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## PROSPECTING

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# AND

# **GEOCHEMICAL SAMPLING**

## **OF THE**

# H.O.C. 1-16 CLAIMS

Located in the Tootsee River Area Watson Lake Mining District Yukon Territory, Canada NTS 105 B 01

60°00' to 60°03' North Latitude 130°22' West Longitude

PREPARED FOR: TANANA EXPLORATION INC. 27 TUTSHI ROAD WHITEHORSE, YUKON Y1A 3R4

> BY: WADE CARRELL

DATE WORK PERFORMED: Aug. 6 - Aug. 9, 2005

DATE OF REPORT: January 2006

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## **INTRODUCTION**

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This report outlines prospecting and geochemical exploration work directed at appraising the mineral potential of the HOC claims in the Rancheria area in south eastern Yukon. The exploration work was carried out during the 2005 field season and was based on research completed by Wade Carrell, whose statement of qualifications are appended to this report. Personnel involved in the project were Wade Carrell and 1 contract worker. The project was completed for a cost of \$3,342.00 (see Appendix A for details).

## **PROPERTY LOCATION**

The property is located at approximately 60°00'N to 60°03'N Latitude / 130°23'W Longitude on the Wolf Lake map sheet as shown of claim map sheet 105 B 01. This area lies immediately south of a known 3 to 7 million tonne Pb-Zn-Ag occurrence on the Wildcat claims (Minfile 105B-001, Star occurrence) which was discovered in 1983 during drilling of a significant EM anomaly by Butler Mountain Minerals Inc.

The project area lies approximately 5 km west of the Tootsee River in the Rancheria area of the southeast Yukon (see Figure 1) and lies within the Watson Lake Mining District in the traditional territory of the Liard First Nation (See Figure 2).

#### **PROPERTY ACCESS**

From Whitehorse, area access is best accomplished by road east on the Alaska Highway to the Rancheria area, a distance of approximately 270 km one way. Further access to the property is accomplished by use of existing mining roads consisting of 4x4 and quad trails that leave the highway to the south at a point east of Rancheria.

#### LIST OF CLAIMS

The property currently comprises a contiguous rectangular block of 16 quartz mineral claims situated west of Tootsee River and lying in a north-south orientation. The claims are shown on claim map sheet 105B 01 (see Figure 3).

Details of the claims are as follows;

<u>Claim Name</u>	<u>Grant No.</u>	Expiry Date*
HOC 1-16	YC25212-YC25227	Sept. 3, 2007

\*following acceptance of this report







HOC Property - Claim Map

## **EXPLORATION HISTORY**

An abundance of underexplored and unstaked high grade silver-lead-zinc targets are known to exist within this region which is easily accessible directly from the Alaska highway in an area that has not seen any significant exploration activity for nearly 20 years. During two previous periods of historic exploration in this region, work was highly concentrated on a few specific occurrences. Little or no followup work on targets identified peripheral to these occurrences on the extensive claims holding of a small number of companies which blanketed the area was carried out and many of these claims were held afterwards by payments in lieu of work for extended periods of time. Numerous historic assessment reports that are now open, but have not yet been incorporated into the MINFILE database are available for viewing in the library at the Elijah Smith building. Research of these reports has lead to the identification of most of the targets described in this regional reconnaissance proposal.

Late in the 2004 exploration season, the company staked a row of claims to protect this target in anticipation of carrying out the exploration program outlined above. No work, other than the historic surveying described above has been carried out over this ground and although staked for the purposes of protection, this area should be considered as a reconnaissance target.

This area lies immediately south of a known 3 to 7 million tonne Pb-Zn-Ag occurrence on the Wildcat claims (Minfile 105B-001, Star occurrence) which was discovered in 1983 during drilling of a significant EM anomaly by Butler Mountain Minerals Inc. Geophysics carried out during that time period indicated a significant EM signature further to the south which research suggests has apparently never been followed up. Prospecting and geochemical sampling, was carried out to investigate these prospective and coincident features.

# **REGIONAL GEOLOGY**

The main target of exploration was a variety of silver-lead-zinc mineral deposit types, principally represented by two main deposit types, consisting of carbonate replacements and polymetallic veins in faults and shear zones.

Precious and base metal mineralization occurring within Paleozoic sedimentary rocks and Cretaceous plutonic rocks as veins and replacement lenses is well documented throughout the Rancheria area within and along the eastern margin of the Cassiar Batholith (see generalized Regional Geology, Figure 4). Numerous occurrences (30+) were discovered during two main periods of exploration in the late 1970's and the mid to late 1980's that dominately contain silverrich galena, sphalerite, pyrite and chalcopyrite as well as lesser amounts of arsenopyrite, freibergite, tetrahedrite and pyrrhotite.



Mineralization appears to be structurally controlled by northeast-southwest jointing and to a lesser extent, by the lithological contact between limestone and phyliite. It is attributed to the migration of hydrothermal solutions migrating along the jointing and is readily identified in the field by the presence of iron and manganese gossans.

Interestingly, mapping of this area indicates a fault perpendicular to and running off the Dale fault (discussed above), coincident with the unexplained geophysical anomaly in this area.

## **DESCRIPTION AND SUMMARY OF WORK**

A prospecting and geochemical exploration program for various types of Ag-Pb-Zn mineralization was undertaken during the 2005 field season. The project relied heavily on ongoing detailed research and a program of targeted geochemical till sampling and region prospecting to vector targets for more a detailed followup program. Targeted geochemical sampling of basal till and stream sediments and prospecting was carried out during the period between Augusut 6 to 9, 2005 as shown on the sample location map in the map pocket.

Sampling was carried out in the priority areas described using techniques employed by the Yukon Geological Survey. Detailed prospecting and sampling of representative lithologies was carried out in conjunction with till sampling.

Upon completion of this initial phase, samples were submitted to Acme Analytical Labs in Vancouver, B.C. for standard ICP multi-element analysis. A total of \$3,342.00 was spent completing this work, compiling it, interpreting it and reporting on the results of it.

#### **GEOCHEMICAL ANALYSIS AND RESULTS**

A complete set of all the results of the project are included in this report, maps and plans indicating the location of all work performed and samples taken are included at an appropriate scale. Copies of all assay and analytical results are submitted as Appendix D and locational information is included as Appendix C. Samples were analyzed by ICP/ES & MS techniques for thirty different elements. Sampling of the high ground on the HOC 1 and 2 claims revealed a moderate strength anomaly on the southeast trending spur in that area. Values for silver in this area were elevated and also showed higher than background values for arsenic. Stream sediment samples collected from the east flowing stream at the south end of the claim block (running parallel to the B.C./Yukon border) returned weakly anomalous base and precious metal values that were highest in the area underlain by the claim block.

# CONCLUSIONS AND RECOMMENDATIONS

Although the stream sediment and till sampling program carried out during the 2005 field season returned weak to moderate anomalies, they reflect enrichment at the top of the strati-graphic package. The massive sulfide deposit on the Wildcat claims to the North of the H.O.C. claims, was found by drilling to depth on an E.M. anomaly, adjacent to the same fault that strikes through the H.O.C. claim block. The untested E.M. anomaly on the H.O.C. claims is four times the magnitude and is expected to represent another deposit at depth. The work completed in 2005 represents a first pass reconnaissance program only. A grid controlled till sampling program, followed up by ground geo-physics is recommended. Prior to excavator trenching or diamond drilling a detailed compilation map of the coincident geo-chemical and geo-physical anomalies should be produced digitally.

HOC

# CONCLUSIONS AND RECOMMENDATIONS

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YUKON GEOLOGICAL SURVEY WEBSITE – MAP GALLERY

APPENDIX A

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STATEMENT OF EXPENDITURES

## STATEMENT OF EXPENDITURES

CANADA -- In the matter of prospecting and geochemical survey assessment work filed on the HOC 1, 2, 3, 4, 11, 12, 15 and 16 claims.

I, Wade Carrell a prospector with Tanana Exploration Inc. of Whitehorse, Yukon do solemnly declare that a program consisting of prospecting, stream sediment and till sampling was carried out on the HOC 1, 2, 3, 4, 11, 12, 15 and 16 mineral claims during the period between August 6<sup>th</sup> to August 9<sup>th</sup>, 2005 (inclusive).

The following expenses were incurred during the course of this work and in the compilation and reporting of the results.

LABOUR:	Wade Carrell (Prospe Neil Regimbald (Assi	ctor) istant)	4 days @ \$250 1 days @ \$150	\$1,000.00 150.00
				\$1,150.00
FOOD/CAM	P COST:	5 man	days @ \$70.00	350.00
TRANSPOR	TATION:	400 kı	n @ \$0.48	192.00
QUAD AND	TRAILER:			390.00
ANALYSIS:				694.86
FIELD SUPP	PLIES:			115.14
REPORT PR	EPARATION:			450.00
TOTAL CO	STS			\$3,342.00

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Dated at Whitehorse in the Territory of the Yukon this 29<sup>th</sup> day of November, 2005.

Wade Carrell

# **APPENDIX B**

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# STATEMENT OF QUALIFICATIONS

# STATEMENT OF QUALIFICATIONS

I, Wade Carrell, of 27 Tutshi Road, Whitehorse , in the Territory of the Yukon, DO HEREBY CERTIFY:

- 1. THAT I am a Prospector working independantly in Whitehorse, Yukon and that I am a Canadian citizen over the age of nineteen with no net income from mineral production.
- 2. THAT I have sucessfully completed the Yukon Chamber of Mines Basic Prospecting Course (1993) and the Advanced Prospecting Course (1994 and 1998).
- 3. THAT I have been engaged in mineral exploration and mining for 13 years in the Yukon and have work extensively on both hardrock and placer projects for myself and in the past for 15053 Yukon Inc.and for Tanana Exploration Inc, both of Whitehorse and for Klondike Gold Corporation of Vancouver, B.C.
- 4. THAT I have personally undertaken and supervised the exploration work outlined herein, which was carried out during the period from August 6 to 9, 2005.

SIGNED at Whitehorse, Yukon Territory, this 30<sup>th</sup> day of January 2006.

Wade S. Carrell

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**APPENDIX C** 

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WAY POINT LIST / DESCRIPTION

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# Waypoint List

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 Map Name
 : 105B01.GIF

 Map File
 : C:\OziExplorer\Maps\Maps\50000\105B01.MAP

Datum : NAD83

Waypoint File : C:\OziExplorer\Data\Meister\HOC\_04-05\_sample\_location\_map.wpt

2005/12/15 11:24:27 AM

Num	Name	Zone	Easting	Northing	Alt(ft)	Description	
3	05R-02	9V	423833	6653048	4663	Quartzite	
9	05S-01	9V	423276	6652253	4460		
10	05S-02	9V	423442	6652285	4468		
11	05S-03	9V	423603	6652269	4422		
12	05S-04	9V	423767	6652279	4344		
13	05S-05	9V	423925	6652318	4458		
14	05S-06	9V	424078	6652373	4305		
15	05S-07	9V	424204	6652427	4266		
16	05S-08	9V	424413	6652447	4220		
17	05S-09	9V	422807	6652262	4623		
18	05S-10	9V	423028	6652247	4581		
19	05S-11	9V	423269	6653389	4841		
20	05S-12	9V	423593	6653330	4723		
21	05S-13	9V	424030	6653288	4528		
22	05S-14	9V	424371	6653333	4425		
23	05S-15	9V	428022	6653695	3224		
24	05S-16	9V	424506	6654621	4539		
25	05S-17	9V	424658	6654739	4520		
26	05S-18	9V	424796	6654832	4496		
27	05S-19	9V	424926	6654922	4448		
28	05S-20	9V	424963	6655072	4387		
35	05T-01	9V	423437	6655456	5119		
36	05T-02	9V	423631	6655333	5135		
37	05T-03	9V	423778	6655317	5102		
38	05T-04	9V	423904	6655412	5129		
39	05T-05	9V	424071	6655387	5036		
40	05T-06	9V	424139	6655199	4944		
41	05T-07	9V	424277	6655053	4801		
42	05T-08	9V	424408	6654943	4686		
43	05T-09	9V	424583	6654810	4593		
44	05T-10	9V	424716	6654679	4499		
121	HOC-01	9V	423838	6655753	5092	Claim posts	
122	HOC-03	9V	423855	6655328	5051	Claim posts	
123	HOC-05	9V	423835	6654862	4793	Claim posts	
124	HOC-07	9V	423841	6654436	4739	Claim posts	
125	HOC-09	9V	423876	6653965	4798	Claim posts	
126	HOC-11	9V	423842	6653536	4745	Claim posts	
127	HOC-13	9V	423831	6653057	4677	Claim posts	
128	HOC-15	9V	423828	6652607	4566	Claim posts	
129	HOC-16	9V	423831	6652190	4333	Claim posts	

# Map Feature Waypoints

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**APPENDIX D** 

CERTIFICATES OF ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 (ISO 9001 Accredited Co.) GEOCHEMICAL ANALYSIS CERTIFICATE Tanana Exploration Inc. File # A504845 27 Tutshi Road, Whitehorse YT Y1A 3R4 Submitted by: W. Carrell SAMPLE# Мо Cu Pb Zn Ag N1 Co Min Fe As U Au Th Sr Cd Sb B1 V Ca P La Cr Mg Ba Ti B Al Na K W Hg Sc Tl S Ga Se ppm ppm pon pon DOM DOM DOM DOM X ppm ppm 05R-02 1.5 7.4 79.8 <1 .1 5.0 .9 10 .73 1.9 .1 1.3 .4 1 <.1 .3 .1 1 .02 .014 4 7.3 <.01 7<.001 2 .02 .001 .01 .3 <.01 .1 <.1 <.05 <1 <.5 GROUP 1DX - 15.00 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. - SAMPLE TYPE: Rock R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns. ept 13/05 DATE RECEIVED: AUG 22 2005 DATE REPORT MAIL larence Leo All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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	05S-02 05S-03	1.9 1.9	10.1 11.3	35.4 19.8	127	7.1 7.1	9.8 12.2	4.2 5.0	417 411	1.45 1.72	21.6 24.0	4.0 4.9	14.1 12.9	14.5 14.2	24 33	.5 .5	1.12 1.4	.0 .5	29 33	.74 .80	.118 .123	23 24	11.2 16.1	.51	112 152	.055	1 2	.96	.021	.16	.4.0	2 1.9	.2<.0	5 4	<.5 < 5	15.0	
	05S-04	2.0	9.8	12.3	79	9.1	10.0	4.7	321	2.09	19.2	5.0	10.0	20.4	29	.3	1.54	.6	43	.58	. 145	35	14.9	. 36	139	.047	ī	.88	.021	.11 4	.8.0	2 1.8	.2<.0	5 4	<.5	15.0	
	05S-05 05S-06	1.6 2.4	8.3 10.7	11.6 14.5	72	2.1 1.1	9.7 13.4	4.2 6.6	258 410	1.71 2.59	17.8 21.1	4.7 6.4	8.9 1.3	19.3 22.0	29 40	.2 .3	1.21 1.42	.7 .5	37 52	.61 .67	.147 .136	33 40	12.7 20.2	.37 .51	126 184	.047	1 1 :	.89 1.28	.021 .034	.11 1 .14 3	.4 .0	3 1.7 1 2.4	.2<.0 .2<.0	54 55	.5 <.5	15.0 15.0	
	05S-07 05S-08	1.6 1.2	8.1 11.0	11.2 13.3	61 67	l.1 7.1	9.7 11.6	4.6 4.0	292 267	2.86 1.84	14.9 11.1	6.4 2.2	4.3 6.2	45.8 17.0	26 21	.2 .4	1.37 1.22	.5 .8	61 37	.57 .48	. 161 . 132	73 34	17.6 15.4	.30 .30	130 196	.045	1 1	.79 .78	.020 .015	.095 .091	.0.0 .2.0	2 1.5	.2<.0 .1<.0	54 54	<.5 <.5	15.0 30.0	
	055-09	.7	7.2	14.5	60	).1	7.6	5.6	442	2.65	6.0	3.1	1.1	28.9	18	.3	1.65	.7	49 2	.40	.117	37	11.9	1.34	213	.055	1	. 85	.008	.14 5	.3.0	1 1.9	.2<.0	5 5	<.5	30.0	
	05S-10 05S-11	.3 .2	4.9 4.0	7.1 6.1	39 30	9 <.1 ) <.1	4.2 4.8	2.9 3.0	341 197	1.01 1.24	2.4 1.1	1.8 1.8	5.6 7.4	16.3 19.2	14 7	.1 .1	.5 .1	.5 .7	18 2 23	.08 .25	.091 .142	21 38	4.2 9.2	.99 .17	158 30	.049 .049	<1 <1	.70 .74	.008	.15 .12	.7 .0	1 1.4 1 1.1	.2<.0 .1<.0	53 54	<.5 <.5	30.0 15.0	
	05S-12 05S-13	.5 .9	2.2	4.3	17	/ <.1 5 <.1	2.7 2.1	1.3 1.8	96 168	.61 1.02	.6 1.4	3.7 3.2	6.1 5.8	6.6 14.6	8 7	<.1 .1	.1 .2	.3 .4	13 20	.17 .14	.074 .052	26 37	4.7 4.8	.10 .07	31 35	.021 .027	1 1	.44 .34	.004 .004	.04 .03	.2 .0	1.5 1.5	<.1<.0	52 53	<.5 <.5	30.0 15.0	
	055-14	2.9	3.6	6.6	34	4.1	3.8	4.9	866	1.54	2.9	5.9	7.0	18.1	12	.1	.12	.3	27	.29	.118	38	7.1	.18	67	.038	1	.70	.006	.08	.3.0	2 1.1	.2<.0	5 3	<.5	15.0	
	055-15 055-16	1.6	26.5	10.4		J.I 4.1	28.2 9.3	7.0 5.9	584 579	2.5/	10.9 6.2	2.2	4.7	9.5	24 15	.7	1.3 1 .4	.4 .4	39 26	.75 .29	.092 .091	22 25	19.7 12.2	.58 .30	825 69	.023 .048	1 <1	.61 .92	.009 .009	.06 .11	.3.0	$   \begin{array}{c}       5 & 1.3 \\       1 & 1.5   \end{array} $	.1<.0 .1<.0	15 3 15 4	.9 <.5	7.5 15.0	
	055-17 055-18 055-19	1.8	4.9	12.0		4.1	6.7	6.1	693	1.78	0.5 10.6	2.3	4.9	10.7 9.4	14 16	.3	.3 .4 1	.3	26	.2/ .31	.092	22	10.0 10.9	.31 .30	66 74	.053	<1 <1	.87 .92	.009	.13 .09	.2 .0	)2 1.5 )1 1.5	.2<.0 .1<.0	15 4 15 4	<.5 <.5	7.5 7.5	
	055-20	.5	2.6	10.0	· 40		J.1 4 Q	27	167	1.00	7.0 6.4	2.0	2.3	12.2	10	.1	.2	.9	21	.32 36	.117	20	0.0 6.4	. 19	50	.036	<1 1	.61	.006	.06	.2<.0	)1 1.1	· .1<.(	15 3 vr a	<.5	30.0	
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## PROSPECTING

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# AND

# **GEOCHEMICAL SAMPLING**

# **OF THE**

# MS 115-120, 122 and 124-126 CLAIMS

Located in the Meister River Area Watson Lake Mining District Yukon Territory, Canada NTS 105 B 08

60° 17' 30" North Latitude 130° 19' West Longitude

PREPARED FOR: TANANA EXPLORATION INC. 27 TUTSHI ROAD WHITEHORSE, YUKON Y1A 3R4

# BY: WADE CARRELL

DATE WORK PERFORMED: Aug. 13 - Aug. 16, 2005

DATE OF REPORT: January 2006

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#### **INTRODUCTION**

This report outlines prospecting and geochemical exploration work directed at appraising the mineral potential of the MS claims in the Meister River area in south eastern Yukon. The exploration work was carried out during the 2005 field season and was based on research completed by Wade Carrell, whose statement of qualifications are appended to this report. Personnel involved in the project were Wade Carrell and one contract worker. The project was completed for a cost of \$4,022.00 (see Appendix A for details).

#### **PROPERTY LOCATION**

The property is located at approximately 60° 17' 30" N Latitude / 130° 19' W Longitude on the Wolf Lake map sheet as shown of claim map sheet 105 B 08 and has previously been described as Minfile Occurrence #105B 114. The project area lies approximately 2.5 km south of Meister River in the Rancheria area of the southeast Yukon (see Figure 1) and lies within the Watson Lake Mining District in the traditional territory of the Liard First Nation (see Figure 2).

## **PROPERTY ACCESS**

From Whitehorse, area access is best accomplished by road east on the Alaska Highway to the Rancheria area, a distance of approximately 270 km one way. This property is road accessible via the Spencer Creek road and is situated 38 km north of the Alaska Highway. Further access to the property is accomplished by use of existing mining roads consisting of 4x4 and quad trails that leave the highway to the north at a point east of Rancheria.

#### LIST OF CLAIMS

The property currently comprises a contiguous block of 10 quartz mineral claims situated south of Meister River. The claims are shown on claim map sheet 105B 01 (see Figure 3).

Details of the claims are as follows;

<u>Claim Name</u>	<u>Grant No.</u>	Expiry Date*
MS 115-120	YC25245-YC25250	Sept. 10, 2009
MS 122	YC25252	Sept. 10, 2009
MS 124 -126	YC25254-YC25256	Sept. 10, 2009

\*following acceptance of this report







Kilometer(s)

Figure 3

#### **EXPLORATION HISTORY**

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Previously described as Minfile Occurrence #105B 114, this area was investigated by Regional Resource Ltd in the early 1980's and the main showing is still protected by a handful of claims by a successor company. An area contiguous to this occurrence was partially protected by staking completed by Tanana Exploration Ltd late in the 2004 exploration season, but except for few grab samples taken of known mineralization has not been explored since the mid 1980's. Significant potential for discovery also exists on vacant Crown Land to the east of this occurrence in the vicinity of Minfile occurrences 105B 138 and 139 which Regional Resources briefly explored as part of their work in this area. Research recently carried out by the author has indicated a number of historic assessment reports covering this area, the contents of which have not yet been incorporated into the MINFILE database. Prospecting, geochemical till sampling and further research have been employed to identify additional mineralized occurrences in this area. The prospectivity for discovery is considered high in this area due to the fact that only the most obvious of the historical targets were previously investigated and no work has been done in this area since the mid 1980's as many of the original 230 claims covering the area surrounding the Meister and other nearby occurrences were maintained by payment in lieu until Dec. 31, 2002.

An abundance of under explored and unstaked high grade silver-lead-zinc targets are known to exist within this region which is easily accessible directly from the Alaska highway in an area that has not seen any significant exploration activity for nearly 20 years. During two previous periods of historic exploration in this region, work was highly concentrated on a few specific occurrences. Little or no follow-up work on targets identified peripheral to these occurrences on the extensive claims holding of a small number of companies which blanketed the area was carried out and many of these claims were held afterwards by payments in lieu of work for extended periods of time. Numerous historic assessment reports that are now open, but have not yet been incorporated into the MINFILE database are available for viewing in the library at the Elijah Smith building.

## **REGIONAL GEOLOGY**

The main target of exploration within the area focused on a variety of silver-lead-zinc mineral deposit types, principally represented by two main deposit types, consisting of carbonate replacements and polymetallic veins in faults and shear zones.



Precious and base metal mineralization occurring within Paleozoic sedimentary rocks and Cretaceous plutonic rocks as veins and replacement lenses is well documented throughout the Rancheria area within and along the eastern margin of the Cassiar Batholith (see generalized Regional Geology, Figure 4). Numerous occurrences (30+) were discovered during two main periods of exploration in the late 1970's and the mid to late 1980's that dominately contain silverrich galena, sphalerite, pyrite and chalcopyrite as well as lesser amounts of arsenopyrite, freibergite, tetrahedrite and pyrrhotite.

Mineralization appears to be structurally controlled by northeast-southwest jointing and to a lesser extent, by the lithological contact between limestone and phyliite. It is attributed to the migration of hydrothermal solutions migrating along the jointing and is readily identified in the field by the presence of iron and manganese gossans.

#### **DESCRIPTION AND SUMMARY OF WORK**

A program of prospecting and geochemical sampling for various types of Ag-Pb-Zn mineralization was undertaken on the previously described MS claims during the 2005 field season. The project relied heavily on ongoing detailed research and a program of targeted geochemical till sampling and region prospecting to vector targets for more a detailed follow-up program. Targeted geochemical sampling of basal till and stream sediments and prospecting was carried out during the period between August 13 to 16, 2005 as shown on the sample location map in the map pocket.

Sampling was carried out in the priority areas described above using techniques employed by the Yukon Geological Survey. Detailed prospecting and sampling of representative lithologies was carried out in conjunction with till sampling.

Upon completion of this initial phase, samples were submitted to Acme Analytical Labs in Vancouver, B.C. for standard ICP multi-element analysis. A total of \$4,022.00 was spent completing this work, compiling it, interpreting it and reporting on the results of it.

#### **GEOCHEMICAL ANALYSIS AND RESULTS**

A complete set of all the results of the project are included in this report, maps and plans indicating the location of all work performed and samples taken are included at an appropriate scale. Copies of all assay and analytical results are submitted as Appendix D and locational information is included as Appendix C. The work confirmed historic values and indicated continuity of the mineralization along strike between the various historic trenches. High grade silver lead response which contains elevated precious metal values was widely detected.

Meistar

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## CONCLUSIONS AND RECOMMENDATIONS

The work completed in 2005 represents a first pass reconnaissance program only. High silver, lead, zinc and gold values were widely detected, confirming the continuity of mineralization at surface to a strike length in excess of one thousand meters. A grid controlled till sampling program, followed up by ground geo-physics is recommended, prior to excavator trenching or diamond drilling. A detailed compilation map of the coincident geo-chemical and geo-physical anomalies should be produced digitally. This digital compilation must include previous historical information. Relocation of cut lines, trenches and drill holes used by former operators will facilitate this mapping. A g.p.s. survey of the property will tie the old with the new.

# CONCLUSIONS AND RECOMMENDATIONS

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YUKON GEOLOGICAL SURVEY WEBSITE – MAP GALLERY

APPENDIX A

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STATEMENT OF EXPENDITURES

# STATEMENT OF EXPENDITURES

CANADA -- In the matter of prospecting and geochemical survey assessment work filed on the MS 118, 124, 125 and 126 claims.

I, Wade Carrell a prospector with Tanana Exploration Inc. of Whitehorse, Yukon do solemnly declare that a program consisting of prospecting, stream sediment and till sampling, including grab sampling was carried out on the MS 118, 124, 125 and 126 mineral claims during the period between August 13<sup>th</sup> to August 16<sup>th</sup>, 2005 (inclusive).

The following expenses were incurred during the course of this work and in the compilation and reporting of the results.

LABOUR:	Wade Carrell (Prospec	ctor)	4 days @ \$250	\$1,000.00
	Neil Regimbald (Assis	stant)	3 days @ \$150	450.00
				\$1,450.00
FOOD/CAMP	COST:	7 man	days @ \$70.00	490.00
TRANSPORT	ATION:	400 kn	n @ \$0.48	192.00
QUAD AND T	TRAILER:			660.00
ANALYSIS:				648.74
FIELD SUPPI	LIES:			131.26
REPORT PRE	PARATION:			450.00
TOTAL COS	TS			\$4,022.00

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Dated at Whitehorse in the Territory of the Yukon this 29<sup>th</sup> day of November, 2005.

Wade Carrell

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APPENDIX B

STATEMENT OF QUALIFICATIONS

# STATEMENT OF QUALIFICATIONS

I, Wade Carrell, of 27 Tutshi Road, Whitehorse , in the Territory of the Yukon, DO HEREBY CERTIFY:

- 1. THAT I am a Prospector working independantly in Whitehorse, Yukon and that I am a Canadian citizen over the age of nineteen with no net income from mineral production.
- 2. THAT I have sucessfully completed the Yukon Chamber of Mines Basic Prospecting Course (1993) and the Advanced Prospecting Course (1994 and 1998).
- 3. THAT I have been engaged in mineral exploration and mining for 13 years in the Yukon and have work extensively on both hardrock and placer projects for myself and in the past for 15053 Yukon Inc.and for Tanana Exploration Inc, both of Whitehorse and for Klondike Gold Corporation of Vancouver, B.C.
- 4. THAT I have personally undertaken and supervised the exploration work outlined herein, which was carried out during the period from August 6 to 9, 2005.

SIGNED at Whitehorse, Yukon Territory, this 30<sup>th</sup> day of January 2006.

Wade S. Carrell

**APPENDIX C** 

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WAY POINT LIST / DESCRIPTION

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# Waypoint List

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Map Name : 105B08.GIF

Map File : C:\OziExplorer\Maps\Maps\50000\105B08.MAP

Datum : NAD83

Waypoint File : C:\OziExplorer\Data\Meister\MS\_04-05\_sample\_location\_map.wpt

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Num	Name	Zone	Easting	Northing	Alt(ft)	Description	
32	05S-24	9V	425683	6685669	3567		_
33	05S-25	9V	425634	6685863	3423		
34	05S-26	9V	427357	6686775	3172		
45	05T-11	9V	426061	6685327	3828		
46	05T-12	9V	426167	6685065	3856		
47	05T-13	9V	426195	6684979	3868		
48	05T-14	9V	426228	6685003	3929		
49	05T-15	9V	426257	6684978	3899		
50	05T-16	9V	426248	6684980	3927		
51	05T-17	9V	426281	6684953	3916		
52	05T-18	9V	426311	6684902	3948		
53	05T-19	9V	426328	6684860	3973		
54	05T-20	9V	426334	6684840	3971		
55	05T-21	9V	426344	6684830	3964		
56	05T-22	9V	426366	6684718	3997		
57	05T-23	9V	426385	6684717	4004		
58	05T-24	9V	426530	6684624	4055		
59	05T-25	9V	426517	6684642	4052		
144	MS-115	9V	427170	6684989	4933	Claim posts	
145	MS-117	9V	426930	6684600	4932	Claim posts	
146	MS-119	9V	426700	6684210	4935	Claim posts	
147	MS-122	9V	425670	6684280	4921	Claim posts	
148	MS-124	9V	425920	6684670	4932	Claim posts	
149	MS-125	9V	426150	6685060	4935	Claim posts	
150	MS-126	9V	426400	6685461	4934	Claim posts	
160	MST-01	9V	426023	6685294	3837		
161	MST-02	9V	426190	6685098	3901		
162	MST-03	9V	426166	6685056	3894		
163	MST-04	9V	426238	6684978	3915		
164	MST-05	9V	426299	6684909	3938		
165	MST-06	9V	426340	6684835	3960		
166	MST-07	9V	426383	6684712	3969		
167	MST-08	9V	426516	6684648	3994		
168	MST-09	9V	426522	6684639	4013		

# **Map Feature Waypoints**

# **APPENDIX D**

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# CERTIFICATES OF ANALYSIS

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#### ACME ANALYTICAL LABORATORIES LTD. (ISO 9001 Accredited Co.)

#### 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716

ASSAY CERTIFICATE

Tanana Exploration Inc. File # A504846R 27 Tutshi Road, Whitehorse YT Y1A 3R4 Submitted by: W. Carrell

SAMPLE#	Pb %	Zn %	Ag gm/mt	Mn %	As %	
05T-11 05T-12 05T-13 05T-14 05T-15	.71 .05 1.51 .34 .13	6.88 4.60 5.78 5.06 5.78	14 16 103 84 69	7.30 6.82 6.31 11.47 11.29	.33 .11 .31 .32 .60	
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05T-21 05T-22 05T-23 RE 05T-23 05T-24	.99 1.12 6.48 6.51 .33	7.53 2.75 3.67 3.67 8.95	42 23 74 70 10	6.66 1.46 .69 .68 .70	.83 .98 1.41 1.40 1.03	
05T-25 STANDARD GC-2a	.08 8.99	11.31 16.30	30 1033	3.15 .22	$1.19 \\ .15$	

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 250 ML, ANALYSED BY ICP-ES. - SAMPLE TYPE: Till Pulp Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 28 2005 DATE REPORT MAILED:

Data Jy FA \_\_\_\_



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	MST-03	4.7	833.9	52 0>	10000	43.5	20	6 >500	00 24 3	0 620	.7 4.6	5 20 4	5.5	99	104 2	9.7	.30 473		DR 018	2	1.3	.02	81< 00	1 -1 1 -1	00.00	.003	.03 4	·. 2 . 1	14	3 4	1 < 1	15 35	3 - 3	
	MST-04	2.9	58.7	1320.7>	10000	85.1	2.2	.5 >500	00 34.1	B 784	.8 5.2	2 9.7	7.3	200	419.0	2.1 2	5.2 4		12 .036	2	2.6	.01	441<.00	1 <1		.002	.02	.1 .	04	.4	1 <.1	05	5 <.5	
	MST-05	7.3	212.2	868.5>	10000	34.3	8.3	.0 >500	00 27.1	0 1211	.8 7.5	5 20.3	3.4	104	225.6	2.5 30	0.0 6	i. i	11 .056	2	3.8	.02	427<.00	1 1	.04	.002	.01 1	.3.	04	.2 .	1 <.(	)5	4 .7	
	MST-06	3.4	75.7	1310.4>	10000 -	16.2	5.0	.9 388	96 28.3	6 360	.2 8.3	3 7.6	6.8	132	89.6	3.0 5	5.9 7		06 .034	,	28	01	317< 00	1 1	09	003	04 1	5	N2	A	1 < (	05	3 < 5	
	MST-07	30.9	283.3	1726.9>	10000	22.1 1	4.2	1.4 >500	00 27.0	0 5492	.6 8.3	3 6.3	2.2	167	341.0	18.0 64	4.2 4	 L. J	11 .040	3	2.2	.05	831<.00	1.1	L .08	.002	.01 1		06 1	.0 .	2 <.1	05	5.7	
	MST-08	4.4	179.9	2424.6>	10000	10.6	6.3	.4 23	61 34.5	5 >100	00 6.4	4 7.4	4 1.2	12	163.2	13.1 2	2.7 13		24 .052	5	9.0	.02	49<.00	1 2	2 .08	.002	.01 1	1.2.	06	.9 <.	.1 <.9	05	4 <.5	
	MST-09	1.4	58.5	644.3	8037	7.6	2.1	.1 2	32 30.1	3 8249	.2 10.3	3 4.8	8.3	9	65.7	6.0 !	5.6 7	4,4	43 .029	2	2.5	.05	26<.00	1 <		.001	<.01	ι.5.	03	.4 <.	.1 <.1	05	2 <.5	
····	STANDARD DS6	11.2	121.7	29.7	141	.3 2	4.4 1	).6 (	599 2.8	1 20	.8 6.	5 46.9	9 3.0	40	6.0	3.6 9	5.0 55	j.	86 .078	14	180.5	.57	163 .08	2 1!	5 1.90	.073	.15	3.4.	22 3	.3 1.	.7 <.0	05	6 4.7	
ROUP 1DX - 15 >) CONCENTRAT SAMPLE TYPE:	.00 GM SAM ION EXCEED Rock R150	IPLE S UP	LEAC PER   <u>Sam</u>	HED W LIMIT ples	ITH S. begi	90 M SOME nnin	L 2 MI 9 '	-2-2 NERAL <u>RE'</u> a	HCL- S MA are R	HNO3 Y BE erun:	-H2O PAR s and	AT TIAL <u>J'R</u>	95 D LY A RE'	DEG. ATTA are	C F CKED Rej	OR OI . RI <u>ect I</u>	NE HO EFRAC Rerur		, DIL RY AN	UTEI D GF	D TO RAPH	300 1110	) ML, Sam	AN.	ALYS S ca	ED N L	BY I Imit	CP-1 AU	IS. SOL	UBI	LITY	(.		
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	SAMPLE#	Pb	Zn	PA.	Mn	As	
<u> </u>		8	<u>%</u>	gm/mE	<u> </u>	8	
	MST-01 MST-02 MST-03 MST-04 MST-05	.27 .93 .01 .16 .10	9.59 2.82 12.84 3.06 13.30	311 43 39 81 34	15.83 10.46 29.12 20.30 13.75	.47 .11 .07 .11 .15	
	MST-06 MST-07 MST-08 RE MST-08 MST-09	.19 .21 .31 .32 .09	2.03 9.89 3.25 3.54 1.40	17 21 10 9 8	4.96 19.45 .28 .28 .30	.09 .57 1.61 1.69 1.45	
	STANDARD GC-2a	9.01	16.25	1034	.23	.14	
- SAMPLE TYPE: Roc	/ED: SEP 28 2005 DATE RE	SPORT MAI	LED:	D.t.		<u>IS</u> .	Clarence Leong



Q218 183 Q211 QQ212 armin Ø Q 220 .62 Bi, 24 Pb, 58Te QME 9 13 AL 39 AS 0<sub>P3?</sub> B 0 P34 OPI. 0 m59 13 0P35 014 ¥ Q P.12 OP3 OPZ 0 MGD Fig.4. Geochemical Survey, Geological F Magnetometer Interpretation Fig.4. Geochemical Survey, Geological F Magnetometer Interpretation Rock chip sample (float) Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois spin Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PJ to P42 Sois ppm Bi Soil sample - C PI to P42 Sois ppm Bi Sois ppm B  $d/f_{61} >$ 



Figure 5

MS Property-sample location Map







![](_page_52_Figure_1.jpeg)

This map is a compilation of data obtained from many Sources: sources. As such, the Mining Lands Branch accepts no responsibility for errors, inaccuracies, or omissions. Where the map differs from the actual post locations on the ground, the ground location has precedence. Category A Land - Contact First Nation for staking Category B Land - Contact Mining Recorder's Office for staking For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district: Whitehorse District Office: Rm 102 - 300 Main St Whitehorse, YT Y1A 2B5 Ph: (867) 667-3190 Fax: (867) 667-5150 email: whitehorse.mining@gov.yk.ca Dawson District Office: Box 249 Dawson City, YT Y0B 1G0 Ph: (867) 993-5343 Fax: (867) 993-6747

email: dawson.mining@gov.yk.ca Watson District Office: Box 269 Watson Lake, YT Y0A 1C0 Ph: (867) 536-7366 Fax: (867) 536-7842 email: watson.mining@gov.yk.ca Mayo District Office: Box 1) Mayo YT Y0B 1M0

Whitehorse, YT Y1A 2B5 Ph: (867) 667-3950 Fax: (867) 393-6707 Branch. For more information, please contact: Energy, Mines and Resources Lands Branch Rm 320-300 Main St Whitehorse, YT Y1A 2B5 Ph: (867) 667-5215 Fax: (867) 393-6285 email: land.disposition@gov.yk.ca Energy, Mines and Resources Agriculture Branch Rm 320 - 300 Main St Whitehorse, YT Y1A 2B5 Ph: (867) 667-5838 Fax: (867) 393-6222 For more information, please contact: Claims and Indian Government Rm 420 - 300 Main St Ph: (367) 996-2256 Fax: (867) 996-2617 Whitehorse, YT Y1A 2B5 email mayo.mining@gov.yk.ca

Ph: (867) 667-3814 Fax: (867) 667-3372

Other Resources: For access to airphotos, Mining Assessment Reports, and geology publications: Mining claim locations obtained from staking sketches except for Global Positioning System (GPS) located claims. 1:50000 scale digital topography obtained from Natural Resources Canada National Topographic System data. Yukon Energy, Mines and Resources Library Rm 335 - 300 Main St Survey data obtained from Natural Resources Canada Legal Surveys Division. For more information, please contact: Whitehorse, YT Y1A 2B5 Ph: (867) 667-3111 Fax: (867) 456-3888 email: emrlibrary@gov.yk.ca Natural Resources Canada Legal Surveys Division, Whitehorse Rm 225 - 300 Main St Yukon Geological Survey Rm 102 - 300 Main St Whitehorse, YT Y1A 2B5 Lands Information obtained from Energy, Mines and Resources Lands Ph: (867) 456-3808 Fax: (867) 667-3198 or: 2099 2nd Ave Whitehorse, YT Y1A 2C6 Ph: (867) 667-8508 Fax: (867) 393-6232 Yukon Geological Survey Maps and Publications are available by emailing: map.sales@gov.yk.ca or can be downloaded from: Agricultural Information obtained from Energy, Mines and Resources Agriculture Branch. For more information, please contact: www.geology.gov.yk.ca **Online Resources:** Interim Protected Land Claims Information obtained from Indian and Mining claims maps are also available online at the Northern Affairs Canada, Claims and Indian Government Mapping Yukon Mining Recorder Website: www.yukonminingrecorder.ca Yukon Geological Survey Maps, Minfile, and Publications are also available at the Yukon Geological Survey Website: www.geology.gov.yk.ca

![](_page_52_Figure_6.jpeg)

# XXX - TILL & ROCK SAMPLE LINES

**First Nation Settlement Land EMR Lands** Category Land Disposition A 22 Land Application В Agricultural Disposition FS Agricultural Application Privy Council Orders **First Nations Surveyed Lands** Category Mapsheet Index A [] 1:10000 Mineral Index В 1:50000 Mineral Index FS **Base Map Features** NRCan Legal Survey Cadastral Hydrographic First Nations Community Lots ----- Watercourse Special Access Rights through FN Lands Waterbody Mineral Claims Intermittent waterbody Community Land Transfers (Order in Council) Underwater sand Land Dispositions (Lots) Dry river bed Easements

![](_page_52_Figure_9.jpeg)

![](_page_53_Figure_0.jpeg)

This map is a compilation of data obtained from many sources. As such, the Mining Lands Branch accepts no Sources: responsibility for errors, inaccuracies, or omissions. Where the map differs from the actual post locations on the ground, the ground location has precedence. Category A Land - Contact First Nation for staking Category B Land - Contact Mining Recorder's Office for staking For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district: Rm 225 - 300 Main St Whitehorse, YT Y1A 2B5 Whitehorse District Office: Rm 102 - 300 Main St Whitehorse, YT Y1A 2B5 Ph: (867) 667-3190 Fax: (867) 667-5150 email: whitehorse.mining@gov.yk.ca Whitehorse, YT Y1A 2B5 Dawson District Office: Box 249 Dawson City, YT Y0B 1G0 Ph: (867) 993-5343 Fax: (867) 993-6747 email: dawson.mining@gov.yk.ca Watson District Office: Rm 320 - 300 Main St Box 269 Whitehorse, YT Y1A 2B5 Watson Lake, YT Y0A 1C0 Ph: (867) 536-7366 Fax: (867) 536-7842 email: watson.mining@gov.yk.ca Mayo District Office: Box 10

Mayo, YT Y0B 1M0 Ph: (867) 996-2256 Fax: (867) 996-2617 email: mayo.mining@gov.yk.ca

Mining claim locations obtained from staking sketches except for Global Positioning System (GPS) located claims. geology publications: 1:50000 scale digital topography obtained from Natural Resources Canada National Topographic System data. Rm 335 - 300 Main St Survey data obtained from Natural Resources Canada Legal Surveys Ph: (867) 667-3111 Fax: (867) 456-3888 Division. For more information, please contact: Natural Resources Canada Legal Surveys Division, Whitehorse Yukon Geological Survey Rm 102 - 300 Main St Ph: (867) 667-3950 Fax: (867) 393-6707 Lands Information obtained from Energy, Mines and Resources Lands Branch. For more information, please contact: Energy, Mines and Resources Lands Branch Rm 320-300 Main St or: 2099 2nd Ave Ph: (867) 667-5215 Fax: (867) 393-6285 email: land.disposition@gov.yk.ca available by emailing: map.sales@gov.yk.ca or can be downloaded from: Agricultural Information obtained from Energy, Mines and Resources Agriculture Branch. For more information, please contact: Energy, Mines and Resources Agriculture Branch www.geology.gov.yk.ca Online Resources: Ph: (867) 667-5838 Fax: (867) 393-6222 Interim Protected Land Claims Information obtained from Indian and Northern Affairs Canada, Claims and Indian Government Mapping For more information, please contact: Claims and Indian Government Rm 420 - 300 Main St Whitehorse, YT Y1A 2B5 Ph: (867) 667-3814 Fax: (867) 667-3372

Other Resources: For access to airphotos, Mining Assessment Reports, and Yukon Energy, Mines and Resources Library Whitehorse, YT Y1A 2B5

email: emrlibrary@gov.yk.ca

Whitehorse, YT Y1A 2B5 Ph: (867) 456-3808 Fax: (867) 667-3198

Whitehorse, YT Y1A 2C6 Ph: (867) 667-8508 Fax: (867) 393-6232

Yukon Geological Survey Maps and Publications are

Mining claims maps are also available online at the Yukon Mining Recorder Website: www.yukonminingrecorder.ca

Yukon Geological Survey Maps, Minfile, and Publications are also available at the Yukon Geological Survey Website: www.geology.gov.yk.ca

![](_page_53_Figure_12.jpeg)

# XXX - TILL & ROLK SAMPLE LINE

Mining Category > Staking Direction A ---- Placer Baselines В Mining District Boundaries FS **Claim Status** Active Quartz Claim Category Active Placer Claim A [] Expired Claim В FS Coal Coal Exploration Licence Coal Mining Lease Expired Licence or Lease Areas Withdrawn from Staking First Nation Interim Protected Lands Parks and Special Management Areas

**First Nation Settlement Land EMR Lands** Land Disposition Land Application Agricultural Disposition Agricultural Application Privy Council Orders **First Nations Surveyed Lands** Mapsheet Index 1:10000 Mineral Index 1:50000 Mineral Index **Base Map Features** NRCan Legal Survey Cadastral Hydrographic First Nations Community Lots ----- Watercourse Special Access Rights through FN Lands Waterbody Mineral Claims Intermittent waterbody Community Land Transfers (Order in Council) Underwater sand Land Dispositions (Lots) Dry river bed Easements

![](_page_53_Picture_16.jpeg)

Topography

----- Contours

Highway

----- Secondary

----- Limited-use road

----- Main

----- Street

--- Trail

- - - Cut line

----- Railway

=---- Foot Bridge

---- Ferry route

Bridge

==== Ford

**Transportation Routes** 

![](_page_54_Figure_0.jpeg)