OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771
FAX NO.: (613) 226-8753
EMAIL: odm@storm.ca

D A T A T R A N S M I T T A L R E P O R T

DATE: 9-Dec-09

ATTENTION: **Mr. Don Elsenheimer, Ph.D, Economic Geologist**

CLIENT: **Minnesota Department of Natural Resources**
500 Lafayette Rd
St. Paul, MN
55155-4045
USA

E-MAIL: **donald.elsenheimer@dnr.state.mn.us**

NO. OF PAGES: _____

PROJECT: **BFT**

FILE NAME: **MDNR - Elsenheimer - (BFT) - Dec 2009**

SAMPLE NUMBERS: **BFT-41, 42, 31 to 33, 21, 11 and 12**

BATCH NUMBER: **4792**

TOTAL SAMPLES: **8**

THESE SAMPLES WERE PROCESSED FOR: **GOLD GRAIN COUNT**
HMC

SPECIFICATIONS:
1. Submitted by client: ±15 kg till and sand samples.
2. When not clay-rich, samples prescreened to -5 mm in the field. Larger pebbles removed by hand from the clay-rich samples.
3. Heavy liquid separation specific gravity: 3.20.

REMARKS:
The samples were processed in order listed by the client.
Heavy mineral concentrate weights pending.

Remy Huneault, P.Geo.
Laboratory Manager

*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8 Batch Number: 4792

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g) *	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
BFT-41	135	130	4	1	53.2	1735	1732	3	<1
BFT-42	21	21	0	0	49.2	299	299	0	0
BFT-31	42	40	1	1	61.2	245	242	3	<1
BFT-32	20	19	1	0	54.4	61	59	1	0
BFT-33	30	29	1	0	62.4	311	311	<1	0
BFT-21	33	32	1	0	55.2	217	213	3	0
BFT-11	26	25	1	0	55.7	301	301	<1	0
BFT-12	18	17	1	0	52.4	72	72	<1	0

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OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
BFT-41	Yes	3 C	15	15	1	1	1	3			~15 pyrite (50-125µm).
		5 C	25	25	4	2		6			
		8 C	25	50	21	1		22			
		10 C	25	75	8			8			
		13 C	25	100	1			1			
		10 C	50	50	23			23			
		13 C	50	75	28			28			
		15 C	50	100	12			12			
		18 C	50	125	1			1			
		20 C	50	150	1			1			
		15 C	75	75	8			8			
		18 C	75	100	5			5			
		20 C	75	125	3			3			
		22 C	75	150	1			1			
		20 C	100	100	3			3			
		22 C	100	125	4			4			
		50 M	100	150	1			1			
		25 C	125	125	2			2			
		31 C	125	200	2			2			
		36 C	125	250	1			1			
								135	53.2	1735	
BFT-42	Yes	3 C	15	15	2			2			No sulphides.
		5 C	25	25	2			2			
		8 C	25	50	1			1			
		10 C	50	50	1			1			

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OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA

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Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		13 C	50	75	4			4			
		15 C	50	100	1			1			
		15 C	75	75	2			2			
		18 C	75	100	5			5			
		20 C	75	125	2			2			
		25 C	125	125	1			1			
								21	49.2	299	
BFT-31	Yes	3 C	15	15	2		1	3			No sulphides.
		5 C	25	25	5			5			
		8 C	25	50	6			6			
		10 C	25	75	2			2			
		10 C	50	50	7	1		8			
		13 C	50	75	8			8			
		15 C	50	100	4			4			
		18 C	50	125	1			1			
		15 C	75	75	2			2			
		18 C	75	100	1			1			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
								42	61.2	245	
BFT-32	Yes	3 C	15	15	2			2			No sulphides.
		5 C	25	25	3			3			
		8 C	25	50	4	1		5			
		10 C	25	75	2			2			

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DETAILED GOLD GRAIN DATA

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Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		10 C	50	50	3			3			
		13 C	50	75	5			5			
								20	54.4	61	
BFT-33	Yes	5 C	25	25	1	1		2			No sulphides.
		5 C	25	25	2			2			
		10 C	50	50	7			7			
		13 C	50	75	4			4			
		15 C	50	100	4			4			
		18 C	50	125	1			1			
		15 C	75	75	1			1			
		18 C	75	100	5			5			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
		20 C	100	100	1			1			
		22 C	100	125	1			1			
								30	62.4	312	
BFT-21	Yes	5 C	25	25	4			4			No sulphides.
		8 C	25	50	6			6			
		10 C	25	75	3	1		4			
		13 C	25	100	1			1			
		10 C	50	50	6			6			
		13 C	50	75	4			4			
		15 C	50	100	1			1			
		15 C	75	75	3			3			

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OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		18 C	75	100	2			2			
		20 C	75	125	2			2			
								33	55.2	217	
BFT-11	Yes	5 C	25	25	3	1		4			No sulphides.
		8 C	25	50	1			1			
		10 C	25	75	2			2			
		10 C	50	50	1			1			
		13 C	50	75	4			4			
		15 C	50	100	4			4			
		25 M	50	175	1			1			
		15 C	75	75	3			3			
		18 C	75	100	4			4			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
								26	55.7	301	
BFT-12	Yes	3 C	15	15	3			3			No sulphides.
		5 C	25	25	4	1		5			
		8 C	25	50	5			5			
		10 C	25	75	1			1			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		18 C	50	125	1			1			
		20 C	50	150	1			1			
								18	52.4	73	

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OVERBURDEN DRILLING MANAGEMENT LIMITED
RAW SAMPLE DESCRIPTIONS AND PROCESSING WEIGHTS

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Weight (kg wet)				-2.0 mm Table Concentrate Weight (g dry)					Sample Description													
						Heavy Liquid Separation (S.G. 3.3)				Clasts (> 2.0 mm)*					Matrix (<2.0 mm)								
							HMC				Percentage				Distribution					Colour			
	Bulk Rec'd	Table Split	+2.0 mm Clasts	Table Feed	Total	Lights	Total	Non Mag	Mag	Size	V/S	GR	LS	OT	S/U	SD	ST	CY	ORG	SD	CY	CLASS
			*																			
BFT-41	14.6	14.1	0.8	13.3	PENDING					P	30	70	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-42	13.2	12.7	0.4	12.3	PENDING					P	25	75	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-31	16.1	15.6	0.3	15.3	PENDING					G	35	65	0	0	U	+	Y	-	N	BE	BE	TILL
BFT-32	14.2	13.7	0.1	13.6	PENDING					G	35	65	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-33	16.4	15.9	0.3	15.6	PENDING					G	40	60	0	0	S	FM	-	N	N	BE	NA	SAND
BFT-21	14.8	14.3	0.5	13.8	PENDING					G	40	60	0	0	U	Y	Y	Y	N	BE	BE	TILL
BFT-11	14.5	14.0	0.1	13.9	PENDING					G	20	80	0	0	U	+	Y	-	N	LOC	LOC	TILL
BFT-12	14.2	13.7	0.6	13.1	PENDING					P	40	60	0	0	U	-	+	Y	N	LOC	LOC	TILL

*When not clay-rich, samples prescreened to -5 mm in the field.
Larger pebbles removed by hand from the clay-rich samples.

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OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY ABBREVIATIONS

SEDIMENT LOG

Largest Clasts Present:

G: Granules
P: Pebbles
C: Cobbles

Clast Composition:

V/S: Volcanics and/or sediments
GR: Granitics
LS: Limestone, carbonates
OT: Other Lithologies (refer to footnotes)
TR: Only trace present
NA: Not applicable
OX: Very oxidized, undifferentiated

Matrix Grain Size Distribution:

S/U: Sorted or Unsorted
SD: Sand (F: Fine; M: Medium; C: Coarse)
ST: Silt
CY: Clay
Y: Fraction present
+: Fraction more abundant than normal
-: Fraction less abundant than normal
N: Fraction not present

Matrix Organics:

ORG: Y: Organics present in matrix
N: Organics absent or negligible in matrix
+: Matrix is mainly organic

Matrix Colour:

Primary:
BE: Beige
GY: Grey
GB: Grey-beige
GN: Green
GG: Grey-green
PP: Purple
PK: Pink
PB: Pink-Beige

Secondary (soil):
OC: Ochre
BN: Brown
BK: Black

Secondary Colour Modifier:

L: Light
M: Medium
D: Dark

GOLD GRAIN LOG

Thickness:

VG: Visible gold grains

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LABORATORY ABBREVIATIONS

SEDIMENT LOG

Largest Clasts Present:

G: Granules
P: Pebbles
C: Cobbles

Matrix Organics:

ORG: Y: Organics present in matrix
N: Organics absent or negligible in matrix
+: Matrix is mainly organic

Clast Composition:

M: Actual measured thickness of grain (microns)
C: Thickness of grain (microns) calculated from measured width and length

KIM (kimberlite indicator mineral) LOG

GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope)
GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces
DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked separately)
IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces
CR: Chromite
FO: Forsterite

MMSIM (metamorphosed or magmatic massive sulphide indicator mineral) and PCIM (porphyry Cu indicator mineral) LOGS

Adr:	Andradite	Cr:	Chromite	Ky:	Kyanite	Sil:	Sillimanite	Ttn:	Titanite
Ap:	Apatite	Fay:	Fayalite	Mz:	Monazite	Spi:	Spinel		
Ase:	Anatase	Gh:	Gahnite	Ol:	Olivine	Sps:	Spessartine		
Ax:	Axinite	Gr:	Grossular	Opx:	Orthopyroxene	St:	Staurolite		
Cpy:	Chalcopyrite	Gth:	Goethite	Py:	Pyrite	Tm:	Tourmaline		

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