

BAFFINLAND IRON MINES CORPORATION  
MARY RIVER PROJECT

MR1-06-110

GEOMECHANICAL DRILLHOLE LOGGING DATA SHEET

White = Calculated      Yellow = User Specified

Project: Mary River Project  
Client: Baffinland Iron Mines Corporation  
Drilling Company: Boart Longyear  
Location: Deposit 1  
Coordinates: 7914093 N, 563114 E

Surface Elevation: 595 m  
1951 ft  
Total Depth: 144.0 m  
472 ft  
Azimuth: 235 deg  
Dip: -50 deg (down is negative)

Drill Type:   
Core Diameter: From   
m to   
m to   
mm   
mm

Drillhole Number: MR1-06-110  
Logged By:   
Reviewed By:   
Date Started:   
Date Completed:

New Run    End of Hole    Verify Data    Delete Rows    Add New Joint

Drill Run Data															Joint Data										RMR89 Drill Run Rating						Rock Quality Index (Q)		Summary																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Rock Type	Depth From	Depth To	Elev From	Elev To	Run Length	Recov. Length	Recov. (%)	RQD Length	RQD (%)	Jn	# of Joints	Joint Set Spac. (mm)	Ravg	UCS (Est.)	Incremental Depth	Depth	Elev.	Alpha	Beta	Joint Condition Rating										Groundwater Rating	Discort Type	Fill. Type 1	Fill. Type 2	Fill. Type 3	Orientation Quality	RMR <sub>89</sub> UCS Rating	RMR <sub>89</sub> RQD Rating	RMR <sub>89</sub> Joint Spac. Rating	RMR <sub>89</sub> Joint Condition Rating	RMR <sub>89</sub> Water Rating	RMR <sub>89</sub> Total	RQD	Q'	RMR <sub>89</sub> Final	Q' Final	RMR (Calc from Q') Final	Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	(m)	(m)			(m)	(m)	(%)	(m)	(%)			(mm)		(MPa)		(m)	(m)	(deg.)	(deg.)	Discort Number	Persis-P	Aper-A	Roughness	JRC	JRC	Jr	Infill I	Ja	Ja Manual	Weath W	Ravg	JCS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

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<b>Core Diameter:</b> From		m to		m
		m to		m

Drillhole Number:	MR1-06-110
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NB102-00181/8-4  
Revision 0  
April 30, 2010

MR1-06-110

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Rock Type	Depth From	Depth To	Elev From	Elev To	Run Length	Recov Length	Recov. (%)	RQD Length	RQD (%)	Jn	# of Joints	Joint Set Spac. (mm)	Ravg	UCS (Est.) (MPa)	Incremental Depth	Depth	Elev.	Alpha (deg.)	Beta (deg.)	Joint Condition Rating											Ground- water Rating	Discont Type	Fill. Type 1	Fill. Type 2	Fill. Type 3	Orientation Quality	RMR <sub>89</sub> UCS Rating	RMR <sub>89</sub> RQD Rating	RMR <sub>89</sub> Joint Spac. Rating	RMR <sub>89</sub> Joint Condition Rating	RMR <sub>89</sub> Water Rating	RMR <sub>89</sub> Total	RQD	Q'	RMR <sub>89</sub> Final	Q' Final	RMR (Calc from Q') Final	Comments			
																				Discont Number	Persis- P	Apert- A	R	JRC    (stk)	JRC ⊥ (dip)	Jr	Infill I	Ja	Ja Manual	Weath W																			Ravg	JCS	
7d(7e)	112.30	116.00	508.7	505.9	3.70	1.30	35.1	0.12	3.2	12	1	40		1	112.30	508.7					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.4	5.5	4.0	15	29	3	0.135	29	0.135	20.987	Hemalized rubble zone
7d(7e)	116.00	118.50	505.9	504.0	2.50	0.90	36.0	0.20	8.0	12	1	70		1	116.00	505.9					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.9	6.0	4.0	15	30	8	0.333	30	0.333	29.112	Hemalized rubble zone
7d(7e)	118.50	121.00	504.0	502.1	2.50	1.70	68.0	0.20	8.0	12	1	30		1	118.50	504.0					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.9	5.4	4.0	15	29	8	0.333	29	0.333	29.112	Hemalized rubble zone
7d(7e)	121.00	126.40	502.1	497.9	5.40	2.30	42.6	0.45	8.3	12	1	50		1	121.00	502.1					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.9	5.7	4.0	15	30	8	0.347	30	0.347	29.480	Hemalized rubble zone
7d(7e)	126.40	132.75	497.9	493.1	6.35	1.30	20.5	0.00	0.0	12	1	10		1	126.40	497.9					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.0	5.1	4.0	15	28	0		28	0.000	#NUM!	Hemalized rubble zone (basically sand)
7d(7e)	132.75	133.38	493.1	492.6	0.63	0.50	79.4	0.00	0.0	12	2	30		1	132.75	493.1					1	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.0	5.4	4.0	15	29	0		29	0.000	#NUM!	Hemalized rubble zone (not quite sand)
															0.20	132.95	492.9			2	>20m	5-10	Smooth			1.0	Soft >5mm	2.00		MW			Dry	Rub	hem				1.1	3.0	5.4	4.0	15	29	0					Hemalized rubble zone (not quite sand)	
7d(7e)	133.38	135.95	492.6	490.6	2.57	2.20	85.6	0.83	32.3	12	4	50	20	40		133.67	492.4			1	>20m	1-5	Smooth	3	3	1.0	None	1.00		SW			Dry	Brok					4.8	7.2	5.7	13.0	15	46	32	2.691	42	0.673	35.434		
															0.13	133.80	492.3			2	>20m	1-5	Smooth	3	4	1.0	None	1.00		SW			Dry	Brok					4.8	7.2	5.7	13.0	15	46	32	2.691					
															0.12	133.79	492.3			3	>20m	1-5	Smooth	4	3	1.0	None	1.00		SW			Dry	Brok					4.8	7.2	5.7	13.0	15	46	32	2.691					
															1.78	135.57	490.9			4	>20m	1-5	Smooth	4	5	1.0	Soft <5mm	4.00		SW			Dry	Brok	cly	ox			4.8	7.2	5.7	9.0	15	42	32	0.673					
7d(7e)	135.95	138.37	490.6	488.8	2.42	2.20	90.9	0.34	14.0	12	4	80	20	40		136.36	490.3			1	>20m	<0.1mm	Smooth	4	1	1.0	None	1.00		SW			Dry	Brok					4.8	4.6	6.1	17.0	15	48	14	1.171	40	0.293	27.943		
															0.06	136.42	490.2			2	>20m	1-5	Smooth	5	3	1.0	Soft <5mm	4.00		SW			Dry	Brok	cly	hem			4.8	4.6	6.1	9.0	15	40	14	0.293					
															0.92	137.34	489.5			3	>20m	1-5	Smooth	4	2	1.0	Soft <5mm	4.00		SW			Dry	Brok	hem				4.8	4.6	6.1	9.0	15	40	14	0.293					
															0.25	137.59	489.3			4	>20m	<0.1mm	Smooth	2	4	1.0	None	1.00		SW			Dry	Brok					4.8	4.6	6.1	17.0	15	48	14	1.171					
7d(7e)	138.37	141.00	488.8	486.7	2.63	2.60	98.9	1.56	59.3	12	11	120	45	200		138.49	488.7			1	>20m	<0.1mm	Smooth	3	5	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	17.0	15	64	59	4.943	60	4.943	53.382		
															0.10	138.59	488.6			2	>20m	0.1-1.0	SL Rough	9	11	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	18.0	15	65	59	4.943					
															0.07	138.66	488.5			3	>20m	<0.1mm	SL Rough	9	6	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	19.0	15	66	59	4.943					
															0.26	138.92	488.3			4	>20m	0.1-1.0	Rough	12	9	1.5	None	1.00		SW			Dry	J					14.1	11.7	6.6	20.0	15	67	59	7.414					
															0.08	139.00	488.3			5	>20m	1-5	Smooth	5	2	1.0	None	1.00		SW			Dry	Un-M					14.1	11.7	6.6	13.0	15	60	59	4.943					
															0.18	139.18	488.1			6	>20m	0.1-1.0	SL Rough	5	8	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	18.0	15	65	59	4.943					
															0.28	139.46	487.9			7	>20m	<0.1mm	Smooth	3	2	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	17.0	15	64	59	4.943					
															0.12	139.30	488.0			8	>20m	0.1-1.0	Smooth	4	5	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	16.0	15	63	59	4.943					
															0.13	139.31	488.0			9	>20m	0.1-1.0	Smooth	2	2	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	16.0	15	63	59	4.943					
															0.57	139.75	487.7			10	>20m	<0.1mm	Smooth	6	2	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	17.0	15	64	59	4.943					
															0.17	139.92	487.6			11	>20m	<0.1mm	Smooth	2	3	1.0	None	1.00		SW			Dry	J					14.1	11.7	6.6	17.0	15	64	59	4.943					
7d(7e)	141.00	144.00	486.7	484.4	3.00	2.90	96.7	1.17	39.0	12	8	130	40	150		141.36	486.4			1	>20m	0.1-1.0	SL Rough	7	11	1.0	None	1.00		SW			Dry	J					12.2	8.2	6.7	18.0	15	60	39	3.250	51	0.813	37.131		
															0.18	141.56	486.3			2	>20m	<0.1mm	SL Rough	6	11	1.0	None	1.00		SW			Dry	J					12.2	8.2	6.7	19.0	15	61	39	3.250					
															0.40	141.96	486.0			3	<1m	0.1-1.0	Smooth	3	2	1.0	None	1.00		SW			Dry	J					12.2	8.2	6.7	22.0	15	64	39	3.250					
															0.44	142.40	485.7			4	>20m	1-5	Smooth	3	4	1.0	Soft <5mm	4.00		SW			Dry	J	hem	cly			12.2	8.2	6.7	9.0	15	51	39	0.813					
															0.80	143.20	485.1			5	>20m	<0.1mm	SL Rough	8	5	1.0	Soft <5mm	4.00		SW			Dry	J	hem				12.2	8.2	6.7	15.0	15	57	39	0.813					
															0.07	143.27	485.0			6	>20m	<0.1mm	Smooth	3	2	1.0	None	1.00		Unweathere			Dry	J					12.2	8.2	6.7	18.0	15	60	39	3.250					
															0.52	143.79	484.6			7	>20m	<0.1mm	Smooth	3	3	1.0	None	1.00		SW			Dry	J					12.2	8.2	6.7	17.0	15	59	39	3.250					
															0.08	143.87	484.5			8	>20m	0.1-1.0	Smooth	4	5	1.0	None	1.00		SW			Dry	J					12.2	8.2	6.7	16.0	15	58	39	3.250					
EOH							EOH							EOH				EOH													EOH					EOH					EOH					EOH					

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595m

1,951ft

Total Depth:

144.0m

472ft

Azimuth:

235deg

Dip:

-50deg

(down is negative)

Drill Type:

Core Diameter: From

m to

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mm

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