

DATA TRANSMITTAL REPORT

DATE: 10-Jun-15
ATTENTION: Mr. Donald Eisenheimer, Ph.D.
CLIENT: Divison of Land & Minerals
Minnesota Department of Natural Resources
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NO. OF PAGES: 6

PROJECT: Cook Area Till Sampling (Phase 3)
FILE NAME: 20156936 - MDNR - Eisenheimer - (CATS-14), June 2015
SAMPLE NUMBERS: CATS-301 to 335

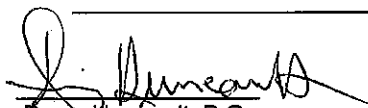
BATCH NUMBER: 6936
TOTAL SAMPLES: 33

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

SPECIFICATIONS:

1. Submitted by client: Thirty two ~10 kg till samples and one sand + gravel sample.
2. Larger clasts removed by hand in the field.
3. ±500 g archived split taken. ±150 g of each sample sieved to 0.063 mm.
4. All samples panned for gold grains and metallic indicator minerals.
5. Heavy liquid separation specific gravity: 3.30.

REMARKS:


Remy Huneault, P. Geo.
Laboratory Manager

**OVERBURDEN DRILLING MANAGEMENT LIMITED
RAW SAMPLE DESCRIPTIONS AND PROCESSING WEIGHTS**

Project: Cook Area Till Sampling (Phase 3)
 Filename: 20156936 - MDNR - Eisenheimer - (CATS-14), June 2015
 Total Number of Samples in this Report = 33
 Batch Number: 6936

Sample Number	Weight (kg wet)					-2.0 mm Table Concentrate Weight (g dry)					Sample Description										CLASS		
	Bulk Rec'd	Archived Split	Table Split	+2.0 mm Clasts	Table Feed	Total	Heavy Liquid Separation (S.G. 3.3)			S i z e	Clasts (> 2.0 mm)				Matrix (<2.0 mm)								
							Lights	HMC			Percentage				Distribution				Colour				
								Total	Non Mag		Mag	V/S	GR	LS	OT	S/U	SD	ST	CY	O R G		SD	CY
CATS-301	8.3	0.5	7.8	0.6	7.2	242.5	237.1	5.4	4.2	1.2	P	70	30	0	0	U	Y	Y	Y	Y	DOC	OC	TILL
CATS-302	9.6	0.5	9.1	1.5	7.6	186.4	176.9	9.5	4.1	5.4	P	70	30	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-303	9.2	0.5	8.7	2.1	6.6	337.6	328.7	8.9	5.1	3.8	P	70	30	0	0	U	+	Y	-	Y	BN	BN	TILL
CATS-304	10.6	0.5	10.1	2.3	7.8	410.7	196.7	214.0	160.2	53.8	P	50	50	0	0	U	+	Y	-	Y	DOC	DOC	TILL
CATS-305	9.3	0.5	8.8	1.8	7.0	278.1	267.0	11.1	6.1	5.0	P	60	40	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-306	10.1	0.5	9.6	1.6	8.0	168.1	155.2	12.9	8.8	4.1	P	50	50	0	0	U	Y	Y	-	Y	BN	BN	TILL
CATS-307	9.4	0.5	8.9	1.6	7.3	254.6	228.5	26.1	15.6	10.5	P	70	30	0	0	U	Y	Y	-	Y	MOC	MOC	TILL
CATS-308	11.0	0.5	10.5	5.1	5.4	139.3	122.9	16.4	8.4	8.0	P	70	30	0	0	U	+	Y	-	Y	BN	BN	TILL
CATS-309	8.3	0.5	7.8	0.2	7.6	286.5	248.2	18.3	11.8	6.5	P	50	50	0	0	U	Y	Y	-	Y	MOC	MOC	TILL
CATS-310	8.5	0.5	8.0	0.9	7.1	184.1	177.6	6.5	2.6	3.9	P	60	40	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-311	6.2	0.5	5.7	0.6	5.1	185.6	176.1	9.5	6.1	3.4	P	70	30	0	0	U	+	Y	-	Y	DOC	DOC	TILL
CATS-312	7.5	0.5	7.0	0.1	6.9	149.5	146.6	2.9	1.5	1.4	P	50	50	0	0	U	-	Y	+	Y	LOC	LOC	TILL
CATS-313	8.1	0.5	7.6	1.1	6.5	374.4	321.0	53.4	32.9	20.5	P	70	30	0	0	U	Y	Y	-	Y	LOC	LOC	TILL
CATS-314	9.8	0.5	9.3	3.1	6.2	331.2	274.0	57.2	28.5	28.7	P	60	40	0	0	U	Y	Y	Y	Y	LOC	LOC	TILL
CATS-315	8.5	0.5	8.0	0.7	7.3	242.9	239.7	3.2	3.1	0.1	P	60	40	0	0	U	Y	Y	Y	Y	MOC	MOC	TILL
CATS-316	9.6	0.5	9.1	1.9	7.2	252.9	187.5	65.4	32.5	32.9	P	60	40	0	0	U	Y	Y	Y	Y	MOC	MOC	TILL
CATS-317	8.0	0.5	7.5	2.1	5.4	263.7	224.3	39.4	10.2	29.2	P	60	40	0	0	U	Y	Y	Y	+	DOC	DOC	TILL
CATS-318	8.0	0.5	7.5	0.4	7.1	202.7	197.0	5.7	1.9	3.8	P	60	40	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-319	10.7	0.5	10.2	3.2	7.0	175.6	161.4	14.2	6.5	7.7	P	60	40	0	0	S	MC	-	N	Y	OC	NA	SAND + GRAVEL
CATS-320	8.7	0.5	8.2	2.5	5.7	265.6	243.4	22.2	7.8	14.4	P	60	40	0	0	U	Y	Y	Y	Y	OC	OC	TILL
CATS-321	8.1	0.5	7.6	1.4	6.2	191.2	178.0	13.2	5.9	7.3	P	50	50	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-322	10.0	0.5	9.5	1.7	7.8	271.6	231.1	40.5	27.6	12.9	P	70	30	0	0	U	Y	Y	Y	Y	GG	OC	TILL
CATS-323	8.6	0.5	8.1	0.9	7.2	290.9	256.4	34.5	19.3	15.2	P	70	30	0	0	U	Y	Y	Y	Y	OC	OC	TILL
CATS-324	8.9	0.5	8.4	1.8	6.6	218.2	206.4	11.8	5.3	6.5	P	60	40	0	0	U	Y	Y	Y	Y	OC	OC	TILL
CATS-325	10.9	0.5	10.4	3.3	7.1	296.8	244.8	52.0	30.0	22.0	P	60	40	0	0	U	Y	Y	Y	Y	GG	GG	TILL
CATS-326	7.9	0.5	7.4	0.7	6.7	138.1	122.4	15.7	8.9	6.8	P	80	20	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-327	9.0	0.5	8.5	1.9	6.6	248.3	211.5	36.8	19.8	17.0	P	30	70	0	0	U	Y	Y	Y	Y	DOC	DOC	TILL
CATS-328	9.5	0.5	9.0	1.3	7.7	222.0	220.1	1.9	1.5	0.4	P	70	30	0	0	U	+	Y	-	Y	BE	BE	TILL
CATS-329	10.5	0.5	10.0	2.2	7.8	260.2	228.4	31.8	20.7	11.1	P	50	50	0	0	U	Y	Y	Y	Y	LOC	LOC	TILL
CATS-332	10.8	0.5	10.3	1.8	8.5	329.6	259.9	69.7	34.1	35.6	P	60	40	0	0	U	Y	Y	Y	Y	MOC	MOC	TILL
CATS-333	11.5	0.5	11.0	3.6	7.4	244.2	182.2	62.0	28.6	33.4	P	50	50	0	0	U	Y	Y	Y	Y	MOC	MOC	TILL
CATS-334	6.8	0.5	6.3	1.3	5.0	200.8	157.8	43.0	20.1	22.9	P	60	40	0	0	U	Y	Y	Y	Y	LOC	LOC	TILL
CATS-335	9.8	0.5	9.3	4.1	5.2	186.4	162.9	23.5	12.2	11.3	P	80	20	0	0	U	Y	Y	Y	Y	LOC	LOC	TILL

*Larger clasts removed by hand in the field.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY**

Filename: 20156936 - MDNR - Eisenheimer - (CATS-14), June 2015

Total Number of Samples in this Report = 33

Batch Number: 6936

Sample Number	Number of Visible Gold Grains				Total HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
CATS-301	2	1	1	0	4.2	108	89	19	0
CATS-302	7	6	1	0	4.1	60	59	1	0
CATS-303	0	0	0	0	5.1	340	0	340	0
CATS-304	4	3	1	0	160.2	15	15	<1	0
CATS-305	2	1	1	0	6.1	8	4	4	0
CATS-306	3	1	1	1	8.8	57	1	44	12
CATS-307	9	2	5	2	15.6	991	7	982	2
CATS-308	14	5	8	1	8.4	734	444	287	3
CATS-309	14	4	7	3	11.8	75	16	29	30
CATS-310	2	1	0	1	2.6	33	31	0	2
CATS-311	2	2	0	0	6.1	5	5	0	0
CATS-312	1	0	1	0	1.5	16	0	16	0
CATS-313	28	11	14	3	32.9	256	172	83	2
CATS-314	9	1	5	3	28.5	4	1	2	1
CATS-315	16	8	5	3	3.1	823	580	183	60
CATS-316	15	9	5	1	32.5	84	76	8	<1
CATS-317	4	3	1	0	10.2	13	11	2	0
CATS-318	3	2	1	0	1.9	117	104	13	0
CATS-319	2	1	1	0	6.5	7	4	4	0
CATS-320	3	2	1	0	7.8	60	35	25	0
CATS-321	5	3	1	1	5.9	56	19	33	4
CATS-322	5	3	1	1	27.6	5	4	<1	1
CATS-323	5	3	2	0	19.3	4	3	2	0
CATS-324	4	2	0	2	5.3	8	2	0	6
CATS-325	3	2	0	1	30.0	2	1	0	1
CATS-326	2	1	1	0	8.9	10	1	9	0
CATS-327	7	4	3	0	19.8	27	21	7	0
CATS-328	2	1	0	1	1.5	58	4	0	54
CATS-329	0	0	0	0	20.7	0	0	0	0
CATS-332	5	3	2	0	34.1	14	13	1	0
CATS-333	19	8	5	6	28.6	43	21	4	18
CATS-334	2	0	2	0	20.1	298	0	298	0
CATS-335	5	4	0	1	12.2	13	11	0	2

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

Filename: 20156936 - MDNR - Eisenheimer - (CATS-14), June 2015

Total Number of Samples in this Report = 33

Batch Number: 6936

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Total HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
CATS-301	Yes	8 C	25	50		1		1		19	No sulphides.
		13 C	50	75	1			1		89	
							<u>2</u>	4.2	<u>108</u>		
CATS-302	Yes	3 C	15	15	1	1		2		3	2 grains pyrite (25µm).
		5 C	25	25	3			3		18	
		8 C	25	50	2			2		40	
							<u>7</u>	4.1	<u>60</u>		
CATS-303	Yes	8 C	25	50			1	1		16	No sulphides.
		15 C	50	100			1	1		126	
		18 C	50	125			1	1		198	
							<u>3</u>	5.1	<u>340</u>		
CATS-304	Yes	3 C	15	15			1	1		<1	~20 grains pyrite (25-75µm).
		5 C	25	25	1			1		<1	
		10 C	25	75	1			1		1	
		22 C	75	150	1			1		13	
							<u>4</u>	160.2	<u>15</u>		
CATS-305	Yes	5 C	25	25	1	1		2		8	~15 grains pyrite (25-50µm).
							<u>2</u>	6.1	<u>8</u>		
CATS-306	Yes	3 C	15	15	1			1		1	~40 grains pyrite (50-200µm).
		10 C	25	75			1	1		12	
		13 C	50	75			1	1		44	
							<u>3</u>	8.8	<u>57</u>		
CATS-307	Yes	3 C	15	15		1	1	1	2	1	No sulphides.
		5 C	25	25	1		1	1	2	3	
		8 C	25	50	1	1		2		10	
		13 C	50	75		1		1		24	
		75 M	75	150		1		1		456	
		34 C	100	250		1		1		496	
							<u>9</u>	15.6	<u>991</u>		
CATS-308	Yes	3 C	15	15	1	2		3		2	5 grains pyrite (75-150µm).
		5 C	25	25	1	1	1	3		9	
		8 C	25	50	1	1		2		19	
		13 C	50	75		1		1		44	
		15 C	50	100		1		1		76	
		15 C	75	75			2	2		153	
		20 C	100	100	1			1		179	
		22 C	100	125	1			1		253	
							<u>14</u>	8.4	<u>734</u>		
CATS-309	Yes	3 C	15	15	1	3		4		2	No sulphides.
		5 C	25	25	1	2		3		6	
		8 C	25	50	2	1	2	5		35	
		10 C	25	75		1	1	2		33	
							<u>14</u>	11.8	<u>75</u>		
CATS-310	Yes	3 C	15	15			1	1		2	7 grains pyrite (50-100µm).
		8 C	25	50	1			1		31	
							<u>2</u>	2.6	<u>33</u>		
CATS-311	Yes	3 C	15	15	1			1		1	No sulphides.
		5 C	25	25	1			1		4	
							<u>2</u>	6.1	<u>5</u>		
CATS-312	Yes	5 C	25	25		1		1		16	No sulphides.
							<u>1</u>	1.5	<u>16</u>		

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

Filename: 20156936 - MDNR - Elsenheimer - (CATS-14), June 2015

Total Number of Samples in this Report = 33

Batch Number: 6936

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Total HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
CATS-313	Yes	3 C	15	15	4	4	1	9	1	No sulphides.	
		5 C	25	25	3	2	2	7	5		
		8 C	25	50	1	3		4	10		
		10 C	50	50		2		2	12		
		13 C	50	75		1		1	11		
		15 C	50	100	1	1		2	39		
		18 C	75	100	1	1		2	61		
		27 C	100	175	1			1	116		
							28	32.9	256		
CATS-314	Yes	3 C	15	15		3	2	5	1	No sulphides.	
		5 C	25	25	1	2	1	4	3		
								9	28.5	4	
CATS-315	Yes	3 C	15	15	3	1		4	7	3 grains pyrite (75µm).	
		5 C	25	25	2	1	1	4	31		
		8 C	25	50	1	2	2	5	132		
		13 C	50	75		1		1	120		
		15 C	50	100	1			1	207		
		18 C	75	100	1			1	326		
							16	3.1	823		
CATS-316	Yes	3 C	15	15	3	2	1	6	1	No sulphides.	
		5 C	25	25	2	2		4	3		
		8 C	25	50	1			1	3		
		10 C	25	75		1		1	6		
		10 C	50	50	1			1	6		
		15 C	75	75	1			1	20		
		20 C	100	100	1			1	46		
									15	32.5	84
CATS-317	Yes	3 C	15	15	1			1	1	1 grain copper (75µm; contamination).	
		5 C	25	25	1	1		2	5		
		8 C	25	50	1			1	8		
							4	10.2	13		
CATS-318	Yes	3 C	15	15	1			1	3	No sulphides.	
		5 C	25	25		1		1	13		
		10 C	25	75	1			1	101		
							3	1.9	117		
CATS-319	Yes	5 C	25	25	1	1		2	7	No sulphides.	
								2	6.5	7	
CATS-320	Yes	8 C	25	50	1			1	10	5 grains pyrite (25-75µm).	
		10 C	25	75	1	1		2	49		
								3	7.8	60	
CATS-321	Yes	3 C	15	15	1			1	1	No sulphides.	
		5 C	25	25	1		1	2	8		
		8 C	25	50	1			1	14		
		10 C	25	75		1		1	33		
							5	5.9	56		
CATS-322	Yes	3 C	15	15	1	1		2	<1	3 grains pyrite (50µm).	
		5 C	25	25	1		1	2	2		
		8 C	25	50	1			1	3		
							5	27.6	5		
CATS-323	Yes	3 C	15	15	1	1		2	1	No sulphides.	
		5 C	25	25	2	1		3	4		
							5	19.3	4		

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Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Total HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
CATS-324	Yes	3 C	15	15	2			1	3	3	No sulphides.	
		5 C	25	25				1				1
								4	5.3	8		
CATS-325	Yes	3 C	15	15	1				1	<1	No sulphides.	
		5 C	25	25	1			1	2			2
								3	30.0	2		
CATS-326	Yes	3 C	15	15	1				1	1	3 grains pyrite (50-100µm).	
		8 C	25	50								1
								2	8.9	10		
CATS-327	Yes	3 C	15	15	2				2	1	No sulphides.	
		5 C	25	25	1	2		3	4			
		8 C	25	50		1		1	4			
		13 C	50	75	1			1	19			
								7	19.8	27		
CATS-328	Yes	3 C	15	15	1				1	4	No sulphides.	
		8 C	25	50								1
								2	1.5	58		
CATS-329	Yes	NO VISIBLE GOLD								0	No sulphides.	
CATS-332	Yes	3 C	15	15	1	1			2	<1	No sulphides.	
		5 C	25	25		1		1	1			
		8 C	25	50	1			1	2			
		13 C	50	75	1			1	11			
								5	34.1	14		
CATS-333	Yes	3 C	15	15	3	3		2	8	1	6 grains pyrite (50-100µm).	
		5 C	25	25	2	1		2	5			4
		8 C	25	50	2	1		1	4			11
		13 C	50	75	1			1	2			26
								19	28.6	43		
CATS-334	Yes	13 C	50	75		1			1	19	No sulphides.	
		75 M	100	100		1		1	280			
								2	20.1	298		
CATS-335	Yes	3 C	15	15	1				1	<1	~100 grains pyrite (50-500µm).	
		5 C	25	25	2			1	3			6
		8 C	25	50	1			1	7			
								5	12.2	13		