

# Miramar Mining Corporation Hope Bay Gold Corporation Inc.



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MAE - TSE MAENF-OTC Bulletin Board HGC - TSE

### Miramar Mining & Hope Bay Gold announce Drill Results for Hope Bay Project - Near surface, high grade mineralization confirmed at Doris North -

VANCOUVER - Miramar Mining Corporation (MAE-TSE) today announced the completion of the in fill drill program at Doris North and an update on related feasibility work at the Hope Bay project in Nunavut, Canada.

"Results from the in fill drill program have confirmed the presence of a significant, near surface high grade mineralization at Doris North," said Tony Walsh, Miramar's President & CEO. "While there have been some changes from our original interpretation as a result of the new, very close spaced drill holes, we remain confident that the Doris North project will deliver a robust, low capital cost, high return gold project that should generate significant cash flow as outlined in our Preliminary Assessment."

#### In fill Drilling Highlights

Hole ID	Area	Section	Vein	From (m)	To (m)	Length (m)	Gold (g/t)	Capped* Gold (g/t)
D-517	North	15735.7	Hinge	64.5	67.6	3.1	500.1	164.7
D-525	North	15715	Hinge	53.3	59.9	6.6	92.1	60.8
D-516	North	15608.6	Hinge	45.7	55.7	10.0	38.3	38.3
D-498	Centre	15537.65	Hinge	67.3	73.1	5.8	115.9	76.5
D-484	Centre	15525.0	Hinge	62.2	66.2	4.0	101.9	101.9
D-415	Centre	15500.63	Hinge	61.7	68.1	6.4	122.1	76.6
D-459	Centre	15487.58	Central	79.6	82.7	3.1	143.7	133.6
D-429	Centre	15435.97	Central	90.8	92.9	2.1	216.1	165.9
D-445	South	15261.98	Hinge	17.0	25.6	8.6	51.4	51.4

<sup>\*</sup> Capped at an arbitrary 200 g/t Au, final capping levels will be determined later

The Doris North mineralization consists of an anticlinal fold (Hinge) with a generally narrow but very high grade western limb (Central Vein) and wider but more moderate grade eastern limb (the Lakeshore Vein). Complete drill results are detailed in tables attached hereto.

#### **Doris North Program**

During March through May 2002, approximately 140 drill holes were completed at Doris North as part of the work required to complete a feasibility study on this area. Drilling was spaced to result in a 10m by 12.5m grid to allow detailed mine planning, with some additional holes to generate samples for metallurgical testing. In addition, two lines 12.5m apart comprising four holes on 3m spacing were drilled to test continuity and to provide data for geostatistical purposes. These drill results are being incorporated into a new resource model that is expected to be completed in the summer of 2002.

This drill program was designed to improve the understanding of the deposit, to allow for optimized mine design, and to test for grade and structural continuity. Drill results show consistently elevated gold values with only five of 140 drill holes returning no significant intercepts. Overall results confirmed the high grade nature of the Doris North mineralization, and that the mineralization, while complicated by folding, has good continuity. While a more selective approach to mining will likely be utilized to preserve the high grades, the majority of the mineralization should be conducive to productive mechanized mining methods. Drill results indicate that the mineralization at Doris North is narrower but higher grade than previously interpreted from wider spaced drilling, and that there could be a small reduction in overall contained ounces. The results of the in fill drilling varied by area, as described below.

- In the northern section of Doris North, which is classified as an inferred mineral resource based on a limited amount of wide spaced drilling, results showed consistently high grade gold values over narrow to moderate widths and displays good continuity. The results from this area exceed Miramar's expectations.
- ❖ In the centre section of Doris North, the fold was generally found to be tighter than previously interpreted and, as a result, the hinge portion of the fold thinner. This is expected to result in less tonnes than previously interpreted. However, grades have generally exceeded expectations over these narrower widths, offsetting some of the potential ounce loss, and continuity remains good.
- In the southern area, where a small open pit was contemplated in the Study, the results indicate that the mineralization is narrower than anticipated. As a result, the higher grade portions of mineralization may be extracted by selective underground mining methods. Most of the potential tonnage losses in this area will be of lower grade material and their elimination would have a minimal impact on the project economics.

As a result of the higher grade, narrower mineralization encountered, more selective mining methods are being considered for the limbs (Central and Lakeshore veins) and more mechanized approaches such as long hole or mechanized cut and fill for the Hinge and wider mineralized areas. After taking into consideration the changes in the mineralization and mining methods, the project economics are anticipated to remain robust.

#### Feasibility Study

This drilling was undertaken as part of the work required to advance the Doris North area through to completion of a feasibility study as a result of a positive preliminary assessment (the "Study"), the results of which were announced on February 8, 2002. The Study established some potentially attractive base case economics: production of 270,000 ounces of gold over a 2.1-year period at a cash cost of US\$114 per ounce, and an 85% rate of return at a US\$280 gold price.

Other activities related to the completion of the feasibility study currently in progress include revised resource estimates, mine planning and metallurgical test work. In support of these activities, metallurgical samples have been collected from quarter and half core and will be delivered to Bateman Engineering in Australia to facilitate detailed metallurgical testing for process design criteria and equipment selection. The feasibility study is anticipated to be completed by the end of 2002. Permitting activities were commenced in March 2002 with the filing of a preliminary project description with the Nunavut Impact Review Board and the Nunavut Water Board.

Provided that the feasibility study is positive, and permits and financing are obtained in a timely manner, major equipment would be shipped to site in the summer of 2004 and production is targeted to commence by the end of 2004.

#### Hope Bay Project

Miramar Mining Corporation, through its wholly owned subsidiary Miramar Hope Bay Ltd., and Hope Bay Gold Corporation Inc. are in a 50-50 joint venture at Hope Bay and control virtually the entire 80km long Hope Bay Archean greenstone belt. As announced on January 15, 2002, the Hope Bay project has measured and indicated resources of 3.36 million tonnes grading 15.4 g/t gold for a contained 1.66 million ounces, plus an additional 6.7 million tonnes grading 12.3 g/t gold, for an additional contained 2.65 million ounces of gold.

On May 21, Hope Bay Gold's shareholders voted overwhelmingly in favour of a statutory amalgamation with a wholly owned Miramar subsidiary. As reported on May 22, the transaction is anticipated to close by the end of the week.

#### Quality Assurance/Quality Control

This information is reported under an extensive quality control program supervised by Dean McDonald, P.Geo. Ph.D., Exploration Manager with Miramar Mining Corporation, who is an appropriately qualified person as defined by National Instrument 43-101.

#### Additional Information

A map locating the drill holes described herein and detailed tables of drill results are attached to this news release. If you are missing the map or table, please download this news release from Miramar's or Hope Bay Gold's websites at <a href="http://www.miramarmining.com/">http://www.hbgold.com/</a>, to which they are attached, or contact us at the numbers listed below. All other information previously released on the Hope Bay Project, including the recently announced resource estimates, are also available on these websites.

#### **Forward Looking Statements**

Statements relating to the feasibility study and proposed development of Doris North and potential costs and results of the development of Doris North planned work at Doris North and elsewhere at the Hope Bay project and the expected results of this work, and the anticipated closing of the merger wit Hope Bay Gold are forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995. Information inferred from the interpretation of drilling results and information concerning mineral resource estimates may also be deemed to be forward looking statements, as it constitutes a prediction of what might be found to be present when and if a project is actually developed. These forward-looking statements are subject to a variety of risks and uncertainties which could cause actual events or results to differ materially from those reflected in the forward-looking statements, including, without limitation: changes in planned work resulting from interim results, weather, logistical, technical or other factors or unforeseen developments; the results of work not fulfilling expectations and not realizing perceived potential; uncertainties involved in the interpretation of drilling results and other tests; that additional work may not support a feasibility study; that capital and operating costs may be higher than currently estimated and may preclude commercial development; accidents, equipment breakdowns and labour disputes or other unanticipated difficulties or interruptions; uncertainties about the availability of financing as and when it is needed; the possibility of cost overruns or unanticipated expenses in the work program, the possibility that the merger with Hope Bay may not be closed in a timely manner or at all, and other risks and uncertainties, including those described in the Miramar's Annual Report on Form 20-F for the year ended December 31, 2000 and Reports on Form 6-K filed with the Securities and Exchange Commission and Hope Bay Gold's Annual Information Form ("AIF") filed with the Ontario Securities Commission, the Quebec Securities Commission, and other regulatory authorities, respectively.

This news release has been authorized by the undersigned on behalf of Miramar Mining Corporation and Hope Bay Gold Corporation Inc., respectively.

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## <u>Hope Bay Project – In fill Drill Results 2002</u> (Arranged in order from north to south)

Hole ID	Section #	Area	Section	Vein	From (m)	To (m)	Length (m)	Gold (g/t)	Capped* Gold (g/t)
D-435	15825 DP	North	15809.28	Lakeshore	107.4	107.7	0.3	20.4	20.4
D-505	15812.5 DP	North	15799.8	Central	88.8	89.3	0.5	53.1	53.1
D-505	15812.5 DP	North	15799.8	Lakeshore	109.0	110.4	1.4	32.8	32.8
D-434	15800 DP	North	15795.76	Central	91.2	91.5	0.4	535.1	200.0
D-434	15800 DP	North	15795.76	Lakeshore	112.8	113.3	0.5	33.0	33.0
D-504	15788.5 DP	North	15783.2	Central	94.0	94.9	0.9	218.0	155.0
D-504	15788.5 DP	North	15783.2	Lakeshore	112.6	114.4	1.8	14.8	14.8
D-495	15850 DP	North	15781.42	No significa	nt Interce	ept			
D-543	15812.5 DP	North	15763.8	Central	55.5	57.3	1.8	197.8	107.6
D-467	15775 DP	North	15755.6	Central	62.9	64.0	1.3	25.5	25.5
D-467	15775 DP	North	15755.6	Lakeshore	82.9	86.0	3.1	25.1	25.1
D-518	15800 DP	North	15753.5	Hinge	50.4	55.2	4.8	45.2	45.2
D-466	15762.5 DP	North	15752.4	Central	82.3	82.7	0.4	37.6	37.6
D-466	15762.5 DP	North	15752.4	Lakeshore	105.3	108.2	2.8	159.1	56.7
D-468	15762.5 DP	North	15752.4	Central	81.6	82.4	0.8	6.9	6.9
D-468	15762.5 DP	North	15752.4	Lakeshore	92.0	93.2	1.2	9.4	9.4
D-527	15750 DP	North	15748.4	Central	90.1	92.8	2.7	8.1	8.1
D-527	15750 DP	North	15748.4	Lakeshore	103.7	104.7	0.9	8.1	8.1
D-432	15800 DP	North	15747.67	Hinge	74.8	79.4	4.5	129.3	50.9
D-433	15750 DP	North	15746.48	Central	97.1	97.5	0.4	16.7	16.7
D-433	15750 DP	North	15746.48	Lakeshore	118.2	120.9	2.6	34.5	34.5
D-526	15737.5P	North	15736.9	Assays Pena					
D-517	15788.5P	North	15735.7	Hinge	64.5	67.6	3.1	500.1	164.7
D-436	15725 DP	North	15728.39	Central	86.6	90.0	3.5	12.5	12.5
D-436	15725 DP	North	15728.39	Lakeshore	109.2	112.6	3.3	91.6	64.0
D-431	15775 DP	North	15728.08	Lakeshore	70.2	76.4	6.2	19.3	19.3
D-525	15762.5 DP	North	15715	Hinge	53.3	59.9	6.6	92.1	60.8
D-469	15712.5P	North	15713.8	Assays Pend			-5.5		
D-506	15775 DP	North	15712	No significa		ept			
D-430	15750 DP	North	15708.15	Hinge	51.5	58.8	7.3	19.1	19.1
D-507	15700 DP	North	15701.8	Central	80.0	80.9	0.9	153.2	153.2
D-507	15700 DP	North	15701.8	Lakeshore	100.9	105.9	5.0	36.6	36.6
D-508	15700 DP	North	15701.8	Central	77.0	77.9	1.0	98.8	98.8
D-508	15700 DP	North	15701.8	Lakeshore	90.1	91.2	1.1	26.3	26.3
D-462	15737.5 DP	North	15695.2	Hinge	50.5	60.1	9.6	26.1	24.4
D-545	15687.5 DP	North	15688.2	Assays Pena					
D-490	15725 DP	North	15685.12	Hinge	55.8	60.1	4.3	73.3	71.0
D-437	15675 DP	North	15685.00	Lakeshore	109.0	114.0	5.0	11.9	11.9
D-463	15725 DP	North	15675.4	Hinge	76.3	79.6	3.3	27.7	27.7
D-464	15712.5 DP	North	15671.4	Hinge	53.8	63.7	9.9	9.6	9.6
D-541	15662.5 DP	North	15668.6	Central	83.0	84.1	1.1	8.4	8.4
D-541	15662.5 DP	North	15668.6	Lakeshore	98.3	103.3	5.0	47.8	47.8
D-491	15700 DP	North	15663.93	Hinge	51.4	54.9	3.5	92.5	35.1
D-438	15650 DP	North	15658.45	Central	79.9	80.9	1.0	24.1	24.1
D-438	15650 DP	North	15658.45	Lakeshore	95.8	100.7	4.9	24.3	24.3
D-529	15700 DP	North	15649.5	Hinge	54.3	58.1	3.8	31.4	31.4

Hole ID	Section #	Area	Section	Vein	From	То	Length	Gold	Capped*
D 520	15(75 DD	NT	15(42.4	77.	(m)	(m)	(m)	(g/t)	Gold (g/t)
D-528	15675 DP	North	15643.4	Hinge	49.6	52.4	2.8	17.8	17.8
D-514	15662.5P	North	15631.6	Lakeshore	49.4	53.6	4.2	8.2	8.2
D-509	15612.5P	North	15622.4	Central	89.4	90.0	0.6	267.8	200.0
D-509	15612.5P	North	15622.4	Lakeshore	101.9	102.4	0.4	7.0	7.0
D-493	15650 DP	North	15619.30	Hinge	52.2	57.6	5.3	37.0	37.0
D-515	15650 DP	North	15613	Lakeshore	61.8	66.9	5.1	22.8	22.8
D-439	15600 DP	North	15609.28	Central	90.3	91.0	0.7	21.3	21.3
D-516	15637.5 DP	North	15608.6	Hinge	45.7	55.7	10.0	38.3	38.3
D-494	15625 DP	North	15598.76	No significa	_	ept			
D-519	15600 DP	North	15591	Assays Pena		60.0	2.6	27.2	27.2
D-540	15625 DP	North	15585	Lakeshore	67.3	69.9	2.6	27.2	27.2
D-544	15612.5 DP	North	15579.4	Lakeshore	70.6	71.7	1.1	2.3	2.3
D-492	15600 DP	North	15569.88	Hinge	46.5	49.2	2.7	9.8	9.8
D-496	15562.5 DP	North	15562.5	Hinge	54.6	63.0	8.4	8.4	8.4
D-542	15600 DP	North	15557.8	No significa					
D-483	15550	Centre	15550.0	Central	73.9	77.1	3.2	12.9	12.9
D-483	15550	Centre	15550.0	Lakeshore	104.6	109.1	4.4	7.1	7.1
D-497	15550	Centre	15550.00	Hinge	60.2	66.4	6.2	17.9	17.9
D-498	15537.5	Centre	15537.65	Hinge	67.3	73.1	5.8	115.9	76.5
D-499	15537.5	Centre	15537.63	Hinge	66.2	73.7	7.5	6.9	6.9
D-482	15537.5	Centre	15537.5	No significa					
D-482A	15537.5	Centre	15537.5	Central	70.9	72.5	1.6	31.4	31.4
D-482A	15537.5	Centre	15537.5	Lakeshore	109.9	115.2	5.3	5.0	5.0
D-523	15537.5	Centre	15537.5	Central	49.0	55.0	6.0	44.7	44.7
D-484	15525	Centre	15525.0	Hinge	62.2	66.2	4.0	101.9	101.9
D-417	15512.5	Centre	15512.88	Hinge	65.5	68.7	3.2	68.7	68.7
D-475	15512.5	Centre	15512.5	Central	83.2	84.4	1.3	637.7	200.0
D-475	15512.5	Centre	15512.5	Lakeshore	116.5	120.1	3.6	6.2	6.2
D-476	15512.5	Centre	15512.5	Central	72.8	76.2	3.4	45.0	45.0
D-476	15512.5	Centre	15512.5	Lakeshore	100.5	104.0	3.6	5.6	5.6
D-418	15512.5	Centre	15512.10	Hinge	62.2	65.9	3.7	9.5	9.5
D-416	15500	Centre	15501.24	Hinge	62.0	68.7	6.7	10.0	10.0
D-415	15500	Centre	15500.63	Hinge	61.7	68.1	6.4	122.1	76.6
D-461	15500	Centre	15500.0	Central	76.8	78.9	2.1	131.9	131.9
D-461	15500	Centre	15500.0	Lakeshore	112.8	117.7	5.0	5.8	5.8
D-460	15487.5	Centre	15487.62	Central	58.6	62.7	4.1	73.1	73.1
D-459	15487.5	Centre	15487.58	Central	79.6	82.7	3.1	143.7	133.6
D-459	15487.5	Centre	15487.58	Lakeshore	107.1	108.9	1.8	4.8	4.8
D-419	15487.5	Centre	15487.5	Hinge	51.9	56.2	4.3	71.2	31.5
D-521	15487.5	Centre	15487.5	Central	76.4	76.8	0.4	125.9	125.9
D-522	15487.5	Centre	15487.5	Hinge	59.3	66.1	6.8	33.9	33.9
D-420	15487.5	Centre	15485.86	Hinge	59.9	64.0	4.1	48.5	48.5
D-458	15462.5	Centre	15462.61	Central	88.8	90.8	2.0	112.3	112.3
D-458	15462.5	Centre	15462.61	Lakeshore	114.5	129.4	14.8	5.0	5.0
D-520	15462.5	Centre	15462.5	Central	72.4	73.9	1.5	82.3	82.3
D-320 D-422	15462.5	Centre	15462.25	Hinge	51.2	55.7	4.5	34.8	34.8
D-421	15462.5	Centre	15461.78	Hinge	65.7	77.7	12.0	1.7	1.7
D-421 D-423	15450	Centre	15449.60	Central	68.8	70.7	2.0	67.8	67.8
	15450	Centre	15449.58	Lakeshore	75.7	79.3	3.6	3.1	3.1
D-474 D-473	15437.5	Centre	15437.94	Hinge	68.0	78.8	10.9	5.6	5.6

Hole ID	Section #	Area	Section	Vein	From (m)	To (m)	Length (m)	Gold (g/t)	Capped* Gold (g/t)
D-486	15437.5	Centre	15437.5	Central	44.7	49.6	4.9	20.1	18.0
D-424	15437.5	Centre	15436.98	Central	74.5	75.6	1.0	129.3	110.8
D-429	15437.5	Centre	15435.97	Central	90.8	92.9	2.1	216.1	165.9
D-429	15437.5	Centre	15435.97	Lakeshore	114.6	123.2	8.6	2.0	2.0
D-425	15425	Centre	15424.62	Central	74.5	77.0	2.5	92.2	79.2
D-471	15412.5	Centre	15412.24	Hinge	49.0	61.0	12.1	6.4	6.4
D-428	15412.5	Centre	15412.23	Hinge	49.7	54.1	4.4	16.9	16.9
D-472	15412.5	Centre	15412.22	Hinge	82.0	86.3	4.3	16.4	16.4
D-426	15412.5	Centre	15412.01	Central	78.5	81.5	3.0	55.1	55.
D-427	15412.5	Centre	15412.00	Central	82.5	84.0	1.5	81.2	81.:
D-513	15400	Centre	15400	Assays Pend	_	0 1.0	1.0	01.2	01
D-470	15400	Centre	15399.25	Hinge	72.6	80.0	7.4	8.1	8.
D-457	15387.5	Centre	15388.06	Hinge	73.0	80.3	7.3	2.7	2.
D-456	15387.5	Centre	15388.05	Hinge	64.0	75.0	11.0	11.3	11.3
D-479	15387.5	Centre	15387.5	Central	77.1	80.4	3.3	2.1	2.
D-480	15387.5	Centre	15387.5	Central	70.3	73.7	3.4	68.6	68.
D-487	15387.5	Centre	15387.5	Central	51.2	55.3	4.1	230.9	60.
D-478	15375	Centre	15375.0	Hinge	67.6	77.9	10.3	5.1	5.
D-530	15375	Centre	15375.0	Hinge	48.8	55.8	7.0	45.6	39.
D-531	15375	Centre	15375	Hinge	48.7	55.7	7.0	43.7	43.
D-532	15375	Centre	15375	Hinge	51.6	55.6	4.1	29.7	29.
D-533	15375	Centre	15375	Hinge	49.4	59.3	10.0	29.4	24.
D-537	15375	Centre	15375	Hinge	51.5	62.2	10.7	4.7	4.
D-538	15375	Centre	15375	Hinge	52.1	69.4	17.2	8.3	8.
D-477	15362.5	Centre	15362.5	No significa			17.2	0.5	0.
D-477A	15362.5	Centre	15362.5	No significa					
D-477A	15362.5	Centre	15362.5	Lakeshore	62.8	68.9	6.1	14.4	14.
D-401 D-500	15362.5	Centre	15362.5	Hinge	69.9	80.9	11.0	4.8	4.
D-534	15362.5	Centre	15362.5	Hinge	47.0	59.5	12.5	9.8	9.
D-535	15362.5	Centre	15362.5	Hinge	43.3	55.6	12.3	7.0	7.
D-536	15362.5	Centre	15362.5	Hinge	44.7	56.3	11.7	11.8	11.
D-539	15362.5	Centre	15362.5	Assays Pena	_	50.5	11.7	11.0	11.
D-339 D-489	15350	South	15350.0		43.1	55.4	12.3	6.1	6
D-409 D-501	15337.5	South	15337.5	Hinge Central	56.2	66.2		6.4	6.
D-501	15337.5	South		Lakeshore	85.3		10.0	3.9	3.
D-501 D-502			15337.5		-	96.1	10.8	5.6	5.
	15337.5	South	15337.5	Hinge	36.0	43.3	7.3	13.4	13.
D-503	15337.5	South	15337.5	Hinge	54.1	65.1	11.1	1.1	1.
D-510	15312.5	South	15312.5	Central	66.3	68.7	2.4	29.5	29.
D-511	15312.5	South	15312.5	Lakeshore	62.0	70.8	8.8	4.2	4.
D-454	15312.5	South	15312.46	Hinge	42.0	50.1	8.2	13.1	13.
D-455	15312.5	South	15312.43	Lakeshore	45.0	52.0	7.0	3.1	3.
D-453	15312.5	South	15312.32	Hinge	29.7	39.6	9.9	13.9	13.
D-448	15300	South	15299.07	Hinge	37.8	48.3	10.5	19.3	19.
D-451	15287.5	South	15287.04	Hinge	25.0	33.0	8.0	15.8	15.
D-450	15287.5	South	15287.02	Hinge	24.4	34.1	9.7	12.3	12.
D-452	15287.5	South	15286.51	Lakeshore	37.2	44.0	6.8	4.3	4.
D-449	15275	South	15275.45	Hinge	29.8	38.0	8.2	4.9	4.
D-447	15275	South	15273.63	Hinge	23.0	30.0	7.0	0.6	0.
D-445	15262.5	South	15261.98	Hinge	17.0	25.6	8.6	51.4	51.
D-444	15237.5	South	15236.70	Hinge	5.6	25.1	19.5	4.6	4.

Hole ID	Section #	Area	Section	Vein	From (m)	To (m)	Length (m)	Gold (g/t)	Capped* Gold (g/t)
D-443	15237.5	South	15236.52	Hinge	5.2	13.2	8.0	1.2	1.2
D-442	15225	South	15225.02	Hinge	13.7	19.9	6.2	2.1	2.1
D-441	15212.5	South	15213.03	Hinge	3.4	18.9	15.6	3.6	3.6
D-446	15212.5	South	15212.28	Hinge	17.0	23.0	6.0	3.9	3.9
D-440	15212.5	South	15212.18	Hinge	4.0	11.3	7.3	22.9	22.9

<sup>\*</sup> Capped at an arbitrary 200 g/t Au, final capping levels will be determined later

