changes in annual mean temperatures from the period 1961 to 1990 to the period 2040 to 2060 for Canada is shown on this map. The temperature changes would not be evenly distributed geographically. The largest warming projected is for the interior and northern parts of the country. Temperatures are projected to continue increasing as the century progresses. Temperatures would generally increase as a consequence of the projected increase in greenhouse gas concentrations in the atmosphere. The results are based on climate change simulations made with the Coupled Global Climate Model developed by Environment Canada.



Lambert Conformal Conic Projection. Standard Parallels 49°N and 77°N

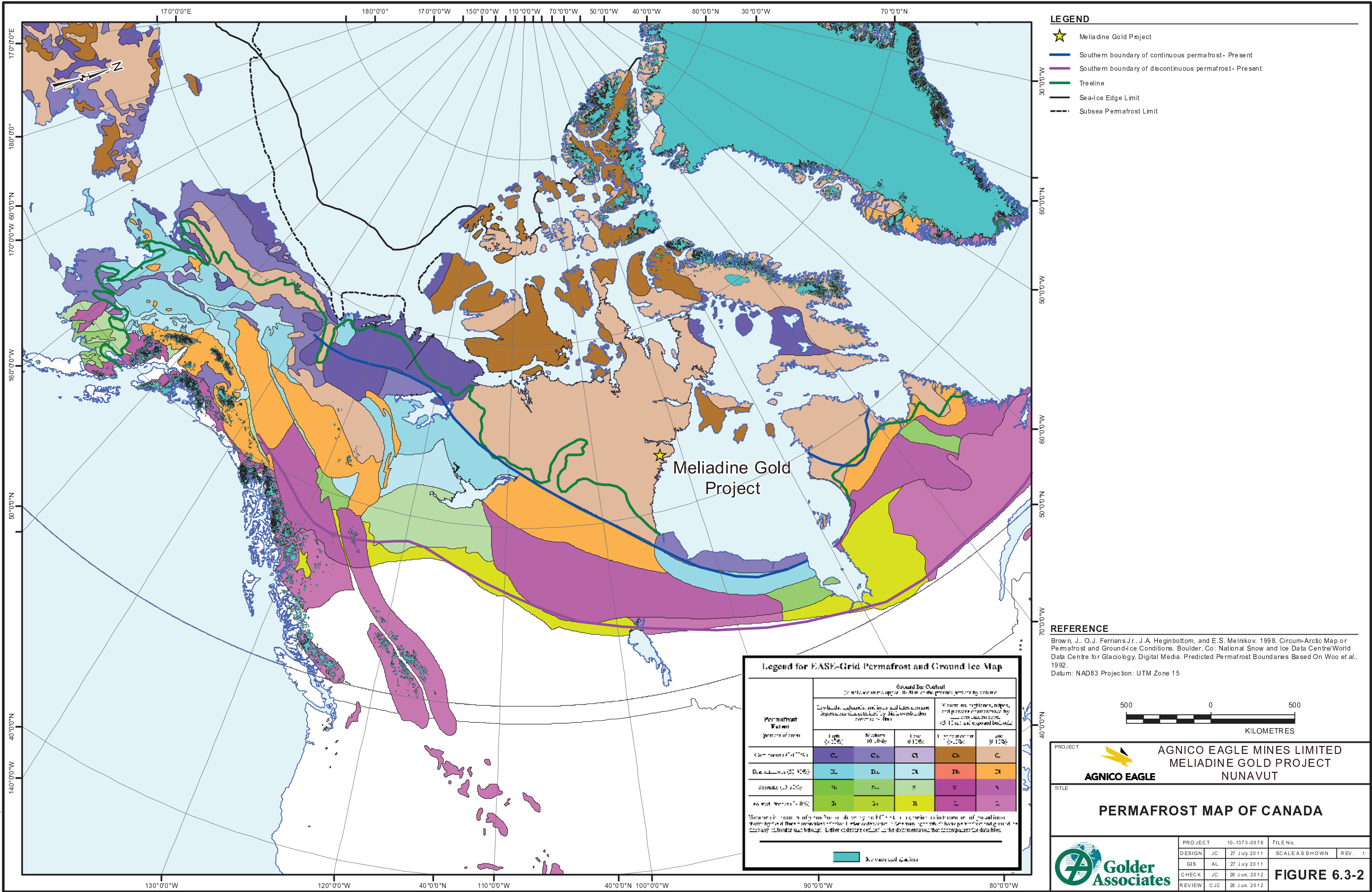
- | | | |
|---|------------------------------|--|
| Annual Temperature Change from 1961-90 to 2040-60 (°C) | Capitals (Canada) | International Boundaries |
| 1-2 | ★ National | --- EEZ (200 miles) |
| 2-3 | ○ Provincial and Territorial | --- Canada / Kalaallit Nunaat dividing line |
| 3-4 | ● Populated Places | --- International |
| 4-5 | • 1-49 999 | Provincial and Territorial Boundaries |
| 5-6 | • 50 000-49 999 | --- Provincial / Territorial |
| | ■ 100 000 and greater | Road network |
| | | --- Road Network |
| | | --- Ferry route |

Source(s):
Annual Temperature Change from 1961-90 to 2040-60 (°C)
The results are based on climate change simulations made with the Coupled Global Climate Model (CGCM2) developed at the Canadian Centre for Climate Modelling and Analysis of Environment Canada. The projected changes in greenhouse gases concentrations and aerosol loadings are based on the IS92a scenario developed in conjunction with the Intergovernmental Panel on Climate Change to portray one of several possible futures. The output of the model is produced on a grid of 3.75 degrees in latitude and longitude. This represents a grid square of approximately 400 kilometres by 300 kilometres at Canadian latitudes. For forestry and other applications, the Canadian Forest Service of Natural Resources Canada has derived the changes in climate from the simulation output with reference to the 1961 to 1990 normals, and interpolated the data over Canada to finer resolution using a multi-step methodology.

© 2009. Her Majesty the Queen in Right of Canada. Natural Resources Canada.

This product was originally published as an interactive map in the online Atlas of Canada, 6th Edition. It was not intended for high resolution reproduction and therefore does not conform to the standards of cartographic representation and map design found on the Atlas of Canada's paper reference maps.

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Appendix J

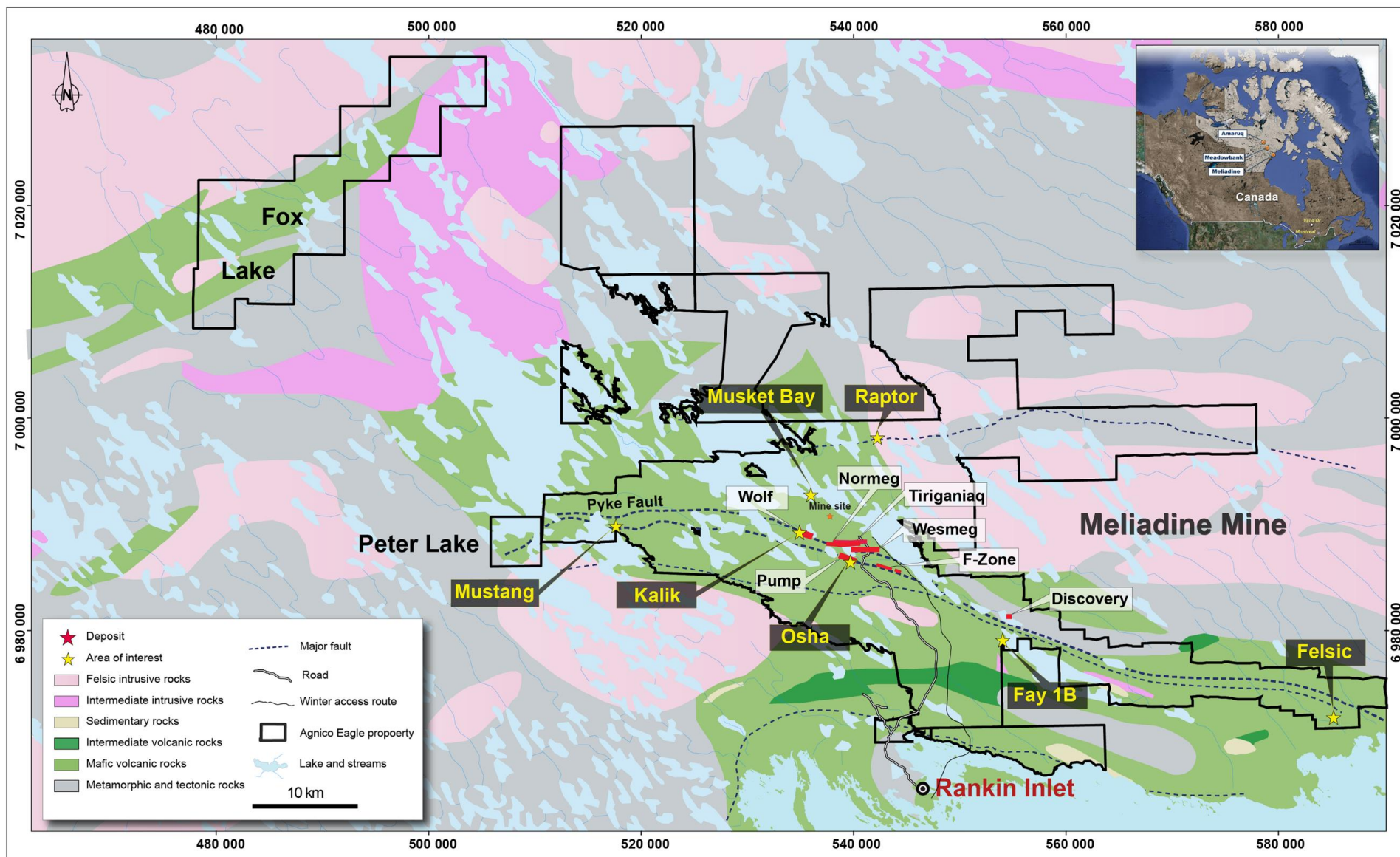
Meliadine Geology, Seismic Zone, Groundwater Flow and Bathymetry

Meliadine Interim Closure and Reclamation Plan 2019		Original -V.00
2019/12/12	668523-4000-4EER-0001	Technical Report

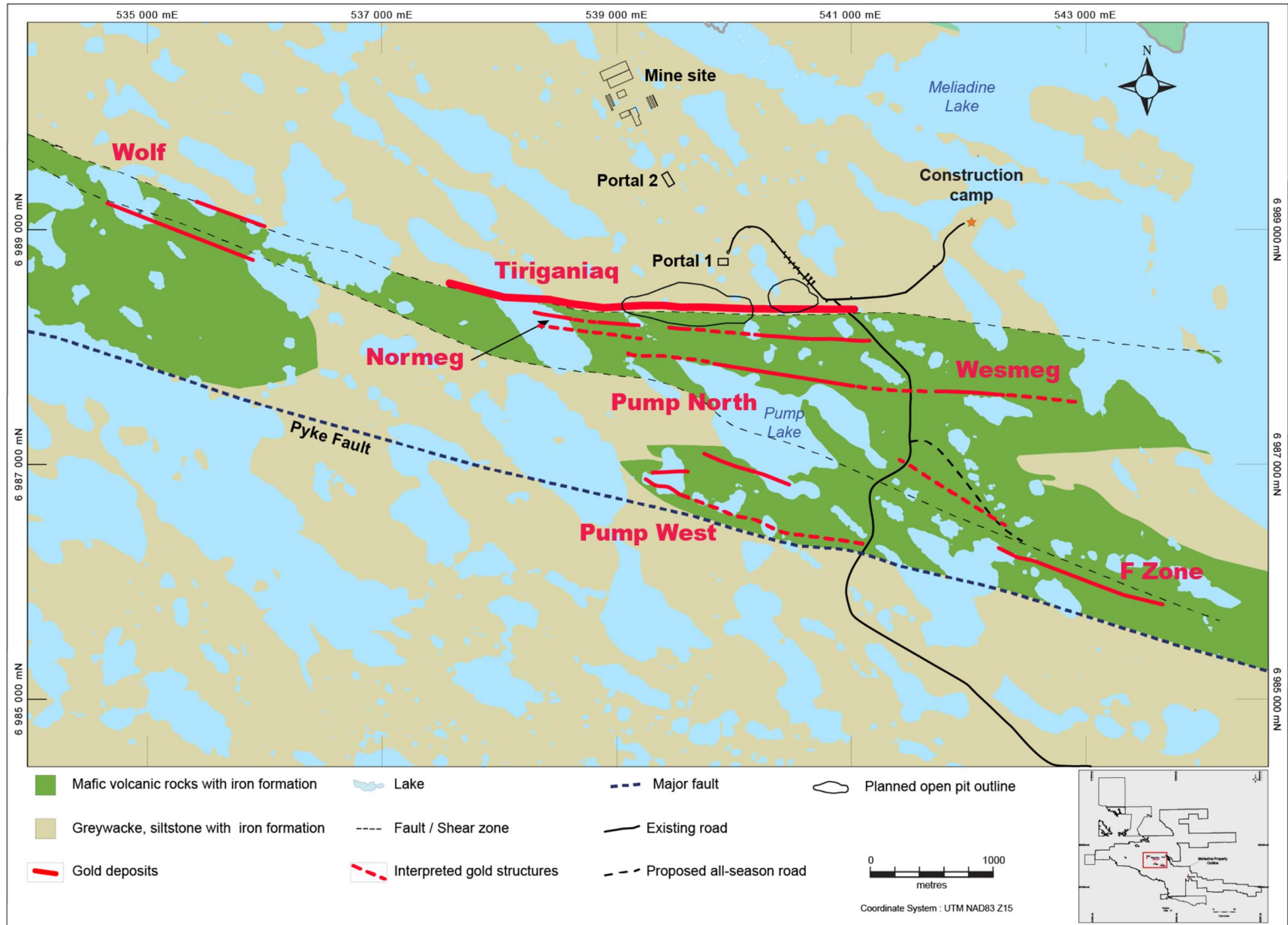




Meliadine Mine - Regional Geology Map



Meliadine Mine - Local Geology Map



2015 National Building Code Seismic Hazard Calculation

INFORMATION: Eastern Canada English (613) 995-5548 français (613) 995-0600 Facsimile (613) 992-8836
Western Canada English (250) 363-6500 Facsimile (250) 363-6565

Site: 63.023N 92.218W

User File Reference: Meliadine Mine Site

2019-11-25 14:04 UT

Requested by: SNC-Lavalin (for Agnico Eagle Mines Limited)

Probability of exceedance per annum	0.000404	0.001	0.0021	0.01
Probability of exceedance in 50 years	2 %	5 %	10 %	40 %
Sa (0.05)	0.047	0.027	0.017	0.005
Sa (0.1)	0.067	0.039	0.026	0.009
Sa (0.2)	0.066	0.042	0.028	0.011
Sa (0.3)	0.057	0.037	0.026	0.009
Sa (0.5)	0.047	0.031	0.021	0.007
Sa (1.0)	0.028	0.018	0.012	0.004
Sa (2.0)	0.013	0.008	0.005	0.001
Sa (5.0)	0.003	0.002	0.001	0.000
Sa (10.0)	0.001	0.001	0.001	0.000
PGA (g)	0.037	0.022	0.015	0.005
PGV (m/s)	0.035	0.022	0.014	0.004

Notes: Spectral ($S_a(T)$, where T is the period in seconds) and peak ground acceleration (PGA) values are given in units of g (9.81 m/s^2). Peak ground velocity is given in m/s . Values are for "firm ground" (NBCC2015 Site Class C, average shear wave velocity 450 m/s). NBCC2015 and CSAS6-14 values are highlighted in yellow. Three additional periods are provided - their use is discussed in the NBCC2015 Commentary. Only 2 significant figures are to be used. **These values have been interpolated from a 10-km-spaced grid of points. Depending on the gradient of the nearby points, values at this location calculated directly from the hazard program may vary. More than 95 percent of interpolated values are within 2 percent of the directly calculated values.**

References

National Building Code of Canada 2015 NRCC no. 56190; Appendix C: Table C-3, Seismic Design Data for Selected Locations in Canada

Structural Commentaries (User's Guide - NBC 2015: Part 4 of Division B)
Commentary J: Design for Seismic Effects

Geological Survey of Canada Open File 7893 Fifth Generation Seismic Hazard Model for Canada: Grid values of mean hazard to be used with the 2015 National Building Code of Canada

See the websites www.EarthquakesCanada.ca and www.nationalcodes.ca for more information

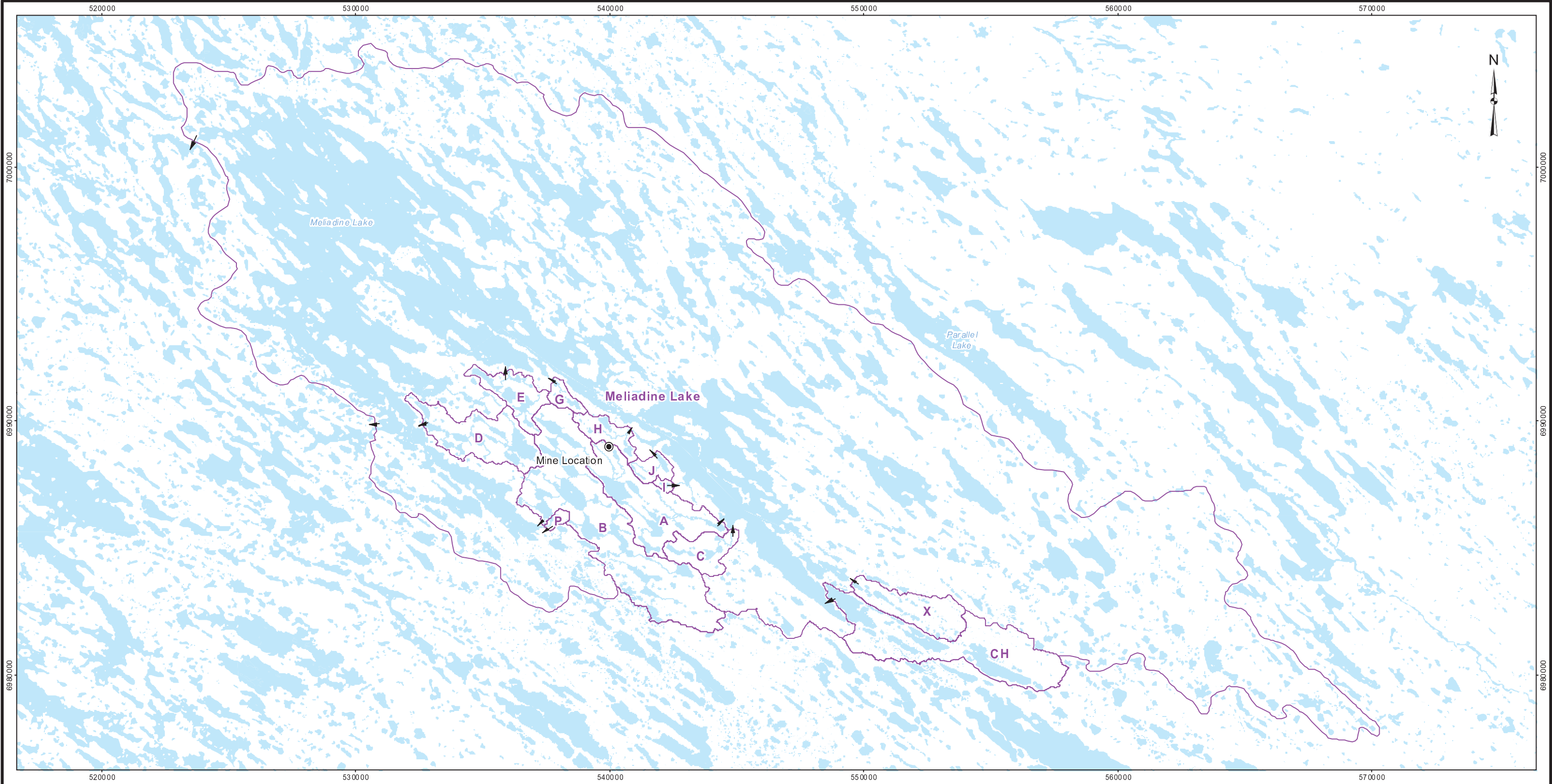


Natural Resources
Canada

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Canada

Canada

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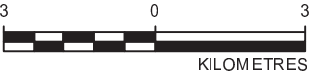


LEGEND

- Direction of Flow at Watershed Outlet
- Watercourse
- Watershed Boundary
- Waterbody

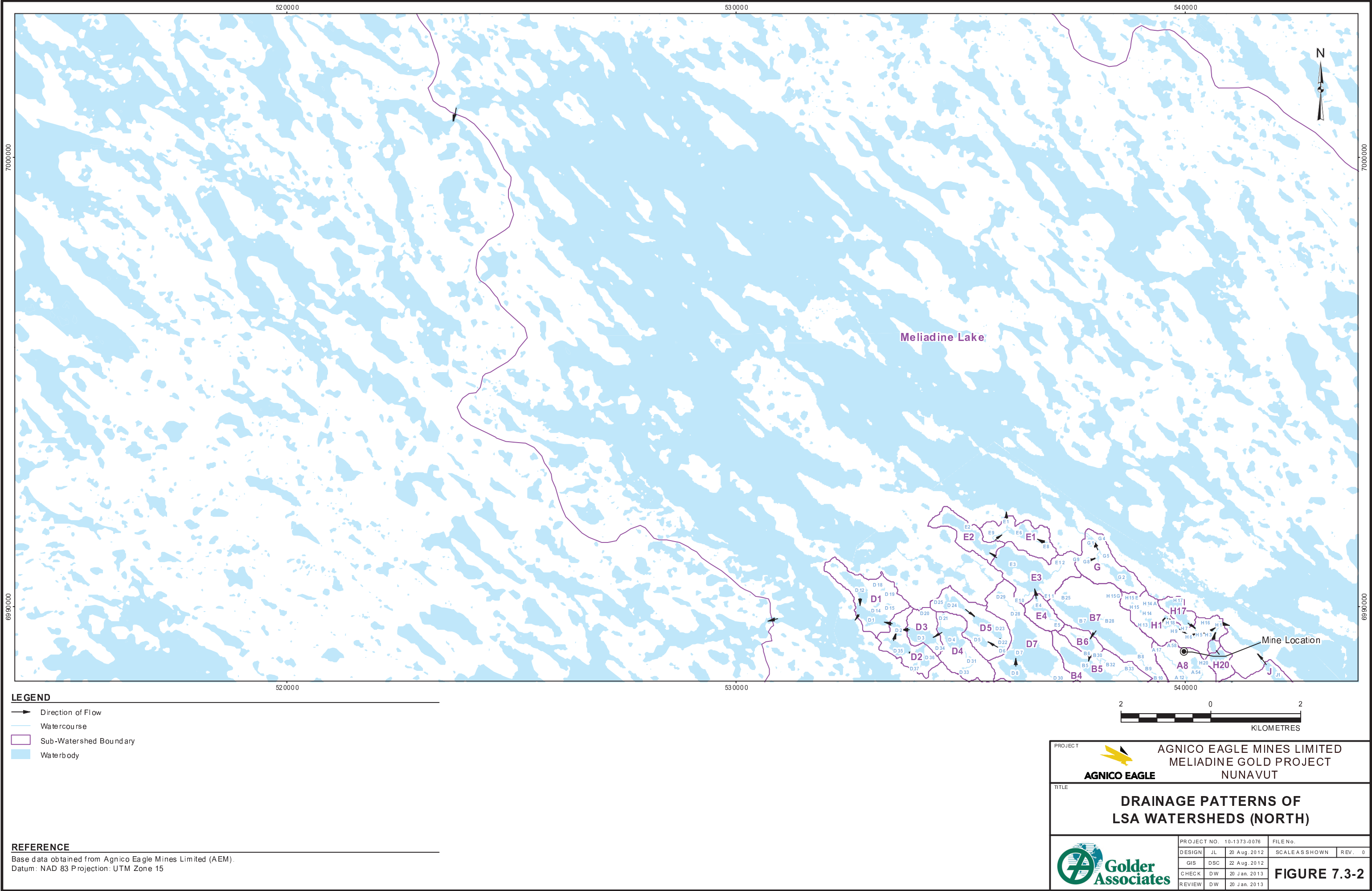
REFERENCE

Base data obtained from Agnico Eagle Mines Limited (AEM).
Datum: NAD 83 Projection: UTM Zone 15

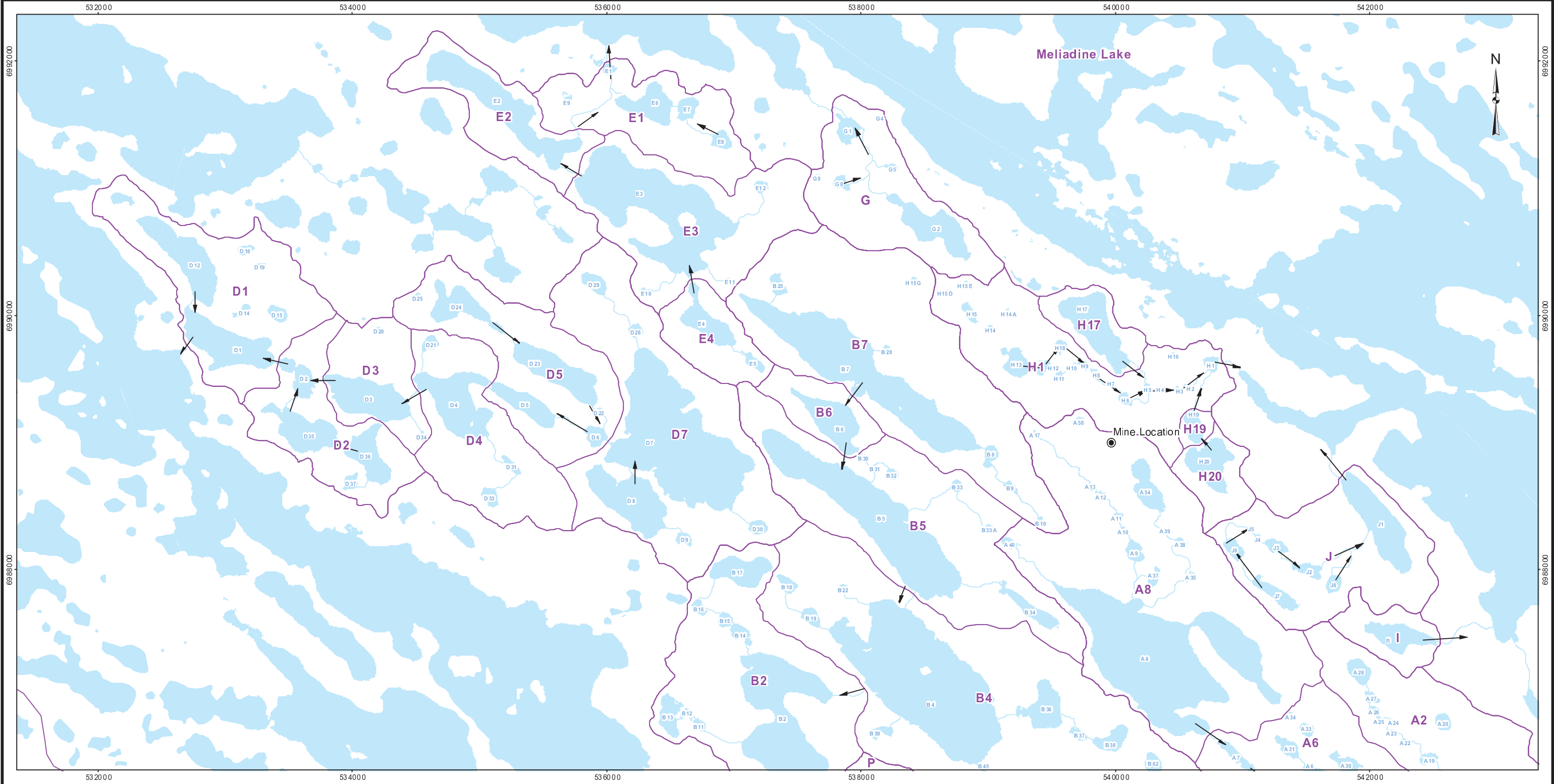


PROJECT		 AGNICO EAGLE		AGNICO EAGLE MINES LIMITED MELIADINE GOLD PROJECT NUNAVUT	
TITLE					
LSA WATERSHEDS					
		PROJECT NO. 10-1373-0076		FILE No.	
		DESIGN	JL 20 Aug. 2012	SCALE AS SHOWN	REV. 0
		GIS	DSC 21 Aug. 2012		
		CHECK	DW 20 Jan. 2013		
		REVIEW	DW 20 Jan. 2013	FIGURE 7.3-1	

N:\Bur-Graphics\Projects\2013\1428\13-1428-0007\GIS\Mapping\MXD\FEIS\Volume_7\Main_Volume\Figure_7.3-2_Drainage_Patterns_LSA_North.mxd



N:\Bur-Graphics\Projects\2013\1428\13-1428-0007\GIS\Mapping\MXD\FEIS\Volume_7\Main_Volume\Figure_7.3-3_Drainage_Patterns_LSA_Central.mxd



LEGEND

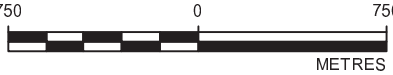
Direction of Flow

Watercourse

REFERENCE

Base data obtained from Agnico Eagle Mines Limited (AEM).

Datum: NAD 83 Projection: UTM Zone 15



PROJECT

AGNICO EAGLE

MELIADINE GOLD PROJECT

NUNAVUT

TITLE

DRAINAGE PATTERNS OF

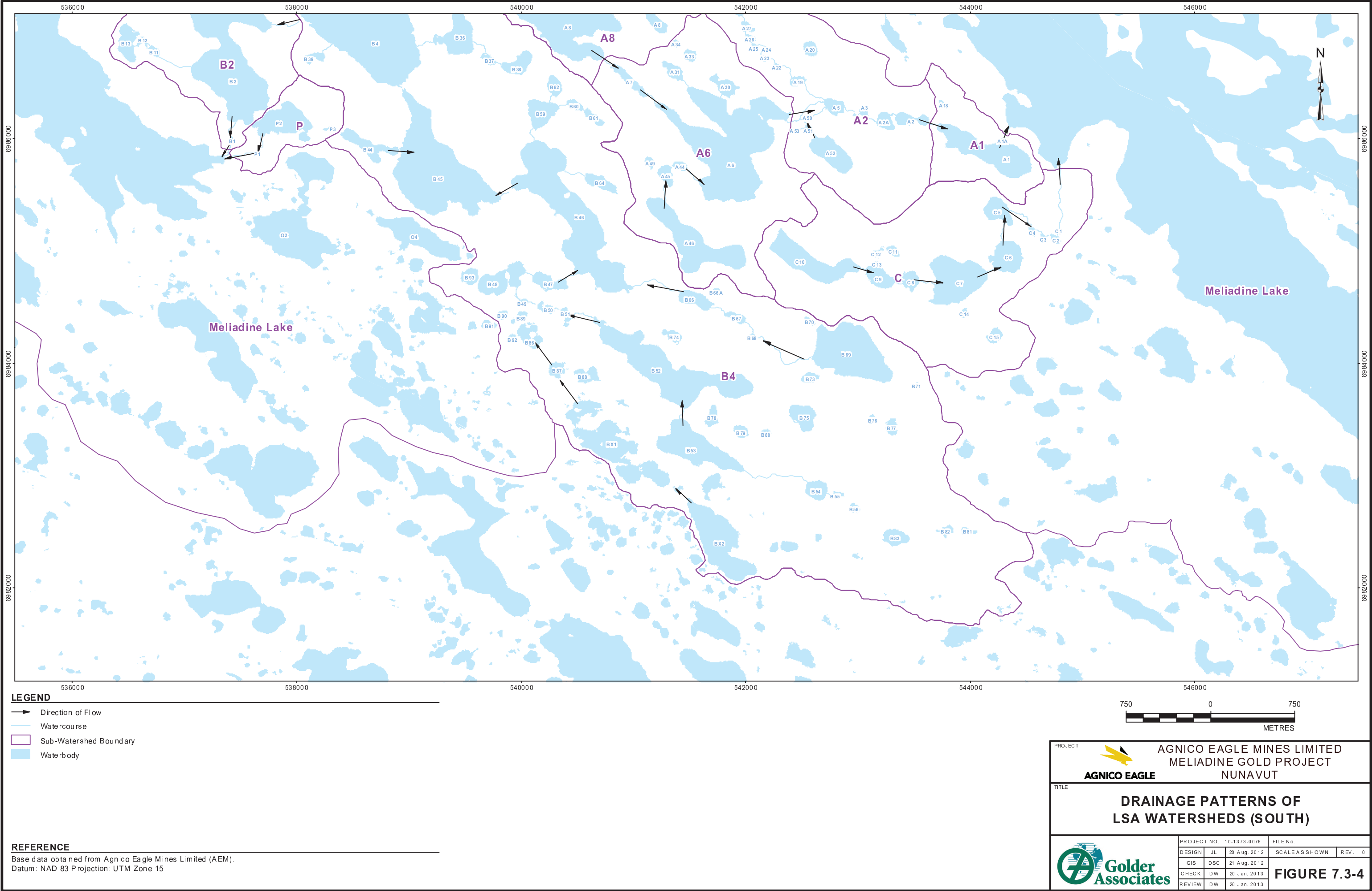
LSA WATERSHEDS (CENTRAL)

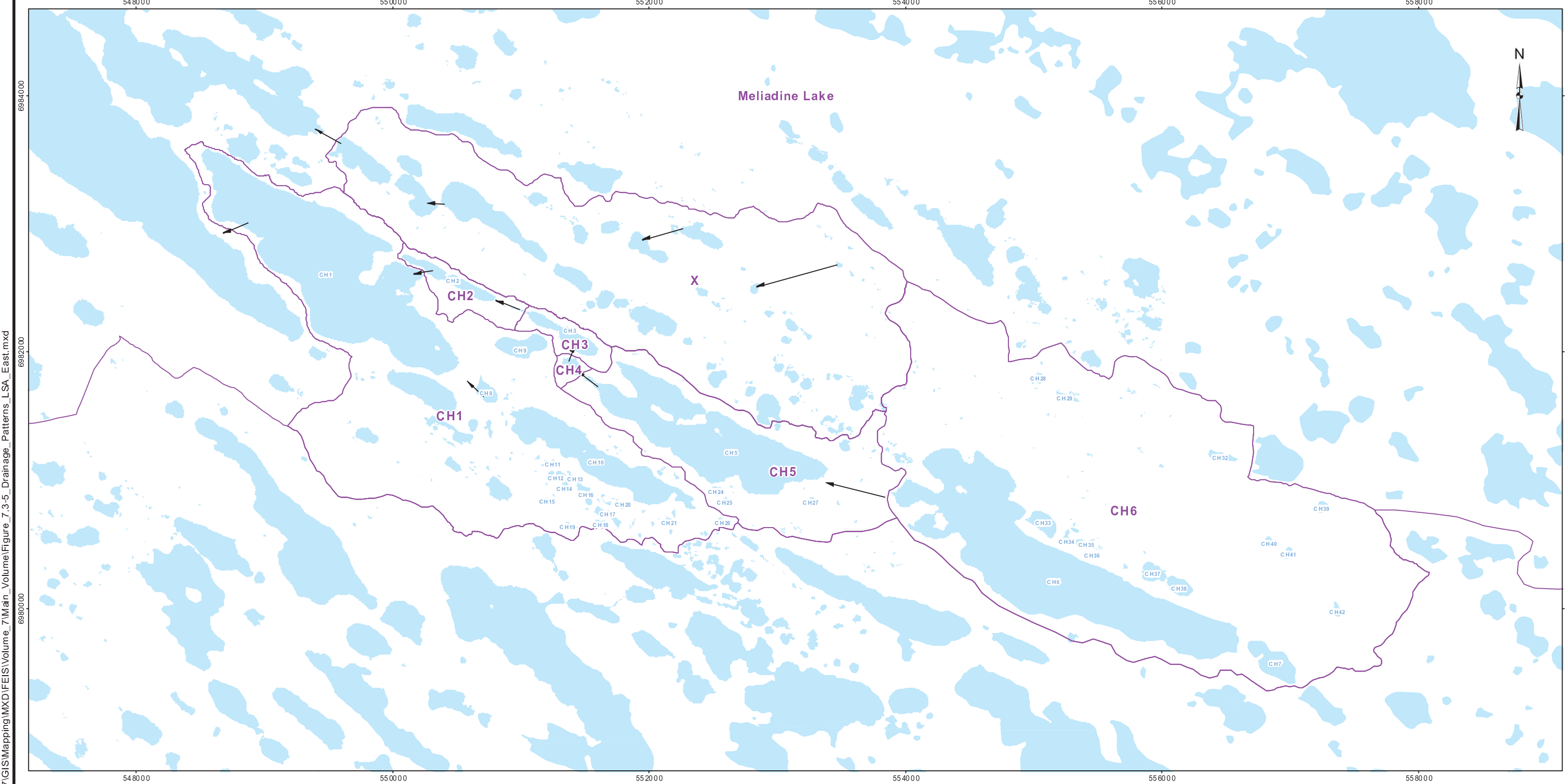
Golder Associates

PROJECT NO.	10-1373-0076	FILE No.	
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CHECK	DW 20 Jan. 2013		
REVIEW	DW 20 Jan. 2013		

FIGURE 7.3-3

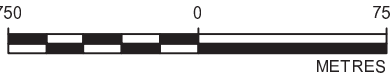
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- LEGEND**
- Direction of Flow
 - Watercourse
 - Sub-Watershed Boundary
 - Waterbody

REFERENCE
Base data obtained from Agnico Eagle Mines Limited (AEM).
Datum: NAD 83 Projection: UTM Zone 15



PROJECT		 AGNICO EAGLE		AGNICO EAGLE MINES LIMITED MELIADINE GOLD PROJECT NUNAVUT	
TITLE					
DRAINAGE PATTERNS OF LSA WATERSHEDS (EAST)					
	PROJECT NO.		10-1373-0076		FILE No.
	DESIGN	JL	20 Aug. 2012		SCALE AS SHOWN
	GIS	DSC	21 Aug. 2012		REV. 0
	CHECK	DW	20 Jan. 2013		FIGURE 7.3-5
REVIEW	DW	20 Jan. 2013			