



# MIRAMAR HOPE BAY LTD.

*300 - 889 Harbourside Drive, North Vancouver, B.C. V7P 3S1 Canada  
Phone 604-985-2572 Fax 604-980-0731*

15 March 2004

Ms. Stephanie Briscoe  
Executive Director  
Nunavut Impact Review Board,  
P.O. Box 2379  
Cambridge Bay, NU, X0E 0C0

Dear Ms. Briscoe,

**Re: Final EIS - Doris North Project – a small gold mine in Nunavut - Supplementary information for interveners as directed by NIRB February 19, 2004.**

Miramar Hope Bay Limited, the Proponent of the Doris North Project, acknowledges receipt of submissions commenting on the conformity of the Project EIS by the following parties in chronological order:

- Health Canada – letter review signed by Anjala Puvananathan dated January 29, 2004;
- Fisheries and Oceans Canada – letter review signed by Martyn Curtis dated January 30, 2004;
- Indian and Northern Affairs Canada – Conformity Analysis of the Final Environmental Impact Statement (FEIS) for the proposed Doris North Gold Project, dated February 2, 2004;
- Environment Canada – letter review signed by Stephen Harbicht dated February 2, 2004;
- Department of Sustainable Development, Government of Nunavut – letter review signed by Gordon MacKay dated February 2, 2004; and
- Natural Resources Canada – undated attachment to letter signed by John Ramsay received February 9, 2004.

The responses received were, for the most part, informed and constructive and were helpful to MHL in preparing supplemental information that will satisfy conformity requirements and assist interveners to complete comprehensive technical reviews of the Doris North Final EIS.

To facilitate an easy cross reference to the conformity reviews received, our responses are provided within the text of those comments received. This new information addresses both conformity issues and comments related to potential deficiencies that may arise during interveners technical reviews. In selected cases commitments are made to provide additional and more comprehensive technical analyses for review at the technical sessions 29 March – 2 April. The details of these technical sessions have yet to be confirmed by NIRB.

With the above in mind, we look forward to working with NIRB through the review and approval process as we move the Doris North Project towards production.

If you have any questions related to this matter, please do not hesitate to contact the undersigned on the above numbers or 1-780-975-2550, or by e-mail at [hugh\\_r\\_wilson@hotmail.com](mailto:hugh_r_wilson@hotmail.com); or [hwilson@miramarmining.com](mailto:hwilson@miramarmining.com).

Sincerely,  
**Miramar Hope Bay Ltd.**

*Original signed by "H. R. Wilson"*

Hugh R. Wilson,  
Manager, Environmental Affairs

CC: Health Canada, Anjala Puvananathan  
Fisheries and Oceans Canada, Martyn Curtis  
Indian and Northern Affairs Canada, Janice Traynor  
Environment Canada, Stephen Harbicht  
DSD, Government of Nunavut, Gordon MacKay  
Natural Resources Canada, John Ramsay  
Kitikmeot Inuit Association, Charlie Evalik, Jack Kaniak  
NTI, Stefan Lopatka, George Hakongak

Attachment: Revised Final EIS Concordance Table 1.5

<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
3.6 Summaries	Summaries	
3.6.1 Executive Summary	Executive Summary	
3.6.2 Popular Summary	Popular Summary in English	
3.7 Translation	Popular Summary in Inuinaktun	
	Popular Summary in Innuktitut	
4.0 Substantive Directives		
4.1 The Proponent	Section 1.2	
4.2 Sustainable Development and Precautionary Principle	Section 1.4	
4.3 Baseline Data Collection	Section 1.5, Section 3	SD B1 thru B5, C1 thru C3, D1 thru D3, and E1 thru E5
4.4 Traditional Knowledge	Section 1.6	SD E1
4.5 Public Consultation	Section 1.7	
4.6 Regional Context	Section 1.8	
4.7 Regulatory Regime	Section 1.9, Section 1.10, Table 1.2	
4.8 Land Tenure	Section 1.11, Table 1.3	
4.9 Project Justification	Section 1.12	SD A6 (Feasibility Study tech. sum.)
4.9.1 Project Purpose and Rationale	Section 1.12.1	SD A6
4.9.2 Project Need	Section 1.12.2	
4.10 Project Description	Section 1.1 need to read SD A1 for Detailed Project Description	Supporting Documents A1 thru A6
4.10.1 Project Components and Activities	Section 1.1	SD A1 thru A6 (SD A1 – Sections 2 and 3)

Nunavut Impact Review Board Guidelines Section		EIS Section Main EIS Text	Supporting Document (#-Section)
4.10.1.1	Geology/Mineralogy of the Ore Deposit and Mining Methods	Section 3.15, 3.16	SD A1, sec 3.1 & 3.2; also SD A6
4.10.1.2	Recovery Plant, Extraction and Concentration	Executive Summary, Need to read SD A1	SD A1, sec 3.3; also SD A2
4.10.1.3	Processed Ore Containment	Executive Summary, Need to read SDA1	SD A1, sec 3.4; also SD A5
4.10.1.4	Overburden and Waste Rock Disposal	Need to read SD A1	SD A1, sec 3.2.3; also SD A4
4.10.1.5	Water Supply and Management	Section 1.1, Need to read SD A1	SD A1, sec 3.5; also SD A4
4.10.1.6	Mine De-Watering	Need to read SD A1	SD A1, sec 3.2 also SD B5
4.10.1.7	All-Weather Roads	Section 1.1	SD A1, sec 3.14; also SD A4
4.10.1.8	Airport Facilities	Section 1.1, Figure 1.2, Need to read SD A1	SD A1, sec 3.12 and 3.13; also SD A4
4.10.1.9	Fuel and Explosives Storage Sites	Section 1.1, Figure 1.2, Need to read SD A1	SD A1, sec 3.9, 3.11.4; also SD A4
4.10.1.10	Borrow Pits and Quarry Sites	Figure 1.2, Need to read SD A1	SD A1, sec. 3.17.7, also SD A4 and SD B2
4.10.1.11	Waste (Domestic and Hazardous) Management	Section 1.1, Figure 1.2 Need to read SD A1	SD A1, sec 3.6, 3.7 and 3.8; also SD A4
4.10.1.12	Power	Section 1.1, Need to read SD A1	SD A1, sec 3.10; also SD A4
4.10.2	Project Design	Section 1.1, Figure 1.2, Need to read SD A1	Throughout SD A1, A2, A4, A5 and A6
4.10.3	Pace, Scale, and Timing of Project	Section 1.1 Need to read SD A1	SD A1, sec 2.3, Table 2.1
4.10.4	Future Development	Need to read SD A1	SD A1, sec 3.18; also SD A3
4.10.5	Technology	Need to read SD A1	SD A1, sec 3.19
4.11	Alternatives	Section 2.0, Need to read SD A1	SD A1, sec 4.1 thru 4.10; also SD A5 and F2 for tailings alternatives

<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
4.12 Description of Physical Environment	Section 3.1	SD B1 (meteorology & hydrology), B2 (ARD/ML), B3 (Air and Noise), B4 (ARD/ML), and E4 and E5 (Archaeology)
4.13 Description of Biological Environment	Section 3.2	SD C1, C2, C3 (Aquatic Studies), D1 (Vegetation), D2, D3 (Wildlife)
4.13.1 Vegetation	Section 3.2.3	SD D1
4.13.2 Wildlife	Section 3.2.4	SD D2 and D3
4.13.3 Birds	Section 3.2.4	SD D2 and D3
4.13.4 Fish and Other Aquatic Organisms	Section 3.2.1 and 3.2.2	SD C1, C2, and C3, No Net Loss Provisions in SD F5
4.14 Description of Socio-Economic Environment	Section 4	SD E2 and E3
4.15 Spatial Boundaries	Section 3.0 and Section 5.1.1	
4.16 Temporal Boundaries	Section 5.1.1	
4.17 Data Acquisition Methodology and Documentation	Section 3.0 and Section 5.1	SD B1-B5, C1-C3, D1-D3, E1-E5
4.18 Data Analysis and Reporting	Section 3.0 and Section 5.1	SD B1-B5, C1-C3, D1-D3, E1-E5
4.19 Impact Assessment Methodology	Section 5.1, Table 3.3 and Table 5.1	
4.20 Indicators and Criteria	Section 5.1.1 and 5.1.2, Table 5.1	
4.21 Impact Assessment	Section 5.0	
4.21.1 Project Components and Activities	Spread throughout Section 5.0	
4.21.1.1 Underground Mining	Spread throughout Section 5.0 (Water Quantity & Quality-Sec 5.2.5, ARD-Sec 5.2.6)	Groundwater Inflow Predictions in SD B5

<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
4.21.1.2 Processed Ore Containment Area	Section 5.0 (Water Quantity & Quality-Sec 5.2.5, Aquatic Life-Sec 5.2.7)	Qualitative Risk Assessment of Tailings Options in SD F2
4.21.1.3 Waste Rock, Ore and Overburden Storage	Section 5.0 (Water Quantity & Quality-Sec 5.2.5, ARD-Sec 5.2.6)	Predictive Water Quality Modeling in SD F8
4.21.1.4 Processing and Plant Infrastructure	Section 5.0 (Air-Sec 5.2.3, Water Quantity & Quality-Sec 5.2.5, Aquatic Life-Sec 5.2.7)	
4.21.1.5 Natural Drainage Diversion	Spread throughout Section 5.0 (Aquatic Life-Sec 5.2.7)	
4.21.1.6 Sewage and Solid Waste Management	Section 5.0 (Water Quantity & Quality-Sec 5.2.5)	Predictive Water Quality Modeling in SD F8
4.21.1.7 Hazardous Materials Management	Section 5.0 (Water Quantity & Quality-Sec 5.2.5)	
4.21.1.8 Power	Section 5.0 (Air-Sec 5.2.3)	
4.21.1.9 Air and Ground Traffic	Section 5.0 (Noise-Sec 5.2.4)	
4.21.1.10 Borrow Pits and Quarry Sites	Section 5.0 (Water Quantity & Quality Sec-5.2.5, ARD-Sec 5.2.6)	Quarry ARD Assessment in SD B2
4.21.1.11 Other Site Facilities and Infrastructure	Spread throughout Section 5.0	
4.21.1.12 Processing Operations	Section 5.0 (Air-Sec 5.2.3, Water Quantity & Quality-Sec 5.2.5)	Effluent Treatment Process Testing in SD A2
4.21.1.13 Accidents and Malfunctions	Spread throughout Section 5.0 (Spills-Water Quantity & Quality-Sec 5.2.5, Aquatic Life-Sec 5.2.7)	
4.21.1.14 Exploration Programme		SD A3

<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
4.21.1.15 Temporary Closure, Final Closure and Reclamation Programmes	Spread throughout Section 5 (Sections 5.2.1 thru 5.2.10 and in Section 8.0)	SD G1
4.21.2 Physical and Biological Environmental Components	Spread throughout Section 5.0	
4.21.2.1 Landscape and Terrain	Section 5.2.2	
4.21.2.2 Air	Section 5.2.3	SD B3
4.21.2.3 Water Quality and Quantity	Section 5.2.5 and 5.2.6	Predictive Water Quality modeling in SD F8, Doris Lake Water Quality Level Impact Analysis in SD F4
4.21.2.4 Vegetation	Section 5.2.8	
4.21.2.5 Wildlife	Section 5.2.9	SD F1
- Caribou	Section 5.2.9	SD F1
- Grizzly Bear	Section 5.2.9	SD F1
- Musk-Oxen	Section 5.2.9	SD F1
- Wolves, Wolverines, and Foxes	5.2.9	SD F1
4.21.2.6 Birds	Section 5.2.9	SD F1
4.21.2.7 Aquatic Organisms and Habitats	Section 5.2.7	
4.21.3 Biological Diversity	Section 5.2.7 and 5.2.9	
4.21.4 Social, Economic and Cultural Components	Spread throughout Section 6, Archaeology in Section 5.2.10)	SD E3 (Socio-Economic)
4.21.5 Impacts of the Environment on the Project	Climate-Section 5.2.1	
4.22 Cumulative Effects Assessment	Spread throughout Section 5.0 under Sections 5.1.4, 5.2.1 thru 5.2.10)	

<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
4.23 Summary of Impacts	Executive Summary, Spread throughout Section 5	
4.24 Environmental Management and Mitigation	Section 7.0	SD F6
4.24.1 Overview	Section 7.0	SD F6
4.24.2 Management of Impacts on Physical Environment	Section 7.1 thru 7.5	SD F4
4.24.2.1 Caribou	Section 7.3.2	SD F1
4.24.2.2 Fish		SD F2, F3, F4 and F5
4.24.2.3 Bears		SD F1
4.24.3 Management of Impacts on Socio- Economic Environment	Spread throughout Section 6.0	E3
4.24.3.1 Human Resources	Section 4 and Section 6.1.1	E3
4.24.3.2 Occupational Health and Safety		E3
4.24.3.3 Nunavummiut Involvement	Sections 6.1.1, 6.1.2, 6.1.3 and 6.4	E3
4.24.3.4 Public Involvement	Section 1.7, Table 1.1	E3
4.24.3.5 Impactand Benefits Agreements	Executive Summary, Section 6.14	E3
4.24.3.6 Pollution Prevention	Section 5.2.5	
4.25 Residual Impacts	Executive Summary, Spread throughout Section 5.0 (Sec 5.2.1 thru 5.2.10)	
4.26 Monitoring and Follow-Up	Executive Summary, Spread throughout Section 5.2.1 thru 5.2.10 and in Section 7.	
4.26.1 Overview	Section 7	
4.26.2 Community Liaison Committees	Section 6.14	
4.27 Auditing and Continual Improvement System	Section 7.5	SD F6



<b>Nunavut Impact Review Board Guidelines Section</b>	<b>EIS Section Main EIS Text</b>	<b>Supporting Document (#-Section)</b>
4.28 Closure and Reclamation	Section 8.0	SD G1
4.29 Outstanding Issues	Sections 9.1, 9.2, 9.3	
4.30 List of Consultants	Section 1.15	
4.31 List of Organizations	Section 1.15	