

**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

DATA TRANSMITTAL REPORT

DATE: 4-Mar-11

ATTENTION: **Mr. Donald Elsenheimer**

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

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

NO. OF PAGES:

PROJECT: **Bigfork Greenstone Belt**

FILE NO: **MDNR - Elsenheimer (BF-BFT) - March 2011**

SAMPLE NUMBERS: **BF-104, 126, 130, 131-CK-1, 131-CK-2, 132 to 138, and 140, BFT-51, 52, 61, 72, 82, 92, 102 and 103**

BATCH NUMBER: **5317**

TOTAL SAMPLES: **21**

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

SPECIFICATIONS:

1. Submitted by client:  $\pm 15$  kg till and sand/gravel samples.
2. No heavy liquid refining.

REMARKS:

---

---

---

---

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: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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
*									
BF-104	5	5	0	0	44.4	44	44	0	0
BF-126	24	24	0	0	48.0	470	470	0	0
BF-130	30	29	1	0	55.6	648	648	<1	0
BF-131-CK-1	64	64	0	0	58.0	725	725	0	0
BF-131-CK-2	30	30	0	0	57.6	212	212	0	0
BF-132	1	1	0	0	41.6	15	15	0	0
BF-133	7	7	0	0	39.2	27	27	0	0
BF-134	3	3	0	0	47.6	11	11	0	0
BF-135	5	3	0	2	46.0	477	476	0	1
BF-136	44	42	2	0	49.6	1656	1652	4	0
BF-137	16	16	0	0	53.2	256	256	0	0
BF-138	8	7	1	0	44.4	45	44	1	0
BF-140	5	3	2	0	63.6	15	15	<1	0
BFT-51	31	31	0	0	50.0	213	213	0	0
BFT-52	324	323	0	1	57.2	1687	1687	0	<1
BFT-61	48	47	1	0	36.8	544	544	<1	0
BFT-72	13	13	0	0	66.0	45	45	0	0
BFT-82	5	5	0	0	35.2	30	30	0	0
BFT-92	1	1	0	0	38.4	17	17	0	0
BFT-102	6	6	0	0	59.2	3	3	0	0
BFT-103	6	6	0	0	45.6	122	122	0	0

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2				2		2 of 5 gold grains are toroidal.
		8 C	25	50	1				1		
		13 C	50	75	1				1		
		20 C	75	125	1				1		
									5	44.4	
BF-126	Yes	5 C	25	25	3				3		5 of 24 gold grains are toroidal.
		8 C	25	50	5				5		
		10 C	25	75	2				2		
		10 C	50	50	2				2		
		13 C	50	75	1				1		
		15 C	50	100	3				3		
		20 C	50	150	1				1		
		20 C	75	125	3				3		
		22 C	100	125	2				2		
		27 C	100	175	1				1		
		29 C	100	200	1				1		
BF-130	Yes	5 C	25	25	2	1			3		6 of 30 gold grains are toroidal.
		8 C	25	50	5				5		
		10 C	25	75	2				2		
		13 C	25	100	1				1		
		10 C	50	50	3				3		
		13 C	50	75	3				3		
		15 C	50	100	1				1		
									24	48.0	

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2				2		2 of 5 gold grains are toroidal.
		15 C	75	75	3				3		
		18 C	75	100	2				2		
		22 C	75	150	1				1		
		20 C	100	100	2				2		
		25 C	100	150	2				2		
		34 C	100	250	1				1		
		50 M	150	175	1				1		
									30	55.6	649
BF-131-CK-1	Yes	5 C	25	25	8				8		6 of 64 gold grains are toroidal.
		8 C	25	50	9				9		
		10 C	25	75	4				4		
		10 C	50	50	10				10		
		13 C	50	75	6				6		
		15 C	50	100	4				4		
		18 C	50	125	2				2		
		15 C	75	75	4				4		
		18 C	75	100	7				7		
		20 C	75	125	4				4		
		22 C	75	150	1				1		
		25 C	75	175	1				1		
		22 C	100	125	1				1		
		22 C	100	125	1				1		
		25 C	100	150	1				1		
		27 C	125	150	1				1		

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
								64	58.0	725	
BF-131-CK-2	Yes	5 C	25	25	2			2			15 of 30 gold grains are toroidal.
		8 C	25	50	6			6			
		10 C	25	75	4			4			
		10 C	50	50	4			4			
		13 C	50	75	3			3			
		15 C	50	100	2			2			
		18 C	50	125	1			1			
		15 C	75	75	5			5			
		18 C	75	100	2			2			
		20 C	100	100	1			1			
								30	57.6	212	
BF-132	No	15 C	75	75	1			1			Sole gold grain is toroidal.
								1	41.6	15	
BF-133	No	3 C	15	15	1			1			1 of 7 gold grains is toroidal.
		5 C	25	25	2			2			
		8 C	25	50	2			2			
		10 C	50	50	1			1			
		15 C	50	100	1			1			
								7	39.2	27	
BF-134	No	8 C	25	50	2			2			1 of 3 gold grains is toroidal.

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
		13 C	50	75	1			1			
								3	47.6	11	
BF-135	No	3 C	15	15				1			1 of 5 gold grains is toroidal.
		5 C	25	25	1		1	2			
		10 C	50	50	1			1			
		46 C	200	300	1			1			
								5	46.0	477	
BF-136	Yes	3 C	15	15	2	1		3			No sulphides. 6 of 44 gold grains are toroidal.
		5 C	25	25	4			4			
		8 C	25	50	6			6			
		10 C	50	50	2	1		3			
		13 C	50	75	1			1			
		15 C	50	100	1			1			
		18 C	50	125	2			2			
		15 C	75	75	1			1			
		18 C	75	100	3			3			
		20 C	75	125	4			4			
		22 C	75	150	2			2			
		22 C	100	125	5			5			
		27 C	100	175	3			3			
		29 C	100	200	3			3			
		31 C	125	200	1			1			
		36 C	125	250	1			1			

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
		38 C	150	250	1			1			
								44	49.6	1656	
BF-137	Yes	5 C	25	25	2			2			No sulphides. 8 of 16 gold grains are toroidal.
		8 C	25	50	2			2			
		10 C	50	50	2			2			
		13 C	50	75	3			3			
		15 C	50	100	2			2			
		15 C	75	75	2			2			
		20 C	75	125	1			1			
		25 C	100	150	1			1			
		29 C	125	175	1			1			
								16	53.2	256	
BF-138	No	5 C	25	25	3	1		4			2 of 8 gold grains are toroidal.
		8 C	25	50	1			1			
		13 C	50	75	2			2			
		25 M	75	75	1			1			
								8	44.4	45	
BF-140	No	3 C	15	15		1		1			1 of 5 gold grains is toroidal.
		5 C	25	25		1		1			
		10 C	50	50	1			1			
		13 C	50	75	2			2			
								5	63.6	15	

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
BFT-51	No	5 C	25	25	7			7			4 of 31 gold grains are toroidal.
		8 C	25	50	6			6			
		10 C	25	75	4			4			
		10 C	50	50	4			4			
		13 C	50	75	3			3			
		15 C	75	75	2			2			
		18 C	75	100	3			3			
		20 C	75	125	2			2			
								31	50.0	213	
BFT-52	Yes	3 C	15	15	3			3			No sulphides. 60% of gold grains are toroidal.
		5 C	25	25	61		1	62			
		8 C	25	50	78			78			
		10 C	25	75	27			27			
		13 C	25	100	7			7			
		10 C	50	50	55			55			
		13 C	50	75	33			33			
		15 C	50	100	28			28			
		18 C	50	125	5			5			
		15 C	75	75	17			17			
		18 C	75	100	6			6			
		20 C	100	100	2			2			
		50 M	200	200	1			1			
								324	57.2	1687	

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



**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
BFT-61	Yes	3 C	15	15	1	1		2			No sulphides. 7 of 48 gold grains are toroidal.
		5 C	25	25	9			9			
		8 C	25	50	7			7			
		10 C	25	75	4			4			
		10 C	50	50	10			10			
		13 C	50	75	8			8			
		15 C	50	100	1			1			
		15 C	75	75	2			2			
		20 C	75	125	1			1			
		50 M	75	150	1			1			
		20 C	100	100	2			2			
		25 M	100	125	1			1			
								48	36.8	544	
BFT-72	Yes	5 C	25	25	2			2			No sulphides. 6 of 13 gold grains are toroidal.
		8 C	25	50	1			1			
		10 C	50	50	5			5			
		13 C	50	75	5			5			
								13	66.0	45	
BFT-82	No	3 C	15	15	2			2			1 of 5 gold grains is toroidal.
		5 C	25	25	2			2			
		18 C	75	100	1			1			
								5	35.2	30	

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

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

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			
BF-104	No	3 C	15	15	2			2			2 of 5 gold grains are toroidal.
BFT-92	No	15 C	75	75	1			1			Sole gold grain is toroidal.
								1	38.4	17	
BFT-102	No	3 C	15	15	2			2			1 of 6 gold grains is toroidal.
		5 C	25	25	3			3			
		8 C	25	50	1			1			
								6	59.2	3	
BFT-103	No	8 C	25	50	1			1			2 of 6 gold grains are toroidal.
		10 C	50	50	1			1			
		13 C	50	75	1			1			
		18 C	50	125	1			1			
		18 C	75	100	1			1			
		25 C	125	125	1			1			
								6	45.6	122	

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

## OVERBURDEN DRILLING MANAGEMENT LIMITED

### RAW SAMPLE DESCRIPTIONS AND PROCESSING WEIGHTS

Project: Bigfork Greenstone Belt

Filename: MDNR - Elsenheimer (BF-BFT) - March 2011

Total Number of Samples in this Report = 21

Batch Number: 5317

Sample Number	Weight (kg wet)				Sample Description												CLASS
					Clasts (> 2.0 mm)					Matrix (<2.0 mm)							
										Distribution				ORG	Colour		
	Bulk Rec'd	Table Split	+2.0 mm Clasts	Table Feed	Size	V/S	GR	LS	OT	S/U	SD	ST	CY		SD	CY	
BF-104	12.8	12.3	1.2	11.1	P	30	70	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BF-126	13.9	13.4	1.4	12.0	C	20	80	0	0	U	+	Y	-	N	LOC	LOC	TILL
BF-130	17.8	17.3	3.4	13.9	C	20	80	0	0	U	+	Y	-	N	LOC	LOC	TILL
BF-131-CK-1	16.0	15.5	1.0	14.5	P	20	80	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
BF-131-CK-2	15.5	15.0	0.6	14.4	P	20	80	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
BF-132	12.1	11.6	1.2	10.4	P	30	70	0	0	S	MC	-	N	N	OC	NA	SAND + GRAVEL
BF-133	12.6	12.1	2.3	9.8	P	15	85	0	0	S	MC	-	N	N	OC	NA	SAND + GRAVEL
BF-134	12.9	12.4	0.5	11.9	P	15	85	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
BF-135	13.4	12.9	1.4	11.5	P	20	80	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
BF-136	17.3	16.8	4.4	12.4	P	30	70	0	0	U	+	Y	-	N	LOC	LOC	TILL
BF-137	14.2	13.7	0.4	13.3	P	15	85	0	0	S	MC	-	N	N	OC	NA	SAND + GRAVEL
BF-138	13.5	13.0	1.9	11.1	C	20	80	0	0	S	M	-	N	N	OC	NA	SAND + GRAVEL
BF-140	17.2	16.7	0.8	15.9	P	20	80	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
BFT-51	16.9	16.4	3.9	12.5	C	Tr	100	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-52	16.6	16.1	1.8	14.3	C	10	90	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-61	10.5	10.0	0.8	9.2	P	Tr	100	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-72	18.6	18.1	1.6	16.5	C	0	100	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-82	9.7	9.2	0.4	8.8	P	10	90	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-92	11.0	10.5	0.9	9.6	C	Tr	100	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-102	16.9	16.4	1.6	14.8	C	10	90	0	0	U	Y	Y	Y	N	LOC	LOC	TILL
BFT-103	22.8	22.3	10.9	11.4	C	30	70	0	0	U	Y	Y	Y	N	LOC	LOC	TILL

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

## 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

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

## OVERBURDEN DRILLING MANAGEMENT LIMITED 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:**

V/S: Volcanics and/or sediments

M: Actual measured thickness of grain (microns)

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

**Matrix Colour:**

### 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	

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

**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

Cpy: Chalcopyrite    Gth: Goethite    Py: Pyrite

***Matrix Organics:***

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

***Matrix Colour:***

Tm: Tourmaline