

**37999 Yukon Inc.**

**REPORT ON THE  
2006 FOCUSED REGIONAL EXPLORATION  
PROGRAM FOR URANIUM  
IN THE EAGLE PLAINS AREA, YUKON**

06-021

**Report By**

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108 Gold Road  
Whitehorse, Yukon, Y1A 2W3**

**Project Location: Latitude 66° 30' N, Longitude 136° 30' W**

**Mining District: Dawson**

**NTS sheets: 116I/7, 8, 9 & 10**

**Date: January 4, 2006**

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## 1.0 SUMMARY

This report documents a reconnaissance exploration program to explore for uranium potential in the Eagle Plains area, North Yukon. The North Yukon Uranium Project is a program designed to evaluate the potential for sandstone-hosted uranium within the Lower Carboniferous Tuttle Formation. The Tuttle Formation was mapped by the Geological Survey of Canada (GSC) as a chert to pebble conglomerate and conglomeratic sandstone with intercalated siltstone and shale. The Tuttle Formation is of comparable age and composition to the Kekiktuk Formation, which occurs in the far northern Yukon and contains phosphatic uraniumiferous rocks. The area underlain by Tuttle Formation rocks around Eagle Plains has had no government Regional Geochemical Survey (RGS) samples to date, however the RGS geochemical data further north shows weak anomalies for typical elements present within sandstone-hosted uranium deposits: molybdenum, selenium, phosphorous, copper, manganese and chromium as well as uranium. The Yukon Minfile database lists four mineral occurrences in the area, however none of these has been prospected for uranium. This exploration program was partially funded by Yukon Mineral Incentive Program (YMIP) under the Focused Regional module.

The project focused on an area north and south of the Eagle Plains Lodge on the Dempster Highway located on map sheets 116 I/7, 8, 9 and 10. Minimal outcrop within the Eagle Plains area led to focusing reconnaissance efforts around the highway where road-cuts exposed the local bedrock.

Four days were spent prospecting and collecting rock and stream sediment samples to evaluate the potential for sandstone-hosted "red-ox" uranium within the Tuttle Formation. A scintillometer was used to assist the crew in measuring ionizing radiation of potential uranium. At each observation and sample site scintillometer readings were obtained and logged. The crew operated out of the Eagle Plains Lodge, which acted as a convenient central base.

The prospecting and scintillometer survey did not locate any enrichment in radioactive minerals. The sample results did not return anomalous uranium in any of the rock or stream sediment samples. Four rock samples, however, returned anomalous silver mineralization ranging from 2245 ppb Ag to 7772 ppb Ag from oxidized siltstone.

Recommendations for future work are to evaluate the potential for silver mineralization in the area by prospecting and additional rock, soil and stream sediment sampling.

## **INTRODUCTION**

This report documents a reconnaissance exploration program conducted in the Eagle Plains area on NTS maps sheets 116 I/7, 8, 9 and 10. The program was partially funded by the Yukon Mineral Incentive Program (YMIP), a program that assists companies and individuals with mineral exploration costs.

The prospecting crew consisted of Lauren Blackburn (geologist) and Ron Stack (prospector). The program was conducted from September 5 through September 8, 2006.

The crew mobilized from Whitehorse by truck and operated out of the Eagle Plains Lodge. Traverses were conducted by vehicle to evaluate the area bordering the Dempster Highway. The crew evaluated the area by a combination of prospecting via scintillometer, stream sediment, rock sampling.

## **2.0 LOCATION AND ACCESS**

The North Yukon Uranium Project is located on NTS map 116 I/7, 8, 9 and 10 and is centered at 66° 30' N latitude, 136° 30' W longitude. The area lies within the Dawson Mining District, the location is plotted on Figure 1.

Access to the area for the 2006 program was by truck from Whitehorse where road access was available up to the Dempster highway and in the Eagle Plains area.

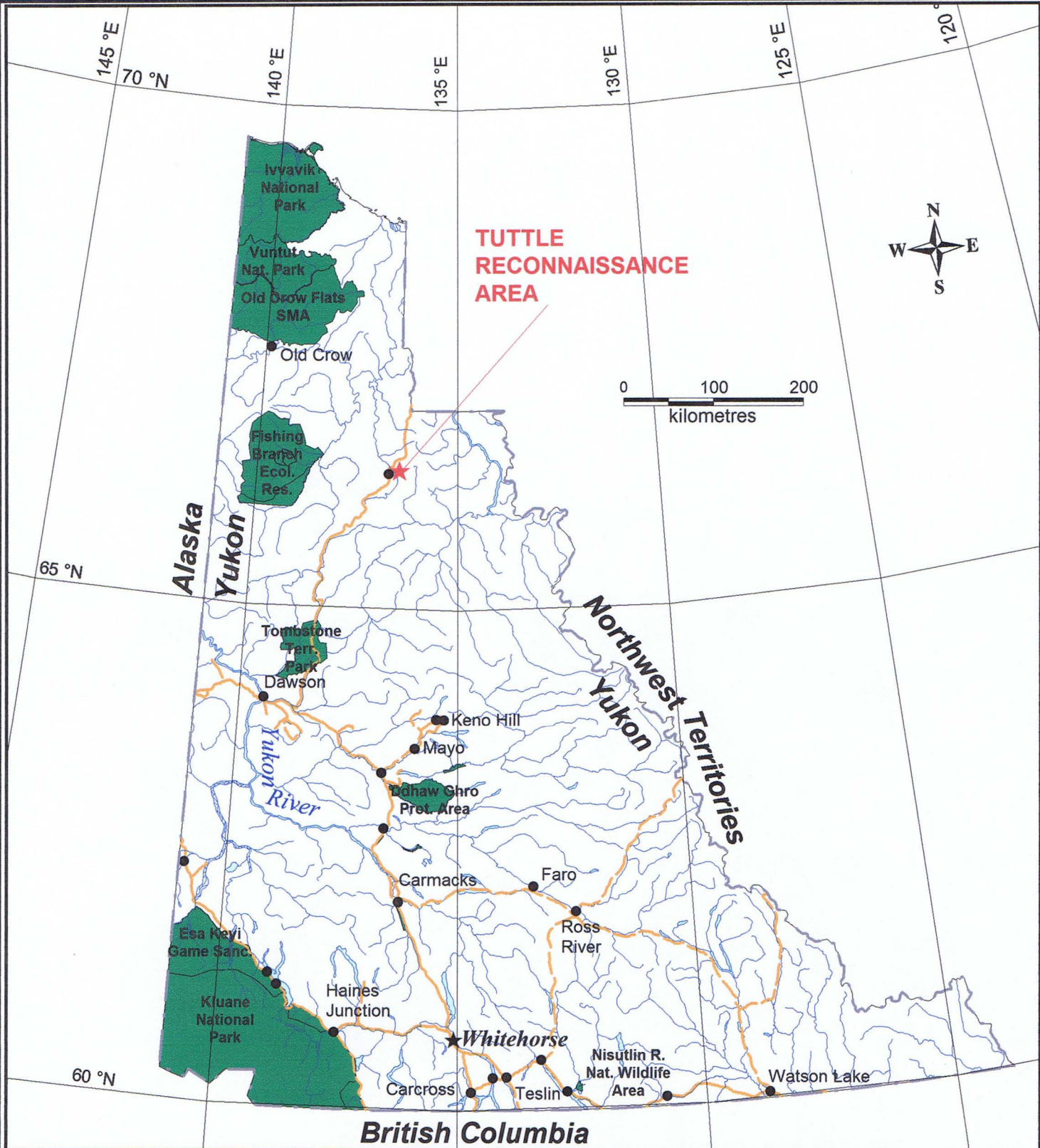
## **4.0 LAND STATUS**

The project area is on Crown Land and falls under the jurisdiction of the Government of Yukon. The area is open for quartz claim staking.

## **5.0 PHYSIOGRAPHY AND CLIMATE**

The project area is in the Northern Yukon in the Eagle Plains area. The terrain is comprised of shallow dipping rolling hills and with an elevation ranging from 400 to 800 metres above sea level. The area is variably treed with spruce, pine, birch and willow at lower elevations and alpine terrain at higher elevations.

The area experiences cold dry winters and hot dry summers. Snow usually begins accumulating in September and is generally melted by June. Temperatures range from highs in the mid 20°s in summer to lows of -50° C in winter.



**37999 Yukon Inc.  
TUTTLE RECONNAISSANCE PROGRAM  
Location Map**

Figure 1 December 5, 2006

## 6.0 REGIONAL GEOLOGICAL SETTING

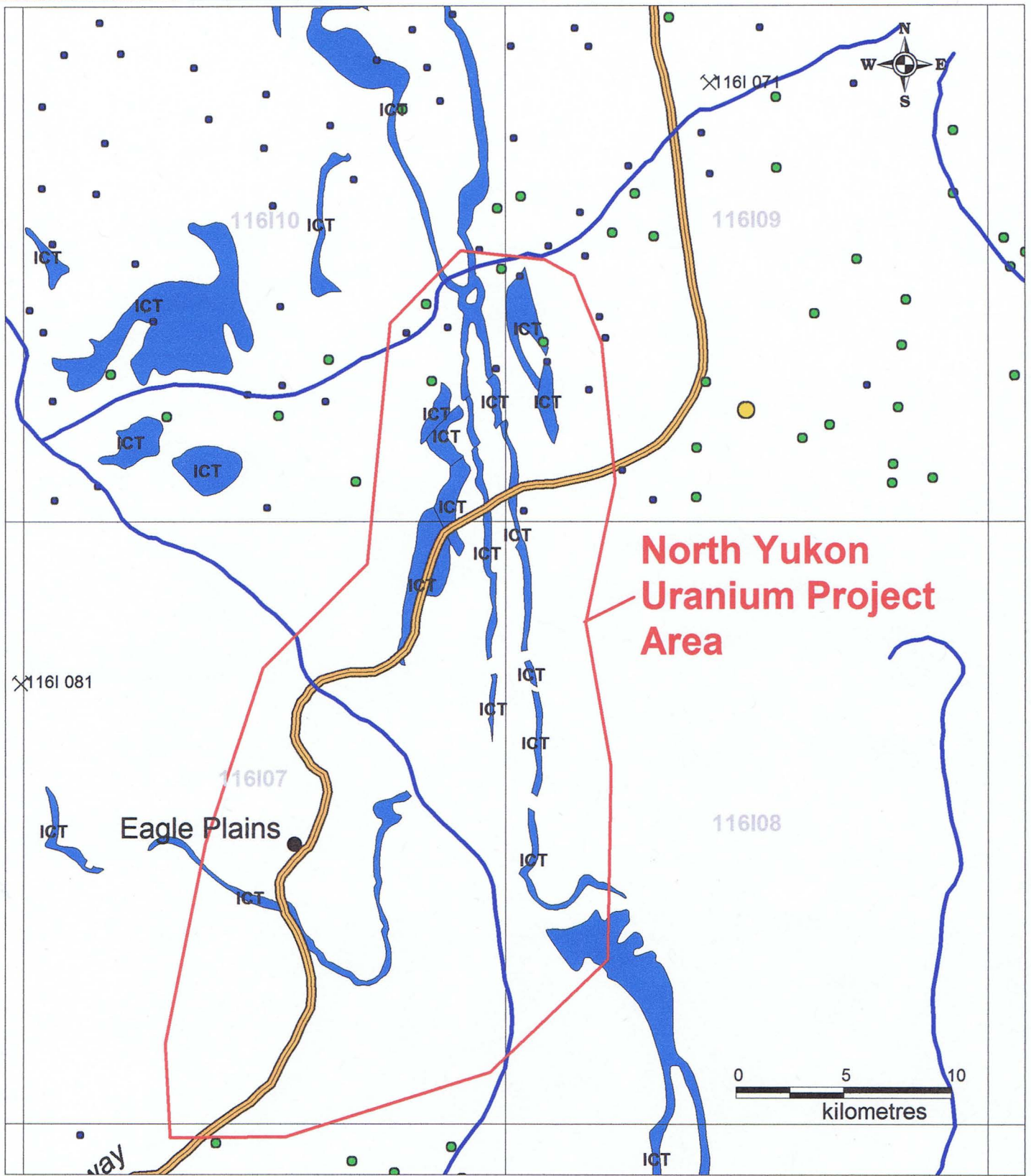
The regional geology of the North Yukon Uranium reconnaissance project area is taken from the Yukon Digital Geology Map (Gordey, et. al., 2003). The project area is along the western flank of the Richardson Anticlinorium. The program focused on evaluating the coarse grained clastic rocks of the Tuttle Formation. The Tuttle Formation rocks pass southward into finer clastics of the Ford Lake Shale, representing a southward advancing clastic wedge of fluvio-deltaic origin (Hill, L.V., et al., 1984). This assemblage of rocks can be seen as recurring sequences that Lutchman (1977) inferred to represent the A units of a repetitive Bouma sequence. The distribution of the Tuttle Formation is shown in Figure 2 and Figure 3.

The Kekiktuk Formation occur to the north of the project area south and east of the Barn Mountains. They are comprised of continental, basal sandstone and conglomerate which host phosphatic uraniferous rocks (Casselmann, 2006). This formation is of similar age, rock type and tectonic setting to the Tuttle Formation. Bell (1996) suggests that most uranium sandstone deposits are in continental sandstones and associated conglomerates that are compositionally immature to submature and texturally mature; these sandstone sequences predominantly form adjacent to or within foreland basins next to uplifted, deformed basement. The Richardson Anticline borders the Tuttle Formation to the east and the Tuttle Formation forms a basinal sequence that suits the geologic model proposed by Bell (1996).

**Table 1. TABLE OF FORMATIONS – North Yukon Uranium Prospect**  
(after Gordey & Makepiece (2003))

<b>Formation (Age)</b>	<b>Description</b>
Kekiktuk Formation (Carboniferous) (ICT)	Pebble to boulder conglomerate with subordinate conglomeratic sandstone and minor shale; clasts dominantly chert, but include white vein quartz, grit, sandstone, siltstone and scattered granitic clasts.
Tuttle Formation (Lower Carboniferous) (ICK)	Chert granule to pebble conglomerate and conglomeratic sandstone with subordinate siltstone and shale; minor coal; includes unnamed partly correlative light gray to medium grained sandstone and dark gray shale; pro-deltaic, deltaic to fluvial.





**North Yukon  
Uranium Project  
Area**

- RGS by U\_ppm
- 38 to 20,000 (99th percentile)
  - 20.4 to 38 (97th percentile)
  - 5.2 to 20 (75th percentile)
  - 3.6 to 5.2 (50th percentile)
  - -10,000 to 3.6  
all others

**37999 Yukon Inc  
North Yukon Uranium Project  
Figure 2 - Prospect area**

NTS: 116107, 8, 9 and 10  
Datum: NAD83  
Date: December 28, 2006

Mining District: Dawson  
Projection: UTM Zone 8N

✕ Minfile occurrence      scale = 1:250,000

**AURORA GEOSCIENCES LTD**

## 7.0 2006 EXPLORATION PROGRAM

The North Yukon Uranium Project was identified by researching the government Regional Geochemical Survey (RGS) data and minfile occurrences to look for uranium mineralization potential in the Eagle Plains area. The exploration program involved prospecting with the assistance of a scintillometer, stream sediment and rock sampling.

The crew conducted four days of reconnaissance traverses and collected eighteen rock samples and one stream sediment sample.

## 8.0 GEOCHEMICAL ANALYTICAL PROCEDURE

All samples were sent to Acme Analytical Laboratories in Vancouver for processing. Acme is an ISO 9002 accredited facility.

The analytical procedure for the stream sediment sample consisted of drying the samples then sieving to -80 mesh. A 0.25 gm sample of the -80-mesh material was then digested in aqua-regia solution and diluted to 10 ml with distilled water. This solution was then analyzed for 34 elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) including gold per the Acme Group 1T analytical package.

Rock samples were processed by crushing and pulverizing to -150 mesh. A 15 gm sample of the -150 mesh material was then digested in aqua-regia solution and diluted to 300 ml with distilled water. This solution was then analyzed for 37 elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) including gold per the Acme Group 1F analytical package. Geochemical Analytical Certificates for the 2005 program are included in Appendix II.

## 9.0 RESULTS

The reconnaissance program provided for a brief visit to the area of interest. The crew evaluated the site with a goal of determining whether the Tuttle Formation contained uranium mineralization similar that observed in the Kekiktuk Formation to the north. The RGS data of the surrounding the area indicated the presence of mineral enrichments that are often associated with sandstone uranium occurrences.

The prospecting and scintillometer survey did not locate any enrichment in radioactive minerals. Scintillometer readings were generally less than 50 micro Rems, which is not considered anomalous. The sample results did not return anomalous uranium in any of the rock or stream sediment samples. The highest value obtained was from outcrop where sample UGN-6-UR returned 38.1 ppm uranium. Four samples from oxidized siltstone, however returned anomalous silver mineralization ranging from 2245 ppb Ag to 7772 ppb Ag (sample UGN-6-UR-2). Sample UGN-6-UR also returned an anomalous molybdenum value of 116.31 ppm.



## 10.0 CONCLUSIONS AND RECOMMENDATIONS

The North Yukon Reconnaissance Program did not locate anomalous uranium mineralization in the Tuttle Formation rocks in the Eagle Plains area. The program returned moderately anomalous silver values from 4 rocks samples of iron-stained, oxidized siltstone.

The Tuttle Formation in the Eagle Plains area does not appear to have potential to host significant uranium mineralization, however the silver values returned from siltstone are significant. Recommendations for future work are to evaluate the potential for silver mineralization these rocks by prospecting and additional rock, soil and stream sediment sampling.

Respectfully Submitted,

*Lauren Blackburn*

Lauren Blackburn

**11.0 STATEMENT OF EXPENDITURES****Contract Services - Aurora Geosciences Ltd**

Lauren Blackburn, geologist	5 days @ \$500.00	2,500.00
Ron Stack, prospector	5 days @ \$500.00	2,500.00
Scott Casselman, project preparation	2 hours @ \$ 90.00	180.00
Mike Power, project preparation	2 hours @ \$90.00	180.00
Expediting	2 hours @ \$45.00	90.00
Room and Board		611.68
Aurora Geosciences administration charges		547.19
Sample Shipment		100.00 ~
Equipment rental	5 days @ \$50.00	250.00 ~
Sample analysis – Acme Labs		494.12 ~
Groceries		262.16
Field supplies		295.27 ~
Fuel		155.14 ~
Truck Rental	5 days @ \$150.00	750.00 ~
Report Writing costs		<u>2,675.00 ~</u>
	Total	<u>\$11,590.56</u>

## REFERENCES

- Bell, R.T. 1996. Sandstone Uranium; in Geology of Canadian Mineral Deposit Types, (ed.) O.R. Eckstrand, W.D. Sinclair, and R.I. Thorpe; Geological Survey of Canada, Geology of Canada, no. 8, p. 212-19.
- Casselman, S. 2006. Yukon Mineral Incentive Program (YMIP) Application For a Focused Regional Exploration Program In the Eagle Plains Area, North Yukon Uranium Project, Yukon Territory.
- Gordey, S. P. and Makepeace, A. J., 2003. Yukon Digital Geology. Geological Survey of Canada, Open File D3826.
- Hills, L.V. Hyslop, K. Braman, D.R. LLoyd, S. 1984 Megaspores from the Tuttle Formation (Famennian-Tournasian) of the Yukon, Canada Palynology. No. 8, p. 211-224
- Lutchman, M., 1977. Lower Mackenzie Energy Corridor Study. Geochem Laboratories Canada Ltd. and AGAT consultants Ltd., 42 p.

**APPENDIX I**

**STATEMENT OF QUALIFICATIONS**

### Statement of Qualifications

I, Lauren Blackburn, certify that:

- 1) I reside at 75 Walnut Crescent, Whitehorse, Yukon Territory, Y1A 5C7
- 2) I am employed by Aurora Geosciences Ltd. of Whitehorse, Yukon Territory.
- 3) I am a geological student at the University of Alberta in Edmonton, Alberta and have completed all course requirements less one. I am expecting to complete the requirements in the spring of 2007.
- 4) I have worked in mineral exploration and geological mapping program since June of 2005.
- 4) I compiled this report from data collected by myself and Ron Stack on the North Yukon Reconnaissance Project during the summer of 2006.

Dated this 4<sup>th</sup> day of JANUARY, 2007, at Whitehorse, Yukon Territory.

*LAUREN BLACKBURN*

Lauren Blackburn

**APPENDIX II**

**GEOCHEMICAL ANALYTICAL CERTIFICATES**



GEOCHEMICAL ANALYSIS CERTIFICATE



Aurora Geosciences Ltd. PROJECT Tuttle File # A603177

108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
G-1	.26	2.37	18.21	56.9	34	3.9	4.4	568	2.02	.3	3.4	.9	5.1	93.7	.10	.06	.10	36	.66	.069	12.9	13.4	.60	235.4	.156	1	1.28	.146	.59	.6	3.2	.38	<.01	<.5	<.1	<.02	5.8	15
004R	1.31	7.83	8.18	16.4	66	3.2	.6	20	1.61	4.9	.2	.6	.9	19.5	.02	.42	.03	13	<.01	.015	2.5	8.6	.02	663.2	.001	5	.16	.041	.08	.2	.5	.06	.20	7	.3	<.02	.8	15
005R	1.11	21.93	7.15	79.8	67	23.1	3.7	42	1.42	4.0	1.0	2.3	2.4	14.6	.05	.35	.07	24	.07	.071	3.1	16.7	.15	184.8	.001	5	.71	.009	.15	.2	1.6	.06	.05	16	.3	.02	2.0	15
006R	1.17	13.45	6.73	104.0	71	23.2	4.2	34	1.26	4.3	.7	1.2	2.2	16.6	.06	.40	.07	22	.09	.074	3.2	14.7	.12	244.4	.002	4	.59	.007	.14	<.1	1.6	.06	.05	19	.4	.03	1.7	15
007R	1.00	11.24	4.91	66.1	77	15.3	4.2	421	8.00	4.4	.5	1.3	1.5	43.5	.40	.44	.04	31	.35	.076	3.5	12.5	.71	533.4	.002	5	.35	.010	.10	.2	2.5	.07	.08	8	.4	<.02	1.4	15
008R	3.66	17.69	4.66	16.5	63	2.2	.3	18	1.86	14.5	.3	.7	.6	14.0	.03	4.98	.02	29	.01	.032	2.0	31.9	.01	235.0	.001	<1	.10	.004	.04	.1	.5	.10	.06	9	2.5	.02	.6	15
009R	.44	10.32	3.70	74.8	36	26.1	6.3	4086	23.90	2.7	.3	1.8	1.0	21.2	.36	.29	.06	17	.82	.021	2.4	9.7	1.06	409.3	.002	4	.30	.008	.09	<.1	1.5	.12	.06	6	<.1	.02	1.0	15
010R	1.06	16.03	5.27	64.5	68	25.0	4.6	454	8.16	5.8	.5	1.2	2.0	22.1	.88	.44	.06	20	.39	.031	2.9	11.3	.51	466.6	.001	8	.48	.009	.12	<.1	1.7	.09	.12	19	.1	.03	1.5	15
011R	.78	21.70	5.08	222.9	64	134.0	9.2	95	1.52	4.0	1.0	.5	2.7	16.8	1.37	.29	.07	32	.34	.056	4.0	14.7	.30	434.4	.001	6	.96	.013	.17	<.1	3.4	.07	.19	17	<.1	<.02	2.2	15
012R	1.19	16.21	6.64	106.2	68	41.7	5.2	400	6.79	4.4	.6	1.3	1.6	30.1	.65	.33	.06	29	.42	.121	2.9	12.2	.69	282.6	.001	6	.56	.009	.11	<.1	2.3	.06	.09	15	.3	.02	1.4	15
014R	1.92	9.07	5.43	639.9	56	59.3	13.0	117	4.58	14.9	.3	1.7	1.0	9.1	.08	4.83	.02	46	<.01	.026	1.6	11.7	.01	353.0	.001	4	.20	.005	.05	.2	1.4	.05	.11	16	3.0	<.02	.7	15
STANDARD	20.71	103.43	73.15	387.4	929	54.9	9.2	622	2.34	47.2	5.2	70.7	4.9	77.7	6.85	6.29	4.90	79	.95	.076	15.8	165.6	1.06	364.8	.141	38	1.01	.083	.45	3.9	2.7	4.08	.21	199	3.7	1.08	4.9	15

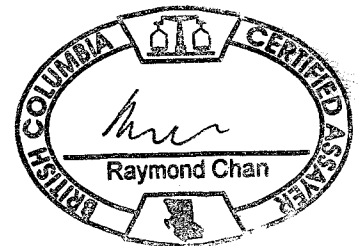
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(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

- SAMPLE TYPE: ROCK R150

Data 1 FA \_\_\_\_\_ DATE RECEIVED: JUN 29 2006 DATE REPORT MAILED: 2006-07-13 10:25



GEOCHEMICAL ANALYSIS CERTIFICATE



**Aurora Geosciences Ltd. PROJECT Tuttle File # A606151 (a)**

108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: L. Blackburn

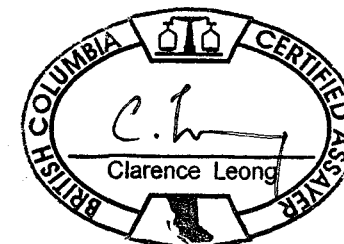
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G-1	.76	2.80	21.30	59.7	<20	5.6	4.9	771	2.46	<.2	3.2	<.1	7.1	777	.05	.03	.18	55	2.74	.089	23.8	64	.67	972	.268	8.31	2.642	2.99	.1	7.2	1.3	3	6.0	<.04
UGN-24-SSS	1.17	20.16	18.25	109.0	168	32.2	7.2	125	2.83	7.6	2.6	<.1	8.9	119	.28	.86	.22	154	.48	.074	33.6	76	.45	741	.371	6.13	.543	.98	1.1	74.2	1.6	1	10.6	.09
STANDARD DST6	12.36	126.95	34.44	172.8	312	29.5	13.8	954	4.00	24.3	7.4	<.1	6.8	304	5.63	5.31	4.65	98	2.25	.094	24.6	223	1.01	577	.403	6.86	1.633	1.34	7.4	51.6	6.1	2	10.7	<.04

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCl-HF TO 10 ML. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACHED/VOLATILIZED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. ANALYSIS BY ICP-MS.

- SAMPLE TYPE: STREAM SED. SS8

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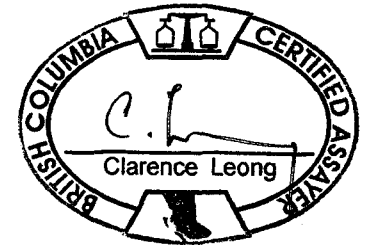
**Aurora Geosciences Ltd. PROJECT Tuttle File # A606151 (b)**  
108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: L. Blackburn

SAMPLE#	Y	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G-1	15.3	47.02	5.2	19.9	3.4	.9	3.0	.4	2.6	.5	1.6	.2	1.8	.2	.65	35.7	121.9	1.5	21.33	4.7	19.04
UGN-24-SSS	20.1	58.82	6.7	27.0	4.5	.9	3.8	.5	3.2	.5	1.8	.3	1.9	.2	2.35	59.7	62.1	.7	9.04	4.2	14.08
STANDARD DST6	15.4	50.85	5.3	21.9	3.8	.9	3.5	.5	2.8	.5	1.6	.2	1.5	.2	1.61	25.1	52.6	.6	9.07	7.7	15.30

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO<sub>4</sub>-HNO<sub>3</sub>-HCL-HF TO 10 ML. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: STREAM SED. SS8

10-13-06 P0312

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GEOCHEMICAL ANALYSIS CERTIFICATE

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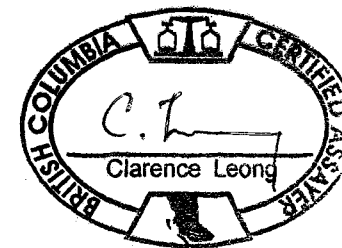
108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: L. Blackburn



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	%	
G-1	.22	3.19	21.65	52.9	<20	3.9	4.7	769	2.37	4	4.3	<1	6.8	697	.04	.02	15	49	2.54	.082	23.3	23	.60	956	.248	7.78	2.746	3.02	.2	9.5	1.2	3	5.6	<.04
UGN-4-A	7.95	21.39	19.92	8.0	2245	9.3	1.4	18	19.74	134.1	.3	<1	.6	13	.07	6.60	.04	4	.02	.004	5.0	23	.02	25	.046	.43	.028	.08	.3	14.1	2	<1	.5	>10
UGN-5-UR	.37	2.87	21.10	56.1	<20	4.1	4.4	766	2.34	.7	3.6	<1	6.0	680	.05	.03	15	43	2.50	.078	20.0	19	.61	956	.253	7.67	2.628	2.89	2.0	8.7	1.3	2	5.5	.07
UGN-6-UR-1	25.88	59.92	18.03	541.6	6422	134.4	5.9	32	2.75	38.9	15.3	<1	8.8	459	14.03	7.82	.25	573	3.53	.277	38.1	311	.39	367	.365	6.26	.143	1.15	1.5	84.3	1.7	2	11.9	1.30
UGN-6-UR-2	116.31	86.60	16.59	1193.9	7772	246.5	4.1	16	2.16	57.7	38.1	<1	6.1	287	54.52	23.46	.21	1169	2.37	.119	32.3	333	.25	95	.248	4.10	.085	1.02	1.2	60.5	1.2	1	8.4	2.57
UGN-6-UR-3	23.83	43.83	8.12	527.1	2922	122.5	5.3	72	1.09	15.1	13.6	<1	5.6	521	8.72	4.95	.15	296	13.09	.416	25.6	155	.63	364	.155	2.70	.132	.78	1.9	55.7	.9	1	7.3	1.44
UGN-9-UR	13.92	70.15	13.80	395.4	6853	131.4	5.5	57	1.87	23.3	16.8	<1	6.6	600	2.73	5.38	.18	193	9.73	1.346	43.0	320	.55	605	.223	3.95	.091	1.03	1.2	73.6	1.1	1	13.9	.72
UGN-13-UR	2.93	109.24	14.73	558.4	536	56.8	6.9	191	13.46	121.8	5.4	<1	6.5	215	2.30	3.28	.19	383	2.71	1.379	27.1	110	.49	81	.248	5.61	.060	1.17	1.7	69.0	1.3	2	13.9	2.86
UGN-21-UR-1	3.13	78.22	22.77	137.4	163	129.1	6.5	260	7.21	17.5	5.1	<1	8.6	124	.33	2.21	.27	227	.31	.072	26.8	99	.84	174	.428	7.92	.248	1.84	1.0	92.5	2.0	3	17.9	1.44
UGN-21-UR-2	3.02	42.30	29.47	115.1	114	41.8	6.6	108	5.36	41.5	3.6	<1	8.8	118	.25	1.97	.30	238	.10	.067	27.7	103	.77	188	.445	7.45	.267	2.07	1.3	96.6	2.3	2	15.2	1.08
UGN-22-UR	24.08	30.19	21.95	91.7	293	40.1	2.6	21	2.35	21.6	7.7	<1	8.8	123	.46	16.79	.26	840	.07	.036	31.4	96	.53	328	.430	7.09	.178	1.96	1.1	92.2	2.1	2	12.8	.64
STANDARD DST6	12.40	128.04	35.22	172.7	302	29.9	13.6	954	4.01	24.6	7.5	<1	7.0	313	5.68	5.39	4.78	98	2.26	.100	25.1	226	1.01	676	.410	6.92	1.649	1.39	7.5	53.0	6.4	3	11.5	<.04

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCL-HF TO 10 ML. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED/VOLATILIZED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: ROCK R150

Data † FA \_\_\_\_\_ DATE RECEIVED: SEP 18 2006 DATE REPORT MAILED: 10-14-06 100:00 OUT



GEOCHEMICAL ANALYSIS CERTIFICATE



Aurora Geosciences Ltd. PROJECT Tuttle File # A606150 (b)

108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: L. Blackburn

SAMPLE#	Y	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G-1	13.7	45.25	4.8	18.5	3.6	.7	3.1	.4	2.4	.5	1.3	.2	1.7	.2	.64	32.5	117.0	1.5	21.39	4.4	18.49
UGN-4-A	2.0	9.44	1.1	4.5	.7	.1	.3	.1	.3	.1	.2	<.1	.2	<.1	.42	3.6	3.8	.1	1.14	.4	.89
UGN-5-UR	13.5	41.25	4.5	17.9	3.5	.8	3.3	.4	2.3	.5	1.5	.2	1.6	.2	.65	34.4	112.2	1.6	21.33	4.4	18.51
UGN-6-UR-1	34.1	48.24	7.4	29.3	5.4	.9	5.4	.7	4.2	1.0	2.7	.4	3.3	.4	2.67	64.7	73.7	.6	8.77	5.9	14.28
UGN-6-UR-2	34.7	36.76	6.5	28.4	5.1	1.0	5.2	.7	3.9	1.0	2.8	.4	3.2	.5	1.97	29.3	62.2	.5	5.99	4.4	9.78
UGN-6-UR-3	36.3	29.64	4.9	20.9	3.7	.7	4.3	.6	3.9	.9	2.6	.4	2.8	.4	1.66	16.5	44.4	.3	4.25	2.9	6.99
UGN-9-UR	70.2	42.49	8.9	38.4	7.8	1.6	9.1	1.2	7.7	1.7	5.4	.8	5.5	.8	2.15	27.2	59.8	.4	5.60	4.3	9.91
UGN-13-UR	30.3	43.03	5.8	24.6	4.9	1.0	5.4	.6	3.9	.8	2.5	.4	2.5	.4	1.94	53.5	85.2	.4	6.19	5.9	11.44
UGN-21-UR-1	16.5	52.88	6.2	23.9	4.7	.8	3.3	.5	3.1	.6	1.8	.3	2.1	.3	2.82	114.4	118.1	.7	9.34	8.0	17.27
UGN-21-UR-2	14.7	56.36	6.4	26.3	4.8	.8	3.0	.4	2.5	.5	1.7	.3	2.2	.3	3.03	64.0	126.3	.8	9.70	9.0	18.34
UGN-22-UR	13.8	57.58	7.0	26.5	5.0	.7	2.8	.3	2.3	.5	1.6	.2	1.9	.2	2.85	44.1	131.6	.7	9.48	9.8	17.96
STANDARD DST6	15.1	51.91	5.4	22.9	4.4	.8	3.5	.5	2.9	.6	1.6	.2	1.5	.2	1.73	26.6	58.2	.7	9.44	7.8	15.98

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCL-HF TO 10 ML. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: ROCK R150

10-14-06 10:00 AM

Data f FA \_\_\_\_\_ DATE RECEIVED: SEP 18 2006 DATE REPORT MAILED:.....



**APPENDIX III**

**SAMPLE DESCRIPTIONS**



**NORTH YUKON URANIUM RECONNAISSANCE PROGRAM  
SAMPLE DESCRIPTIONS**

**Rep Samples**

Sample Name	Easting	Northing	Reason For Taking
UGN-4-S	424333	7355522	Siltstone with Sulfide
UGN-12-S	435681	7379708	Finer grained conglomerate bearing angular to sub-angular clasts <5mm

**Au-Assay**

Sample Name	Easting	Northing	Reason For Taking
UGN-4-A	424364	7355547	Heavily oxidized, mineralized sandstone o/c within borrow pit

**Ur-Assays**

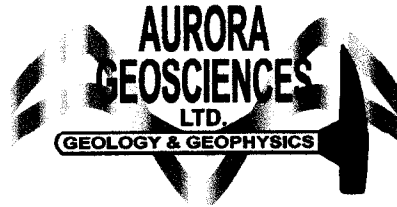
Sample Name	Easting	Northing	Reason For Taking
UGN-5-UR	418662	7350066	Siltstone sample ran on scintollometer @ 27 micro R / hr
UGN-6-UR-1	418276	7349757	Siltstone with oxidized layers ran @ 35 micro R / hr on scintollometer
UGN-6-UR-2	418248	7349728	Siltstone with oxidized layers ran @ 54 micro R / hr on scintollometer
UGN-6-UR-3	418262	7349735	Siltstone with oxidized layers ran @ 40 micro R / hr on scintollometer
UGN-9-UR	418162	7349377	Interbedded sands and silts, ran @ 31 micro R / hr on scintollometer
UGN-13-UR	434029	7379572	Finely bedded coal rich siltstone in contact with conglomerate, ran 31 micro R / hr on scintollometer
UGN-21-UR-1	423652	7369652	Rusty brown, heavily oxidized siltstone layer, ran @ 25 micro R / hr on scintollometer
UGN-21-UR-2	423522	7369607	Clean shale, ran @ 26 micro R / hr on scintollometer
UGN-22-UR	424093	7365065	Soft gray shale (not rusty), ran 25 micro R / hr on scintollometer

**Stream-Sed Sample**

Sample Name	Easting	Northing	Reason For Taking
UGN-24-SSS	423458	7354372	Slow stream, minimal sediment. Stream wholly surrounded by willows.

**APPENDIX IV**

**CREW LOG**



**NORTH YUKON URANIUM PROJECT**  
**37999 Yukon Inc.**  
**37999-05-06-YT**  
**Prospecting**

**Crew:** Lauren Blackburn (geologist)  
Ron Stack (prospector)

**Eagle Plains Prospecting Area**

**September 5, 2006**

Drove from Whitehorse to Eagle Plains Lodge. Ground appears generally void of outcrop except where road-cuts and collect piles are found. Arrived at lodge after midnight.

**September 6, 2006**

Underway at 8:00am. Drove south from lodge and examined numerous collect piles with the scintillometer. Fanned out and scanned areas. Moving south rocks become finer grained, progressing from sandstone to coal-bearing shales. Coal bearing shales appear to give higher readings on scintillometers.

**September 7, 2006**

Underway at 8:00am. Drove north up to the Arctic Circle and then worked our way south. Hit up all collect piles, road-cuts, and hillsides with frost boils.

**September 8, 2006**

Underway at 8:00am. Drove south to begin stream sediment sampling. Decided to sample the Eagle River drainage as well as other drainage networks in the south to get representative values of the subsurface. After first stream sample decided to pull the project.

**APPENDIX V**  
**PHOTOGRAPHS**





**Photo 1. Typical view from frost boil bearing hilltop on the north Dempster Hwy**



**Photo 2. Outcrop of sandstone at UGN-12 borrow pit**





**Photo 3. Finely bedded coal rich shale in contact with the upper conglomerate sequence at UGN-13**



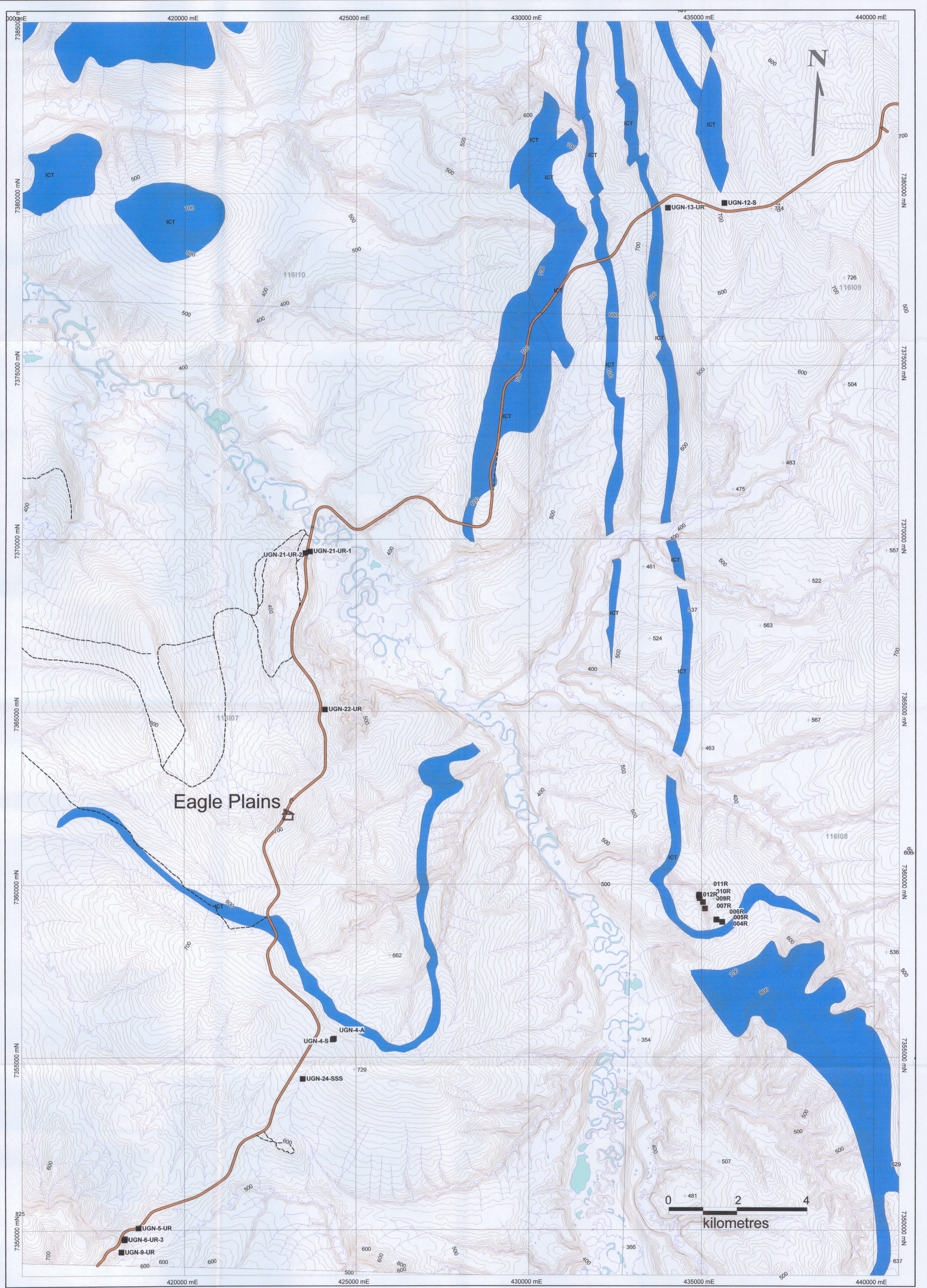


**Photo 4. Photo at km 396 on the Dempster showing the Tuttle Fm in contact with Ford Lake shale**



**Photo 5. Sample site of UGN-22, note outcrop on left-hand side of photograph.**





Eagle Plains

ICT Tuttle Formation - conglomerate, sandstone, shale

■ Sample location

37999 YUKON INC.  
NORTH YUKON URANIUM PROJECT  
Figure 3 - SAMPLE LOCATION MAP

NTS: 116107, 08, 09, 10 Mining District: Dawson  
Datum: NAD83 Projection: UTM, zone 8  
Date: December 29, 2006

scale 1:50,000

AURORA GEOSCIENCES LTD