APPENDIX E
Mineral Resources Estimates

APPENDIX E

Mineral Resources Estimates

Hope Bay Mineral Resources Estimates (Dec. 31, 2001) Tabulated By Category					
Category, Deposit & Zone	**Cut-off (Au g/t)**	**Capping (Au g/t)**	**Tonnes (000's)**	**Gold Grade (g/t)**	**Contained Gold (000's ozs)**
Measured					
Boston					
- B2	5	50-175	232	16.3	121
- B3					
- B4					
Boston Sub-total			**232**	**16.3**	**121**
Doris					
- Hinge					
- North					
- Central					
- Pillars					
Doris Sub-total					
Madrid					
- Naartok					
- Suluk					
- South Patch					
- Perrin, Matrim					
- Pillars					
Madrid Sub-total					
Total Measured			**232**	**16.3**	**121**

Hope Bay Mineral Resources Estimates (Dec. 31, 2001) Tabulated By Category					
Category, Deposit & Zone	**Cut-off (Au g/t)**	**Capping (Au g/t)**	**Tonnes (000's)**	**Gold Grade (g/t)**	**Contained Gold (000's ozs)**
Indicated					
Boston					
- B2	5	50-175	1,069	15.6	535
- B3	7	30-50	86	11.1	31
- B4					
Boston Sub-total			**1,155**	**15.2**	**566**
Doris					
- Hinge	5	200	215	29.0	201
- North (flanks)	5	25-150	254	25.9	212
- Central	7	10-150	418	14.9	201
- Pillars					
Doris Sub-total			**887**	**21.5**	**614**
Madrid					
- Naartok	7	100	558	12.8	230
- Suluk					
- South Patch					
- Perrin, Matrim	5	30-40	532	7.8	133
- Pillars					
Madrid Sub-total			**1,090**	**10.3**	**363**
Total Indicated			**3,132**	**15.3**	**1,542**

Hope Bay Mineral Resources Estimates (Dec. 31, 2001) Tabulated By Category					
Category, Deposit & Zone	**Cut-off (Au g/t)**	**Capping (Au g/t)**	**Tonnes (000's)**	**Gold Grade (g/t)**	**Contained Gold (000's ozs)**
Measured + Indicated					
Boston					
- B2	5	50-175	1,300	15.7	656
- B3	7	30-50	86	11.1	31
- B4					
Boston Sub-total			**1,386**	**15.4**	**687**
Doris					
- Hinge	5	200	215	29.1	201
- North	5	25-150	254	25.9	212
- Central	7	10-150	418	15.0	201
- Pillars					
Doris Sub-total			**887**	**21.5**	**614**
Madrid					
- Naartok	7	100	558	12.8	230
- Suluk					
- South Patch					
- Perrin, Matrim	5	30-40	532	7.8	133
- Pillars					
Madrid Sub-total			**1,090**	**10.3**	**363**
Total Measured + Indicated			**3,363**	**15.4**	**1,664**

Hope Bay Mineral Resources Estimates (Dec. 31, 2001) Tabulated By Category					
Category, Deposit & Zone	**Cut-off (Au g/t)**	**Capping (Au g/t)**	**Tonnes (000's)**	**Gold Grade (g/t)**	**Contained Gold (000's ozs)**
Additional Inferred					
Boston					
- B2	5	50-175	1,595	10.3	527
- B3	7	30-50	696	12.1	271
- B4	7	40	283	11.4	103
Boston Sub-total			**2,574**	**10.9**	**901**
Doris					
- Hinge	5	200	79	37.0	94
- North	5	25-150	1,222	12.8	501
- Central	7	10-150	114	16.0	59
- Pillars	5 - 7	25-150	263	18.6	158
Doris Sub-total			**1,679**	**15.0**	**811**
Madrid					
- Naartok	7	100	312	11.9	120
- Suluk	7	50-90	1,302	12.1	508
- South Patch	7	100	75	36.2	88
- Perrin, Matrim	5	30-40	594	7.5	143
- Pillars	5 - 7	30-100	176	13.3	76
Madrid Sub-total			**2,460**	**11.8**	**935**
Total Additional Inferred			**6,713**	**12.3**	**2,648**

APPENDIX F
Summary of Existing Leases

APPENDIX F
Summary of Existing Leases

Crown Mineral Claims

Claim Name	Tag #	Acres	NTS	Record Date	Current Anniversary
AMAROK1	F27801	2,169.30	77A/13,76O/15	Jun 3,1993	Jun 3,2003
AMAROK2	F27802	180.80	76O/15	Jun 3,1993	Jun 3,2003
AMAROK3	F27803	2,436.00	76O/15	Jun 3,1993	Jun 3,2003
AMAROK4	F27804	387.40	76O/16	Jun 3,1993	Jun 3,2003
AMAROK5	F27805	2,169.30	76O/15,16	Jun 3,1993	Jun 3,2003
AMAROK6	F27807	2,530.85	76O/15,16	Jun 3,1993	Jun 3,2003
AMAROK7	F27806	180.80	76O/15	Jun 3,1993	Jun 3,2003
AMAROK8	F27808	154.95	76O/15	Jun 3,1993	Jun 3,2003
AMAROK9	F44725	619.80	76O/16	Jul 4,1995	Jul 4,2005
AMAROK10	F44724	2,582.50	76O/16	Jul 4,1995	Jun 3,2005
AMAROK11	F44723	1,647.10	76O/16	Jul 4,1995	Jul 4,2003
AMAROK12	F56177	1,022.43	76O/16	Sep 5,1995	Sep 5,2002
AMAROK13	F56178	735.10	76O/16	Sep 5,1995	Sep 5,2003
BOSTON8	Z02735	1,084.65	76O/09	Dec 15,1992	Dec 15,2002
BOSTON9	Z02736	1,446.20	76O/09	Dec 15,1992	Dec 15,2002
BOSTON10	Z02737	2,582.50	76O/09	Dec 15,1992	Dec 15,2002
BOSTON12	RA04550	413.20	76O/09	Dec 15,1992	Dec 15,2001
BOSTON13	RA04552	1,807.75	76O/09	Dec 15,1992	Dec 15,2002
BOSTON14	F39511	1,652.80	76O/09	Jun 3,1993	Jun 3,2003
BOSTON16	RA04551	464.85	76O/09	Jun 3,1993	Jun 3,2003
BOSTON18	F72164	464.85	76O/09	Aug 28,2001	Aug 28,2003
BOSTON19	F72165	2,066.00	76O/09	Aug 28,2001	Aug 28,2003
BOSTON20	F72163	1,239.60	76O/09,08	Aug 28,2001	Aug 28,2003
BD1	F65148	1,102.52	76O/09,10	Jun 3,1998	Jun 3,2003
BD2	F65149	1,865.46	76O/09,10	Jun 3,1998	Jun 3,2003
BUFFALO1	Z00203	2,582.50	76O/09	Jun 3,1993	Jun 3,2002
BUFFALO2	F38421	1,962.70	76O/09	Jun 3,1993	Jun 3,2003
BUFFALO3	Z00204	1,549.50	76O/09	Jun 3,1993	Jun 3,2002
BUFFALO4	F39503	2,302.15	76O/09,10	Jun 3,1993	Jun 3,2002
BUFFALO5	F39501	2,582.50	76O/09,10	Jun 3,1993	Jun 3,2003
CHICAGO1	F38425	2,185.00	76O/10	Jun 3,1993	Jun 3,2003
CHICAGO2	F27799	1,308.00	76O/10	Jun 3,1993	Jun 3,2003
CHICAGO4	F38424	2,582.50	76O/10	Jun 3,1993	Jun 3,2003
CHICAGO5	F54311	2,582.50	76O/10	Oct 31,1996	Oct 31,2006
ENGINE1	F56175	1,915.56	77A/03	Jul 25,1995	Jul 25,2002
ENGINE2	F56176	604.75	77A/03	Jul 25,1995	Jul 25,2005
ENGINE3	F46662	50.98	77A/03	May 27,1998	May 27,2008
ENGINE4	F46663	245.30	77A/03	May 27,1998	May 27,2003

Claim Name	Tag #	Acres	NTS	Record Date	Current Anniversary
HEKU1	F70303	2582.50	76O/10	Nov 3,2000	Nov 3,2010
HEKU2	F70302	2066.00	76O/10	Nov 3,2000	Nov 3,2002
HEKU3	F70423	2324.25	76O/10	Nov 3,2000	Nov 3,2002
HEKU4	F70424	2272.60	76O/10	Nov 3,2000	Nov 3,2002
HEKU5	F72172	1033.00	76O/10	Aug 28,2001	Aug 28,2003
PJ1	F58064	555.97	76O/09	Oct 7,1996	Oct 7,2002
PJ2	F54312	2,475.02	76O/09,16	Oct 7,1996	Oct 7,2002
PJ3	F54313	2,582.50	76O/09,16	Oct 7,1996	Oct 7,2002
PJ4	F54314	2,582.50	76O/09	Oct 7,1996	Oct 7,2003
PJ5	F54315	1,807.75	76O/09	Oct 7,1996	Oct 7,2002
PJ6	F54316	2,582.50	76O/09	Oct 7,1996	Oct 7,2003
PJ7	F46644	2,582.50	76O/09	May 29,1997	May 29,2003
QUITO1	Z00208	1,342.90	76O/15	Jun 3,1993	Jun 3,2002
QUITO2	Z00207	2,117.65	76O/15	Jun 3,1993	Jun 3,2002
QUITO3	Z00206	1,884.14	76O/15	Jun 3,1993	Jun 3,2003
QUITO4	Z00205	1,962.70	76O/15	Jun 3,1993	Jun 3,2002
TOTAL	**54**	**88,215.13**			

19 Mining Leases and Leases Pending

Lease Name	Tenure #	Surveyed Acres	NTS	Record Date	Current Anniversary
BOSTON1	F18751	2,488.20	76O/09	pending	July. 2002
BOSTON2	F18752	2,568.77	76O/09	pending	July. 2002
BOSTON3	F18753	2,507.00	76O/09	pending	July. 2002
BOSTON4	F18754	2,420.93	76O/09	pending	July. 2002
BOSTON5	F19271	2,431.04	76O/09	pending	Oct. 2002
BOSTON6	F18222	1,518.00	76O/09	pending	Oct. 2002
BOSTON7	F18219	1,388.00	76O/09	pending	Oct. 2002
HAVANA	F19280	2,472.00	76O/15,16	pending	Oct. 2002
KAMIK 1	ML3923	2,671.10	76O/15	Jul 24, 2000	Jul 24,2002
KAMIK 2	ML3924	2,462.10	76O/15	Jul 24, 2000	Jul 24,2002
KOIG1	ML3545	2,873.80	77A/03	Apr 17,1997	Apr 17,2002
KOIG2	ML3547	1,086.00	77A/03	Apr 17,1997	Apr 17,2002
KOIG3	ML3549	1,472.00	77A/03	Apr 17,1997	Apr 17,2002
KOIG4	ML3550	983.00	77A/03	Apr 17,1997	Apr 17,2002
KOIG6	ML3544	2,731.00	76O/16	Apr 17,1997	Apr 17,2002
WOG2	ML3546	2,595.00	77A/03	Apr 17,1997	Apr 17,2002
WOG3	ML3548	1,704.00	77A/03	Apr 17,1997	Apr 17,2002
MADRID 1	F18218	2,355.00	77A/03	pending	Oct. 2002
MADRID 2	F18220	1,179.00	77A/03	pending	Oct. 2002
Total	**19**	**39,905.94**			

Seven Inuit Exploration Agreements

Agreement Name	*Agreement #*	*Effective Date*	*Size (hectares)*	*Anniversary Date*
AKUNGANI 1	BB57-00-01	Aug.1, 2000	9,095	Aug.1, 2000
AKUNGANI 2	BB57-00-02	Aug.1, 2000	8,670	Aug.1, 2000
AKUNGANI 3	BB57-00-03	Aug.1, 2000	9,570	Aug.1, 2000
AIMAOKATUK 1	BB57-00-04	Aug.1, 2000	5,305	Aug.1, 2000
TOK 1	BB60-00-01	Aug.1, 2000	6,378	Aug.1, 2000
TOK 2	BB60-00-02	Aug.1, 2000	5,811	Aug.1, 2000
TOK 3	BB60-00-03	Aug.1, 2000	11,147	Aug.1, 2000
Total	**7 agreements**		**55,976**	

APPENDIX G
Economic Model

TABLE 1

HOPE BAY PROJECT - DORIS NORTH								
LIFE-OF-MINE PLAN			*2003*	*2004*	*2005*	*2006*	*2007*	*TOTAL*
SUMMARY RESULTS:								
Cash Operating Cost per Ounce	**$Cdn**		$ -	$ 212	$ 197	$ 154	$ -	$ 179
	$US		$ -	$ 135	$ 126	$ 98	$ -	$ 114
All-in Cash Operating Cost per Oz	**$Cdn**		$ -	$ 1,218	$ 203	$ 142	$ -	$ 277
	$US		$ -	$ 776	$ 129	$ 91	$ -	$ 177
Direct Operating Cost Per Tonne	**$Cdn**		$ -	$ 67	$ 107	$ 139	$ -	$ 105
	$US		$ -	$ 43	$ 68	$ 88	$ -	$ 67
MINE PRODUCTION								
Doris Hinge - North	Tonnes		-	119,100	219,000	124,500	-	462600
Ore Milled	Tonnes		-	55,200	219,000	197,400	-	471600
Grade	gpt		-	14.00	18.46	19.74	-	18.48
Recovery	%		0.0%	97.0%	97.0%	97.0%	0.0%	97.0%
Total Gold Recovered	**Oz**		-	**24,103**	**126,105**	**121,516**	-	**271,724**
Market Prices:								
Gold (Spot) $US		$280	280.00	280.00	280.00	280.00	280.00	280.00
Exchange Rate $US:$C		1.570	0.637	0.637	0.637	0.637	0.637	0.64
Sales Revenues:								
Gold (Spot)	$Cdn		-	10,595,788	55,435,580	53,418,615	-	119,449,983
Total Sales Revenue:	$Cdn		-	10,595,788	55,435,580	53,418,615	-	119,449,983
Cost of Goods Sold								
Mine Operations	$Cdn		-	4,916,347	10,826,895	6,225,799	-	21,969,040
Processing Operations			-	2,017,103	8,066,554	7,294,367	-	17,378,024
Surface Maintenance			-	45,100	180,400	165,367	-	390,867
Administration			-	970,186	4,374,014	3,612,763	-	8,956,962
Royalties		1.8%	-	190,724	997,840	961,535	-	2,150,100
Other / Amortization			313,731	4,071,945	11,639,647	11,476,646	(833,322)	26,668,646
Total Property Costs			313,731	12,211,405	36,085,350	29,736,475	(833,322)	77,513,639
Net Income	$Cdn		(313,731)	(1,615,617)	19,350,230	23,682,140	833,322	41,936,344
CASH FLOW								
Net Income	$Cdn		(313,731)	(1,615,617)	19,350,230	23,682,140	833,322	41,936,344
Non-cash			313,731	3,421,945	11,639,647	11,309,967	-	26,685,290
PP&E Capital			(3,119,000)	(21,400,590)	(2,165,700)	-	-	(26,685,290)
Reclamation/Cash Bonds			-	(1,150,000)	-	-	4,000,000	2,850,000
NET CASH FLOW	**$Cdn**		**(3,119,000)**	**(20,744,262)**	**28,824,176**	**34,992,107**	**4,833,322**	**44,786,344**
CUMULATIVE NET CASH	$Cdn		(3,119,000)	(23,863,262)	4,960,914	39,953,022	44,786,344	
NET PRESENT VALUE			(3,004,304)	(19,439,200)	25,657,307	30,114,096	3,886,802	37,214,701
CUMULATIVE NPV		5.0%	(3,004,304)	(22,443,503)	3,213,803	33,327,899	37,214,701	
IRR		85.2%						

TABLE 2

HOPE BAY PROJECT - DORIS NORTH							
LIFE-OF-MINE PLAN		*2003*	*2004*	*2005*	*2006*	*2007*	*TOTAL*
PRODUCTION - Doris Hinge North							
Room & Pillar	33 Total		119,100	219,000	124,500	-	462,600
Total Ore Tonnes Mined			119,100	219,000	124,500	-	462,600
PRODUCTION GRADE							
Doris Hinge North	gpt		14.497	19.900	19.831	0.000	18.490
CONTAINED OUNCES MINED							
Doris Hinge North							
Longhole	33 Total		55,511	140,116	79,377	-	275,004
Total Contained Oz Mined			55,511	140,116	79,377	-	275,004
MILL PROCESSING							
TOTAL ORE PROCESSED	Tonnes		55,200	219,000	197,400	-	471,600
Grade	gpt		14.00	18.46	19.74	-	18.48
Contained ounces			24,849	130,005	125,275	-	280,128
Recovery %			97.0%	97.0%	97.0%	0.0%	97.0%
Recovered ounces			24,103	126,105	121,516	-	271,724
TOTAL GOLD PRODUCED			24,103	126,105	121,516	-	271,724
TOTAL SILVER PRODUCED	0%		-	-	-	-	-

TABLE 3

HOPE BAY PROJECT - DORIS NORTH							
LIFE-OF-MINE PLAN		*2003*	*2004*	*2005*	*2006*	*2007*	*TOTAL*
CAPITAL							
Process Plant							
Direct Field Cost	8687290	-	8,687,290	-	-		8,687,290
Sprung Structure	1957676.948	-	1,957,677	-	-		1,957,677
Indirects	2233390.59	-	2,233,391	-	-		2,233,391
Contingencies etc.	3078241.57	-	3,078,242	-	-		3,078,242
Site Prep & Open Pit Mining							
Contractor Mob/Demob	2138400	1,425,600	-	712,800	-		2,138,400
Contractor Standby Charges	315000	180,000	135,000				315,000
Site Prep	2231200	-	2,231,200	-	-		2,231,200
Underground							
Contractor Mob/Demob	308280	-	308,280	-	-		308,280
Hinge Portal	39600	-	39,600	-	-		39,600
Hinge Development	681000	-	454,000	227,000	-		681,000
Lakeshore Development	1037500	-	-	1,037,500	-		1,037,500
Miscellaneous							
Surface Equipment	750000	-	750,000	-	-		750,000
Site Evaluation & Eng.	250000	250,000					250,000
Fuel Farm Lease-Purchase	565200	188,400	188,400	188,400	-		565,200
Move Boston Camp	100000	-	100,000	-	-		100,000
New Kitchen	75000	75,000	-	-	-		75,000
Computer Hardware/Software	1000000	1,000,000	-	-	-		1,000,000
Start up Labour & Misc G&A	1237510.76	-	1,237,511	-	-		1,237,511
SUBTOTAL CAPITAL PP&E		3,119,000	21,400,590	2,165,700	-	-	26,685,290
CAPITALIZED DEVELOPMENT							
Deferred development		-	3,107,250	-	-	-	3,107,250
		-	-	-	-	-	-
Subtotal		-	3,107,250	-	-	-	3,107,250
SUBTOTAL CAPITALIZED DEVEL		-	3,107,250	-	-	-	3,107,250
TOTAL CAPITAL		3,119,000	24,507,840	2,165,700	-	-	29,792,540

TABLE 4

HOPE BAY PROJECT - DORIS NORTH				
LIFE-OF-MINE PLAN	*2004*	*2005*	*2006*	*TOTAL*
OPERATING COSTS				
MINE SERVICES				
Engineering	42,583	255,430	167,867	465,880
Geology - Production	38,832	232,927	152,998	424,757
Geology - Drilling	19,739	118,113	67,146	204,998
Administration Underground	24,618	147,666	96,994	269,278
Underground Services	2,000	12,000	8,000	22,000
Trucking	63,318	378,870	215,385	657,573
Power (dewatering, misc)	45,005	269,410	157,461	471,876
UG Ventilation	5,000	30,000	20,000	55,000
Electric Power	45,005	269,410	157,461	471,876
OPEN PIT MINE PRODUCTION	3,107,250	-	-	3,107,250
MINE PRODUCTION				
Room & Pillar	1,519,998	9,095,070	5,170,485	15,785,553
UG Electrical	3,000	18,000	12,000	33,000
PROCESSING				
Mill Administration	499,241	1,996,962	1,830,549	4,326,751
Surface Loader	137,457	547,347	497,121	1,181,925
Maintenance	358,805	1,431,112	1,304,204	3,094,121
Electric Power	593,213	2,356,633	2,130,060	5,079,906
Grinding Balls	76,838	304,848	274,781	656,467
Liners	37,808	150,000	135,205	323,014
Solutions & Reagent	292	1,169	1,072	2,533
Cyanide	151,193	599,841	540,679	1,291,712
Caustic	20,402	80,942	72,959	174,303
Copper Sulphate	14,330	56,852	51,245	122,427
Frother	18,282	72,533	65,379	156,194
Promoter - 3418A	5,492	21,789	19,640	46,922
Collector - PAX	22,098	87,670	79,023	188,791
Hydrogen Peroxide	9,837	39,026	35,177	84,039
Sulphuric Acid	10,839	43,001	38,759	92,599
Refinery	9,832	39,098	35,413	84,342
Assay	51,145	237,730	183,102	471,977
GENERAL & ADMIN				
Plant Buildings	13,075	52,300	47,942	113,317
Diesel	32,025	128,100	117,425	277,550
General & Administration	45,150	180,600	165,550	391,300
Camp food costs	210,588	835,485	764,526	1,810,599
Employee transport	199,746	1,195,200	679,463	2,074,409
Outside refining	84,361	441,366	425,307	951,035
Insurance	87,500	350,000	320,833	758,333
Accounting/IS/Materials	211,072	844,286	773,929	1,829,286
Safety/Security/Enviro	131,769	527,077	483,154	1,142,000
TOTAL DIRECT COSTS	**7,948,736**	**23,447,863**	**17,298,295**	**48,694,894**

*Base case

TABLE 5: MARKET PRICE AND EXCHANGE RATE
NET CASH FLOW (undiscounted)

		Exchange Rate					
		1.530	1.550	1.570	1.590	1.610	1.630
	$ 250	29,550,167	30,884,333	32,218,499	33,552,665	34,886,831	36,220,997
	$ 260	33,632,715	35,020,248	36,407,781	37,795,313	39,182,846	40,570,379
Market	$ 270	37,715,263	39,156,163	40,597,062	42,037,962	43,478,861	44,919,760
Price	$ 280	41,797,812	43,292,078	44,786,344	46,280,610	47,774,876	49,269,142
$US	$ 290	45,880,360	47,427,993	48,975,625	50,523,258	52,070,891	53,618,523
	$ 300	49,962,908	51,563,907	53,164,907	54,765,906	56,366,905	57,967,905
	$ 310	54,045,456	55,699,822	57,354,188	59,008,554	60,662,920	62,317,286

TABLE 6: GRADE AND RECOVERY
NET CASH FLOW (undiscounted)

		RECOVERY					
		0.930	0.940	0.950	0.960	0.970	0.980
	-15%	23,561,877	24,584,720	25,607,562	26,630,405	27,653,248	28,676,091
	-10%	29,037,402	30,119,122	31,200,841	32,282,560	33,364,280	34,445,999
Grade	-5%	34,512,928	35,653,524	36,794,120	37,934,716	39,075,312	40,215,908
% increase/	0%	39,988,453	41,187,926	42,387,398	43,586,871	44,786,344	45,985,816
(decrease)	5%	45,463,978	46,722,328	47,980,677	49,239,026	50,497,376	51,755,725
	10%	50,939,504	52,256,730	53,573,956	54,891,182	56,208,407	57,525,633
	15%	56,415,029	57,791,132	59,167,234	60,543,337	61,919,439	63,295,542

TABLE 7: OPERATING AND CAPITAL COSTS
NET CASH FLOW (undiscounted)

		OPERATING COSTS % increase / (decrease)					
		-10%	-5%	0.000	5%	10%	15%
	-15%	53,611,377	51,176,632	48,741,887	46,307,142	43,872,398	41,437,653
	-10%	52,292,862	49,858,117	47,423,373	44,988,628	42,553,883	40,119,139
CAPITAL	-5%	50,974,348	48,539,603	46,104,858	43,670,113	41,235,369	38,800,624
% increase/	0%	49,655,833	47,221,088	44,786,344	42,351,599	39,916,854	37,482,110
(decrease)	5%	48,337,319	45,902,574	43,467,829	41,033,085	38,598,340	36,163,595
	10%	47,018,804	44,584,059	42,149,315	39,714,570	37,279,825	34,845,081
	15%	45,700,290	43,265,545	40,830,800	38,396,056	35,961,311	33,526,566

APPENDIX H
Certificates of Consent

CERTIFICATE AND CONSENT

To Accompany the Hope Bay Project –Preliminary Assessment, Doris North Trial Operation, Nunavut, Canada

I, **Christopher H. Page**, residing at 102 Deep Dene Road, North Vancouver, British Columbia do hereby certify that:

1) I am a Corporate Consultant with the firm of Steffen Robertson and Kirsten (Canada) Inc. (SRK) with an office at Suite 800, 580 Hornby Street, Vancouver, CANADA

2) I am a graduate of the University of Leeds with a BSc. in Mining Engineering in 1967, Ph.D from Leeds University in 1971, and have practiced my profession continuously since 1971.

3) I am a member of the CIM; and a Professional Engineer registered with the Association of Professional Engineers and Geoscientists of the province of British Columbia, North West Territories and Ontario.

4) I have not received, nor do I expect to receive, any interest, directly or indirectly, in the Hope Bay Project or securities of the Hope Bay Joint Venture (HBJV) partners.

5) I am not aware of any material fact or material change with respect to the subject matter of the technical report, which is not reflected in the technical report, the omission to disclose which makes the technical report misleading.

6) I, as a qualified person, am independent of the issuer as defined in Section 1.5 of National Instrument 43-101.

7) I have not had any prior involvement with the property that is subject to the technical report.

8) I have read National Instrument 43-101 and Form 43-101F1 and the technical report (a preliminary assessment) has been prepared in compliance with this Instrument and Form 43-101F1.

9) Steffen Robertson and Kirsten (Canada) Inc. was retained by HBJV to prepare a preliminary assessment report on the Hope Bay Project in accordance with National Instrument 43-101. The following report is based on SRK's review of existing project files prepared for or by HBJV, estimates of mineral resources prepared by HBJV, estimates of mining manpower, mining costs, and production schedule prepared by contractor Nuna Logistics, and in-house data and estimates prepared by SRK Consulting. I have not personally visited the project site.

10) I have reviewed the report. I am qualified to report on the mining sections of the report, but not with respect to the resources.

11) I hereby consent to use of this report and our name in the preparation of a prospectus for submission to any Provincial regulatory authority.

C. H. Page

Vancouver, BC, Canada
February 5, 2002

Christopher H. Page, P.Eng.
Corporate Consultant

CERTIFICATE AND CONSENT

To Accompany the Hope Bay Project –Preliminary Assessment, Doris North Trial Operation, Nunavut, Canada

I, **Ken S. Reipas**, residing at 43 Deverell Street, Whitby, Ontario do hereby certify that:

1) I am a Principal Mining Engineer with the firm of Steffen Robertson and Kirsten (Canada) Inc. (SRK) with an office at Suite 602, 357 Bay Street, Toronto, CANADA,

2) I am a graduate of Queen's University with a B.Sc. in Mining Engineering 1981, and have practiced my profession continuously since 1981,

3) I am a Professional Engineer registered with the Association of Professional Engineers of Ontario,

4) I have not received, nor do I expect to receive, any interest, directly or indirectly, in the Hope Bay Project or securities of the Hope Bay Joint Venture (HBJV) partners.

5) I am not aware of any material fact or material change with respect to the subject matter of the technical report, which is not reflected in the technical report, the omission to disclose which makes the technical report misleading.

6) I, as a qualified person, am independent of the issuer as defined in Section 1.5 of National Instrument 43-101.

7) I have not had any prior involvement with the property that is subject to the technical report.

8) I have read National Instrument 43-101 and Form 43-101F1 and the technical report (a preliminary assessment) has been prepared in compliance with this Instrument and Form 43-101F1.

9) Steffen Robertson and Kirsten (Canada) Inc. was retained by HBJV to prepare a preliminary assessment report on the Hope Bay Project in accordance with National Instrument 43-101. The following report is based on SRK's review of existing project files prepared for or by HBJV, estimates of mineral resources prepared by HBJV, estimates of mining manpower, mining costs, and production schedule prepared by contractor Nuna Logistics, and in-house data and estimates prepared by SRK Consulting. I have not personally visited the project site.

10) I was a co-author of sections 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, and 15.7 of the report.

11) I hereby consent to use of this report and our name in the preparation of a prospectus for submission to any Provincial regulatory authority.

LICENSED PROFESSIONAL ENGINEER
K. S. REIPAS
PROVINCE OF ONTARIO

Toronto, Canada
February 4, 2002

Ken S. Reipas, P. Eng.
Principal Mining Engineer

CERTIFICATE AND CONSENT

To Accompany the Hope Bay Project –Preliminary Assessment, Doris North Trial Operation, Nunavut, Canada

I, **E. Maritz Rykaart**, residing at 15321-28 A Avenue, Surrey, British Columbia do hereby certify that:

1) I am a Senior Geo-Environmental Engineer with the firm of Steffen Robertson and Kirsten (Canada) Inc. (SRK) with an office at Suite 800, 580 Hornby Street, Vancouver, CANADA

2) I am a graduate of the Rand Afrikaans University with a B.Eng. in Civil Engineering in 1991, a M.Eng. in Civil Engineering in 1993 and a Ph.D from the University of Saskatchewan in 2001, and have practiced my profession continuously since 1993.

3) I am a Professional Engineer registered with the Engineering Council of South Africa, and a Engineer-in-Training with the Association of Professional Engineers and Geoscientists of Saskatchewan.

4) I have not received, nor do I expect to receive, any interest, directly or indirectly, in the Hope Bay Project or securities of the Hope Bay Joint Venture (HBJV) partners.

5) I am not aware of any material fact or material change with respect to the subject matter of the technical report, which is not reflected in the technical report, the omission to disclose which makes the technical report misleading.

6) I, as a qualified person, am independent of the issuer as defined in Section 1.5 of National Instrument 43-101.

7) I have not had any prior involvement with the property that is subject to the technical report.

8) I have read National Instrument 43-101 and Form 43-101F1 and the technical report (a preliminary assessment) has been prepared in compliance with this Instrument and Form 43-101F1.

9) Steffen Robertson and Kirsten (Canada) Inc. was retained by HBJV to prepare a preliminary assessment report on the Hope Bay Project in accordance with National Instrument 43-101. The following report is based on SRK's review of existing project files prepared for or by HBJV, estimates of mineral resources prepared by HBJV, estimates of mining manpower, mining costs, and production schedule prepared by contractor Nuna Logistics, and in-house data and estimates prepared by SRK Consulting. I have not personally visited the project site.

10) I was co-author of sections 3.1, 3.5, 3.6, 3.8, 3.9, 3.10, 3.11, 3.12, 3.13, 3.14, and 3.15 of this report.

11) I hereby consent to use of this report and our name in the preparation of a prospectus for submission to any Provincial regulatory authority.

Vancouver, BC, Canada
February 6, 2002

E. Maritz Rykaart, Ph.D.
Senior Geo-Environmental Engineer