OVERBURDEN DRILLING MANAGEMENT LIMITED
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DATA TRANSMITTAL REPORT

DATE: 11-Jun-2013

ATTENTION: **Mr. Donald Elsenheimer**

CLIENT: **Minnesota Department of Natural Resources**
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St. Paul, MN
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PROJECT: **TK-S**

FILE NAME: **20136216 - MDNR - Elsenheimer - (TK-S) - June 2013**

SAMPLE NUMBERS: **TK0171S, 0177S, 0179S, 0180S, 0182S, 0185S to 188S, 0192S, 0193S1 and 0193S2**

BATCH NUMBER: **6216**

TOTAL SAMPLES: **12**

THESE SAMPLES WERE PROCESSED FOR: **GOLD GRAIN COUNT**
HMC. <0.063 mm CLAY + SILT FRACTION

SPECIFICATIONS:

1. Submitted by client: ~10 kg saprolite samples.
2. Larger fragments removed by hand in the field.
3. ±500 g archived split sieved to 0.063 mm.
4. Heavy liquid separation specific gravity: 3.30.
5. Nonferromagnetic and ferromagnetic HMC fractions split 50%.

REMARKS:

Prepared HMC (50% nonferromagnetic and ferromagnetic HMC) and <0.063 mm clay + silt fractions sent to Actlabs for analysis.

Remy Huneault, P.Geo.
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED
RAW SAMPLE DESCRIPTIONS AND PROCESSING WEIGHTS

Filename: 20136216 - MDNR - Elsenheimer - (TK-S) - June 2013
Total Number of Samples in this Report = 12
Batch Number: 6216

Sample Number	Weight (kg wet)					-2.0 mm Table Concentrate Weight (g dry)					Sample Description													CLASS
							Heavy Liquid Separation (S.G. 3.3)					Fragments (> 2.0 mm)*				Matrix (<2.0 mm)								
								HMC				Percentage				Distribution					Colour		
	Bulk Rec'd	Archived Split	Table Split	+2.0 mm Fragments	Table Feed	Total	Lights	Total	Non Mag	Mag	Size	V/S	GR	LS	OT	S/U	SD	ST	CY	ORG	SD	CY	
				*								**											
TK0171S	4.5	0.5	4.0	1.5	2.5	160.5	108.9	51.6	27.6	24.0	P	100	Tr	0	0	U	-	Y	Y	N	GY	GY	SAPROLITE
TK0177S	9.1	0.5	8.6	1.3	7.3	537.8	24.0	513.8	83.7	430.1	P	100	0	0	0	U	-	Y	Y	N	GY	GY	SAPROLITE
TK0179S	7.5	0.5	7.0	2.1	4.9	205.7	82.3	123.4	103.8	19.6	P	100	0	0	0	U	-	Y	Y	N	GN	GN	SAPROLITE
TK0180S	5.7	0.5	5.2	1.2	4.0	304.1	249.3	54.8	8.3	46.5	P	100	Tr	0	0	U	-	Y	Y	N	GY	GY	SAPROLITE
TK0182S	8.8	0.5	8.3	1.1	7.2	331.5	50.7	280.8	270.8	10.0	P	100	Tr	0	0	U	-	Y	Y	N	GY	GY	SAPROLITE
TK0185S	9.3	0.5	8.8	0.9	7.9	337.9	143.1	194.8	155.9	38.9	P	100	0	0	0	U	-	Y	Y	N	GY	GY	SAPROLITE
TK0186S	9.0	0.5	8.5	3.0	5.5	326.5	144.9	181.6	131.2	50.4	P	95	5	Tr	0	U	-	Y	Y	N	OC	OC	SAPROLITE
TK0187S	9.6	0.5	9.1	1.5	7.6	402.8	8.8	394.0	104.6	289.4	P	100	0	0	0	U	Y	Y	Y	N	DOC	DOC	SAPROLITE
TK0188S	6.9	0.5	6.4	0.1	6.3	376.4	37.2	339.2	328.6	10.6	P	100	0	0	0	U	-	Y	Y	N	GN	GN	SAPROLITE
TK0192S	6.5	0.5	6.0	2.2	3.8	274.2	51.2	223.0	103.5	119.5	P	100	0	0	0	U	Y	Y	Y	N	DOC	DOC	SAPROLITE
TK0193S-1	7.3	0.5	6.8	1.8	5.0	293.8	57.2	236.6	68.8	167.8	P	100	0	0	0	U	-	Y	Y	N	DOC	DOC	SAPROLITE
TK0193S-2	7.3	0.5	6.8	0.9	5.9	306.6	32.9	273.7	95.1	178.6	P	100	0	0	0	U	-	Y	Y	N	DOC	DOC	SAPROLITE

* Larger fragments removed by hand in the field.
** Fragments listed as "VS" include iron formation.

OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY

Filename: 20136216 - MDNR - Elsenheimer - (TK-S) - June 2013
Total Number of Samples in this Report = 12
Batch Number: 6216

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
TK0171S	0	0	0	0	10.0	0	0	0	0
TK0177S	0	0	0	0	29.2	0	0	0	0
TK0179S	0	0	0	0	19.6	0	0	0	0
TK0180S	0	0	0	0	16.0	0	0	0	0
TK0182S	0	0	0	0	28.8	0	0	0	0
TK0185S	0	0	0	0	31.6	0	0	0	0
TK0186S	2	2	0	0	22.0	7702	7702	0	0
TK0187S	0	0	0	0	30.4	0	0	0	0
TK0188S	0	0	0	0	25.2	0	0	0	0
TK0192S	0	0	0	0	15.2	0	0	0	0
TK0193S-1	0	0	0	0	20.0	0	0	0	0
TK0193S-2	0	0	0	0	23.6	0	0	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

Filename: 20136216 - MDNR - Elsenheimer - (TK-S) - June 2013
Total Number of Samples in this Report = 12
Batch Number: 6216

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
TK0171S	Yes	NO VISIBLE GOLD									0.5% pyrite (25-150µm). 0.5% marcasite (25-100µm).
TK0177S	Yes	NO VISIBLE GOLD									~1000 grains marcasite (15-100µm).
TK0179S	Yes	NO VISIBLE GOLD									0.5% pyrite (25-150µm).
TK0180S	Yes	NO VISIBLE GOLD									~1000 grains marcasite (15-100µm).
TK0182S	Yes	NO VISIBLE GOLD									2% marcasite (15-150µm).
TK0185S	Yes	NO VISIBLE GOLD									~500 grains native copper (25-2000µm). ~200 grains pyrite/marcasite (25-150µm).
TK0186S	Yes	75 M	150	450	1			1			~2000 grains native copper (25-1500µm).
		150 M	300	350	1			1			~10 grains galena (100-250µm).
								2	22.0	7702	1% pyrite (25-750µm). 0.5% marcasite (25-150µ). SEM checks: 6 PGM candidates = 4 tungsten carbide, 1 arsenopryite and 1 pyrite (50-150µm); and 15 of ~2000 native copper candidates = 15 copper ± goethite (150-500µm).
TK0187S	Yes	NO VISIBLE GOLD									~500 grains native copper (50-2000µm). ~50 grains pyrite (25-150µm).
TK0188S	Yes	NO VISIBLE GOLD									~5000 grains native copper (50-1000µm). SEM checks: 18 of ~5000 native copper candidates = 18 copper ± goethite (150-500µm).
TK0192S	Yes	NO VISIBLE GOLD									~300 grains native copper (50-500µm). 0.5% marcasite (25-100µm).
TK0193S-1	Yes	NO VISIBLE GOLD									~20 grains native copper (50-250µm). 0.5% pyrite (25-750µm). 0.5% marcasite (25-150µm).
TK0193S-2	Yes	NO VISIBLE GOLD									~100 grains native copper (50-250µm). 1 grain chalcocite. 0.5% marcasite (25-100µm). SEM checks: 4 pyrite versus chalcopyrite candidates = 3 pyrite and 1 chalcopyrite (250µm); 2 native copper candidates = 2 native copper (200µm); and 3 goethite versus chalcocite candidates = 2 goethite and 1 chalcocite (250µm).

OVERBURDEN DRILLING MANAGEMENT LIMITED
HEAVY MINERAL CONCENTRATE SPLITS

Filename: 20136216 - MDNR - Elsenheimer - (TK-S) - June 2013
Total Number of Samples in this Report = 12
Batch Number: 6216

Sample Number	Weight (g)					
	Nonmag HMC*			Mag HMC*		
	Total	50% Splits		Total	50% Splits	
		A	B		A	B
TK0171S	27.6	13.8	13.8	24.0	12.0	12.0
TK0177S	83.7	41.9	41.8	430.1	215.1	215.0
TK0179S	103.8	51.9	51.9	19.6	9.8	9.8
TK0180S	8.3	4.2	4.1	46.5	23.3	23.2
TK0182S	270.8	135.4	135.4	10.0	5.0	5.0
TK0185S	155.9	78.0	77.9	38.9	19.5	19.4
TK0186S	131.2	65.6	65.6	50.4	25.2	25.2
TK0187S	104.6	52.3	52.3	289.4	144.7	144.7
TK0188S	328.6	164.3	164.3	10.6	5.3	5.3
TK0192S	103.5	51.8	51.7	119.5	59.8	59.7
TK0193S-1	68.8	34.4	34.4	167.8	83.9	83.9
TK0193S-2	95.1	47.6	47.5	178.6	89.3	89.3

*Split A of Nonmag and mag HMC sent to Actlabs in Ancaster, Ontario for analysis. Split B returned to MDNR in St.Paul, MN.

OVERBURDEN DRILLING MANAGEMENT LIMITED
-63µ CLAY-SILT WEIGHTS

Filename: 20136216 - MDNR - Elsenheimer - (TK-S) - June 2013
Total Number of Samples in this Report = 12
Batch Number: 6216

Sample Number	Weight (g) of Archival Split				
			Sieved Split		
	Total	Excess	Total	<63µ *	>63µ
TK0171S	499.4	288.7	210.7	37.8	172.9
TK0177S	372.2	222.8	149.4	40.1	109.3
TK0179S	382.8	228.2	154.6	39.1	115.5
TK0180S	439.4	276.9	162.5	40.0	122.5
TK0182S	388.7	246.2	142.5	40.8	101.7
TK0185S	412.8	255.7	157.1	32.4	124.7
TK0186S	441.8	237.3	204.5	39.6	164.9
TK0187S	432.2	288.3	143.9	43.9	100.0
TK0188S	353.7	231.2	122.5	34.8	87.7
TK0192S	418.9	259.0	159.9	36.1	123.8
TK0193S-1	452.0	289.5	162.5	39.1	123.4
TK0193S-2	418.8	240.3	178.5	41.6	136.9

* <63µ clay + silt fraction sent to Actlabs in Ancaster, Ontario for analysis.