

**Cangold Limited  
Rimfire Minerals Corporation**

**2004 GEOLOGICAL, GEOCHEMICAL,  
GEOPHYSICAL AND DIAMOND DRILLING  
REPORT ON THE THORN PROPERTY**

Volume II  
Appendix E.2 - H  
Figures 4, 6a-f

Located in the Sutlahine River Area  
Atlin Mining Division  
NTS 104K/10W  
58° 32' North Latitude  
132° 47' West Longitude

-prepared for-

**CANGOLD LIMITED**

Suite 2100, 1177 West Hastings Street  
Vancouver, British Columbia, Canada  
V6E 2K3

&

**RIMFIRE MINERALS CORPORATION**

Suite 700, 700 West Pender Street  
Vancouver, British Columbia, Canada  
V6C 1G8

-prepared by-

Darcy E.L. Baker, Ph.D.

**EQUITY ENGINEERING LTD.**

Suite 700, 700 West Pender Street  
Vancouver, British Columbia, Canada  
V6C 1G8

darcyb@equityeng.bc.ca

February, 2005

## LIST OF FIGURES

Figure 1: Thorn property location map (1:8,000,000) .....	2
Figure 2: Thorn property claim map (1:85,000) .....	3
Figure 3: Thorn Regional Geology Map (1:250,000) .....	11
Figure 4: Thorn Property Geology and Geochemistry (1:20,000).....	volume II
Figure 5: Thorn Geochronology Schematic .....	15
Figure 6a: La Jaune Creek Geology and Geochemistry: South Sheet (1:2,500).....	volume II
Figure 6b: La Jaune Creek Geology and Geochemistry: Central Sheet (1:2,500) .....	volume II
Figure 6c: Cirque Area Geology and Geochemistry (1:5,000).....	volume II
Figure 6d: Outlaw Area Geology and Geochemistry (1:5,000).....	volume II
Figure 6e: Tun Area Geology and Geochemistry (1:5,000).....	volume II
Figure 6f: Sutl Area Geology and Geochemistry (1:5,000).....	volume II
Figure 7a–k: Drill Sections (THN04-24 to THN04-35; 1:500) .....	volume III
Figure 8: Camp Creek Corridor Vertical Section (1:1,000) .....	volume III
Figure 9: Oban Zone Vertical Section (1:500) .....	volume III
Figure 10a: Thorn Property Gold Geochemistry in Soils and Silts (1:20,000) .....	volume III
Figure 10b: Thorn Property Silver Geochemistry in Soils and Silts (1:20,000).....	volume III
Figure 10c: Thorn Property Arsenic Geochemistry in Soils and Silts (1:20,000) .....	volume III
Figure 10d: Thorn Property Copper Geochemistry in Soils and Silts (1:20,000) .....	volume III
Figure 10e: Thorn Property Lead Geochemistry in Soils and Silts (1:20,000).....	volume III
Figure 10f: Thorn Property Antimony Geochemistry in Soils and Silts (1:20,000).....	volume III
Figure 10g: Thorn Property Zinc Geochemistry in Soils and Silts (1:20,000) .....	volume III
Figure 11: Exploration Potential (1:20,000) .....	volume III

**Appendix E.2: Certificates of Analysis**

**(Drill Core Samples)**



# ALS Chemex

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ALS Canada Ltd.

212 Brooksbank Avenue  
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VANCOUVER BC V6C 1G8

Page: 1  
Finalized Date: 9-NOV-2004  
Account: EIA

## CERTIFICATE VA04076570

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 11 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-NOV-2004.

The following have access to data associated with this certificate:

CANGOLD  
EQUITY ENG E-MAIL

EQUITY ENG E-MAIL  
HENRY AWMACK

CANGOLD  
DARCY BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

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Signature:



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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04076570

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01
2742		3.32	0.06	7.1	0.53	1100	<10	20	0.5	<2	0.36	16.0	7	23	23	4.25
2743		3.28	0.22	10.2	0.42	812	<10	20	0.5	<2	0.55	48.6	7	25	25	4.42
2744		0.08	1.52	>100	0.40	4830	<10	30	<0.5	8	0.85	>500	6	58	831	6.96
2745		1.18	0.32	28.7	0.53	1480	<10	50	<0.5	6	0.67	106.0	7	26	76	5.92
2746		3.44	0.13	9.7	0.44	1120	<10	50	0.5	<2	0.33	62.9	8	27	33	5.00
2747		3.66	0.05	4.8	0.63	1370	<10	70	<0.5	<2	0.32	20.2	7	26	23	3.37
2748		3.70	0.03	3.1	0.48	372	<10	70	0.5	<2	0.27	15.0	9	19	19	3.98
2749		1.54	<0.01	2.2	0.60	262	<10	70	0.5	<2	0.37	7.4	8	17	20	3.50
2750		0.92	0.01	2.2	0.41	154	<10	80	0.5	<2	0.19	3.7	10	9	14	2.05
2751		1.80	0.15	6.5	0.52	2390	<10	10	<0.5	<2	0.33	4.2	7	28	56	7.12
2752		1.68	0.18	6.9	0.41	3060	<10	10	<0.5	2	0.35	4.0	8	23	62	7.75

Comments: NSS is non-sufficient sample.



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North Vancouver BC V7J 2C1 Canada

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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04076570

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	NI	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
2742		<10	<1	0.33	10	0.09	288	2	0.01	6	800	593	4.47	29	1	116
2743		<10	<1	0.26	20	0.11	565	3	0.02	6	770	1205	4.90	29	1	158
2744		<10	1	0.27	10	0.26	393	1	0.02	5	580	>10000	8.82	2480	1	107
2745		<10	1	0.33	10	0.16	861	2	0.03	5	690	2090	6.50	136	1	165
2746		<10	<1	0.29	10	0.06	246	3	0.04	8	810	904	5.56	61	1	132
2747		<10	<1	0.38	10	0.06	292	1	0.05	9	850	408	3.54	44	1	96
2748		<10	<1	0.30	20	0.04	91	1	0.06	7	930	316	4.32	16	1	115
2749		<10	<1	0.36	20	0.08	474	1	0.06	6	800	374	3.78	17	1	128
2750		<10	<1	0.24	20	0.03	50	2	0.06	6	690	205	2.21	8	1	124
2751		<10	1	0.31	10	0.05	251	125	0.04	9	800	207	7.76	53	1	100
2752		<10	<1	0.25	10	0.05	259	47	0.03	9	800	265	8.40	67	1	100

Comments: NSS is non-sufficient sample.



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 North Vancouver BC V7J 2C1 Canada  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04076570

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		TI	TI	U	V	W	Zn	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	ppm 0.05	ppm 5
2742		<0.01	<10	<10	5	<10	1545				
2743		<0.01	<10	<10	4	<10	4810				
2744		<0.01	<10	<10	6	10	>10000	1.98	3.59	1.62	NSS
2745		<0.01	<10	<10	6	<10	9140				
2746		<0.01	<10	<10	5	<10	5670				
2747		<0.01	<10	<10	7	<10	1790				
2748		<0.01	<10	<10	5	<10	1395				
2749		<0.01	<10	<10	5	<10	828				
2750		<0.01	<10	<10	3	<10	403				
2751		<0.01	<10	<10	6	<10	406				
2752		<0.01	<10	<10	5	<10	373				

Comments: NSS is non-sufficient sample.



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## CERTIFICATE VA04078221

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 26 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL  
CANGOLD

CANGOLD  
HENRY AWMACK

EQUITY ENG E-MAIL  
DOROTHY M

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS

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Project: Thorn

**CERTIFICATE OF ANALYSIS VA04078221**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2560		4.22	<0.01	<0.2	0.64	146	<10	100	<0.5	<2	2.07	<0.5	8	7	5	2.99
2561		3.98	0.01	0.5	0.75	328	<10	100	<0.5	<2	1.98	0.8	8	21	12	3.51
2562		4.22	<0.01	0.6	0.46	256	<10	70	0.5	<2	1.22	1.7	8	5	5	3.23
2563		3.80	<0.01	1.9	0.51	299	<10	80	<0.5	<2	0.99	6.1	8	23	9	3.48
2564		0.10	0.88	>100	0.56	4750	<10	30	<0.5	4	0.55	96.5	7	53	298	5.99
2565		4.02	<0.01	0.3	0.50	95	<10	80	0.6	<2	2.48	0.8	6	6	9	3.09
2566		1.42	0.01	1.5	0.67	249	<10	90	0.5	<2	2.23	14.6	7	17	90	3.57
2567		0.20	<0.01	0.2	1.40	52	<10	160	0.5	2	2.79	0.7	11	30	15	3.67
2568		1.66	0.01	1.3	0.70	213	<10	60	0.5	<2	2.10	12.0	8	20	77	3.38
2569		4.18	0.04	2.6	0.73	308	<10	90	0.5	<2	1.54	5.0	9	4	85	2.67
2570		3.98	0.01	2.2	0.85	707	<10	120	0.5	2	1.78	2.0	9	16	80	3.12
2571		4.28	0.01	1.3	0.89	626	<10	90	0.5	<2	1.44	0.9	9	6	82	3.19
2572		4.50	<0.01	1.1	1.07	785	<10	110	0.5	<2	2.03	0.7	9	17	82	3.04
2573		4.34	0.01	5.9	0.76	955	<10	130	0.5	<2	1.45	9.9	9	5	69	2.78
2574		4.18	0.02	13.0	0.44	983	<10	50	<0.5	2	0.70	18.4	7	15	73	3.29
2575		4.04	0.02	8.2	0.61	1120	<10	80	0.5	<2	1.09	12.9	8	2	40	3.93
2576		2.14	0.02	9.2	0.45	2000	<10	40	<0.5	<2	0.62	11.1	9	20	49	4.55
2577		2.98	<0.01	1.7	0.43	1930	<10	80	<0.5	2	1.45	1.6	7	1	19	4.25
2578		1.38	0.02	9.6	0.34	1575	<10	80	<0.5	<2	0.45	44.7	9	21	59	3.73
2579		2.00	0.03	9.9	0.35	1550	<10	70	<0.5	2	0.46	41.2	9	2	59	3.72
2580		Not Recvd														
2581		Not Recvd														
2582		Not Recvd														
2583		Not Recvd														
2584		Not Recvd														
2585		Not Recvd														







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## CERTIFICATE VA04078220

Project: Thorn

P.O. No.: FAV04-01

This report is for 58 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-NOV-2004.

The following have access to data associated with this certificate:

CANGOLD  
EQUITY ENG E-MAIL

EQUITY ENG E-MAIL  
HENRY AWMACK

CANGOLD  
DOROTHY MILLER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
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**CERTIFICATE OF ANALYSIS VA04078220**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2753		4.22	0.16	9.1	0.36	2180	<10	40	<0.5	<2	0.36	4.3	8	37	115	6.08
2754		3.84	0.07	6.1	0.51	1160	<10	70	0.5	<2	1.27	2.3	7	40	99	4.03
2755		3.66	0.11	16.2	0.47	1250	<10	60	0.5	<2	3.29	2.0	7	25	61	4.08
2756		3.82	0.13	13.8	0.58	1525	<10	60	<0.5	2	0.40	5.6	7	45	128	4.54
2757		3.64	0.12	13.5	0.48	1395	<10	60	<0.5	3	0.42	3.7	7	33	95	4.86
2758		3.18	0.11	7.1	0.66	1240	<10	20	<0.5	2	0.32	4.1	6	49	92	4.87
2759		1.38	1.60	49.2	0.48	2300	<10	20	<0.5	32	0.79	49.6	5	34	1215	5.85
2760		3.48	0.01	2.1	0.61	759	<10	100	0.5	<2	0.85	1.8	6	38	29	2.48
2761		4.24	0.01	2.6	0.52	431	<10	80	0.5	<2	1.39	4.4	6	29	44	3.18
2762		3.54	0.08	9.6	0.57	1460	<10	60	0.5	<2	1.84	3.6	6	38	62	4.66
2763		3.60	0.17	10.2	0.43	1925	<10	60	<0.5	<2	1.59	19.1	6	29	110	4.81
2764		2.64	<0.01	0.2	0.55	134	<10	110	<0.5	<2	1.44	2.3	3	43	8	0.94
2765		3.84	0.10	31.1	0.50	2010	<10	20	0.5	<2	1.16	13.3	7	25	241	5.81
2766		3.30	0.07	10.0	0.48	1810	<10	20	0.5	2	0.68	3.2	8	26	77	5.19
2767		3.70	0.05	8.0	0.68	1600	<10	60	0.5	<2	1.34	4.6	6	44	81	4.44
2768		3.40	0.04	8.6	0.48	1510	<10	50	0.5	2	2.47	2.4	6	25	60	4.89
2769		Not Recvd														
2770		3.40	0.02	2.2	0.69	233	<10	90	0.5	<2	0.99	3.6	7	40	12	2.89
2771		3.74	0.34	6.4	0.46	977	<10	50	<0.5	3	0.92	23.1	6	31	59	3.67
2772		3.52	0.44	7.7	0.61	1020	<10	70	<0.5	3	0.87	30.9	6	46	134	3.83
2773		3.68	0.45	5.5	0.50	626	<10	30	<0.5	<2	1.57	35.6	5	28	72	4.03
2774		2.70	0.20	4.0	0.69	982	<10	80	0.5	<2	0.67	16.6	7	45	36	3.43
2775		3.84	<0.01	0.2	1.16	36	<10	170	<0.5	<2	3.54	<0.5	6	42	12	2.28
2776		4.50	<0.01	0.2	1.14	33	<10	170	<0.5	<2	3.27	<0.5	6	42	11	2.18
2777		4.58	0.01	0.2	1.08	23	<10	140	<0.5	<2	3.33	<0.5	6	25	16	2.32
2778		3.38	<0.01	0.5	0.93	47	<10	120	0.5	<2	2.60	1.2	6	25	26	2.37
2779		4.64	0.01	2.9	1.04	230	<10	100	0.5	<2	1.79	7.6	6	38	27	3.45
2780		3.38	0.04	18.8	0.94	703	<10	100	<0.5	<2	1.39	54.9	8	34	36	4.09
2781		2.12	0.02	9.7	0.89	384	<10	90	0.5	<2	1.18	23.7	6	39	24	2.85
2782		2.40	0.01	10.4	0.80	368	<10	50	0.5	<2	1.16	24.2	6	30	26	2.78
2783		4.10	0.01	8.3	1.04	538	<10	130	0.5	<2	1.88	20.2	7	47	36	3.01
2784		0.08	0.88	>100	0.59	4850	<10	30	<0.5	4	0.57	103.5	7	57	304	6.43
2785		4.98	0.02	17.6	0.88	503	<10	120	<0.5	<2	1.46	34.4	19	36	129	3.08
2786		4.42	0.04	8.5	1.12	550	<10	110	0.5	<2	2.02	19.2	7	47	63	3.41
2787		5.06	0.01	2.2	1.29	271	<10	120	0.6	<2	2.27	2.0	8	40	68	2.97
2788		4.34	<0.01	1.0	1.06	141	<10	160	0.5	<2	2.12	1.2	7	25	70	3.03
2789		3.72	0.01	1.9	1.00	244	<10	90	0.6	<2	1.90	2.5	8	43	50	3.48
2790		4.44	0.07	18.2	0.99	935	<10	100	0.5	<2	1.87	40.8	5	26	84	3.91
2791		3.78	0.18	50.3	0.76	1110	<10	150	<0.5	3	1.33	19.9	3	40	178	1.77
2792		3.66	0.24	92.7	0.75	2020	<10	120	0.5	4	1.64	28.2	3	18	207	2.01



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 17-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04078220**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
2753		<10	<1	0.25	10	0.03	122	3	0.02	11	710	637	6.91	120	1	102
2754		<10	<1	0.34	10	0.26	409	2	0.02	8	620	196	4.65	78	1	222
2755		<10	<1	0.31	10	0.90	1100	2	0.04	8	750	303	4.56	47	2	458
2756		<10	1	0.37	20	0.05	118	2	0.04	9	790	435	5.27	98	1	120
2757		<10	<1	0.31	20	0.06	146	2	0.04	9	770	389	5.56	63	1	122
2758		<10	<1	0.39	10	0.06	110	2	0.05	9	860	282	5.59	57	1	112
2759		<10	1	0.32	10	0.06	258	2	0.03	5	550	1120	7.03	554	1	186
2760		<10	<1	0.36	10	0.05	288	<1	0.07	3	890	106	2.90	12	1	314
2761		<10	<1	0.31	10	0.31	1165	1	0.07	4	830	188	3.65	18	1	222
2762		<10	<1	0.33	10	0.56	609	6	0.05	10	710	879	5.29	48	1	270
2763		<10	1	0.28	10	0.53	624	2	0.04	6	750	759	5.47	47	1	270
2764		<10	1	0.39	10	0.40	1790	2	0.07	3	420	55	0.27	3	1	139
2765		<10	<1	0.32	10	0.38	883	4	0.04	8	730	2650	6.54	126	1	182
2766		<10	1	0.31	10	0.23	437	3	0.03	23	710	602	5.89	43	1	145
2767		<10	<1	0.43	10	0.48	650	4	0.04	6	760	474	4.99	37	1	225
2768		<10	<1	0.30	10	0.81	1010	3	0.05	6	710	345	5.36	32	1	416
2769		<10	1	0.41	20	0.13	456	3	0.08	4	890	235	3.36	6	1	319
2770		<10	<1	0.30	10	0.19	863	2	0.05	6	750	610	4.22	19	1	215
2771		<10	<1	0.39	10	0.23	874	2	0.05	4	740	763	4.40	38	1	200
2772		<10	<1	0.39	10	0.23	874	2	0.05	4	740	763	4.40	38	1	200
2773		<10	<1	0.30	10	0.48	1455	<1	0.06	3	720	902	4.30	14	1	317
2774		<10	<1	0.36	20	0.20	575	1	0.07	6	800	473	3.63	14	1	249
2775		<10	<1	0.24	10	0.76	1355	<1	0.09	6	800	37	1.91	6	2	420
2776		<10	1	0.24	10	0.92	1350	1	0.08	5	820	27	1.69	4	2	332
2777		<10	1	0.24	10	0.69	1765	1	0.09	5	770	34	2.11	4	2	303
2778		<10	1	0.23	10	0.49	1700	2	0.09	7	790	47	2.23	8	2	300
2779		<10	2	0.27	10	0.49	1760	3	0.07	17	790	287	3.24	14	2	204
2780		<10	1	0.21	10	0.51	1925	3	0.05	10	790	1705	4.01	49	2	148
2781		<10	1	0.28	10	0.32	1555	2	0.05	7	740	890	2.77	20	1	166
2782		<10	1	0.24	10	0.33	1580	2	0.05	7	750	990	2.69	24	1	163
2783		<10	1	0.29	10	0.42	2740	3	0.03	11	830	748	2.69	24	2	214
2784		<10	2	0.34	10	0.11	313	2	0.04	8	690	5200	7.26	1670	1	134
2785		<10	<1	0.24	10	0.37	1980	10	0.04	17	910	1125	2.78	66	2	251
2786		<10	1	0.30	10	0.48	3100	6	0.04	14	890	3109	2.69	38	2	277
2787		<10	1	0.32	10	0.51	3360	6	0.07	16	870	151	1.78	40	2	261
2788		<10	<1	0.23	10	0.52	3460	5	0.07	10	900	96	1.82	46	2	228
2789		<10	1	0.31	10	0.40	3160	6	0.08	12	890	113	2.85	32	2	198
2790		<10	1	0.22	10	0.54	3140	2	0.07	8	930	982	3.41	77	2	215
2791		<10	<1	0.28	10	0.26	1235	2	0.09	6	600	1285	1.56	254	1	255
2792		<10	1	0.23	<10	0.33	1400	2	0.10	5	730	2520	1.87	846	1	255



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 17-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04078220**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zn %	Au ppm	Ag ppm
		0.01	10	10	1	10	2	0.01	0.05	5
2753		<0.01	<10	<10	4	<10	508			
2754		<0.01	<10	<10	5	<10	310			
2755		<0.01	<10	<10	6	<10	400			
2756		<0.01	<10	<10	6	<10	993			
2757		<0.01	<10	<10	5	<10	623			
2758		<0.01	<10	<10	6	<10	640			
2759		<0.01	<10	<10	5	<10	6520		1.66	
2760		<0.01	<10	<10	6	<10	223			
2761		<0.01	<10	<10	8	<10	550			
2762		<0.01	<10	<10	6	<10	616			
2763		<0.01	<10	<10	5	<10	2100			
2764		<0.01	<10	<10	5	<10	302			
2765		<0.01	<10	<10	5	<10	1525			
2766		<0.01	<10	<10	5	<10	409			
2767		<0.01	<10	<10	7	<10	605			
2768		<0.01	<10	<10	6	<10	355			
2769										
2770		<0.01	<10	<10	6	<10	510			
2771		<0.01	<10	<10	4	<10	2490			
2772		<0.01	<10	<10	6	<10	3470			
2773		<0.01	<10	<10	5	<10	3890			
2774		<0.01	<10	<10	6	<10	1830			
2775		<0.01	<10	<10	12	<10	122			
2776		<0.01	<10	<10	11	<10	110			
2777		<0.01	<10	<10	10	<10	104			
2778		<0.01	<10	<10	9	<10	152			
2779		<0.01	<10	<10	10	<10	969			
2780		<0.01	<10	<10	11	<10	4710			
2781		<0.01	10	<10	9	<10	2320			
2782		<0.01	<10	<10	9	<10	2390			
2783		<0.01	<10	<10	13	<10	2380			
2784		<0.01	<10	<10	7	20	>10000	1.32		150
2785		<0.01	<10	<10	11	<10	3290			
2786		<0.01	<10	<10	15	<10	2110			
2787		<0.01	<10	<10	16	<10	266			
2788		<0.01	<10	<10	14	<10	200			
2789		<0.01	<10	<10	13	<10	328			
2790		<0.01	<10	<10	13	<10	3550			
2791		<0.01	<10	<10	3	<10	1610			
2792		<0.01	<10	<10	3	<10	2120			



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ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 17-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04078220

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA25 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
Sample Description	0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2793	3.56	0.28	75.4	0.78	2500	<10	140	<0.5	4	1.87	42.4	5	35	218	2.41
2794	3.42	0.22	75.3	0.63	1625	<10	130	<0.5	5	1.30	20.3	3	22	209	1.98
2795	2.22	0.40	>100	0.51	2690	<10	140	0.5	8	0.91	69.9	4	17	283	2.31
2796	2.84	0.16	38.8	0.75	1235	<10	130	0.5	3	1.43	31.1	4	40	148	2.22
2797	2.48	0.11	34.0	0.58	1130	<10	90	<0.5	<2	1.12	38.1	6	25	102	3.09
2798	3.34	0.04	6.9	0.80	1270	<10	70	<0.5	<2	1.58	22.8	6	42	39	4.02
2799	3.72	<0.01	3.4	0.62	475	<10	70	0.6	<2	1.44	5.0	7	27	17	2.69
2800	3.68	0.02	13.2	1.06	1140	<10	100	0.5	<2	1.48	30.2	7	40	55	3.76
2801	1.88	0.06	35.6	0.76	1655	<10	100	<0.5	<2	1.38	110.5	6	38	110	4.08
2802	1.88	0.06	33.9	0.87	2010	<10	60	<0.5	<2	1.37	84.5	6	45	112	3.96
2803	2.72	0.02	9.6	0.63	2080	<10	100	0.5	<2	1.16	9.9	5	31	44	3.51
2804	2.96	0.06	37.2	0.82	2270	<10	80	0.5	<2	0.92	53.2	6	46	127	4.02
2805	3.84	0.05	24.9	0.56	4030	<10	80	<0.5	<2	1.02	60.5	6	26	79	3.82
2806	1.42	<0.01	5.3	0.59	644	<10	110	<0.5	<2	1.10	2.6	7	51	15	2.60
2807	3.88	<0.01	2.3	0.60	928	<10	120	0.5	<2	2.01	5.5	5	24	18	2.59
2808	4.08	0.02	2.9	0.80	772	<10	110	<0.5	<2	1.86	6.4	8	41	31	4.17
2809	0.82	0.01	0.4	0.86	314	<10	200	0.7	<2	5.38	0.6	29	28	38	4.54
2810	1.94	0.01	1.3	1.03	106	<10	130	0.5	<2	2.33	1.9	9	51	41	3.50





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**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

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Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 17-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04078220**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
2793		<10	1	0.31	10	0.39	1590	2	0.07	6	610	2590	2.30	909	1	283
2794		<10	1	0.24	10	0.41	1295	1	0.06	4	610	1800	1.71	604	1	280
2795		<10	1	0.25	<10	0.25	927	3	0.05	6	630	3930	2.44	1260	1	244
2796		<10	1	0.37	10	0.40	1345	1	0.06	6	660	1225	2.08	332	1	316
2797		<10	<1	0.26	10	0.30	1100	2	0.04	9	730	1405	3.06	151	1	231
2798		<10	<1	0.32	10	0.37	2240	3	0.04	10	780	636	3.71	63	1	210
2799		<10	<1	0.27	20	0.27	2610	1	0.04	4	920	215	2.42	21	1	228
2800		<10	<1	0.30	10	0.47	2420	1	0.06	6	820	886	3.24	84	1	220
2801		<10	3	0.24	10	0.33	1600	2	0.05	9	750	1955	4.24	166	1	226
2802		<10	1	0.31	10	0.32	1535	2	0.06	6	740	1950	4.03	183	1	226
2803		<10	<1	0.27	20	0.15	1195	1	0.05	4	850	750	3.51	66	1	204
2804		<10	1	0.33	10	0.30	1315	2	0.04	7	840	2380	3.94	163	1	163
2805		<10	1	0.24	10	0.31	1465	5	0.06	5	790	1600	3.88	210	1	180
2806		<10	1	0.25	20	0.37	2110	2	0.07	6	410	146	2.33	22	1	154
2807		<10	<1	0.25	20	0.57	2660	1	0.06	7	800	177	2.02	23	1	291
2808		<10	1	0.28	10	0.62	1815	3	0.07	16	1010	211	3.43	28	3	321
2809		<10	<1	0.39	20	1.85	3540	1	0.14	71	2030	36	1.02	36	17	1215
2810		<10	<1	0.35	10	0.94	2900	4	0.05	13	800	102	2.48	29	2	339



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.

700-700 W PENDER ST

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Page: 3 - C

Total # Pages: 3 (A - C)

Finalized Date: 17-NOV-2004

Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04078220

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zn %	Au ppm	Ag ppm
		0.01	10	10	1	10	2	0.01	0.05	5
2793		<0.01	<10	<10	4	<10	2720			
2794		<0.01	<10	<10	3	<10	1555			
2795		<0.01	<10	<10	2	<10	3960			106
2796		<0.01	<10	<10	5	<10	2100			
2797		<0.01	<10	<10	5	<10	3210			
2798		<0.01	<10	<10	9	<10	2310			
2799		<0.01	<10	<10	7	<10	573			
2800		<0.01	<10	<10	11	<10	2850			
2801		<0.01	<10	<10	8	<10	>10000	1.22		
2802		<0.01	<10	<10	9	<10	8670			
2803		<0.01	<10	<10	6	<10	812			
2804		<0.01	<10	<10	8	<10	4610			
2805		<0.01	<10	<10	7	<10	5320			
2806		<0.01	<10	<10	6	<10	277			
2807		<0.01	<10	<10	7	<10	627			
2808		<0.01	<10	<10	12	<10	694			
2809		<0.01	<10	<10	42	<10	122			
2810		<0.01	<10	<10	14	<10	227			



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 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 1  
 Finalized Date: 18-NOV-2004  
 Account: EIA

**CERTIFICATE VA04079317**

Project: Thorn  
 P.O. No.: FAV04-01  
 This report is for 133 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

CANGOLD  
 EQUITY ENG E-MAIL

EQUITY ENG E-MAIL  
 HENRY AWMACK

CANGOLD  
 DOROTHY MILLER

**SAMPLE PREPARATION**

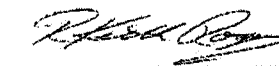
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 2 - A  
Total # Pages: 5 (A - C)  
Finalized Date: 18-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Au Check ppm 0.01	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1
2811		3.22	0.01	0.5		0.60	152	<10	110	0.6	<2	2.58	0.7	6	19	27
2812		2.28	0.01	0.7		0.61	229	<10	250	0.7	<2	2.31	<0.5	5	27	93
2813		1.28	0.04	0.4		0.67	186	<10	120	0.7	<2	5.01	<0.5	22	20	46
2814		0.50	<0.01	<0.2		0.61	3	<10	150	<0.5	<2	0.96	<0.5	4	38	13
2815		2.64	0.07	14.2		0.45	2160	<10	40	0.5	<2	1.36	11.6	9	24	61
2816		5.12	0.10	37.3		0.46	7040	<10	40	0.5	2	0.74	59.9	8	27	139
2817		3.60	0.10	33.0		0.47	6550	<10	50	0.5	2	1.00	36.5	9	19	122
2818		3.96	0.09	42.6		0.43	4830	<10	80	<0.5	2	0.65	32.8	8	25	130
2819		0.10	1.44	>100		0.42	4760	<10	20	<0.5	8	0.80	>500	6	56	857
2820		3.92	0.09	23.8		0.58	3870	<10	70	0.5	2	0.76	17.8	9	25	74
2821		3.78	0.11	26.4		0.44	4850	<10	80	0.5	<2	0.63	20.0	9	31	90
2822		3.80	0.16	16.2		0.50	5620	<10	60	0.5	<2	0.58	19.9	8	22	54
2823		3.82	0.16	10.8	0.17	0.50	3340	<10	40	0.5	<2	0.82	6.5	6	25	36
2824		3.00	0.13	9.7		0.43	2200	<10	70	0.5	<2	1.00	18.8	7	16	26
2825		5.24	0.01	4.2		0.49	3420	<10	70	0.5	<2	0.87	15.9	7	21	14
2826		2.92	0.04	0.9		1.10	658	<10	190	0.6	<2	1.62	1.9	7	19	7
2827		1.90	<0.01	0.7		1.23	1345	<10	240	0.6	<2	1.86	<0.5	7	22	10
2828		1.70	<0.01	0.7		1.28	1255	<10	190	0.6	<2	1.70	<0.5	6	20	9
2829		3.60	0.14	6.4		0.56	>10000	<10	120	0.5	<2	0.86	14.0	12	16	28
2830		4.00	0.11	4.5		1.00	>10000	<10	80	0.5	<2	2.39	7.5	10	17	28
2831		3.54	0.09	4.1		0.75	>10000	<10	140	0.6	<2	1.54	7.6	11	16	22
2832		4.08	0.02	5.1		0.61	8850	<10	80	0.6	<2	1.32	10.4	10	17	24
2833		2.92	0.01	2.6		0.60	7250	<10	90	0.6	<2	1.61	2.8	10	19	20
2834		3.58	0.01	1.4		0.58	1690	<10	70	0.7	<2	0.80	1.2	11	17	26
2835		3.94	<0.01	1.1		0.59	479	<10	130	0.7	<2	1.82	<0.5	8	16	18
2836		3.62	0.02	1.7		0.52	1770	<10	130	0.6	<2	0.93	2.0	10	16	21
2837		3.78	0.06	2.5		0.46	2030	<10	150	<0.5	<2	1.27	3.8	11	18	39
2838		3.24	<0.01	0.5		0.67	70	<10	140	0.6	<2	1.72	<0.5	8	12	51
2839		4.76	0.03	1.0		0.46	1240	<10	120	0.5	<2	1.12	1.8	9	13	39
2840		4.38	<0.01	0.6		0.66	193	<10	120	0.6	<2	2.13	<0.5	6	13	19
2841		4.60	0.02	2.0		0.62	518	<10	110	<0.5	<2	1.64	1.9	9	24	89
2842		2.80	0.03	1.9		0.52	1205	<10	100	<0.5	<2	0.90	1.6	11	17	74
2843		3.22	<0.01	<0.2		0.64	48	<10	140	0.5	<2	2.67	<0.5	6	12	27
2844		2.88	0.02	0.3		2.42	140	<10	120	0.5	<2	2.82	<0.5	8	15	37
2845		2.98	0.01	6.7		2.12	124	<10	110	0.5	<2	1.72	<0.5	9	28	39
2846		2.80	0.01	2.8		1.80	49	<10	100	<0.5	<2	2.35	<0.5	8	16	27
2847		1.62	0.01	2.4		1.98	60	<10	180	0.5	<2	3.54	<0.5	10	28	33
2848		3.06	<0.01	<0.2		2.11	948	<10	70	0.5	<2	4.96	<0.5	5	12	16
2849		2.48	<0.01	<0.2		1.51	60	<10	60	<0.5	<2	2.40	<0.5	4	19	8
2850		0.78	<0.01	<0.2		0.61	2	<10	410	<0.5	<2	1.50	<0.5	4	41	12

Comments: NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thom

**CERTIFICATE OF ANALYSIS VA04079317**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Fe % 0.01	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
2811		2.39	<10	<1	0.28	20	0.79	2360	5	0.07	5	800	72	1.22	26	2
2812		2.20	<10	<1	0.32	20	0.72	1890	13	0.07	5	740	50	0.90	64	2
2813		4.25	<10	<1	0.34	20	1.84	2240	3	0.14	62	1840	42	0.79	45	14
2814		1.57	<10	<1	0.25	20	0.12	542	1	0.05	3	600	8	<0.01	<2	1
2815		3.50	<10	<1	0.27	10	0.36	1340	2	0.06	8	810	407	3.38	70	2
2816		4.79	<10	<1	0.28	10	0.18	453	3	0.06	9	770	1515	5.08	182	1
2817		4.92	<10	1	0.27	10	0.20	636	2	0.06	10	870	1100	5.10	160	1
2818		4.87	<10	1	0.24	10	0.11	343	3	0.05	10	790	846	5.20	140	1
2819		6.71	<10	2	0.26	10	0.26	371	1	0.02	5	550	>10000	8.57	2720	1
2820		4.50	<10	<1	0.29	10	0.22	373	1	0.06	10	880	675	4.59	85	1
2821		4.20	<10	<1	0.27	10	0.10	349	4	0.06	11	820	430	4.43	104	1
2822		4.19	<10	<1	0.31	20	0.12	296	2	0.06	6	820	338	4.34	79	1
2823		3.96	<10	<1	0.27	10	0.28	569	1	0.05	6	800	246	3.93	52	1
2824		3.84	<10	<1	0.27	10	0.29	732	1	0.05	4	820	297	3.97	41	1
2825		3.35	<10	1	0.26	20	0.31	532	1	0.04	5	810	190	3.35	35	1
2826		2.83	<10	<1	0.29	20	1.02	1845	1	0.05	3	800	57	1.53	13	2
2827		3.00	<10	<1	0.27	10	0.91	2250	2	0.05	3	890	45	1.40	13	2
2828		2.85	<10	<1	0.31	10	0.88	2120	2	0.05	3	850	42	1.27	15	2
2829		3.42	<10	1	0.30	10	0.27	781	2	0.05	8	930	448	2.85	76	1
2830		4.48	<10	<1	0.29	10	0.81	1620	5	0.05	6	890	373	3.25	103	2
2831		3.76	<10	<1	0.30	10	0.42	862	1	0.05	6	940	178	3.04	78	2
2832		3.17	<10	<1	0.31	10	0.34	770	3	0.06	6	870	277	2.72	56	1
2833		3.88	<10	<1	0.30	10	0.48	1030	1	0.05	7	1020	138	3.49	45	2
2834		2.63	<10	<1	0.36	10	0.22	673	3	0.07	8	1060	57	2.53	24	1
2835		2.95	<10	<1	0.34	10	0.60	1740	2	0.07	6	1010	77	2.53	17	2
2836		2.55	<10	<1	0.33	20	0.23	709	1	0.06	8	1040	104	2.33	20	2
2837		2.82	<10	<1	0.29	20	0.37	1185	2	0.05	8	950	181	2.23	30	2
2838		2.57	<10	<1	0.32	10	0.72	2380	5	0.07	4	880	32	0.69	30	2
2839		2.37	<10	<1	0.27	20	0.38	1330	2	0.06	5	930	62	1.70	26	2
2840		2.42	<10	<1	0.31	10	0.91	2120	2	0.08	6	730	45	1.41	13	2
2841		3.82	<10	1	0.27	10	0.67	1725	11	0.07	14	770	135	3.37	47	2
2842		4.89	<10	<1	0.27	10	0.37	750	6	0.06	29	770	137	4.56	44	1
2843		2.65	<10	<1	0.28	10	0.95	1685	5	0.08	8	830	26	1.24	10	2
2844		6.17	10	<1	0.14	10	0.81	1175	1	0.05	9	1000	65	0.96	3	6
2845		5.34	10	<1	0.13	10	0.62	974	2	0.05	13	1180	47	0.46	2	6
2846		4.51	<10	<1	0.12	10	0.45	1060	2	0.03	9	1050	43	0.42	2	5
2847		4.43	10	<1	0.14	10	0.62	1375	2	0.07	8	1300	34	0.16	2	5
2848		2.89	10	<1	0.13	20	1.71	714	<1	0.03	<1	820	21	0.11	3	3
2849		2.45	<10	<1	0.13	20	0.78	509	<1	0.01	<1	690	23	0.18	2	3
2850		1.81	<10	<1	0.27	20	0.11	515	1	0.05	2	650	11	0.01	<2	1

Comments: NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22	
	Analyte Units LOR	Sr ppm 1	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.01	Pb % 0.01	Zn % 0.01	Au ppm 0.05	Ag ppm 5
2811		388	<0.01	<10	<10	8	<10	118					
2812		437	<0.01	<10	<10	8	<10	67					
2813		1175	0.01	<10	<10	39	<10	112					
2814		37	0.02	<10	<10	18	<10	42					
2815		231	<0.01	<10	<10	6	<10	1250					
2816		164	<0.01	<10	<10	5	<10	5590					
2817		164	<0.01	<10	<10	6	<10	3510					
2818		129	<0.01	<10	<10	5	<10	3180					
2819		104	<0.01	10	<10	6	10	>10000	1.98	3.67	NSS	291	
2820		146	<0.01	<10	<10	11	<10	1670					
2821		136	<0.01	<10	<10	5	<10	1840					
2822		138	<0.01	<10	<10	5	<10	1870					
2823		175	<0.01	<10	<10	5	<10	660					
2824		209	<0.01	<10	<10	4	<10	1720					
2825		219	<0.01	<10	<10	6	<10	1600					
2826		319	<0.01	<10	<10	14	<10	285					
2827		298	<0.01	<10	<10	15	<10	66					
2828		286	<0.01	<10	<10	15	<10	63					
2829		164	<0.01	<10	<10	8	<10	1535					
2830		240	<0.01	<10	<10	16	<10	928					
2831		214	<0.01	<10	<10	11	<10	871					
2832		226	<0.01	<10	<10	9	<10	1375					
2833		234	<0.01	<10	<10	9	<10	391					
2834		164	<0.01	<10	<10	7	<10	166					
2835		242	<0.01	<10	<10	9	<10	80					
2836		179	<0.01	<10	<10	7	<10	285					
2837		212	<0.01	<10	<10	7	<10	599					
2838		297	<0.01	<10	<10	12	<10	43					
2839		214	<0.01	<10	<10	9	<10	278					
2840		250	<0.01	<10	<10	13	<10	106					
2841		225	<0.01	<10	<10	12	<10	400					
2842		181	<0.01	<10	<10	9	<10	488					
2843		388	<0.01	<10	<10	13	<10	83					
2844		271	<0.01	<10	<10	54	<10	165					
2845		245	<0.01	<10	<10	58	10	151					
2846		312	<0.01	<10	<10	42	10	139					
2847		281	0.02	<10	<10	60	<10	147					
2848		398	<0.01	<10	<10	21	<10	59					
2849		251	<0.01	<10	<10	15	<10	44					
2850		60	0.02	<10	<10	19	<10	35					

Comments: NSS is non-sufficient sample.



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Page: 3 - A  
Total # Pages: 5 (A - C)  
Finalized Date: 18-NOV-2004  
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## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Au Check ppm 0.01	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1
2851		3.46	<0.01	<0.2		1.45	37	<10	80	<0.5	<2	1.37	<0.5	5	31	15
2852		1.12	<0.01	<0.2		0.83	43	<10	90	<0.5	<2	1.34	<0.5	3	30	10
2853		1.20	<0.01	<0.2		0.82	38	<10	90	<0.5	<2	1.55	<0.5	5	34	10
2854		3.44	<0.01	<0.2		1.01	40	<10	130	<0.5	<2	1.10	<0.5	2	29	15
2855		1.98	<0.01	<0.2		1.56	13	<10	90	<0.5	<2	2.93	<0.5	5	31	10
2856		4.34	<0.01	<0.2		1.19	63	<10	120	<0.5	<2	3.61	<0.5	7	24	11
2857		3.58	<0.01	<0.2		0.65	79	<10	60	<0.5	<2	3.20	<0.5	6	28	11
2858		4.08	<0.01	<0.2		0.65	34	<10	80	<0.5	<2	2.89	<0.5	5	26	12
2859		3.42	<0.01	<0.2		0.60	18	<10	70	0.5	<2	4.45	<0.5	6	32	11
2860		2.24	<0.01	<0.2		0.58	76	<10	80	0.6	<2	3.06	<0.5	5	27	12
2861		2.28	<0.01	<0.2		0.52	11	<10	100	0.9	<2	2.83	<0.5	6	30	10
2862		3.72	0.05	0.2		0.51	135	<10	80	1.0	<2	3.49	<0.5	6	20	10
2863		1.60	<0.01	<0.2		0.52	10	<10	70	0.5	<2	3.14	<0.5	5	28	10
2864		0.10	1.61	>100		0.41	4750	<10	30	<0.5	8	0.83	>500	6	56	820
2865		2.98	0.66	1.8		0.40	842	<10	100	0.5	<2	4.06	0.5	4	57	13
2866		1.80	0.50	0.6		0.45	1715	<10	60	<0.5	<2	4.31	<0.5	3	39	13
2867		3.36	<0.01	0.3		0.64	198	<10	160	0.7	<2	3.48	<0.5	6	21	49
2868		2.26	0.63	0.4		0.58	1805	<10	140	0.6	<2	3.35	<0.5	6	26	13
2869		1.36	0.06	0.3		0.56	1135	<10	90	0.5	<2	5.17	<0.5	6	25	8
2870		0.92	0.55	1.7		0.46	242	<10	30	<0.5	3	0.22	1.9	9	43	152
2871		0.78	0.57	1.3		0.42	223	<10	30	<0.5	<2	0.20	1.3	10	44	95
2872		3.32	0.67	5.3		0.23	226	<10	30	<0.5	3	0.04	0.8	7	38	436
2873		3.34	0.68	4.2		0.35	289	<10	50	<0.5	4	0.09	0.6	10	45	552
2874		2.16	6.00	78.5		0.19	1890	<10	20	<0.5	29	0.08	12.9	21	60	6470
2875		2.34	0.41	3.0		0.19	208	<10	20	<0.5	5	0.05	<0.5	8	54	245
2876		1.52	0.51	2.8		0.17	453	<10	10	<0.5	4	0.04	<0.5	9	65	394
2877		0.38	4.08	61.7		0.12	9520	<10	10	<0.5	5	0.02	7.6	16	73	>10000
2878		2.92	0.47	2.4		0.13	240	<10	10	<0.5	8	0.05	<0.5	10	59	315
2879		2.54	0.45	2.8		0.14	108	<10	140	<0.5	5	0.02	0.5	10	38	152
2880		3.28	0.73	6.0		0.12	249	<10	50	<0.5	12	0.02	2.1	11	47	425
2881		0.56	4.91	46.7		0.19	3380	<10	30	<0.5	65	0.03	3.9	3	15	8600
2882		3.02	0.56	6.1		0.16	556	<10	30	<0.5	8	0.02	<0.5	7	65	1075
2883		3.60	0.41	4.6		0.21	396	<10	50	<0.5	5	0.02	<0.5	6	51	703
2884		0.58	0.01	0.2		0.64	3	<10	280	<0.5	<2	1.70	<0.5	4	54	22
2885		0.42	0.69	7.9		0.11	608	<10	20	<0.5	6	0.02	<0.5	6	54	1280
2886		0.10	0.90	>100		0.53	4750	<10	30	<0.5	5	0.53	95.7	7	51	291
2887		1.14	3.89	52.1		0.10	6390	<10	20	<0.5	22	0.01	0.9	10	126	>10000
2888		2.74	0.45	3.5		0.22	205	<10	40	<0.5	6	0.02	<0.5	8	51	230
2889		2.64	0.48	3.4		0.15	298	<10	20	<0.5	6	0.02	0.5	8	62	319
2890		0.16	0.71	5.5		0.23	150	<10	40	<0.5	10	0.02	1.0	6	79	289

Comments: NSS is non-sufficient sample.



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04079317**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Fe % 0.01	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
2851		3.29	<10	<1	0.16	10	0.72	365	<1	0.03	1	890	21	1.50	3	3
2852		1.46	<10	<1	0.18	20	0.39	226	2	0.02	1	800	14	0.35	5	2
2853		1.46	<10	<1	0.18	20	0.43	249	3	0.02	2	820	14	0.32	4	2
2854		1.46	<10	<1	0.20	20	0.32	218	<1	0.03	1	850	17	0.21	5	1
2855		2.73	<10	<1	0.19	20	0.94	742	1	0.07	<1	820	16	0.18	<2	3
2856		3.07	<10	<1	0.20	10	1.10	909	<1	0.04	<1	760	20	0.96	2	2
2857		2.81	<10	<1	0.18	10	0.89	792	<1	0.05	1	790	20	2.03	2	2
2858		3.08	<10	<1	0.20	10	0.80	751	1	0.11	<1	850	20	2.68	<2	2
2859		2.79	<10	<1	0.19	10	0.94	942	<1	0.05	<1	790	17	2.02	2	3
2860		2.58	<10	<1	0.21	10	0.69	623	1	0.04	1	770	21	2.20	3	2
2861		2.47	<10	<1	0.19	10	0.69	645	<1	0.03	1	790	19	2.29	<2	2
2862		2.68	<10	<1	0.22	10	0.73	969	1	0.04	1	750	24	2.04	3	2
2863		2.49	<10	<1	0.24	20	0.62	762	<1	0.05	1	760	14	0.16	<2	2
2864		6.95	<10	3	0.25	10	0.26	381	2	<0.01	6	600	>10000	9.15	2660	1
2865		2.97	<10	<1	0.17	<10	1.54	2290	19	0.04	2	410	59	1.94	16	2
2866		2.31	<10	<1	0.19	<10	1.41	1435	5	0.04	1	530	21	1.16	19	2
2867		2.30	<10	<1	0.28	10	0.95	875	2	0.07	2	800	20	0.32	9	3
2868		2.35	<10	<1	0.28	10	1.06	1140	2	0.06	1	810	15	1.26	12	2
2869		2.35	<10	<1	0.25	10	1.88	1475	2	0.06	<1	730	14	1.11	12	2
2870		3.33	<10	<1	0.15	<10	0.03	33	1	<0.01	3	410	67	3.69	42	1
2871		4.05	<10	<1	0.15	<10	0.02	26	1	<0.01	4	430	64	4.46	23	1
2872		3.18	<10	<1	0.04	<10	0.01	14	1	<0.01	3	10	88	3.45	112	<1
2873		3.23	<10	<1	0.05	<10	0.01	20	1	<0.01	5	110	156	3.52	118	1
2874		4.65	<10	4	0.03	<10	0.01	15	1	<0.01	8	140	1290	5.42	1185	1
2875		3.35	<10	<1	0.02	<10	<0.01	15	1	<0.01	3	110	211	3.62	43	<1
2876		3.84	<10	<1	0.01	<10	0.01	13	3	<0.01	5	100	127	4.17	53	<1
2877		6.85	<10	3	0.01	<10	<0.01	20	1	<0.01	9	40	887	8.36	2250	1
2878		3.65	<10	<1	0.01	<10	<0.01	11	1	<0.01	6	130	393	4.01	34	1
2879		2.46	<10	<1	0.01	<10	<0.01	11	1	<0.01	5	20	647	2.62	25	<1
2880		4.37	<10	<1	<0.01	<10	<0.01	9	1	<0.01	5	20	200	4.77	114	1
2881		4.98	<10	1	0.02	<10	0.01	10	<1	<0.01	1	10	339	6.04	841	<1
2882		3.28	<10	<1	0.01	<10	<0.01	9	1	<0.01	3	20	87	3.66	79	<1
2883		3.62	<10	<1	0.01	<10	<0.01	14	1	<0.01	4	30	148	3.91	80	<1
2884		1.42	<10	<1	0.29	20	0.11	565	1	0.04	2	670	13	0.03	<2	1
2885		2.97	<10	<1	0.01	<10	<0.01	13	1	<0.01	3	10	75	3.21	84	<1
2886		6.07	<10	1	0.31	10	0.10	288	2	0.01	6	680	4770	7.15	1730	1
2887		6.80	<10	<1	0.01	<10	<0.01	12	1	<0.01	9	10	240	8.25	950	<1
2888		4.34	<10	<1	0.01	<10	<0.01	15	1	<0.01	3	20	183	4.64	80	<1
2889		4.52	<10	<1	0.01	<10	<0.01	11	1	<0.01	3	20	220	4.88	100	<1
2890		2.62	<10	<1	0.02	<10	<0.01	26	1	<0.01	3	20	87	2.66	72	<1

Comments: NSS is non-sufficient sample.





# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %	Pb %	Zn %	Au ppm	Ag ppm
		1	0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
2851		148	<0.01	<10	<10	14	<10	82					
2852		207	<0.01	<10	<10	8	<10	73					
2853		236	<0.01	<10	<10	8	<10	77					
2854		166	<0.01	<10	<10	10	<10	37					
2855		498	<0.01	<10	<10	16	<10	64					
2856		564	<0.01	<10	<10	15	<10	62					
2857		635	<0.01	<10	<10	9	<10	57					
2858		550	<0.01	<10	<10	10	<10	69					
2859		689	<0.01	<10	<10	11	<10	58					
2860		500	<0.01	<10	<10	8	<10	57					
2861		464	<0.01	<10	<10	7	<10	56					
2862		462	<0.01	<10	<10	7	<10	56					
2863		396	<0.01	<10	<10	9	<10	65					
2864		107	<0.01	<10	<10	6	10	>10000	1.96	3.75	2.19	316	
2865		166	<0.01	<10	<10	10	<10	85					
2866		241	<0.01	<10	<10	7	<10	52					
2867		236	<0.01	<10	<10	8	<10	54					
2868		185	<0.01	<10	<10	6	<10	56					
2869		256	<0.01	<10	<10	8	<10	57					
2870		245	<0.01	<10	<10	4	<10	121					
2871		219	<0.01	<10	<10	4	<10	103					
2872		107	<0.01	<10	<10	3	<10	83					
2873		138	<0.01	<10	<10	4	<10	133					
2874		131	<0.01	<10	<10	2	<10	1400			5.99		
2875		72	<0.01	<10	<10	3	<10	70					
2876		64	<0.01	<10	<10	2	<10	77					
2877		58	<0.01	<10	<10	3	<10	1785	2.30		4.18		
2878		68	<0.01	<10	<10	2	<10	33					
2879		83	<0.01	<10	<10	2	<10	20					
2880		99	<0.01	<10	<10	2	<10	70					
2881		868	<0.01	<10	<10	2	<10	85			5.79		
2882		561	<0.01	<10	<10	2	<10	15					
2883		62	<0.01	<10	<10	3	<10	18					
2884		65	0.01	<10	<10	16	<10	38					
2885		38	<0.01	<10	<10	2	<10	13					
2886		130	<0.01	<10	<10	6	10	>10000			1.30		149
2887		44	<0.01	<10	<10	3	<10	110	1.66		4.75		
2888		53	<0.01	<10	<10	3	<10	19					
2889		50	<0.01	<10	<10	2	<10	21					
2890		57	<0.01	<10	<10	3	<10	24					

Comments: NSS is non-sufficient sample.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 4 - A  
Total # Pages: 5 (A - C)  
Finalized Date: 18-NOV-2004  
Account: EIA

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## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Au Check ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
2891		0.14	1.01	13.0	0.01	0.21	322	<10	40	<0.5	16	0.02	3.7	6	133	829
2892		0.16	26.9	>100	0.01	0.06	>10000	<10	20	<0.5	119	0.01	6.2	12	51	>10000
2893		0.80	3.45	51.7	0.01	0.13	3040	<10	20	<0.5	21	0.02	3.2	8	79	7780
2894		2.80	1.12	8.9	0.01	0.20	251	<10	50	<0.5	12	0.02	0.9	9	62	572
2895		2.88	0.35	3.3	0.01	0.16	134	<10	40	<0.5	7	0.02	<0.5	7	54	186
2896		2.58	0.38	2.7	0.01	0.22	163	<10	20	<0.5	5	0.02	0.5	8	53	136
2897		2.38	0.35	3.5	0.01	0.15	213	<10	40	<0.5	8	0.02	<0.5	8	57	126
2898		2.34	1.50	56.8	0.01	0.27	1975	<10	20	<0.5	21	0.01	2.2	8	39	4410
2899		2.10	1.81	28.0	0.01	0.20	1230	<10	30	<0.5	17	0.01	0.9	8	60	2970
2900		0.54	10.30	>100	0.01	0.15	8010	<10	10	<0.5	104	0.01	2.3	6	106	>10000
2901		0.50	2.81	17.5	0.01	0.25	453	<10	90	<0.5	19	0.03	0.5	4	81	1215
2902		0.92	19.70	>100	0.01	0.33	6200	<10	10	<0.5	181	0.01	2.2	11	82	>10000
2903		3.22	0.81	14.0	0.01	0.30	677	<10	40	<0.5	40	0.01	1.8	8	46	1535
2904		3.16	1.03	13.7	0.01	0.29	557	<10	20	<0.5	14	0.01	2.3	10	47	803
2905		3.66	1.08	13.2	0.01	0.16	488	<10	20	<0.5	57	0.02	0.7	10	71	800
2906		3.74	1.15	10.4	0.01	0.14	554	<10	30	<0.5	13	0.01	0.7	9	54	1035
2907		2.96	0.32	2.0	0.01	0.26	242	<10	70	<0.5	2	0.05	15.2	8	45	146
2908		3.80	0.45	4.8	0.01	0.18	1085	<10	70	<0.5	4	0.03	31.7	7	41	2010
2909		2.98	0.32	1.8	0.01	0.17	352	<10	50	<0.5	4	0.03	2.3	8	51	464
2910		1.92	0.53	3.5	0.01	0.29	391	<10	20	<0.5	6	0.03	0.9	7	41	425
2911		1.08	0.05	1.3	0.01	0.47	225	<10	60	<0.5	<2	0.18	13.3	7	37	16
2912		1.32	0.04	1.3	0.01	0.54	220	<10	80	<0.5	<2	0.18	10.2	7	31	17
2913		1.94	0.31	5.7	0.01	0.19	327	<10	10	<0.5	9	0.08	4.1	9	45	316
2914		0.56	1.32	57.0	0.01	0.17	3810	<10	10	<0.5	92	0.08	14.1	11	52	9890
2915		2.62	0.48	6.2	0.01	0.14	275	<10	10	<0.5	11	0.03	5.3	7	56	548
2916		0.64	3.47	>100	0.01	0.13	5490	<10	10	<0.5	31	0.03	15.6	4	72	>10000
2917		1.16	0.50	6.1	0.01	0.20	205	<10	10	<0.5	7	0.03	1.3	6	55	346
2918		0.32	0.01	0.6	0.01	0.61	23	<10	150	<0.5	<2	1.50	<0.5	4	41	77
2919		0.90	2.02	59.2	0.01	0.22	1500	<10	40	<0.5	15	0.10	7.0	9	64	3940
2920		0.10	1.59	>100	0.01	0.40	4660	<10	30	<0.5	8	0.79	>500	6	55	814
2921		1.24	0.38	3.6	0.01	0.35	281	<10	30	<0.5	3	0.13	2.3	8	32	47
2922		3.10	0.07	1.2	0.01	0.53	127	<10	40	0.5	<2	0.34	4.0	8	35	32
2923		2.14	0.03	0.4	0.01	1.18	172	<10	140	0.6	<2	0.84	<0.5	6	29	17
2924		3.14	0.09	1.4	0.01	0.47	229	<10	140	0.5	<2	0.21	2.4	8	44	104
2925		0.40	0.53	60.6	0.01	0.32	1655	<10	60	<0.5	76	0.17	27.9	8	70	5660
2926		1.92	0.12	2.2	0.01	0.48	198	<10	80	<0.5	3	0.24	5.8	8	36	26
2927		4.76	<0.01	0.2	0.01	1.48	95	<10	280	<0.5	<2	0.26	<0.5	6	31	21
2928		3.30	0.07	1.2	0.01	0.57	209	<10	110	0.6	<2	0.26	3.3	10	36	17
2929		0.34	5.23	90.0	0.01	0.29	971	<10	10	<0.5	45	0.19	<0.5	42	96	549
2930		1.84	0.25	9.7	0.01	0.44	482	<10	60	<0.5	5	0.21	34.2	10	45	84

Comments: NSS is non-sufficient sample.



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 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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To: EQUITY ENGINEERING LTD.  
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Page: 4 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Fe % 0.01	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
2891		3.18	<10	1	0.02	<10	<0.01	14	1	<0.01	6	30	138	3.39	180	<1
2892		20.8	<10	2	<0.01	<10	<0.01	<5	2	<0.01	7	10	722	>10.0	4790	1
2893		5.19	<10	<1	<0.01	<10	<0.01	11	1	<0.01	5	10	230	6.09	755	<1
2894		5.20	<10	<1	0.01	<10	<0.01	11	1	<0.01	5	20	156	5.60	104	<1
2895		3.43	<10	<1	0.03	<10	<0.01	11	<1	<0.01	4	20	83	3.76	45	<1
2896		3.47	<10	<1	0.04	<10	<0.01	14	1	<0.01	3	20	110	3.72	40	<1
2897		3.61	<10	<1	0.03	<10	<0.01	13	1	<0.01	3	20	115	3.91	40	<1
2898		3.46	<10	<1	0.03	<10	<0.01	11	1	<0.01	4	20	349	4.04	314	<1
2899		3.11	<10	<1	0.03	<10	<0.01	9	1	<0.01	4	20	250	3.57	198	<1
2900		6.16	<10	<1	0.03	<10	<0.01	16	1	<0.01	5	30	307	7.81	1010	<1
2901		2.16	<10	<1	0.03	<10	<0.01	13	<1	<0.01	4	20	323	2.40	160	<1
2902		14.05	<10	<1	0.05	<10	<0.01	13	1	<0.01	7	30	548	>10.0	980	<1
2903		2.79	<10	<1	0.03	<10	<0.01	8	1	<0.01	4	90	399	3.15	130	<1
2904		4.13	<10	<1	0.03	<10	<0.01	12	<1	<0.01	5	60	640	4.54	132	<1
2905		4.97	<10	<1	0.03	<10	<0.01	16	1	<0.01	8	20	442	5.38	229	<1
2906		5.05	<10	<1	0.01	<10	<0.01	16	1	<0.01	4	20	169	5.41	119	<1
2907		3.00	<10	<1	0.10	<10	0.01	29	<1	<0.01	4	10	740	3.34	29	1
2908		3.01	<10	<1	0.04	<10	0.01	24	1	<0.01	2	10	1095	3.51	202	1
2909		3.08	<10	<1	0.03	<10	0.01	25	1	<0.01	3	20	312	3.36	53	1
2910		3.15	<10	<1	0.03	<10	0.01	22	1	<0.01	2	60	150	3.38	57	1
2911		2.26	<10	<1	0.17	<10	0.02	64	1	<0.01	3	340	750	2.54	3	1
2912		2.25	<10	<1	0.19	<10	0.03	65	1	<0.01	3	370	876	2.49	3	1
2913		3.14	<10	<1	0.03	<10	0.01	24	1	<0.01	4	300	477	3.46	63	1
2914		5.43	<10	2	0.01	<10	<0.01	37	1	<0.01	7	350	582	6.32	1960	1
2915		3.09	<10	<1	0.01	<10	<0.01	14	1	<0.01	4	80	392	3.37	107	<1
2916		2.15	<10	4	0.01	<10	<0.01	19	<1	<0.01	5	90	1170	2.99	2880	<1
2917		2.65	<10	<1	0.01	<10	<0.01	15	1	<0.01	4	90	744	2.87	62	<1
2918		1.78	<10	<1	0.28	20	0.10	500	1	0.04	2	650	18	0.01	10	1
2919		3.94	<10	1	0.02	<10	0.01	18	1	<0.01	7	410	3700	4.58	790	<1
2920		6.70	<10	2	0.25	10	0.25	368	2	<0.01	6	580	>10000	8.78	2560	1
2921		3.41	<10	<1	0.07	<10	0.01	34	1	<0.01	3	370	633	3.68	15	1
2922		2.86	<10	<1	0.18	<10	0.10	3530	1	0.01	3	780	414	2.55	5	1
2923		4.05	<10	<1	0.20	20	0.44	8420	<1	0.06	1	800	34	2.16	2	2
2924		2.22	<10	<1	0.18	10	0.02	41	1	0.08	4	650	151	2.45	32	1
2925		3.45	<10	1	0.09	<10	0.01	76	2	0.06	5	580	1025	4.10	1825	<1
2926		2.43	<10	<1	0.17	<10	0.02	39	1	0.09	4	770	531	2.74	11	1
2927		3.47	<10	<1	0.21	10	0.34	9830	1	0.08	2	830	45	1.34	6	2
2928		2.02	<10	<1	0.21	<10	0.02	36	1	0.11	6	820	274	2.26	3	1
2929		15.7	<10	1	0.07	<10	0.01	65	1	0.03	20	820	1920	>10.0	167	<1
2930		3.95	<10	<1	0.14	<10	0.01	32	1	0.08	5	680	1615	4.55	16	1

Comments: NSS is non-sufficient sample.



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 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

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Page: 4 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04079317**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Sr ppm 1	Tl % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.01	Pb % 0.01	Zn % 0.01	Au ppm 0.05	Ag ppm 5
2891		56	<0.01	<10	<10	3	<10	57				0.96	
2892		30	<0.01	<10	<10	8	20	389	9.16			27.2	400
2893		49	<0.01	<10	<10	2	<10	146				3.48	
2894		43	<0.01	<10	<10	3	<10	30				1.12	
2895		90	<0.01	<10	<10	2	<10	20					
2896		131	<0.01	<10	<10	3	<10	20					
2897		56	<0.01	<10	<10	2	<10	18					
2898		55	<0.01	<10	<10	3	<10	77				1.49	
2899		54	<0.01	<10	<10	2	<10	27				1.69	
2900		49	<0.01	<10	<10	3	<10	91	2.14			9.82	203
2901		68	<0.01	<10	<10	3	<10	14					2.93
2902		71	<0.01	<10	<10	5	<10	130	1.68			18.75	140
2903		105	<0.01	<10	<10	4	<10	26					
2904		80	<0.01	<10	<10	4	<10	115				0.98	
2905		57	<0.01	<10	<10	3	<10	61				1.11	
2906		44	<0.01	<10	<10	2	<10	37				1.20	
2907		54	<0.01	<10	<10	3	<10	1380					
2908		45	<0.01	<10	<10	3	<10	3980					
2909		46	<0.01	<10	<10	3	<10	123					
2910		49	<0.01	<10	<10	4	<10	91					
2911		84	<0.01	<10	<10	4	<10	1465					
2912		83	<0.01	<10	<10	4	<10	1215					
2913		48	<0.01	<10	<10	2	<10	122					
2914		41	<0.01	<10	<10	3	<10	772				1.25	
2915		46	<0.01	<10	<10	2	<10	86					
2916		39	<0.01	<10	<10	3	<10	598	1.75			3.53	138
2917		48	<0.01	<10	<10	3	<10	50					
2918		50	0.02	<10	<10	21	<10	37					
2919		75	<0.01	<10	<10	3	<10	649				2.12	
2920		106	<0.01	<10	<10	6	10	>10000		1.79	3.38	1.59	323
2921		98	<0.01	<10	<10	4	<10	249					
2922		234	<0.01	<10	<10	7	<10	731					
2923		180	<0.01	<10	<10	12	<10	102					
2924		235	<0.01	<10	<10	4	<10	391					
2925		168	<0.01	<10	<10	3	<10	2430					
2926		202	<0.01	<10	<10	4	<10	1075					
2927		297	<0.01	<10	<10	15	<10	143					
2928		182	<0.01	<10	<10	5	<10	540					
2929		95	<0.01	10	<10	4	<10	220				5.34	
2930		140	<0.01	<10	<10	4	<10	3670					

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

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Page: 5 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Au Check ppm 0.01	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1
2931		1.18	0.09	3.7		0.63	272	<10	90	0.5	2	0.22	13.9	11	40	31
2932		1.12	0.08	3.5		0.56	260	<10	90	0.5	<2	0.24	11.3	10	34	36
2933		2.68	0.03	1.0		0.57	184	<10	100	<0.5	<2	0.25	2.1	7	30	13
2934		2.30	0.13	14.4		0.43	360	<10	60	<0.5	6	0.20	27.8	10	39	408
2935		2.54	0.10	5.3		0.27	209	<10	20	<0.5	8	0.22	8.5	10	43	122
2936		2.12	0.26	32.9		0.52	387	<10	70	0.5	10	0.22	19.7	12	37	381
2937		2.38	0.06	3.9		0.62	284	<10	40	0.6	2	0.21	10.0	11	37	119
2938		2.56	0.07	2.5		0.68	275	<10	50	0.5	<2	0.54	5.8	8	36	78
2939		1.74	0.10	1.6		0.78	396	<10	50	0.6	<2	0.29	5.3	9	33	18
2940		0.46	<0.01	<0.2		0.56	6	<10	310	<0.5	<2	1.37	<0.5	3	64	13
2941		2.74	0.01	0.2		1.24	105	<10	190	0.5	<2	2.23	<0.5	4	29	8
2942		3.74	0.01	0.5		1.18	207	<10	200	0.5	<2	2.32	2.4	6	39	7
2943		3.16	0.02	0.5		0.65	116	<10	120	<0.5	<2	1.37	1.5	6	25	32

Comments: NSS is non-sufficient sample.



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Page: 5 - B  
 Total # Pages: 5 (A - C)  
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 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	NI	P	Pb	S	Sb	Sc
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
2931		2.50	<10	<1	0.22	<10	0.02	43	1	0.10	6	600	1040	2.83	9	1
2932		2.46	<10	<1	0.20	<10	0.02	40	1	0.11	4	680	792	2.79	10	1
2933		2.05	<10	<1	0.22	<10	0.02	52	1	0.09	3	850	232	2.25	4	1
2934		2.99	<10	<1	0.15	<10	0.01	29	<1	0.08	5	600	2340	3.55	130	1
2935		3.52	<10	<1	0.05	<10	0.01	22	<1	0.03	4	870	330	3.88	27	1
2936		3.90	<10	<1	0.18	<10	0.02	25	<1	0.10	7	620	1630	4.47	114	1
2937		2.91	<10	<1	0.22	<10	0.02	34	1	0.10	7	570	985	3.25	25	1
2938		3.39	<10	<1	0.18	<10	0.25	4990	1	0.07	3	760	417	3.02	24	1
2939		2.97	<10	<1	0.24	10	0.14	1750	1	0.07	4	820	270	2.96	3	1
2940		1.69	<10	<1	0.26	20	0.10	488	1	0.04	3	630	17	0.03	<2	1
2941		2.41	<10	<1	0.23	20	0.88	7290	<1	0.07	1	820	156	0.97	<2	2
2942		2.47	<10	<1	0.21	20	0.63	4430	<1	0.06	1	820	288	1.56	<2	2
2943		2.70	<10	1	0.20	10	0.52	6960	2	<0.01	4	830	200	2.61	<2	2

Comments: NSS is non-sufficient sample.



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 North Vancouver BC V7J 2C1 Canada  
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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079317

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Sr	Ti	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		1	0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
2931		164	<0.01	<10	<10	6	<10	1650					
2932		171	<0.01	<10	<10	5	<10	1340					
2933		144	<0.01	<10	<10	5	<10	301					
2934		142	<0.01	<10	<10	4	<10	3620					
2935		91	<0.01	<10	<10	3	<10	695					
2936		202	<0.01	<10	<10	5	<10	2330					
2937		223	<0.01	<10	<10	6	<10	1360					
2938		415	<0.01	<10	<10	7	<10	789					
2939		731	<0.01	<10	<10	7	<10	642					
2940		59	0.02	<10	<10	17	<10	41					
2941		1545	<0.01	<10	<10	13	<10	162					
2942		221	<0.01	<10	<10	12	<10	447					
2943		92	<0.01	<10	<10	10	<10	240					

Comments: NSS is non-sufficient sample.



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Page: 1  
Finalized Date: 18-NOV-2004  
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## CERTIFICATE VA04079319

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 9 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

HENRY AWMACK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:





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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079319

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2688		4.52	<0.01	0.6	0.57	438	<10	90	0.5	<2	1.36	1.5	4	39	12	1.74
2689		4.98	0.06	6.9	0.60	2640	<10	120	0.5	<2	1.01	13.9	8	34	24	3.06
2690		3.92	0.10	10.1	0.53	2090	<10	110	<0.5	<2	0.84	21.5	7	35	39	2.99
2691		4.40	0.07	12.1	0.62	2400	<10	100	0.5	<2	0.78	24.9	8	32	31	3.56
2692		4.22	0.02	11.3	0.49	2080	<10	110	<0.5	<2	0.83	33.3	7	42	20	2.93
2693		3.62	0.13	13.6	0.66	4260	<10	100	<0.5	<2	0.91	57.0	7	29	30	3.46
2694		2.98	0.08	3.1	0.53	394	<10	100	<0.5	<2	0.51	5.7	7	44	8	2.34
2695		0.90	0.43	79.2	0.69	3240	<10	80	0.5	<2	1.08	103.0	7	29	72	4.53
2696		4.12	0.19	35.6	0.54	2890	<10	120	<0.5	<2	0.71	13.1	7	29	28	2.83



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079319

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Hg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
2688		<10	<1	0.20	20	0.50	2850	2	<0.01	5	480	97	1.26	25	2	144
2689		<10	<1	0.28	20	0.19	815	2	<0.01	6	850	698	3.16	80	1	170
2690		<10	<1	0.25	20	0.16	584	2	<0.01	5	830	565	3.19	73	1	170
2691		<10	<1	0.30	20	0.13	439	2	<0.01	8	880	1080	3.86	78	1	190
2692		<10	<1	0.26	20	0.11	380	1	<0.01	4	840	1780	3.25	86	1	217
2693		<10	<1	0.30	20	0.20	365	3	<0.01	5	870	1110	3.64	97	1	236
2694		<10	<1	0.29	20	0.05	159	1	<0.01	4	920	73	2.61	23	1	217
2695		<10	<1	0.35	10	0.26	495	1	<0.01	3	830	3050	5.20	520	1	233
2696		<10	<1	0.30	20	0.13	342	1	<0.01	4	810	802	3.03	157	1	163



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18-NOV-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04079319**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-AA46
		Tl	Tl	U	V	W	Zn	Zn
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
2688		<0.01	<10	<10	9	<10	419	
2689		<0.01	<10	<10	7	<10	2070	
2690		<0.01	<10	<10	6	<10	2030	
2691		<0.01	<10	<10	7	<10	2640	
2692		<0.01	<10	<10	5	<10	3010	
2693		<0.01	<10	<10	7	<10	4510	
2694		<0.01	<10	<10	5	<10	407	
2695		<0.01	<10	<10	7	<10	>10000	0.95
2696		<0.01	<10	<10	5	<10	1130	



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

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700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

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## CERTIFICATE VA04079318

Project: Thorn

P.O. No.: FAV04-01

This report is for 93 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

HENRY AWMACK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 2 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 19-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2506		0.74	0.08	2.7	0.58	320	<10	80	0.5	<2	0.54	4.6	8	19	43	3.66
2507		0.62	0.14	4.7	0.51	488	<10	60	0.5	2	0.51	23.6	9	42	71	4.41
2508		0.28	<0.01	<0.2	3.92	52	<10	300	0.5	<2	3.83	<0.5	26	91	41	5.71
2512		2.86	<0.01	0.3	0.92	140	<10	110	0.5	<2	1.48	<0.5	9	26	20	2.91
2513		3.36	<0.01	0.3	0.95	119	<10	80	0.5	<2	1.74	<0.5	9	17	20	3.11
2514		3.26	0.04	0.9	0.77	158	<10	50	0.6	<2	1.62	<0.5	9	22	19	3.17
2515		1.06	0.04	0.5	0.68	200	<10	90	0.7	<2	1.86	<0.5	8	13	18	3.38
2516		4.16	0.15	0.7	0.76	311	<10	100	0.6	<2	2.36	<0.5	5	23	15	2.91
2517		3.50	0.08	0.6	1.36	466	<10	100	0.6	<2	2.06	<0.5	5	13	14	3.37
2518		3.82	0.01	0.2	0.83	249	<10	100	<0.5	<2	2.15	<0.5	6	33	14	2.69
2519		2.92	0.02	0.2	0.83	126	<10	100	0.5	<2	2.29	<0.5	6	13	15	2.87
2520		2.90	0.03	1.4	0.85	248	<10	50	0.5	<2	1.66	0.7	5	21	20	5.43
2521		3.26	0.01	0.4	0.93	162	<10	100	0.5	<2	1.98	<0.5	6	10	13	3.19
2522		1.88	0.01	0.3	0.90	147	<10	100	0.5	<2	1.57	<0.5	5	31	11	2.88
2523		2.22	0.08	7.3	1.26	1030	<10	30	0.5	<2	0.69	11.6	7	21	42	6.56
2524		2.74	0.02	0.3	0.66	182	<10	90	<0.5	<2	1.68	<0.5	5	44	12	2.94
2525		1.92	0.06	0.5	0.60	211	<10	100	0.5	<2	2.17	<0.5	6	18	12	3.05
2526		0.68	0.06	1.2	0.66	276	<10	60	0.7	<2	2.24	<0.5	9	31	73	3.85
2527		2.12	0.04	0.4	1.06	316	<10	70	0.6	<2	1.72	<0.5	6	14	15	3.14
2528		1.50	0.04	0.4	0.95	301	<10	80	0.6	<2	1.89	<0.5	5	43	21	2.88
2529		2.02	0.10	0.4	0.68	662	<10	120	0.7	<2	2.94	<0.5	5	21	13	2.80
2540		2.98	0.01	0.2	1.26	426	<10	100	0.6	2	2.48	<0.5	6	49	6	2.95
2541		4.22	0.02	1.0	1.06	1460	<10	30	0.5	<2	1.57	2.2	6	21	9	3.08
2542		3.94	0.01	0.8	1.04	831	<10	110	0.5	<2	1.44	0.8	5	30	9	2.94
2543		0.96	<0.01	1.3	0.92	526	<10	100	<0.5	<2	0.94	1.5	8	11	14	3.67
2544		4.18	<0.01	0.3	1.16	118	<10	110	0.5	<2	2.43	<0.5	7	23	9	3.01
2545		4.14	<0.01	0.6	0.98	126	<10	100	<0.5	<2	1.85	0.9	7	21	9	2.85
2546		4.06	<0.01	1.8	1.08	295	<10	100	0.5	<2	1.65	2.8	7	18	53	3.30
2547		4.24	<0.01	2.1	1.02	445	<10	110	0.5	<2	1.00	3.2	9	23	20	3.50
2548		4.12	<0.01	0.9	0.96	140	<10	120	0.5	<2	1.43	1.4	8	12	9	2.88
2549		3.80	<0.01	0.6	1.14	198	<10	100	0.5	<2	2.10	0.6	7	26	9	3.29
2550		3.94	<0.01	1.8	1.13	907	<10	40	0.5	<2	1.54	3.7	8	17	9	3.57
2551		5.24	<0.01	1.4	0.94	321	<10	100	0.5	<2	0.93	2.5	8	13	12	3.29
2552		2.94	<0.01	1.0	0.88	343	<10	40	<0.5	<2	1.08	1.3	7	17	11	3.05
2553		3.98	<0.01	1.2	1.04	159	<10	100	0.5	<2	2.04	3.2	6	13	10	3.04
2554		3.82	<0.01	1.0	0.91	226	<10	110	0.5	<2	1.37	2.2	6	17	10	3.04
2555		3.78	<0.01	0.4	0.95	158	<10	110	0.5	<2	2.26	0.6	5	11	9	2.75
2556		1.70	<0.01	0.8	0.96	611	<10	110	<0.5	<2	1.82	2.0	7	18	19	3.07
2557		2.16	<0.01	0.9	1.01	864	<10	120	0.5	<2	1.72	2.1	8	14	21	3.23
2558		4.42	<0.01	0.4	1.02	186	<10	110	0.5	<2	2.21	<0.5	7	16	5	3.16

Comments: NSS is non-sufficient sample.



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 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - B  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte Units LOR	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
2506		<10	<1	0.21	20	0.16	6280	<1	0.02	10	860	605	3.36	12	2	131
2507		<10	<1	0.20	10	0.14	6980	<1	0.02	12	830	1190	4.35	15	1	127
2508		10	<1	0.14	10	3.28	992	<1	0.40	98	1820	8	0.12	20	20	595
2512		<10	<1	0.22	10	0.47	1630	<1	0.09	12	980	34	2.65	5	1	184
2513		<10	<1	0.25	10	0.43	1665	1	0.09	12	950	33	2.91	5	1	184
2514		<10	<1	0.24	10	0.43	1985	<1	0.10	12	1040	92	3.04	5	1	166
2515		<10	<1	0.23	10	0.63	2970	<1	0.09	9	980	73	2.95	4	2	152
2516		<10	1	0.22	10	0.87	3020	1	0.09	3	750	34	2.60	5	1	176
2517		<10	<1	0.23	10	0.79	2680	<1	0.08	3	770	54	2.64	4	1	200
2518		<10	<1	0.21	10	0.39	1740	<1	0.08	3	830	47	2.45	2	1	225
2519		<10	<1	0.23	10	0.48	2380	<1	0.10	3	760	31	2.82	3	1	234
2520		<10	<1	0.22	<10	0.44	2280	1	0.09	4	850	149	5.58	9	1	183
2521		<10	<1	0.25	10	0.35	2130	2	0.09	4	840	52	2.98	5	1	201
2522		<10	<1	0.23	10	0.52	1965	1	0.08	3	780	44	2.68	3	1	178
2523		<10	<1	0.24	<10	0.56	2140	2	0.09	5	830	554	5.99	16	1	120
2524		<10	<1	0.19	10	0.56	2360	1	0.08	4	720	25	2.55	5	1	159
2525		<10	<1	0.24	10	0.47	2750	2	0.09	4	740	34	2.91	4	1	223
2526		<10	<1	0.21	10	0.71	3840	7	0.08	25	690	60	3.85	20	2	174
2527		<10	<1	0.25	10	0.68	2640	4	0.08	4	750	77	2.77	6	1	174
2528		<10	<1	0.21	10	0.70	2780	2	0.06	4	700	62	2.51	7	1	178
2529		<10	<1	0.25	10	1.06	7690	1	0.08	2	690	104	2.54	4	1	174
2540		<10	<1	0.19	10	0.84	2250	1	0.09	3	750	35	2.23	<2	1	274
2541		<10	<1	0.21	10	0.55	2130	2	0.09	3	780	153	2.37	5	1	200
2542		<10	<1	0.19	10	0.54	2140	2	0.09	3	780	82	2.30	3	1	188
2543		<10	<1	0.19	<10	0.41	1215	15	0.08	10	870	158	3.17	8	1	158
2544		<10	<1	0.17	10	0.87	2580	7	0.07	5	780	34	2.08	3	2	258
2545		<10	<1	0.17	10	0.65	2520	7	0.07	6	790	86	2.19	3	2	198
2546		<10	<1	0.18	10	0.63	3250	4	0.07	8	820	194	2.48	27	2	183
2547		<10	<1	0.19	10	0.48	2140	6	0.07	9	920	214	2.84	12	2	144
2548		<10	1	0.20	10	0.53	2110	6	0.07	9	830	97	2.27	2	2	170
2549		<10	<1	0.19	<10	0.81	3640	4	0.07	7	890	57	2.35	4	2	218
2550		<10	<1	0.21	10	0.62	3230	3	0.08	7	840	214	2.77	8	2	180
2551		<10	<1	0.21	10	0.45	2190	3	0.08	8	870	170	2.76	5	2	134
2552		<10	<1	0.19	<10	0.39	2020	1	0.07	7	740	125	2.49	5	2	148
2553		<10	<1	0.18	10	0.77	2360	1	0.07	6	750	199	2.45	4	2	231
2554		<10	<1	0.19	10	0.54	2380	1	0.07	6	760	127	2.56	3	2	152
2555		<10	<1	0.20	<10	0.72	2930	<1	0.07	5	770	70	2.21	5	2	255
2556		<10	<1	0.19	10	0.66	2890	<1	0.07	9	820	136	2.41	10	2	196
2557		<10	<1	0.20	10	0.66	2870	<1	0.07	10	840	144	2.53	12	2	192
2558		<10	<1	0.20	10	0.87	2630	<1	0.07	8	850	41	2.48	2	2	252

Comments: NSS is non-sufficient sample.



# ALS Chemex

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ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 2 - C  
 Total # Pages: 4 (A - C)  
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## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.05	5
2506		<0.01	<10	<10	8	<10	753				
2507		<0.01	<10	<10	7	<10	3730				
2508		0.12	<10	<10	158	<10	154				
2512		<0.01	<10	<10	10	<10	76				
2513		<0.01	<10	<10	10	<10	72				
2514		<0.01	<10	<10	10	<10	196				
2515		<0.01	<10	<10	11	<10	160				
2516		<0.01	<10	<10	7	<10	79				
2517		<0.01	<10	<10	11	<10	158				
2518		<0.01	<10	<10	9	<10	74				
2519		<0.01	<10	<10	8	<10	81				
2520		<0.01	<10	<10	8	<10	349				
2521		<0.01	<10	<10	9	<10	217				
2522		<0.01	<10	<10	10	<10	108				
2523		<0.01	<10	<10	11	<10	2440				
2524		<0.01	<10	<10	8	<10	48				
2525		<0.01	<10	<10	6	<10	84				
2526		<0.01	<10	<10	8	<10	170				
2527		<0.01	<10	<10	8	<10	106				
2528		<0.01	<10	<10	8	<10	124				
2529		<0.01	<10	<10	6	<10	99				
2540		<0.01	<10	<10	14	<10	95				
2541		<0.01	<10	<10	13	<10	382				
2542		<0.01	<10	<10	14	<10	192				
2543		<0.01	<10	<10	13	<10	386				
2544		<0.01	<10	<10	19	<10	152				
2545		<0.01	<10	<10	17	<10	210				
2546		<0.01	<10	<10	18	<10	489				
2547		<0.01	<10	<10	18	<10	480				
2548		<0.01	<10	<10	16	<10	243				
2549		<0.01	<10	<10	19	<10	190				
2550		<0.01	<10	<10	18	<10	625				
2551		<0.01	<10	<10	16	<10	428				
2552		<0.01	<10	<10	14	<10	277				
2553		<0.01	<10	<10	18	<10	640				
2554		<0.01	<10	<10	15	<10	417				
2555		<0.01	<10	<10	13	<10	196				
2556		<0.01	<10	<10	17	<10	398				
2557		<0.01	<10	<10	17	<10	450				
2558		<0.01	<10	<10	16	<10	144				

Comments: NSS is non-sufficient sample.



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Page: 3 - A  
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**CERTIFICATE OF ANALYSIS VA04079318**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2559		4.14	<0.01	0.6	0.79	192	<10	100	<0.5	<2	1.21	0.5	9	13	4	3.15
2580		3.80	0.02	7.4	0.58	1545	<10	70	<0.5	<2	0.72	36.0	9	14	54	3.55
2581		4.34	0.04	8.8	0.64	2000	<10	80	<0.5	<2	1.33	67.2	9	14	67	3.89
2582		4.40	0.04	7.7	0.58	1935	<10	60	<0.5	<2	1.10	50.6	9	12	53	4.02
2583		4.36	0.04	8.7	0.49	2540	<10	90	<0.5	<2	0.71	34.4	9	14	70	4.04
2584		4.26	0.05	9.9	0.52	2600	<10	80	<0.5	<2	1.06	34.6	9	13	62	3.98
2585		4.24	0.05	12.4	0.45	2250	<10	70	<0.5	<2	1.41	46.3	9	15	62	3.88
2605		2.76	0.06	7.9	0.61	4970	<10	30	0.5	<2	0.73	94.8	8	11	33	3.93
2606		1.60	0.02	7.0	0.57	5820	<10	40	0.5	<2	0.73	136.5	6	14	35	2.86
2607		3.82	0.01	5.4	0.61	4440	<10	40	<0.5	<2	0.66	41.4	6	18	22	3.62
2608		3.48	0.11	14.8	0.60	9830	<10	30	<0.5	2	0.77	131.5	10	15	75	4.54
2609		0.26	<0.01	0.4	4.00	72	<10	410	0.5	3	2.83	1.4	29	86	41	6.27
2610		0.10	0.88	>100	0.56	4410	<10	20	<0.5	5	0.58	105.0	6	51	293	6.32
2611		3.22	0.09	38.8	0.58	8030	<10	70	<0.5	2	0.50	87.6	8	17	63	3.77
2636		4.74	0.26	11.9	0.52	1410	<10	20	<0.5	6	0.42	8.5	9	34	271	6.31
2637		2.32	0.25	3.4	0.66	1175	<10	30	<0.5	7	0.54	4.7	8	46	147	5.55
2638		1.72	0.24	3.4	0.51	1165	<10	50	<0.5	6	0.55	4.2	8	43	138	5.47
2639		4.42	0.27	9.6	0.50	1470	<10	30	<0.5	3	0.47	2.9	9	20	134	6.75
2640		4.36	0.30	3.2	0.50	1695	<10	20	<0.5	3	0.29	3.6	9	39	210	7.00
2641		4.34	0.24	1.3	0.72	1785	<10	30	<0.5	8	0.41	1.4	7	32	136	5.94
2642		4.04	0.16	1.4	0.67	1135	<10	40	<0.5	3	0.78	1.7	7	34	116	4.93
2643		4.24	0.18	1.1	0.71	1440	<10	40	<0.5	12	0.54	3.8	9	23	176	6.29
2644		2.80	0.31	1.5	0.65	1615	<10	30	<0.5	15	0.55	7.0	9	32	437	7.00
2645		3.64	0.26	1.9	0.64	779	<10	60	<0.5	4	0.38	3.0	9	42	781	4.35
2646		2.90	0.61	2.0	0.59	3020	<10	20	<0.5	31	0.25	16.0	8	46	354	10.95
2647		2.22	0.59	1.9	0.67	3860	<10	10	<0.5	34	0.21	7.0	9	42	330	11.80
2661		1.08	0.01	1.6	0.62	1485	<10	120	0.6	<2	2.08	10.0	5	50	11	3.31
2662		1.46	0.01	1.4	0.73	1630	<10	120	0.6	<2	2.03	10.2	6	53	8	3.35
2663		3.36	0.02	1.3	0.62	3300	<10	40	0.5	<2	0.87	2.8	6	47	6	2.77
2664		3.66	0.01	3.9	1.08	3600	<10	40	0.5	<2	0.84	15.8	7	68	11	3.66
2665		4.30	0.01	2.6	0.92	1435	<10	90	0.5	<2	0.79	8.6	6	46	8	3.31
2666		2.00	0.17	2.8	0.75	3410	<10	50	0.5	<2	0.35	17.3	7	95	10	3.75
2667		2.70	0.01	1.6	0.82	284	<10	100	0.5	<2	0.33	6.1	6	32	16	3.01
2668		3.16	<0.01	0.8	0.89	283	<10	120	0.5	<2	0.77	4.8	6	76	9	3.00
2669		5.70	0.03	5.9	0.84	500	<10	40	<0.5	<2	0.41	8.4	6	45	27	3.40
2670		5.22	0.01	0.6	0.61	621	<10	160	0.6	2	2.46	1.0	6	12	12	3.19
2671		5.54	0.06	1.4	0.80	432	<10	210	<0.5	<2	1.70	5.6	6	25	10	2.85
2672		1.14	0.33	7.3	0.57	1380	<10	30	<0.5	2	1.19	13.6	6	26	47	4.25
2673		3.28	0.11	5.0	0.71	1160	<10	40	<0.5	<2	0.89	16.3	6	58	29	3.50
2674		2.04	0.06	2.6	0.64	206	<10	50	<0.5	<2	0.42	8.4	7	32	16	2.88

Comments: NSS is non-sufficient sample.





# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 19-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
2559		<10	<1	0.22	10	0.51	1695	<1	0.08	12	890	71	2.86	4	2	168
2580		<10	<1	0.31	10	0.11	671	3	0.06	12	820	1070	3.70	47	1	210
2581		<10	1	0.28	10	0.31	1185	4	0.05	14	790	1140	4.09	60	1	272
2582		<10	<1	0.29	10	0.23	918	10	0.05	15	830	972	4.21	64	1	239
2583		<10	<1	0.28	10	0.09	457	5	0.05	13	840	811	4.27	80	1	198
2584		<10	1	0.27	10	0.16	730	4	0.05	17	760	1000	4.09	74	1	224
2585		<10	1	0.26	10	0.28	943	6	0.05	14	770	1320	3.97	87	1	256
2605		<10	1	0.29	10	0.26	944	1	0.06	9	690	1815	3.62	99	1	227
2606		<10	1	0.29	10	0.25	791	1	0.05	5	720	944	2.76	69	1	213
2607		<10	1	0.30	10	0.15	2010	1	0.06	5	770	477	3.57	41	1	168
2608		<10	1	0.29	10	0.24	960	2	0.05	15	860	1105	4.54	147	1	166
2609		10	<1	0.07	20	4.14	1210	1	0.25	120	1820	9	0.23	52	20	530
2610		<10	1	0.32	10	0.11	315	2	0.04	6	670	5100	6.87	1690	1	127
2611		<10	1	0.30	10	0.14	522	6	0.06	7	770	3360	3.92	124	1	146
2636		<10	<1	0.30	10	0.11	359	5	0.05	30	810	231	6.66	87	1	170
2637		<10	1	0.39	10	0.16	432	3	0.05	13	860	142	5.54	52	1	193
2638		<10	<1	0.31	10	0.15	449	5	0.05	14	860	131	5.55	50	1	196
2639		<10	<1	0.31	10	0.14	335	5	0.04	15	790	122	7.06	54	1	168
2640		<10	1	0.30	10	0.06	146	16	0.04	18	780	156	7.33	74	1	166
2641		<10	<1	0.40	10	0.14	366	1	0.05	8	750	114	5.93	34	1	158
2642		<10	<1	0.40	10	0.25	693	4	0.05	8	810	148	4.94	41	1	203
2643		<10	1	0.41	10	0.17	495	7	0.06	9	790	118	6.36	44	1	170
2644		<10	<1	0.40	10	0.14	417	5	0.06	17	910	160	7.36	88	1	180
2645		<10	<1	0.39	10	0.09	293	5	0.04	16	820	82	4.33	107	1	138
2646		<10	<1	0.36	10	0.06	174	5	0.05	15	640	255	>10.0	88	1	134
2647		<10	<1	0.39	10	0.06	138	7	0.05	25	640	252	>10.0	99	1	135
2661		<10	<1	0.28	10	0.68	2960	1	0.03	4	780	260	2.54	33	1	76
2662		<10	<1	0.34	10	0.66	2980	<1	0.03	4	790	249	2.63	34	1	74
2663		<10	<1	0.33	10	0.30	1275	1	0.03	3	780	106	1.82	31	1	86
2664		<10	<1	0.34	10	0.55	1510	<1	0.03	5	750	306	2.02	35	2	113
2665		<10	<1	0.30	10	0.48	1225	1	0.02	5	720	224	2.13	16	1	88
2666		<10	<1	0.34	10	0.14	170	1	0.03	6	770	234	3.36	17	1	61
2667		<10	<1	0.30	10	0.24	294	<1	0.03	4	790	152	2.45	14	1	126
2668		<10	1	0.31	10	0.44	937	<1	0.03	3	760	89	2.27	7	1	150
2669		<10	<1	0.31	10	0.35	639	1	0.03	4	810	230	2.43	17	1	136
2670		<10	1	0.28	10	1.10	2980	<1	0.02	2	850	45	1.38	12	2	382
2671		<10	<1	0.25	10	0.84	1405	<1	0.03	2	770	152	1.36	10	1	266
2672		<10	<1	0.29	10	0.42	834	<1	0.04	3	720	526	3.52	35	1	214
2673		<10	<1	0.33	10	0.38	426	<1	0.04	3	720	341	2.89	18	1	229
2674		<10	<1	0.29	10	0.15	133	<1	0.03	4	820	243	2.57	9	1	92

Comments: NSS is non-sufficient sample.



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 19-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	ppm 0.05	ppm 5
2559		<0.01	<10	<10	11	<10	204				
2580		<0.01	<10	<10	7	<10	3350				
2581		<0.01	<10	<10	10	<10	5580				
2582		<0.01	<10	<10	9	<10	4140				
2583		<0.01	<10	<10	6	<10	3050				
2584		<0.01	<10	<10	7	<10	2810				
2585		<0.01	<10	<10	6	<10	3700				
2605		<0.01	<10	<10	6	<10	4290				
2606		<0.01	<10	<10	5	<10	7740				
2607		<0.01	<10	<10	6	<10	4820				
2608		<0.01	<10	<10	7	<10	9780				
2609		0.04	<10	<10	144	<10	187				
2610		<0.01	<10	<10	6	10	>10000		1.29		152
2611		<0.01	<10	<10	5	<10	8890				
2636		<0.01	<10	<10	6	<10	1275				
2637		<0.01	<10	<10	7	<10	614				
2638		<0.01	<10	<10	5	<10	574				
2639		<0.01	<10	<10	7	<10	400				
2640		<0.01	<10	<10	6	<10	880				
2641		<0.01	<10	<10	7	<10	373				
2642		<0.01	<10	<10	7	<10	411				
2643		<0.01	<10	<10	8	<10	944				
2644		<0.01	<10	<10	7	<10	633				
2645		<0.01	<10	<10	6	<10	568				
2646		<0.01	<10	<10	6	<10	1615				
2647		<0.01	<10	<10	7	<10	651				
2661		<0.01	<10	<10	13	<10	872				
2662		<0.01	<10	<10	14	<10	880				
2663		<0.01	<10	<10	7	<10	293				
2664		<0.01	<10	<10	13	<10	1235				
2665		<0.01	<10	<10	11	<10	620				
2666		<0.01	<10	<10	7	<10	1195				
2667		<0.01	<10	<10	9	<10	549				
2668		<0.01	<10	<10	10	<10	371				
2669		<0.01	<10	<10	11	<10	630				
2670		<0.01	<10	<10	13	<10	122				
2671		<0.01	<10	<10	11	<10	442				
2672		<0.01	<10	<10	6	<10	1075				
2673		<0.01	<10	<10	8	<10	1295				
2674		<0.01	<10	<10	8	<10	810				

Comments: NS6 is non-sufficient sample.



# ALS Chemex

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ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 19-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2675		2.98	0.03	2.9	1.05	288	<10	140	0.5	<2	1.48	6.6	6	58	19	3.58
2676		1.68	0.05	0.4	0.74	1025	<10	140	0.5	<2	1.01	0.6	5	34	12	2.38
2677		1.24	0.10	0.4	0.64	1080	<10	40	0.6	<2	1.56	1.4	6	74	11	2.98
2678		2.84	<0.01	0.5	0.98	265	<10	180	0.6	2	2.09	1.1	6	36	12	2.95
2679		3.18	<0.01	0.3	1.44	918	<10	130	0.5	<2	1.89	0.9	7	89	12	3.41
2680		1.66	<0.01	1.1	0.94	7930	<10	30	<0.5	<2	3.70	6.3	8	24	11	3.82
2681		3.74	<0.01	0.3	1.34	523	<10	160	0.5	<2	1.54	0.6	6	105	10	2.97
2682		0.42	<0.01	0.3	4.34	48	<10	460	0.5	4	3.75	0.7	30	99	42	6.28
2683		3.54	0.01	<0.2	1.00	930	<10	160	<0.5	<2	3.55	<0.5	5	123	9	2.68
2684		0.68	1.01	1.4	0.69	1120	<10	60	0.5	<2	1.15	2.8	6	38	12	3.45
2685		0.70	0.73	0.9	0.70	926	<10	70	0.5	<2	1.28	2.9	6	97	11	2.95
2686		0.08	1.50	>100	0.39	4510	<10	20	<0.5	8	0.87	>500	6	55	840	6.87
2687		2.98	0.07	0.5	0.93	118	<10	130	0.5	<2	2.04	0.9	6	45	10	2.90

Comments: NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 19-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
2675		<10	1	0.32	10	0.78	1335	1	0.05	4	800	156	1.85	18	2	196
2676		<10	<1	0.31	10	0.36	931	<1	0.03	2	780	30	1.78	10	1	198
2677		<10	<1	0.32	10	0.41	1460	<1	0.03	4	770	57	2.69	8	1	246
2678		<10	<1	0.27	20	0.86	2300	<1	0.04	3	810	56	1.49	12	1	302
2679		<10	<1	0.23	20	0.87	1770	1	0.06	3	820	57	1.23	13	2	192
2680		<10	<1	0.27	10	0.51	1525	2	0.05	4	740	86	2.61	42	1	369
2681		<10	<1	0.27	20	0.65	923	1	0.07	5	790	66	1.34	9	1	172
2682		10	1	0.08	20	4.25	1255	1	0.35	122	1860	5	0.22	51	21	719
2683		<10	<1	0.26	10	0.46	1315	1	0.07	4	720	21	1.68	7	1	334
2684		<10	<1	0.27	10	0.25	526	<1	0.06	4	740	88	3.23	13	1	212
2685		<10	<1	0.28	10	0.22	567	1	0.05	4	730	108	2.78	18	1	215
2686		<10	2	0.25	10	0.26	402	<1	0.02	6	580	>10000	8.56	2530	1	104
2687		<10	<1	0.25	10	0.55	1165	2	0.07	3	750	60	2.48	10	1	271

Comments: NSS is non-sufficient sample.



# ALS Chemex

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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.

700-700 W PENDER ST

VANCOUVER BC V6C 1G8

Page: 4 - C

Total # Pages: 4 (A - C)

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Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079318

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.05	5
2675		<0.01	<10	<10	17	<10	639				
2676		<0.01	<10	<10	7	<10	70				
2677		<0.01	<10	<10	5	<10	255				
2678		<0.01	<10	<10	13	<10	167				
2679		<0.01	<10	<10	20	<10	161				
2680		<0.01	<10	<10	13	<10	948				
2681		<0.01	<10	<10	18	<10	99				
2682		0.05	10	<10	145	<10	132				
2683		<0.01	<10	<10	13	<10	48				
2684		<0.01	<10	<10	6	<10	700			1.06	
2685		<0.01	<10	<10	5	<10	700				
2686		<0.01	<10	<10	4	10	>10000	1.97	3.59	1.98	NSS
2687		<0.01	<10	<10	8	<10	120				

Comments: NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
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Page: 1  
Finalized Date: 22-NOV-2004  
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## CERTIFICATE VA04078223

Project: Thorn

P.O. No.:

This report is for 80 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 9-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

HENRY AWMACK

STEWART HARRIS

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

To: EQUITY ENGINEERING LTD.  
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VANCOUVER BC V6C 1G8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



# ALS Chemex

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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
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VANCOUVER BC V6C 1G8

Page: 2 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 22-NOV-2004  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04078223

Sample Description	Method	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01
2530		2.86	0.02	0.3	1.24	232	<10	120	0.5	<2	2.23	0.5	6	47	13	2.58
2531		3.82	0.02	0.3	1.08	506	<10	110	<0.5	<2	2.37	0.6	6	34	21	2.48
2532		0.10	0.64	>100	0.45	2570	<10	30	<0.5	25	1.15	406	18	42	6330	7.24
2533		4.02	0.02	0.3	1.03	271	<10	110	<0.5	<2	2.47	0.5	6	45	15	2.65
2534		4.06	<0.01	0.4	1.16	679	<10	110	0.5	<2	1.81	1.1	6	32	15	2.84
2535		3.68	0.01	0.3	1.26	739	<10	100	0.5	<2	2.57	0.9	6	40	13	2.65
2536		3.98	<0.01	<0.2	1.07	550	<10	110	<0.5	<2	3.56	<0.5	6	31	15	2.63
2537		4.02	<0.01	<0.2	0.92	244	<10	100	<0.5	<2	3.56	<0.5	7	43	9	2.50
2538		2.56	<0.01	0.2	0.95	201	<10	140	<0.5	<2	3.36	<0.5	5	28	10	2.54
2539		0.32	<0.01	<0.2	4.09	49	<10	320	0.5	<2	3.74	1.3	27	110	42	6.10
2586		4.04	0.05	13.1	0.48	2120	<10	40	<0.5	<2	1.57	35.3	8	45	188	3.75
2587		0.10	0.98	>100	0.39	4650	<10	30	<0.5	7	0.81	>500	5	53	823	6.77
2588		4.46	0.04	8.8	0.42	2000	<10	40	<0.5	<2	0.70	31.7	8	38	52	3.48
2589		5.14	0.03	5.3	0.53	2180	<10	100	<0.5	<2	0.84	19.7	9	57	48	3.29
2590		4.58	0.01	2.5	0.45	1600	<10	110	<0.5	<2	1.58	7.3	5	34	23	2.26
2591		2.94	<0.01	0.9	0.48	7050	<10	110	<0.5	<2	2.18	1.4	7	36	15	2.33
2592		4.44	<0.01	0.6	0.75	540	<10	230	0.5	<2	3.19	0.8	5	21	13	2.54
2593		3.00	<0.01	0.8	0.81	43	<10	130	0.5	<2	2.71	<0.5	7	41	12	2.59
2594		0.76	<0.01	1.4	0.70	179	<10	60	0.5	<2	1.20	<0.5	6	28	16	5.68
2595		3.90	<0.01	1.0	0.50	283	<10	140	<0.5	<2	2.27	0.7	9	56	10	2.82
2596		4.92	0.13	>100	0.65	4240	<10	50	<0.5	3	1.11	31.5	8	36	193	4.35
2597		4.50	0.08	22.1	0.72	2400	<10	120	<0.5	<2	1.27	56.2	7	58	88	3.34
2598		4.46	0.09	13.5	0.83	1825	<10	120	<0.5	<2	1.65	35.3	7	38	59	3.76
2599		5.00	0.06	10.4	0.43	1135	<10	130	<0.5	<2	0.86	19.5	6	38	37	2.67
2600		3.34	0.04	13.8	0.48	2790	<10	50	<0.5	<2	0.59	24.3	9	44	52	4.16
2601		4.40	0.04	19.5	0.63	2940	<10	40	<0.5	<2	0.66	35.0	9	57	91	3.85
2602		4.22	0.06	10.9	0.58	4830	<10	30	<0.5	<2	0.78	155.0	9	35	56	3.78
2603		2.28	0.04	9.7	0.78	7830	<10	70	<0.5	<2	0.62	201	9	54	50	3.94
2604		1.76	0.04	8.7	0.65	8540	<10	50	<0.5	<2	0.59	185.5	9	34	50	3.89
2612		3.08	0.10	19.9	0.79	9040	<10	30	<0.5	<2	0.65	43.7	7	42	40	3.92
2613		3.50	0.09	17.3	0.75	9700	<10	70	<0.5	<2	0.98	20.2	7	31	40	5.05
2614		3.34	0.11	18.9	0.86	>10000	<10	80	<0.5	<2	0.94	30.9	7	47	55	4.27
2615		1.66	0.04	21.4	0.58	4310	<10	100	<0.5	<2	0.42	19.0	9	30	64	2.90
2616		1.22	0.05	17.8	0.76	4930	<10	100	<0.5	<2	0.43	15.9	9	43	48	3.19
2617		0.68	0.23	75.9	0.51	>10000	<10	70	<0.5	3	0.30	122.5	7	31	287	6.58
2618		3.58	0.12	7.2	0.82	9490	<10	140	<0.5	<2	0.60	18.6	8	44	72	3.60
2619		4.04	0.06	4.2	0.61	3350	<10	90	<0.5	<2	0.76	46.6	7	28	46	3.41
2620		4.52	0.02	1.0	0.69	350	<10	100	<0.5	<2	0.57	4.1	7	53	13	2.64
2621		4.24	0.04	2.5	0.66	2540	<10	40	0.5	<2	0.92	9.6	8	28	45	3.45
2622		4.40	0.04	2.1	0.78	3440	<10	80	<0.5	<2	0.71	5.9	7	46	29	3.41

Comments: NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 22-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04078223

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
2530	<10	<1	0.22	10	0.73	2270	2	0.06	4	810	52	1.94	4	2	264	
2531	<10	1	0.23	10	0.47	2030	4	0.06	3	800	40	1.84	7	1	219	
2532	<10	5	0.16	<10	0.26	8070	86	0.01	19	260	>10000	7.89	315	1	62	
2533	<10	<1	0.23	10	0.41	2040	3	0.07	5	810	56	2.09	6	1	228	
2534	<10	1	0.23	10	0.61	2180	5	0.07	5	840	79	2.27	5	1	211	
2535	<10	<1	0.22	10	0.70	2460	3	0.07	3	770	61	1.86	4	2	297	
2536	<10	<1	0.23	10	0.38	1895	3	0.07	6	790	22	2.04	4	2	304	
2537	<10	1	0.22	10	0.35	1830	2	0.07	4	740	31	2.14	4	1	290	
2538	<10	1	0.26	10	0.42	2010	2	0.08	3	770	20	2.22	3	1	273	
2539	10	1	0.15	10	3.47	1030	<1	0.44	109	2010	8	0.09	17	20	548	
2586	<10	1	0.29	10	0.39	1240	6	0.06	15	770	1050	3.86	170	1	293	
2587	<10	3	0.27	10	0.26	376	1	0.03	6	570	>10000	8.31	2380	1	104	
2588	<10	1	0.27	10	0.11	516	3	0.06	12	780	944	3.73	76	1	164	
2589	<10	<1	0.32	10	0.15	805	2	0.06	15	830	712	3.40	74	1	200	
2590	<10	<1	0.29	10	0.38	3070	3	0.06	5	670	226	2.02	41	2	260	
2591	<10	1	0.28	10	0.55	2840	<1	0.05	4	740	69	1.53	24	2	314	
2592	<10	<1	0.29	10	0.92	3080	1	0.06	5	780	76	1.56	18	2	526	
2593	<10	<1	0.30	10	0.86	3320	<1	0.06	4	820	24	1.72	13	2	421	
2594	<10	1	0.27	<10	0.37	1405	1	0.06	3	720	39	5.71	20	1	251	
2595	<10	<1	0.27	10	0.49	3380	1	0.05	7	830	44	2.59	17	2	308	
2596	<10	1	0.32	10	0.22	1295	3	0.06	7	810	2280	4.60	304	1	250	
2597	<10	1	0.30	10	0.30	1305	2	0.05	10	690	929	3.35	160	1	265	
2598	<10	1	0.28	10	0.44	1640	2	0.05	10	790	929	3.60	169	1	338	
2599	<10	<1	0.22	10	0.22	1250	4	0.03	8	630	740	2.72	123	1	163	
2600	<10	1	0.27	10	0.12	529	6	0.04	18	810	1335	4.60	100	1	143	
2601	<10	1	0.35	10	0.15	632	17	0.05	19	790	1630	4.38	163	1	144	
2602	<10	1	0.31	10	0.23	759	8	0.05	18	770	1720	4.29	155	1	229	
2603	<10	1	0.40	10	0.23	748	3	0.04	15	720	2700	4.33	324	1	156	
2604	<10	1	0.33	10	0.22	666	4	0.04	16	730	2190	4.31	266	1	176	
2612	<10	1	0.37	10	0.21	788	2	0.05	6	770	1655	4.14	89	1	166	
2613	<10	1	0.33	10	0.38	2140	2	0.04	7	800	988	5.09	97	1	201	
2614	<10	1	0.41	10	0.36	1205	3	0.04	9	830	793	4.27	116	1	204	
2615	<10	<1	0.32	10	0.09	393	1	0.06	7	890	938	3.13	88	1	165	
2616	<10	1	0.40	10	0.11	440	<1	0.06	8	860	792	3.40	72	1	168	
2617	<10	1	0.30	10	0.09	352	1	0.05	7	700	6040	6.63	374	1	108	
2618	<10	<1	0.44	10	0.18	725	4	0.06	18	660	456	3.47	100	1	192	
2619	<10	<1	0.32	10	0.27	921	3	0.04	8	680	388	3.41	42	1	281	
2620	<10	<1	0.39	10	0.14	789	1	0.05	4	850	72	2.67	12	1	203	
2621	<10	<1	0.32	10	0.27	1635	4	0.05	5	850	132	3.39	28	1	255	
2622	<10	<1	0.37	10	0.28	1835	4	0.05	7	820	130	3.26	20	1	201	

Comments: NSS is non-sufficient sample.





# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 22-NOV-2004  
 Account: EIA

Project: Thom

## CERTIFICATE OF ANALYSIS VA04078223

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	% 0.01	ppm 0.05	ppm 5
2530		<0.01	<10	<10	16	<10	104					
2531		<0.01	<10	<10	14	<10	122					
2532		0.01	10	<10	11	20	>10000		3.56	5.76		NSS
2533		<0.01	<10	<10	13	<10	120					
2534		<0.01	<10	<10	14	<10	230					
2535		<0.01	<10	<10	14	<10	202					
2536		<0.01	<10	<10	13	<10	82					
2537		<0.01	<10	<10	9	<10	76					
2538		<0.01	<10	<10	9	<10	86					
2539		0.13	<10	<10	164	<10	251					
2586		<0.01	<10	<10	7	<10	3170					
2587		<0.01	<10	<10	5	10	>10000		1.99	3.73		328
2588		<0.01	<10	<10	5	<10	2780					
2589		<0.01	<10	<10	7	<10	1915					
2590		<0.01	<10	<10	7	<10	769					
2591		<0.01	<10	<10	5	<10	177					
2592		<0.01	<10	<10	10	<10	112					
2593		<0.01	<10	<10	10	<10	41					
2594		<0.01	<10	<10	8	<10	18					
2595		<0.01	<10	<10	7	<10	64					
2596		<0.01	<10	<10	8	<10	2070					87
2597		<0.01	<10	<10	9	<10	3790					
2598		<0.01	<10	<10	11	<10	3160					
2599		<0.01	<10	<10	6	<10	1720					
2600		<0.01	<10	<10	6	<10	5030					
2601		<0.01	<10	<10	8	<10	9390					
2602		<0.01	<10	<10	7	<10	>10000			0.99		
2603		<0.01	<10	<10	8	<10	>10000			1.00		
2604		<0.01	<10	<10	7	<10	>10000			0.99		
2612		<0.01	<10	<10	8	<10	6290					
2613		<0.01	<10	<10	7	<10	3400					
2614		<0.01	<10	<10	9	<10	4890					
2615		<0.01	<10	<10	6	<10	1890					
2616		<0.01	<10	<10	7	<10	1785					
2617		<0.01	<10	<10	6	<10	>10000			1.26		
2618		<0.01	<10	<10	9	<10	2620					
2619		<0.01	<10	<10	7	<10	2930					
2620		<0.01	<10	<10	8	<10	482					
2621		<0.01	<10	<10	7	<10	1130					
2622		<0.01	<10	<10	9	<10	1685					

Comments: NSS is non-sufficient sample.



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 22-NOV-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04078223**

Sample Description	Method	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
2623		4.28	0.01	0.5	0.81	749	<10	130	0.6	<2	1.11	<0.5	9	26	21	3.12
2624		4.12	0.02	1.6	0.78	1430	<10	80	0.6	<2	1.23	<0.5	7	42	12	3.23
2625		4.70	0.01	2.0	0.54	873	<10	110	0.5	<2	0.77	<0.5	8	26	12	3.22
2626		2.16	0.04	2.3	0.54	552	<10	120	<0.5	<2	0.51	1.7	6	39	12	2.89
2627		1.84	0.63	7.5	0.47	1965	<10	60	<0.5	22	0.61	45.0	6	31	1235	8.47
2628		1.42	0.13	0.7	0.56	616	<10	130	<0.5	2	0.44	2.6	5	36	21	2.36
2629		2.90	0.06	1.2	0.50	630	<10	110	<0.5	<2	0.56	1.6	6	24	19	2.51
2630		4.78	0.36	4.4	0.65	2080	<10	40	<0.5	4	0.29	23.4	9	44	116	5.94
2631		3.12	0.62	6.2	0.55	2360	<10	50	<0.5	4	0.23	19.0	9	33	580	6.22
2632		2.94	0.72	29.0	0.57	1865	<10	20	<0.5	9	0.26	20.1	8	39	2380	6.04
2633		1.10	0.92	>100	0.45	5430	<10	10	<0.5	114	1.02	75.6	5	22	>10000	11.60
2634		2.76	0.07	1.6	0.61	1295	<10	60	<0.5	3	0.45	3.5	7	31	241	3.34
2635		2.32	0.72	49.4	0.45	2840	<10	10	<0.5	24	0.32	48.3	8	25	7090	9.38
2648		3.12	0.41	1.6	0.60	2190	<10	50	<0.5	23	0.40	8.8	8	31	340	8.30
2649		3.04	0.15	1.1	0.44	1585	<10	90	<0.5	5	0.76	4.5	9	29	128	6.53
2650		6.88	0.25	1.4	0.65	1715	<10	30	<0.5	6	1.01	4.4	10	40	326	4.86
2651		2.48	0.67	7.0	0.52	2470	<10	30	<0.5	18	0.63	13.4	9	35	1715	8.71
2652		0.10	1.55	>100	0.41	4680	<10	30	<0.5	9	0.86	>500	7	57	860	6.89
2653		2.26	0.13	2.5	0.72	959	<10	40	0.6	5	0.79	6.8	7	34	432	4.22
2654		3.28	0.55	17.4	0.47	1005	<10	20	0.5	31	0.63	6.7	10	36	4040	5.96
2655		3.82	0.45	4.4	0.58	1680	<10	60	<0.5	9	0.26	2.8	10	47	883	5.77
2656		3.84	0.26	4.0	0.43	2000	<10	60	<0.5	27	0.30	2.7	9	38	393	7.41
2657		3.62	0.35	11.0	0.56	1075	<10	80	<0.5	23	0.56	3.9	8	48	2670	5.73
2658		4.00	0.50	41.1	0.47	2730	<10	70	<0.5	34	0.36	19.0	8	30	5600	8.52
2659		0.44	0.02	0.6	3.93	62	<10	380	0.5	<2	3.52	0.7	29	92	57	5.81
2660		4.28	0.27	12.2	0.53	1815	<10	50	<0.5	33	0.85	6.5	9	42	716	6.90
2697		3.08	0.46	>100	0.45	3290	<10	90	<0.5	3	1.08	53.0	7	26	133	3.83
2698		3.28	0.23	70.1	0.67	3250	<10	100	<0.5	2	1.10	59.1	7	47	79	3.11
2699		1.44	0.93	>100	0.50	8390	<10	70	<0.5	9	0.71	206	6	26	421	6.34
2700		0.98	0.41	65.7	0.66	4260	<10	100	<0.5	2	0.68	35.3	9	47	132	3.56
2701		0.90	0.44	63.4	0.44	4540	<10	90	<0.5	2	0.70	26.2	8	30	148	3.81
2702		2.12	0.45	95.5	0.62	4280	<10	90	<0.5	4	1.09	38.8	8	38	163	4.52
2703		1.86	0.83	>100	0.79	5160	<10	70	0.5	6	1.95	113.0	7	25	336	5.90
2704		2.12	0.55	>100	0.71	3930	<10	70	0.5	8	1.12	13.3	7	43	265	4.29
2705		2.14	0.35	24.1	0.51	5190	<10	110	<0.5	3	0.89	18.6	9	29	51	3.34
2706		2.00	0.29	23.4	0.61	6360	<10	90	<0.5	<2	1.31	31.2	9	35	42	3.45
2707		1.48	0.92	>100	0.54	6310	<10	80	<0.5	6	1.45	59.0	8	24	387	5.37
2708		3.06	0.41	83.0	0.44	4460	<10	70	<0.5	5	0.96	25.6	8	32	169	4.41
2709		3.06	0.23	51.4	0.42	2640	<10	90	<0.5	2	1.04	18.4	9	26	97	3.36
2710		3.18	0.36	>100	0.50	4310	<10	60	<0.5	3	1.02	39.8	9	39	197	5.15

Comments: NSS is non-sufficient sample.



**ALS Chemex**  
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 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 3 (A - C)  
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Project: Thorn

**CERTIFICATE OF ANALYSIS VA04078223**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR	10	1	0.01	10	0.01	5	1	0.01	1	1	10	2	0.01	2	1	1
2623	<10	<1	0.34	10	0.49	3080	4	0.06	5	810	29	2.78	7	1	278	
2624	<10	<1	0.38	10	0.49	3260	3	0.05	4	910	33	3.07	5	1	250	
2625	<10	<1	0.30	10	0.24	1520	1	0.06	3	800	38	3.26	5	1	207	
2626	<10	<1	0.32	10	0.13	793	1	0.05	4	790	94	2.96	7	1	158	
2627	<10	<1	0.29	10	0.17	803	7	0.05	9	740	528	9.15	219	1	203	
2628	<10	<1	0.38	10	0.09	722	1	0.05	3	660	79	2.44	13	1	132	
2629	<10	<1	0.33	10	0.13	987	1	0.03	4	710	71	2.55	11	1	154	
2630	<10	<1	0.39	10	0.06	236	10	0.04	15	820	317	6.39	25	1	170	
2631	<10	<1	0.33	10	0.03	56	14	0.04	16	970	223	6.72	53	1	252	
2632	<10	<1	0.34	10	0.03	92	4	0.04	14	850	200	6.59	457	1	192	
2633	<10	2	0.27	10	0.38	1295	2	0.04	7	510	685	>10.0	4650	2	158	
2634	<10	<1	0.36	20	0.09	456	1	0.05	4	850	108	3.49	28	1	160	
2635	<10	1	0.27	10	0.08	374	7	0.05	9	600	545	>10.0	1165	1	154	
2648	<10	<1	0.37	10	0.11	294	4	0.05	12	830	233	8.81	114	1	175	
2649	<10	<1	0.29	10	0.21	796	7	0.05	13	720	148	6.99	39	1	244	
2650	<10	<1	0.40	10	0.24	779	4	0.04	10	890	128	5.10	47	1	324	
2651	<10	<1	0.32	10	0.17	748	6	0.04	13	800	262	9.35	154	1	220	
2652	<10	3	0.27	10	0.25	397	2	0.01	5	590	>10000	8.80	2430	1	107	
2653	<10	<1	0.41	10	0.11	364	2	0.06	4	800	167	4.47	67	1	272	
2654	<10	<1	0.29	10	0.16	611	5	0.03	18	780	227	6.27	665	1	176	
2655	<10	<1	0.35	10	0.05	148	8	0.03	14	780	131	6.12	146	1	126	
2656	<10	<1	0.27	10	0.06	214	5	0.03	13	700	168	7.90	115	1	122	
2657	<10	<1	0.34	10	0.14	383	5	0.03	12	720	158	6.06	402	1	148	
2658	<10	1	0.28	10	0.06	171	6	0.05	14	750	170	9.33	1330	1	193	
2659	10	<1	0.08	20	3.82	1280	1	0.30	111	1740	13	0.31	54	19	671	
2660	<10	<1	0.31	10	0.10	362	5	0.03	13	750	271	7.51	188	1	248	
2697	<10	<1	0.24	10	0.19	524	2	0.01	5	760	6180	4.09	1215	1	210	
2698	<10	1	0.38	20	0.21	590	2	0.01	4	840	3610	3.23	651	1	222	
2699	<10	1	0.27	10	0.10	364	3	0.01	4	890	5670	7.14	748	1	192	
2700	<10	<1	0.37	20	0.08	319	2	0.01	11	830	1075	3.67	219	1	203	
2701	<10	<1	0.26	10	0.08	328	4	0.01	8	850	1125	3.89	251	1	200	
2702	<10	<1	0.33	10	0.19	451	4	0.02	6	690	1150	4.58	271	1	237	
2703	<10	1	0.25	10	0.64	836	8	0.02	5	590	3410	6.09	715	1	316	
2704	<10	<1	0.34	10	0.24	313	3	0.03	7	650	1140	4.21	350	1	301	
2705	<10	<1	0.28	10	0.11	182	3	0.02	9	910	306	3.28	123	1	267	
2706	<10	<1	0.33	20	0.19	273	2	0.02	9	900	387	3.35	160	1	349	
2707	<10	<1	0.26	10	0.36	418	3	0.01	6	650	1825	5.41	750	1	317	
2708	<10	<1	0.26	10	0.13	240	3	0.01	7	740	957	4.53	407	1	243	
2709	<10	<1	0.26	20	0.18	320	1	0.02	6	830	549	3.42	246	1	221	
2710	<10	<1	0.29	10	0.12	258	2	0.02	9	730	1365	5.40	458	1	269	

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 3 - C  
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Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04078223

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	% 0.01	ppm 0.05	ppm 5
2623		<0.01	<10	<10	10	<10	94					
2624		<0.01	<10	<10	10	<10	36					
2625		<0.01	<10	<10	6	<10	38					
2626		<0.01	<10	<10	5	<10	351					
2627		<0.01	<10	<10	7	<10	1750					
2628		<0.01	<10	<10	6	<10	737					
2629		<0.01	<10	<10	5	<10	859					
2630		<0.01	<10	<10	8	<10	1960					
2631		<0.01	<10	<10	7	<10	2480					
2632		<0.01	<10	<10	6	<10	1695					
2633		<0.01	<10	<10	7	<10	3900	5.46				205
2634		<0.01	<10	<10	7	<10	637					
2635		<0.01	<10	<10	6	<10	2330					
2648		<0.01	<10	<10	6	<10	807					
2649		<0.01	<10	<10	6	<10	650					
2650		<0.01	<10	<10	7	<10	580					
2651		<0.01	<10	<10	7	<10	1330					
2652		<0.01	<10	<10	5	20	>10000		2.00	3.59	4.65	NSS
2653		<0.01	<10	<10	6	<10	1310					
2654		<0.01	<10	<10	6	<10	1465					
2655		<0.01	<10	<10	7	<10	777					
2656		<0.01	<10	<10	6	<10	743					
2657		<0.01	<10	<10	7	<10	1125					
2658		<0.01	<10	<10	6	<10	1755					
2659		0.05	<10	<10	139	<10	145					
2660		<0.01	<10	<10	6	<10	1120					
2697		<0.01	<10	<10	5	<10	4350					149
2698		<0.01	<10	<10	7	<10	4240					
2699		<0.01	<10	<10	6	10	>10000			1.27		259
2700		<0.01	<10	<10	7	<10	2660					
2701		<0.01	<10	<10	5	<10	2000					
2702		<0.01	<10	<10	7	<10	3000					
2703		<0.01	<10	<10	9	<10	8210					203
2704		<0.01	<10	<10	7	<10	1065					114
2705		<0.01	<10	<10	6	<10	1465					
2706		<0.01	<10	<10	6	<10	2460					
2707		<0.01	<10	<10	6	<10	5010					214
2708		<0.01	<10	<10	5	<10	2120					
2709		<0.01	<10	<10	5	<10	1735					
2710		<0.01	<10	<10	6	<10	3470					114

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

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Finalized Date: 23-NOV-2004  
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## CERTIFICATE VA04079223

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 1 Drill Core sample submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

HENRY AWMACK

DARCY BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
BAG-01	Bulk Master for Storage
PUL-32	Pulverize 1000g to 85% < 75 um
SCR-21	Screen to -100 um
FND-03	Find Reject for Addn Analysis

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-SCR21	Au Screen Fire Assay - 100 um	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
Au-AA25D	Ore Grade Au 30g FA AA Dup	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



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North Vancouver BC V7J 2C1 Canada  
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Page: 2 - A  
Total # Pages: 2 (A)  
Finalized Date: 23-NOV-2004  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04079223

Sample Description	Method Analyte Units LOR	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-SCR21	Au-AA25	Au-GRA21	Au-AA25D
		Au Total	Au (+) F	Au (-) F	Au (+) m	WT. + Fr	WT. - Fr	Au	Au	Au
		ppm 0.05	ppm 0.05	ppm 0.05	mg 0.001	g 0.01	g 0.1	ppm 0.01	ppm 0.05	ppm 0.01
M626650		269	1515	263	7.970	5.26	1088.5	>100	263	>100



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Page: 1  
Finalized Date: 26-NOV-2004  
Account: EIA

## CERTIFICATE VA04080031

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 88 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 12-NOV-2004.

The following have access to data associated with this certificate:  
EQUITY ENG E-MAIL      HENRY AWMACK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	
B002944		2.30	0.03	0.7	0.75	132	<10	50	<0.5	<2	0.29	2.8	6	19	16	2.65	
B002945		3.14	0.31	2.1	0.80	613	<10	40	0.5	2	0.42	7.4	12	31	47	4.46	
B002946		3.68	0.03	1.2	0.77	323	<10	60	0.5	<2	0.32	4.3	12	15	44	3.79	
B002947		2.68	0.01	1.2	1.20	268	<10	60	0.5	<2	0.90	4.1	10	24	37	3.49	
B002948		3.40	0.01	0.8	1.10	186	<10	80	0.6	<2	2.91	0.5	7	8	24	2.98	
B002949		2.98	0.03	0.8	0.84	171	<10	50	0.5	2	1.68	2.2	8	33	28	3.44	
B002950		2.06	0.08	12.8	0.24	638	<10	20	<0.5	9	0.19	4.4	8	38	1625	5.10	
B002951		1.88	0.04	1.1	0.25	112	<10	30	<0.5	5	0.17	<0.5	8	64	31	3.87	
B002952		1.84	0.23	10.8	0.37	534	<10	20	<0.5	17	0.22	21.0	12	27	694	6.02	
B002953		1.26	0.09	2.0	0.60	375	<10	40	<0.5	<2	0.25	8.6	12	38	43	3.91	
B002954		0.30	<0.01	<0.2	0.79	4	<10	270	<0.5	<2	1.78	<0.5	3	22	17	1.74	
B002955		1.56	0.03	3.9	0.51	176	<10	30	<0.5	4	0.25	22.4	9	48	55	3.70	
B002956		0.70	0.03	5.5	0.22	521	<10	40	<0.5	6	0.20	1.3	10	18	967	4.23	
B002957		0.60	0.02	1.6	0.22	199	<10	40	<0.5	4	0.18	<0.5	10	41	118	4.16	
B002958		1.70	0.04	3.7	0.19	237	<10	60	<0.5	5	0.13	0.8	9	19	282	4.81	
B002959		1.52	0.03	2.9	0.22	146	<10	70	<0.5	4	0.17	<0.5	6	63	174	3.76	
B002960		1.18	0.21	9.6	0.20	446	<10	40	<0.5	7	0.10	2.5	6	44	1015	5.11	
B002961		0.78	1.67	99.7	0.11	2660	<10	10	<0.5	29	0.02	25.8	5	61	5880	24.8	
B002962		2.98	0.12	7.0	0.17	206	<10	40	<0.5	11	0.06	3.2	7	23	289	5.31	
B002963		0.10	0.94	>100	0.56	4740	<10	30	<0.5	6	0.54	96.1	7	53	292	6.16	
B002964		2.66	0.02	5.2	0.18	118	<10	80	<0.5	8	0.04	13.2	8	43	111	3.61	
B002965		0.64	0.16	17.7	0.15	757	<10	20	<0.5	18	0.12	3.1	18	29	1530	7.02	
B002966		0.42	0.04	2.5	0.19	59	<10	40	<0.5	6	0.16	<0.5	7	88	59	4.80	
B002967		0.48	0.02	0.8	0.17	64	<10	60	<0.5	2	0.15	<0.5	8	34	26	4.15	
B002968		0.44	0.30	17.4	0.15	588	<10	10	<0.5	19	0.09	2.3	11	136	1480	15.2	
B002969		2.48	0.06	2.4	0.19	80	<10	60	<0.5	5	0.08	3.7	9	91	94	4.75	
B002970		3.64	0.05	2.3	0.24	99	<10	20	<0.5	6	0.09	3.7	9	22	42	4.56	
B002971		3.24	0.01	1.1	0.69	177	<10	80	0.5	3	0.22	1.3	8	38	16	3.35	
B002972		2.58	0.01	0.5	0.60	114	<10	100	0.5	2	0.23	<0.5	8	12	14	3.31	
B002973		5.22	0.02	1.0	0.72	138	<10	50	0.5	2	0.25	6.7	9	31	22	3.23	
B002974		2.44	0.02	2.3	0.40	116	<10	30	<0.5	10	0.16	1.1	6	30	24	3.46	
B002975		3.58	0.02	1.1	0.21	121	<10	20	<0.5	4	0.07	<0.5	8	63	28	4.24	
B002976		2.36	0.07	4.0	0.18	61	<10	30	<0.5	20	0.11	1.9	5	44	168	3.75	
B002977		0.32	<0.01	0.2	0.60	<2	<10	320	<0.5	<2	1.06	<0.5	3	59	11	1.54	
B002978		3.60	0.01	1.4	0.18	70	<10	20	<0.5	2	0.08	0.5	8	30	56	3.78	
B002979		0.42	0.18	76.3	0.17	3720	<10	10	<0.5	31	0.14	25.1	6	108	9450	10.30	
B002980		1.86	0.02	8.1	0.17	142	<10	20	<0.5	14	0.09	5.3	7	29	208	3.82	
B002981		3.42	0.02	3.0	0.61	135	<10	30	<0.5	2	0.20	28.7	8	45	45	3.19	
B002982		3.10	0.02	3.0	0.53	165	<10	30	<0.5	2	0.21	47.5	9	18	22	3.39	
B002983		3.14	0.01	4.6	0.49	103	<10	30	<0.5	<2	0.20	23.1	7	45	31	3.22	





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ALS Canada Ltd.

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To: EQUITY ENGINEERING LTD.  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
B002944	<10	1	0.32	10	0.10	>10000	2	0.03	6	740	303	2.65	2	1	180	
B002945	<10	1	0.32	10	0.08	>10000	2	0.05	18	1010	644	4.74	4	3	382	
B002946	<10	1	0.30	<10	0.03	118	2	0.05	13	990	196	4.10	7	2	111	
B002947	<10	<1	0.27	10	0.47	7750	2	0.06	10	960	425	3.30	3	3	231	
B002948	<10	1	0.26	10	0.97	9330	2	0.06	5	890	251	2.96	3	3	184	
B002949	<10	<1	0.25	10	0.52	6600	3	0.05	6	850	274	3.64	3	2	116	
B002950	<10	2	0.03	<10	0.01	83	9	0.02	12	820	103	5.41	254	<1	109	
B002951	<10	1	0.03	<10	0.01	64	2	0.02	10	730	88	4.09	3	1	401	
B002952	<10	3	0.10	<10	0.01	49	3	0.03	15	900	868	6.51	88	1	395	
B002953	<10	1	0.19	<10	0.03	55	3	0.06	14	820	716	4.25	7	2	128	
B002954	<10	<1	0.39	20	0.12	544	1	0.07	2	670	17	0.03	<2	1	70	
B002955	<10	2	0.16	<10	0.02	48	2	0.05	9	910	1505	4.13	8	1	297	
B002956	<10	5	0.02	<10	0.01	39	2	0.02	8	900	204	4.52	101	1	59	
B002957	<10	<1	0.02	<10	<0.01	31	2	0.02	8	790	198	4.40	13	1	56	
B002958	<10	1	0.01	<10	<0.01	27	2	0.02	8	560	96	5.04	36	<1	58	
B002959	<10	1	0.01	<10	<0.01	31	2	0.02	7	760	100	3.95	24	<1	68	
B002960	<10	2	0.02	<10	<0.01	30	2	0.02	6	460	173	5.30	100	<1	74	
B002961	<10	13	0.01	<10	<0.01	35	<1	0.01	17	60	754	>10.0	548	<1	39	
B002962	<10	1	0.01	<10	<0.01	27	2	0.01	7	230	273	5.56	26	1	61	
B002963	<10	1	0.33	10	0.10	300	1	0.04	8	700	4930	6.95	1575	1	131	
B002964	<10	1	0.01	<10	<0.01	20	2	0.02	6	110	74	3.84	21	1	45	
B002965	<10	5	0.01	<10	<0.01	34	2	0.01	11	510	455	7.41	154	<1	44	
B002966	<10	<1	0.01	<10	<0.01	41	3	0.01	9	700	315	4.99	5	<1	50	
B002967	<10	1	0.01	<10	<0.01	42	3	0.01	7	670	69	4.27	3	<1	43	
B002968	<10	2	0.01	<10	<0.01	32	2	0.01	20	440	606	>10.0	149	<1	52	
B002969	<10	1	0.01	<10	<0.01	28	2	0.02	9	320	543	4.93	8	<1	52	
B002970	<10	1	0.05	<10	0.01	30	3	0.02	7	300	192	4.75	5	1	57	
B002971	<10	<1	0.27	<10	0.06	2000	2	0.05	6	640	180	3.52	3	1	79	
B002972	<10	1	0.22	<10	0.05	2890	2	0.05	5	660	40	3.41	3	1	83	
B002973	<10	1	0.27	<10	0.03	89	2	0.06	7	740	356	3.51	5	1	113	
B002974	<10	1	0.05	<10	0.03	43	2	0.06	4	430	290	3.61	3	1	137	
B002975	<10	<1	0.01	<10	<0.01	28	2	0.02	7	260	61	4.45	2	<1	162	
B002976	<10	1	0.01	<10	<0.01	32	2	0.02	3	460	204	3.86	14	<1	44	
B002977	<10	<1	0.28	20	0.09	546	1	0.06	2	600	12	0.03	<2	1	49	
B002978	<10	<1	0.01	<10	<0.01	31	2	0.02	4	310	86	3.89	5	1	124	
B002979	<10	11	0.01	<10	<0.01	30	2	0.02	7	610	322	>10.0	1380	<1	50	
B002980	<10	1	0.01	<10	<0.01	28	3	0.02	4	370	195	3.97	34	1	198	
B002981	<10	2	0.30	<10	0.03	37	3	0.04	4	730	1310	3.56	7	1	182	
B002982	<10	2	0.21	<10	0.02	39	3	0.06	5	680	1705	3.81	4	1	140	
B002983	<10	1	0.19	<10	0.02	37	3	0.05	4	690	2880	3.58	6	1	188	



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
	Analyte	TI	TI	U	V	W	Zn	Cu	Zn	Au	Ag
	Units LOR	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	ppm 0.05	ppm 5
B002944		<0.01	<10	<10	9	<10	451				
B002945		<0.01	<10	<10	15	<10	1735				
B002946		<0.01	<10	<10	10	<10	643				
B002947		<0.01	<10	<10	17	<10	685				
B002948		<0.01	<10	<10	19	<10	112				
B002949		<0.01	<10	<10	14	<10	320				
B002950		<0.01	<10	<10	3	<10	272				
B002951		<0.01	<10	<10	3	<10	9				
B002952		<0.01	<10	<10	5	<10	2170				
B002953		<0.01	<10	<10	7	<10	1330				
B002954		0.02	<10	<10	19	<10	43				
B002955		<0.01	<10	<10	6	<10	3040				
B002956		<0.01	<10	<10	3	<10	139				
B002957		<0.01	<10	<10	3	<10	48				
B002958		<0.01	<10	<10	2	<10	53				
B002959		<0.01	<10	<10	2	<10	37				
B002960		<0.01	<10	<10	2	<10	174				
B002961		<0.01	10	<10	2	<10	4060			1.63	
B002962		<0.01	<10	<10	2	<10	317				
B002963		<0.01	<10	<10	6	10	>10000		1.29		155
B002964		<0.01	<10	<10	2	<10	1230				
B002965		<0.01	<10	<10	2	<10	469				
B002966		<0.01	<10	<10	3	<10	16				
B002967		<0.01	<10	<10	2	<10	9				
B002968		<0.01	10	<10	2	<10	161				
B002969		<0.01	<10	<10	2	<10	568				
B002970		<0.01	<10	<10	3	<10	436				
B002971		<0.01	<10	<10	7	<10	193				
B002972		<0.01	<10	<10	8	<10	25				
B002973		<0.01	<10	<10	6	<10	843				
B002974		<0.01	<10	<10	4	<10	149				
B002975		<0.01	<10	<10	3	<10	14				
B002976		<0.01	<10	<10	2	<10	203				
B002977		0.02	<10	<10	15	<10	37				
B002978		<0.01	<10	<10	2	<10	27				
B002979		<0.01	<10	<10	2	<10	1750				
B002980		<0.01	<10	<10	2	<10	453				
B002981		<0.01	<10	<10	6	<10	3150				
B002982		<0.01	<10	<10	5	<10	3650				
B002983		<0.01	<10	<10	4	<10	2650				



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 3 - A  
Total # Pages: 4 (A - C)  
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Account: EIA

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## CERTIFICATE OF ANALYSIS VA04080031

Sample-Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01
B002984		3.04	0.01	4.7	0.18	177	<10	20	<0.5	5	0.06	52.0	7	19	58	3.39
B002985		2.06	0.01	3.6	0.38	159	<10	30	<0.5	6	0.15	4.7	9	47	73	3.58
B002986		2.08	0.01	1.3	0.61	92	<10	30	<0.5	<2	0.21	4.0	8	16	17	3.23
B002987		1.86	0.01	2.4	0.63	121	<10	30	0.5	<2	0.18	9.9	8	26	39	3.21
B002988		0.38	0.65	>100	0.17	3820	<10	10	<0.5	31	0.05	23.1	5	64	9790	15.1
B002989		0.80	0.03	2.1	0.22	175	<10	40	<0.5	4	0.06	<0.5	8	53	119	4.24
B002990		0.82	1.33	37.2	0.19	2030	<10	10	<0.5	66	0.07	5.9	5	40	5950	25.1
B002991		0.90	1.94	>100	0.11	9120	<10	40	<0.5	294	0.14	22.3	5	51	>10000	27.3
B002992		1.40	0.05	2.3	0.17	142	<10	50	<0.5	8	0.06	0.6	7	29	165	3.87
B002993		0.56	0.10	5.1	0.16	197	<10	10	<0.5	11	0.08	1.8	8	108	384	4.42
B002994		2.22	0.04	2.0	0.18	165	<10	20	<0.5	4	0.07	2.3	8	26	54	3.82
B002995		0.32	0.60	>100	0.75	2120	<10	30	0.5	38	0.10	29.6	9	34	4980	4.69
B002996		0.42	1.48	>100	0.30	>10000	<10	10	<0.5	267	0.11	136.5	5	23	>10000	24.4
B002997		1.78	0.02	4.2	0.65	192	<10	30	<0.5	5	0.24	6.9	9	55	138	3.57
B002998		2.74	0.01	4.0	0.81	182	<10	30	0.5	3	0.22	6.5	8	27	195	3.33
B002999		1.28	0.01	1.5	0.89	138	<10	40	0.5	2	0.25	3.4	8	47	39	3.47
B003000		1.26	0.01	1.6	0.74	142	<10	40	0.5	2	0.24	3.2	8	20	38	3.33
B003001		3.34	0.02	2.4	0.43	153	<10	20	<0.5	5	0.16	1.1	8	31	56	3.70
B003002		1.46	0.37	21.9	0.15	346	<10	10	<0.5	50	0.07	7.9	6	123	1055	9.59
B003003		3.74	0.04	1.6	0.18	121	<10	20	<0.5	2	0.07	<0.5	7	61	54	3.82
B003004		3.48	0.07	20.7	0.17	670	<10	30	<0.5	29	0.10	0.8	5	33	1605	3.74
B003005		0.08	0.89	>100	0.58	4960	<10	30	<0.5	4	0.55	104.0	8	55	307	6.30
B003006		1.64	0.01	2.4	0.63	177	<10	20	<0.5	4	0.25	9.2	9	36	37	3.55
B003007		1.44	<0.01	2.5	0.63	165	<10	20	<0.5	3	0.25	7.9	9	19	35	3.51
B003008		3.08	0.01	1.2	0.82	170	<10	30	<0.5	<2	0.27	1.6	8	35	34	3.42
B003009		3.94	<0.01	0.6	1.02	89	<10	50	<0.5	<2	0.79	0.9	8	15	15	3.17
B003010		3.42	0.01	0.6	1.08	68	<10	50	<0.5	<2	1.07	1.1	7	30	12	3.08
B003011		2.92	0.01	0.5	0.86	129	<10	80	<0.5	2	0.84	2.2	7	13	18	3.26
B003012		3.56	0.02	1.1	0.84	102	<10	50	<0.5	3	0.50	5.5	8	30	33	3.43
B003013		3.38	0.01	0.5	0.96	57	<10	70	<0.5	2	1.34	2.4	6	16	12	3.24
B003014		3.26	<0.01	0.4	1.12	101	<10	60	<0.5	3	1.46	1.0	8	25	19	3.15
B003015		0.34	<0.01	<0.2	0.71	5	<10	330	<0.5	<2	1.61	<0.5	3	31	16	1.78
B003016		3.94	0.01	0.3	0.94	69	<10	50	<0.5	2	0.74	1.0	7	28	18	3.25
B003017		1.86	0.01	0.6	0.69	32	<10	130	<0.5	2	0.91	0.9	5	17	5	2.68
B003018		2.98	0.01	0.9	0.77	54	<10	50	0.5	2	0.76	4.4	6	37	19	3.36
B003019		3.54	0.01	0.7	0.67	39	<10	140	<0.5	<2	1.58	2.7	6	15	10	2.64
B003020		3.80	0.02	2.9	0.82	81	<10	40	0.5	2	1.56	18.3	5	34	32	2.77
B003021		3.04	<0.01	0.2	0.86	34	<10	80	0.5	2	3.35	0.6	4	27	10	2.30
B003022		3.18	<0.01	0.2	0.87	25	<10	170	0.5	<2	2.90	<0.5	5	26	12	2.77
B003023		3.58	<0.01	<0.2	0.93	21	<10	100	0.5	2	2.95	<0.5	5	37	12	2.72



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ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
B002984	<10	3	0.02	<10	<0.01	24	2	0.02	4	220	752	3.86	11	1	76	
B002985	<10	1	0.11	<10	0.01	36	3	0.04	7	530	361	3.96	12	1	55	
B002986	<10	<1	0.27	<10	0.04	220	2	0.05	3	730	451	3.42	3	1	49	
B002987	<10	1	0.25	<10	0.03	64	2	0.05	4	590	812	3.47	6	1	64	
B002988	<10	7	0.02	<10	0.01	37	1	0.02	6	180	149	>10.0	1385	<1	35	
B002989	<10	<1	0.02	<10	<0.01	28	1	0.03	6	190	27	4.41	16	1	40	
B002990	<10	7	0.01	<10	0.02	69	1	0.02	7	290	432	>10.0	425	<1	36	
B002991	<10	33	<0.01	<10	0.05	908	1	0.01	11	120	899	>10.0	1785	<1	52	
B002992	<10	<1	0.01	<10	<0.01	30	1	0.02	6	220	29	3.99	16	<1	43	
B002993	<10	1	0.01	<10	0.01	104	1	0.01	7	240	251	4.67	31	<1	69	
B002994	<10	<1	0.01	<10	<0.01	35	1	0.02	4	270	166	4.35	7	<1	83	
B002995	<10	1	0.21	<10	0.02	35	3	0.06	5	180	521	5.29	473	2	81	
B002996	<10	30	0.07	<10	0.04	208	2	0.02	5	310	2190	>10.0	6110	1	84	
B002997	<10	1	0.24	<10	0.02	53	3	0.07	5	740	872	3.81	17	1	116	
B002998	<10	1	0.29	<10	0.10	76	10	0.06	5	710	481	3.52	21	1	85	
B002999	<10	<1	0.33	<10	0.09	83	3	0.06	5	880	264	3.69	5	1	132	
B003000	<10	1	0.26	<10	0.08	78	3	0.06	5	830	227	3.53	6	1	110	
B003001	<10	<1	0.15	<10	0.02	51	4	0.04	5	580	87	3.85	10	1	554	
B003002	<10	1	0.01	<10	<0.01	29	2	0.02	6	330	188	9.88	132	<1	59	
B003003	<10	<1	0.01	<10	<0.01	25	2	0.02	5	280	41	4.11	6	1	119	
B003004	<10	4	0.01	<10	<0.01	29	1	0.02	3	390	78	4.06	182	<1	115	
B003005	<10	1	0.34	10	0.11	310	2	0.04	7	710	5140	7.03	1620	1	132	
B003006	<10	1	0.23	<10	0.03	48	1	0.06	5	760	700	3.87	9	1	247	
B003007	<10	1	0.22	<10	0.03	49	1	0.06	5	730	595	3.77	6	1	288	
B003008	<10	<1	0.28	<10	0.07	145	2	0.07	4	830	121	3.68	6	1	288	
B003009	<10	1	0.28	<10	0.41	3630	1	0.08	4	840	249	3.39	2	1	134	
B003010	<10	<1	0.28	<10	0.42	2660	1	0.10	5	840	140	3.38	<2	1	149	
B003011	<10	<1	0.26	<10	0.30	1345	1	0.10	5	830	158	3.59	3	1	106	
B003012	<10	<1	0.31	<10	0.13	965	2	0.09	5	880	440	3.77	7	1	307	
B003013	<10	1	0.30	10	0.54	2280	2	0.10	4	850	268	3.55	3	1	180	
B003014	<10	<1	0.24	10	0.54	6780	2	0.10	5	920	183	3.50	3	2	183	
B003015	<10	1	0.35	20	0.11	664	1	0.07	1	670	16	0.06	2	1	68	
B003016	<10	<1	0.22	10	0.27	2130	2	0.09	4	910	171	3.58	3	1	182	
B003017	<10	1	0.26	<10	0.20	3690	<1	0.05	6	830	102	2.94	<2	1	118	
B003018	<10	1	0.29	<10	0.14	2080	<1	0.05	6	790	227	3.70	3	1	167	
B003019	<10	1	0.26	<10	0.36	4620	<1	0.05	5	800	325	2.91	2	1	138	
B003020	<10	1	0.31	10	0.22	3780	<1	0.06	6	780	769	3.22	8	2	437	
B003021	<10	1	0.28	10	0.32	4620	<1	0.07	4	800	84	2.65	2	2	1445	
B003022	<10	1	0.28	10	0.41	3140	<1	0.07	5	840	71	3.11	2	2	522	
B003023	<10	<1	0.29	10	0.34	3280	<1	0.08	6	830	93	3.20	4	2	2120	



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Ti	Ti	U	V	W	Zn	Cu	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.05	5
B002984		<0.01	<10	<10	2	<10	5470				
B002985		<0.01	<10	<10	4	<10	543				
B002986		<0.01	<10	<10	6	<10	549				
B002987		<0.01	<10	<10	6	<10	1105				
B002988		<0.01	<10	<10	2	<10	1700				96
B002989		<0.01	<10	<10	3	<10	28				
B002990		<0.01	<10	<10	3	<10	522			1.17	
B002991		<0.01	<10	<10	3	<10	2330	2.21		2.23	142
B002992		<0.01	<10	<10	2	<10	25				
B002993		<0.01	<10	<10	2	<10	172				
B002994		<0.01	<10	<10	3	<10	249				
B002995		<0.01	<10	<10	8	<10	2430				90
B002996		<0.01	<10	<10	6	<10	9210	5.06		1.54	606
B002997		<0.01	<10	<10	5	<10	749				
B002998		<0.01	<10	<10	7	<10	743				
B002999		<0.01	<10	<10	8	<10	445				
B003000		<0.01	<10	<10	7	<10	405				
B003001		<0.01	<10	<10	5	<10	142				
B003002		<0.01	<10	<10	2	<10	562				
B003003		<0.01	<10	<10	2	<10	13				
B003004		<0.01	<10	<10	2	<10	153				
B003005		<0.01	<10	<10	6	10	>10000		1.28		158
B003006		<0.01	<10	<10	6	<10	1280				
B003007		<0.01	<10	<10	6	<10	1090				
B003008		<0.01	<10	<10	7	<10	251				
B003009		<0.01	<10	10	8	<10	116				
B003010		<0.01	<10	<10	9	<10	100				
B003011		<0.01	<10	<10	7	<10	157				
B003012		<0.01	<10	<10	6	<10	480				
B003013		<0.01	<10	<10	7	<10	202				
B003014		<0.01	<10	<10	14	<10	180				
B003015		0.02	<10	<10	18	<10	35				
B003016		<0.01	<10	<10	8	<10	151				
B003017		<0.01	<10	<10	8	<10	206				
B003018		<0.01	<10	<10	7	<10	786				
B003019		<0.01	<10	<10	9	<10	433				
B003020		<0.01	<10	<10	9	<10	1860				
B003021		<0.01	<10	<10	10	<10	113				
B003022		<0.01	<10	<10	11	<10	117				
B003023		<0.01	<10	<10	10	<10	133				



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 Phone: 604 984 0221 Fax: 604 984 0218

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Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B003024		3.50	0.01	0.6	0.81	32	<10	70	0.5	2	1.24	3.5	6	19	9	2.95
B003025		3.80	0.01	1.1	0.77	38	<10	90	<0.5	3	1.65	3.2	5	39	16	2.83
B003026		3.32	0.01	1.6	0.71	78	<10	140	0.5	2	0.89	4.1	6	30	28	2.82
B003027		2.90	0.01	0.7	0.76	72	<10	90	0.5	2	0.37	0.5	6	39	13	2.96
B003028		2.74	0.02	1.1	0.69	62	<10	30	<0.5	2	0.25	5.5	6	42	16	2.71
B003029		0.38	0.44	92.0	0.29	8560	<10	20	<0.5	2	0.15	8.7	7	33	>10000	8.83
B003030		1.26	0.11	17.9	0.28	968	<10	10	<0.5	9	0.17	7.4	6	66	2590	6.21
B003031		4.30	0.03	4.7	0.62	78	<10	40	<0.5	2	0.23	65.5	6	24	75	2.98



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Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 26-NOV-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04080031**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	NI	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
B003024		<10	1	0.32	10	0.30	4440	<1	0.06	6	810	209	3.22	<2	2	174
B003025		<10	<1	0.33	10	0.38	7140	<1	0.06	5	780	241	3.11	3	1	87
B003026		<10	1	0.29	<10	0.22	4400	<1	0.06	7	750	364	3.10	7	1	60
B003027		<10	1	0.32	<10	0.10	7000	<1	0.06	6	780	104	3.08	2	2	70
B003028		<10	1	0.30	<10	0.04	1645	<1	0.06	8	720	579	2.95	2	1	570
B003029		<10	13	0.06	<10	0.01	106	1	0.03	14	570	192	>10.0	1405	1	350
B003030		<10	<1	0.07	<10	0.01	43	1	0.03	11	650	265	6.69	238	1	118
B003031		<10	1	0.26	<10	0.03	65	1	0.05	7	790	3280	3.53	9	1	220



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Page: 4 - C  
Total # Pages: 4 (A - C)  
Finalized Date: 26-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Ti	Ti	U	V	W	Zn	Cu	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.05	5
B003024		<0.01	<10	<10	11	<10	535				
B003025		<0.01	<10	<10	10	<10	412				
B003026		<0.01	<10	<10	8	<10	560				
B003027		<0.01	<10	<10	8	<10	110				
B003028		<0.01	<10	<10	5	<10	766				
B003029		<0.01	<10	<10	4	<10	1170	1.98			
B003030		<0.01	<10	<10	2	<10	662				
B003031		<0.01	<10	<10	5	<10	7080				





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Page: 1  
Finalized Date: 27-NOV-2004  
Account: EIA

## CERTIFICATE VA04080492

Project: Thorn  
P.O. No.: FAV03-01  
This report is for 141 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 15-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

HENRY AWMACK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04080492**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
3032		4.22	0.02	4.6	0.45	90	<10	30	0.5	3	0.22	14.0	7	34	49	3.35
3033		0.10	0.90	>100	0.59	4810	<10	30	<0.5	7	0.56	98.9	7	55	301	6.14
3034		5.34	0.01	1.1	0.47	61	<10	90	0.5	3	0.28	1.2	6	36	13	2.66
3035		2.70	0.06	7.7	0.48	76	<10	30	0.5	2	0.24	40.5	6	33	61	2.93
3036		2.78	0.11	6.6	0.28	67	<10	40	<0.5	4	0.18	17.9	5	47	96	4.21
3037		0.88	1.25	33.2	0.13	140	<10	10	<0.5	51	0.08	<0.5	3	62	760	12.60
3038		4.06	0.10	3.8	0.14	68	<10	10	<0.5	10	0.14	<0.5	6	49	241	6.21
3039		2.46	0.03	2.2	0.13	70	<10	60	<0.5	7	0.10	<0.5	6	46	35	3.60
3040		1.78	0.12	4.2	0.17	74	<10	30	<0.5	11	0.07	0.5	5	50	122	4.15
3041		0.62	0.06	10.6	0.37	48	<10	40	<0.5	14	0.14	60.5	7	36	39	2.82
3042		0.56	0.05	8.2	0.38	49	<10	40	<0.5	12	0.13	49.6	6	37	43	2.95
3043		4.52	0.09	6.0	0.21	67	<10	30	<0.5	8	0.07	15.6	6	50	96	3.11
3044		2.76	0.22	11.0	0.15	48	<10	30	<0.5	14	0.05	28.8	6	40	128	3.93
3045		1.12	0.39	12.0	0.16	191	<10	30	<0.5	13	0.05	20.1	5	50	128	3.67
3046		3.56	0.10	4.6	0.23	93	<10	70	<0.5	3	0.08	17.8	5	40	51	2.92
3047		4.36	0.26	6.9	0.16	125	<10	50	<0.5	12	0.06	2.9	5	49	126	3.43
3048		0.40	10.10	>100	0.20	496	<10	20	<0.5	7	0.08	>500	4	57	1535	4.57
3049		1.66	4.14	39.4	0.18	483	<10	40	<0.5	6	0.07	63.9	6	54	1645	5.80
3050		4.06	0.11	1.9	0.14	92	<10	30	<0.5	4	0.09	0.9	5	49	69	3.66
3051		3.92	0.07	2.0	0.11	81	<10	10	<0.5	4	0.09	<0.5	7	48	118	3.71
3052		0.40	2.10	30.5	0.07	988	<10	10	<0.5	43	0.05	<0.5	26	63	4340	23.3
3053		4.14	0.08	2.3	0.10	89	<10	40	<0.5	4	0.10	0.9	6	55	98	4.34
3054		2.66	0.11	9.5	0.11	146	<10	20	<0.5	9	0.06	17.2	6	63	302	3.78
3055		0.46	<0.01	0.2	0.60	<2	<10	230	<0.5	<2	1.62	<0.5	3	49	18	1.46
3056		1.04	0.03	5.1	0.12	62	<10	10	<0.5	5	0.05	43.4	6	40	69	3.42
3057		3.54	0.02	1.2	0.06	62	<10	40	<0.5	3	0.11	<0.5	5	21	43	3.56
3058		0.70	0.16	4.1	0.04	155	<10	10	<0.5	9	0.09	<0.5	6	25	190	8.18
3059		3.96	0.31	6.0	0.06	89	<10	10	<0.5	6	0.14	<0.5	5	19	311	4.74
3060		0.62	1.13	73.8	0.05	1210	<10	10	<0.5	129	0.10	0.9	5	21	5410	10.65
3061		0.20	0.11	3.3	0.07	175	<10	10	<0.5	3	0.21	<0.5	6	30	404	4.12
3062		0.22	0.08	2.8	0.06	88	<10	10	<0.5	2	0.21	<0.5	6	21	170	3.93
3063		0.74	2.13	92.0	0.03	5080	<10	10	<0.5	58	0.10	2.6	4	10	>10000	19.9
3064		0.54	0.53	11.4	0.05	192	<10	10	<0.5	16	0.12	<0.5	12	16	937	20.2
3065		1.92	0.12	4.3	0.07	91	<10	10	<0.5	5	0.15	<0.5	5	40	243	9.07
3066		0.60	0.48	16.8	0.04	132	<10	10	<0.5	33	0.13	<0.5	6	10	2120	24.2
3067		1.02	0.17	10.6	0.06	135	<10	20	<0.5	10	0.17	<0.5	7	21	222	7.15
3068		1.92	0.04	1.3	0.09	97	<10	20	<0.5	2	0.19	<0.5	8	12	27	4.23
3069		1.98	0.03	5.9	0.06	139	<10	20	<0.5	10	0.18	0.8	6	13	138	3.69
3070		1.94	0.06	3.5	0.12	102	<10	20	<0.5	3	0.18	3.7	6	29	77	3.96
3071		3.90	0.01	2.8	0.28	130	<10	70	<0.5	<2	0.34	9.8	6	12	25	2.96

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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Page: 2 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
LOR	10	1	0.01	10	0.01	5	1	0.01	0.01	1	10	2	0.01	2	1	
3032		<10	<1	0.19	<10	0.03	53	1	0.05	7	650	1050	3.83	9	1	124
3033		<10	1	0.35	10	0.11	297	1	0.04	7	690	5000	7.15	1530	1	130
3034		<10	<1	0.20	<10	0.11	>10000	<1	0.05	6	710	130	2.88	6	1	57
3035		<10	1	0.20	<10	0.03	406	1	0.06	6	720	2340	3.53	12	1	140
3036		<10	<1	0.10	<10	0.01	77	<1	0.04	7	560	1235	4.73	14	1	74
3037		<10	<1	0.04	<10	<0.01	21	1	0.02	5	260	374	>10.0	107	<1	46
3038		<10	<1	0.02	<10	<0.01	37	1	0.02	6	510	83	6.77	16	<1	68
3039		<10	<1	0.02	<10	<0.01	27	<1	0.02	7	350	43	3.97	5	<1	52
3040		<10	<1	0.03	<10	<0.01	20	1	0.02	6	170	113	4.52	14	<1	49
3041		<10	2	0.17	<10	0.02	40	<1	0.04	7	330	4100	3.53	6	1	87
3042		<10	1	0.18	<10	0.01	36	1	0.04	6	280	2940	3.59	5	1	85
3043		<10	1	0.07	<10	0.01	26	<1	0.03	8	150	544	3.47	14	1	55
3044		<10	1	0.04	<10	0.01	19	1	0.02	7	80	1280	4.46	16	1	42
3045		<10	<1	0.05	<10	0.01	28	<1	0.02	6	80	959	4.11	22	1	43
3046		<10	<1	0.08	<10	0.01	26	1	0.03	7	150	683	3.30	10	1	53
3047		<10	<1	0.04	<10	<0.01	23	<1	0.02	7	150	102	3.76	24	<1	44
3048		10	5	0.08	<10	0.01	82	2	0.02	6	170	>10000	8.02	397	<1	43
3049		<10	<1	0.07	<10	<0.01	27	<1	0.02	8	170	3130	6.73	329	<1	39
3050		<10	<1	0.03	<10	<0.01	29	2	0.01	7	290	94	3.99	12	<1	50
3051		<10	<1	0.01	<10	<0.01	33	1	0.01	9	350	90	4.03	10	<1	67
3052		<10	1	0.01	<10	<0.01	34	<1	0.01	24	180	292	>10.0	213	<1	53
3053		<10	<1	0.01	<10	<0.01	24	1	0.01	6	410	56	4.71	11	<1	45
3054		<10	<1	0.01	<10	<0.01	20	1	0.01	6	180	159	4.17	63	<1	70
3055		<10	<1	0.28	30	0.11	571	1	0.04	3	700	14	0.03	<2	1	57
3056		<10	1	0.02	<10	<0.01	20	1	0.02	6	120	539	3.96	17	1	50
3057		<10	<1	0.01	<10	<0.01	19	<1	0.01	4	450	71	3.90	9	<1	72
3058		<10	1	<0.01	<10	<0.01	14	<1	0.01	7	370	72	8.87	27	<1	158
3059		<10	1	0.01	<10	<0.01	21	<1	0.01	6	580	95	5.21	51	<1	148
3060		<10	12	0.01	<10	<0.01	88	<1	0.01	8	410	158	>10.0	1050	<1	194
3061		<10	<1	0.01	<10	<0.01	22	<1	0.01	5	890	73	4.52	28	<1	139
3062		<10	<1	0.01	<10	<0.01	19	<1	0.01	5	880	68	4.30	20	<1	164
3063		<10	18	0.01	<10	<0.01	268	<1	0.01	9	410	224	>10.0	1705	<1	91
3064		<10	<1	0.01	<10	<0.01	17	<1	0.01	19	520	91	>10.0	28	<1	87
3065		<10	<1	0.01	<10	<0.01	14	<1	0.01	8	640	55	9.83	10	<1	122
3066		<10	3	0.01	<10	<0.01	11	<1	0.01	8	580	245	>10.0	49	<1	94
3067		<10	<1	0.01	<10	<0.01	15	<1	<0.01	5	720	76	7.97	25	<1	59
3068		<10	<1	0.01	<10	<0.01	15	1	0.01	8	760	31	4.77	5	<1	229
3069		<10	<1	0.01	<10	<0.01	14	<1	<0.01	5	750	51	4.18	40	<1	466
3070		<10	<1	0.03	<10	<0.01	21	<1	0.01	6	680	73	4.48	17	<1	468
3071		<10	<1	0.11	<10	0.02	345	<1	0.04	6	760	832	3.42	5	1	184

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	% 0.01	ppm 0.05	ppm 5
3032		<0.01	<10	<10	3	<10	1835					
3033		<0.01	<10	<10	6	10	>10000			1.33		154
3034		<0.01	<10	10	5	<10	188					
3035		<0.01	<10	<10	3	<10	4870					
3036		<0.01	<10	<10	2	<10	1950					
3037		<0.01	<10	<10	1	<10	60				1.24	
3038		<0.01	<10	<10	1	<10	25					
3039		<0.01	<10	<10	2	<10	19					
3040		<0.01	<10	<10	2	<10	41					
3041		<0.01	<10	<10	3	<10	7910					
3042		<0.01	<10	<10	3	<10	6110					
3043		<0.01	<10	<10	2	<10	1450					
3044		<0.01	<10	<10	2	<10	2820					
3045		<0.01	<10	<10	2	<10	1785					
3046		<0.01	<10	<10	2	<10	1990					
3047		<0.01	<10	<10	2	<10	260					
3048		<0.01	<10	<10	2	10	>10000		2.14	6.06	9.75	113
3049		<0.01	<10	<10	1	<10	6210				4.17	
3050		<0.01	<10	<10	1	<10	74					
3051		<0.01	<10	<10	1	<10	18					
3052		<0.01	<10	<10	1	10	45				2.11	
3053		<0.01	<10	<10	1	<10	55					
3054		<0.01	<10	<10	1	<10	1255					
3055		0.02	<10	<10	16	<10	43					
3056		<0.01	<10	<10	1	<10	4630					
3057		<0.01	<10	<10	1	<10	14					
3058		<0.01	<10	<10	1	<10	17					
3059		<0.01	<10	<10	2	<10	11					
3060		<0.01	<10	<10	7	<10	110				0.90	
3061		<0.01	<10	<10	2	<10	8					
3062		<0.01	<10	<10	2	<10	8					
3063		<0.01	<10	<10	10	10	247	2.31			5.42	
3064		<0.01	<10	<10	1	<10	8					
3065		<0.01	<10	<10	1	<10	7					
3066		<0.01	<10	<10	1	<10	14					
3067		<0.01	<10	<10	1	<10	10					
3068		<0.01	<10	<10	1	<10	8					
3069		<0.01	<10	<10	1	<10	50					
3070		<0.01	<10	<10	1	<10	414					
3071		<0.01	<10	<10	2	<10	1285					

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04080492**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
3072		2.04	0.55	34.1	0.31	244	<10	10	<0.5	33	0.59	7.9	6	21	2310	9.89
3073		1.24	<0.01	0.7	3.83	75	<10	520	0.6	<2	3.81	<0.5	26	75	43	6.72
3074		1.84	0.22	15.8	0.19	358	<10	10	<0.5	8	0.21	3.9	6	32	1180	5.81
3075		0.54	2.90	>100	0.09	>10000	<10	<10	<0.5	47	0.11	7.3	2	<1	>10000	19.4
3076		0.50	0.74	34.8	0.06	870	<10	10	<0.5	27	0.10	0.8	2	27	2890	11.75
3077		0.42	<0.01	0.7	0.40	23	<10	110	<0.5	<2	1.54	<0.5	3	11	76	1.18
3078		3.28	0.04	2.5	0.09	102	<10	30	<0.5	3	0.10	<0.5	6	29	114	3.97
3079		0.68	0.45	16.6	0.10	506	<10	10	<0.5	24	0.07	0.5	7	6	1450	21.5
3080		2.20	0.17	5.2	0.07	252	<10	10	<0.5	6	0.09	<0.5	6	19	533	8.02
3081		2.02	0.49	36.3	0.07	1225	<10	<10	<0.5	67	0.05	1.4	7	14	3720	16.8
3082		1.52	0.05	10.8	0.24	313	<10	10	<0.5	13	0.08	<0.5	7	21	680	4.73
3083		1.48	0.06	13.8	0.25	385	<10	20	<0.5	12	0.09	<0.5	6	23	877	4.74
3084		3.04	0.05	4.6	0.25	166	<10	10	<0.5	7	0.08	<0.5	6	21	256	5.01
3085		2.76	0.02	3.6	0.29	190	<10	20	<0.5	5	0.09	0.9	7	24	290	3.65
3086		0.60	0.75	16.0	0.32	266	<10	<10	<0.5	43	0.05	1.5	4	15	1345	25.1
3087		1.22	0.06	2.0	0.32	134	<10	40	<0.5	3	0.09	<0.5	6	23	134	4.31
3088		0.70	0.48	18.4	0.55	833	<10	10	<0.5	31	0.08	3.1	7	17	2560	26.0
3089		0.10	1.60	>100	0.40	4640	<10	20	<0.5	8	0.83	>500	7	54	833	6.81
3090		2.08	0.06	4.9	0.91	137	<10	30	0.6	5	0.25	14.8	6	13	128	2.86
3091		3.20	0.05	4.2	0.41	138	<10	20	<0.5	8	0.12	<0.5	7	20	132	4.08
3092		1.02	0.08	8.3	0.82	325	<10	70	0.6	4	0.23	24.1	8	12	579	3.98
3093		3.18	0.01	2.7	0.69	255	<10	90	0.5	<2	0.27	9.9	8	13	52	3.07
3094		1.26	0.08	10.8	0.37	260	<10	20	<0.5	10	0.13	31.5	8	14	148	4.56
3095		1.38	0.09	10.4	0.41	255	<10	20	<0.5	7	0.14	33.9	7	14	147	4.35
3096		2.76	0.04	1.4	0.33	105	<10	20	<0.5	6	0.10	<0.5	10	16	38	7.86
3097		2.26	0.04	2.3	0.38	146	<10	50	<0.5	5	0.08	<0.5	10	13	31	5.21
3098		3.86	0.01	2.4	1.06	130	<10	100	0.6	<2	0.29	6.0	6	13	13	2.75
3099		3.54	0.01	5.2	0.87	103	<10	90	0.7	<2	0.26	52.8	6	13	73	2.81
3100		3.86	0.02	6.0	0.83	102	<10	90	0.7	<2	0.23	24.3	7	13	45	2.65
3101		1.64	0.12	17.8	0.71	152	<10	60	0.5	8	0.21	23.4	6	13	217	3.56
3102		1.78	0.09	15.1	0.57	156	<10	100	0.5	7	0.22	38.9	7	10	197	3.82
3103		4.08	0.02	2.8	0.83	152	<10	140	0.7	<2	0.26	13.3	6	11	20	2.82
3104		3.90	0.07	24.4	0.69	103	<10	100	0.6	39	0.21	27.0	6	11	128	3.60
3105		3.66	0.05	11.3	0.51	104	<10	70	<0.5	2	0.18	52.6	6	10	64	3.26
3106		1.76	0.04	3.0	0.37	154	<10	60	<0.5	4	0.12	0.7	6	13	325	5.24
3107		1.00	0.05	12.7	0.28	156	<10	60	<0.5	4	0.14	67.7	7	36	154	3.41
3108		2.02	0.21	6.4	0.30	147	<10	40	<0.5	8	0.14	23.3	6	60	347	5.20
3109		0.64	0.53	23.6	0.20	843	<10	20	<0.5	17	0.14	1.0	7	107	2960	11.40
3110		1.60	0.14	3.0	0.19	103	<10	50	<0.5	6	0.17	<0.5	7	93	195	6.01
3111		1.86	0.22	11.4	0.20	172	<10	30	<0.5	10	0.18	<0.5	8	115	336	6.90

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

Project: Thorn

**CERTIFICATE OF ANALYSIS VA04080492**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
3072	<10	<1	0.10	<10	0.03	724	1	0.05	7	650	481	>10.0	100	<1	174	
3073	20	1	0.02	30	3.54	5270	<1	0.05	48	3660	26	0.34	2	13	294	
3074	<10	<1	0.06	<10	0.02	79	<1	0.02	6	650	194	6.54	74	<1	238	
3075	<10	13	0.02	<10	0.01	61	1	0.01	8	340	485	>10.0	2350	1	70	
3076	<10	1	0.01	<10	<0.01	16	<1	0.01	4	380	153	>10.0	213	<1	74	
3077	<10	<1	0.15	20	0.09	475	<1	0.02	2	640	13	0.04	6	1	51	
3078	<10	<1	0.01	<10	<0.01	20	<1	0.01	7	370	39	4.48	14	<1	117	
3079	<10	1	0.02	<10	<0.01	13	1	0.02	7	130	89	>10.0	58	<1	38	
3080	<10	<1	0.01	<10	<0.01	15	<1	0.01	6	320	35	8.99	22	<1	48	
3081	<10	2	0.01	<10	<0.01	35	1	0.01	7	170	95	>10.0	210	<1	64	
3082	<10	1	0.01	<10	<0.01	24	<1	0.01	6	310	65	5.18	46	<1	226	
3083	<10	1	0.01	<10	<0.01	26	<1	0.01	5	350	75	5.25	61	<1	236	
3084	<10	<1	0.01	<10	<0.01	22	<1	0.01	6	300	49	5.49	15	<1	144	
3085	<10	<1	0.01	<10	<0.01	24	<1	0.02	9	330	57	3.98	26	<1	122	
3086	<10	<1	0.05	<10	0.01	18	1	0.03	6	110	172	>10.0	52	<1	73	
3087	<10	<1	0.03	<10	0.01	22	<1	0.03	5	250	70	4.70	12	<1	50	
3088	<10	<1	0.12	<10	0.01	24	1	0.06	8	230	120	>10.0	192	<1	48	
3089	<10	2	0.26	10	0.25	371	1	0.02	5	580	>10000	9.23	2390	1	110	
3090	<10	<1	0.23	<10	0.14	1810	<1	0.06	4	660	568	3.19	14	1	162	
3091	<10	<1	0.04	<10	0.01	36	1	0.02	3	420	217	4.46	28	1	79	
3092	<10	<1	0.26	<10	0.02	60	2	0.06	7	720	1535	4.63	84	2	38	
3093	<10	<1	0.28	<10	0.07	8850	2	0.06	5	730	713	3.06	7	3	42	
3094	<10	<1	0.08	<10	0.01	67	2	0.03	4	460	1065	5.26	40	1	101	
3095	<10	<1	0.10	<10	0.01	50	2	0.03	4	490	1600	5.01	38	1	120	
3096	<10	<1	0.02	<10	<0.01	24	3	0.02	7	370	52	8.69	2	1	49	
3097	<10	<1	0.06	<10	0.01	36	3	0.03	6	240	62	5.75	7	1	41	
3098	<10	<1	0.35	10	0.22	6250	<1	0.05	4	780	467	2.48	<2	2	30	
3099	<10	<1	0.36	10	0.10	4020	<1	0.05	4	780	2740	3.14	2	2	34	
3100	<10	<1	0.37	10	0.03	69	<1	0.06	6	770	2080	3.12	<2	1	29	
3101	<10	<1	0.22	<10	0.02	120	<1	0.05	4	720	1275	4.12	2	1	37	
3102	<10	<1	0.17	<10	0.02	120	<1	0.05	3	750	1035	3.94	2	1	35	
3103	<10	<1	0.35	10	0.07	6570	<1	0.06	3	760	627	2.52	<2	2	30	
3104	<10	<1	0.27	<10	0.02	63	<1	0.05	4	760	1815	3.69	<2	1	32	
3105	<10	<1	0.19	<10	0.02	40	<1	0.04	3	670	2760	3.48	2	1	48	
3106	<10	<1	0.03	<10	<0.01	20	1	0.02	2	440	102	5.13	64	<1	40	
3107	<10	1	0.10	<10	0.01	23	1	0.03	6	470	5330	3.80	33	1	100	
3108	<10	<1	0.06	<10	0.01	24	2	0.02	4	510	1810	5.28	48	1	103	
3109	<10	<1	0.03	<10	0.01	30	1	0.02	11	550	178	>10.0	488	<1	118	
3110	<10	<1	0.03	<10	0.01	39	3	0.03	4	690	131	5.91	18	<1	260	
3111	<10	<1	0.02	<10	0.01	32	1	0.02	7	720	169	6.77	50	<1	356	

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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 North Vancouver BC V7J 2C1 Canada  
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To: EQUITY ENGINEERING LTD.  
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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
3072		<0.01	<10	<10	3	<10	772					
3073		0.03	<10	<10	193	<10	237					
3074		<0.01	<10	<10	3	<10	339					
3075		<0.01	<10	<10	22	<10	410	3.80			3.05	269
3076		<0.01	<10	<10	4	<10	48					
3077		0.01	<10	<10	11	<10	32					
3078		<0.01	<10	<10	2	<10	12					
3079		<0.01	<10	<10	3	<10	14					
3080		<0.01	<10	<10	2	<10	15					
3081		<0.01	<10	<10	3	<10	38					
3082		<0.01	<10	<10	3	<10	22					
3083		<0.01	<10	<10	3	<10	29					
3084		<0.01	<10	<10	3	<10	26					
3085		<0.01	<10	<10	3	<10	63					
3086		<0.01	<10	<10	4	<10	77					
3087		<0.01	<10	<10	3	<10	26					
3088		<0.01	<10	<10	6	<10	275					
3089		<0.01	<10	<10	5	<10	>10000		1.98	3.60	1.59	287
3090		<0.01	<10	<10	8	<10	1560					
3091		<0.01	<10	<10	4	<10	46					
3092		<0.01	<10	<10	8	<10	2900					
3093		<0.01	<10	<10	15	<10	1190					
3094		<0.01	<10	<10	4	<10	3380					
3095		<0.01	<10	<10	5	<10	3720					
3096		<0.01	<10	<10	4	<10	21					
3097		<0.01	<10	<10	5	<10	34					
3098		<0.01	<10	<10	14	<10	722					
3099		<0.01	<10	<10	11	<10	6470					
3100		<0.01	<10	<10	6	<10	3290					
3101		<0.01	<10	<10	6	<10	2550					
3102		<0.01	<10	<10	5	<10	4050					
3103		<0.01	<10	<10	12	<10	1605					
3104		<0.01	<10	<10	6	<10	2880					
3105		<0.01	<10	<10	4	<10	5810					
3106		<0.01	<10	<10	4	<10	83					
3107		<0.01	<10	<10	3	<10	7760					
3108		<0.01	<10	<10	3	<10	2650					
3109		<0.01	<10	<10	3	<10	168					
3110		<0.01	<10	<10	2	<10	45					
3111		<0.01	<10	<10	3	<10	25					

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 4 - A  
Total # Pages: 5 (A - C)  
Finalized Date: 27-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
3112		1.32	0.12	3.0	0.18	174	<10	40	<0.5	6	0.18	<0.5	7	99	112	5.50
3113		1.12	1.36	16.2	0.13	638	<10	60	<0.5	22	0.12	<0.5	6	114	2400	14.8
3114		1.06	0.59	8.3	0.17	400	<10	20	<0.5	14	0.17	<0.5	7	102	1375	10.75
3115		1.72	0.41	8.4	0.17	370	<10	30	<0.5	10	0.14	<0.5	8	128	1245	10.15
3116		0.42	<0.01	0.2	0.72	8	<10	170	<0.5	<2	1.34	<0.5	4	55	23	1.36
3117		0.90	7.16	>100	0.07	>10000	<10	20	<0.5	87	0.12	13.4	12	<1	>10000	22.3
3118		0.98	0.30	7.2	0.16	357	<10	30	<0.5	6	0.13	<0.5	9	134	1270	9.93
3119		1.00	2.97	>100	0.09	>10000	<10	10	<0.5	118	0.06	6.3	9	<1	>10000	22.3
3120		1.10	0.21	5.9	0.13	258	<10	40	<0.5	5	0.08	1.0	8	60	706	7.53
3121		0.70	2.11	83.9	0.11	2400	<10	30	<0.5	62	0.07	10.6	6	47	>10000	25.6
3122		1.50	0.13	5.2	0.14	418	<10	40	<0.5	4	0.15	3.3	7	79	1105	5.83
3123		0.10	1.50	>100	0.40	4590	<10	30	<0.5	8	0.81	>500	6	52	858	6.84
3124		1.60	1.43	5.5	0.09	244	<10	40	<0.5	7	0.08	0.9	7	99	1015	9.97
3125		1.16	1.32	29.7	0.09	1920	<10	20	<0.5	7	0.06	<0.5	8	69	7350	13.75
3126		1.46	0.47	3.1	0.10	78	<10	20	<0.5	5	0.05	<0.5	6	86	313	7.88
3127		0.60	0.34	8.0	0.08	436	<10	20	<0.5	15	0.05	<0.5	8	70	1860	17.7
3128		1.84	0.04	1.2	0.11	74	<10	50	<0.5	3	0.04	<0.5	7	80	54	5.34
3129		0.42	0.35	50.1	0.12	7970	<10	20	<0.5	24	0.05	5.6	8	50	>10000	8.28
3130		2.02	0.06	1.4	0.10	75	<10	20	<0.5	3	0.04	<0.5	5	83	141	9.58
3131		1.26	0.16	3.7	0.09	392	<10	10	<0.5	6	0.03	<0.5	4	87	1350	13.7
3132		0.36	1.48	49.4	0.05	5510	<10	20	<0.5	36	0.04	<0.5	2	6	>10000	22.9
3133		0.20	0.19	6.6	0.11	813	<10	20	<0.5	5	0.02	<0.5	3	112	2440	9.41
3134		0.18	0.16	4.2	0.07	482	<10	20	<0.5	5	0.02	<0.5	3	77	1455	8.07
3135		0.52	0.88	36.9	0.08	3640	<10	80	<0.5	55	0.02	<0.5	3	50	>10000	23.6
3136		1.14	0.05	3.7	0.10	255	<10	20	<0.5	3	0.03	<0.5	2	84	795	6.84
3137		0.82	0.01	0.5	0.09	33	<10	80	<0.5	2	0.02	<0.5	2	76	93	2.75
3138		1.26	0.05	4.4	0.10	264	<10	10	<0.5	3	0.03	<0.5	2	89	987	8.26
3139		2.06	0.04	1.6	0.10	105	<10	10	<0.5	4	0.04	<0.5	2	86	335	6.41
3140		0.34	0.57	9.9	0.06	696	<10	20	<0.5	54	0.08	<0.5	1	59	3570	22.9
3141		1.18	0.02	0.3	0.10	20	<10	20	<0.5	<2	0.03	<0.5	2	90	42	3.02
3142		0.56	0.35	4.8	0.07	635	<10	10	<0.5	16	0.03	<0.5	2	106	2410	16.1
3143		1.12	0.04	2.8	0.10	321	<10	20	<0.5	2	0.02	<0.5	4	86	885	3.38
3144		1.28	0.05	2.2	0.08	108	<10	10	<0.5	5	0.02	<0.5	7	74	148	6.67
3145		1.66	0.09	3.8	0.13	257	<10	10	<0.5	6	0.03	<0.5	9	58	533	8.30
3146		1.88	0.04	1.8	0.10	307	<10	30	<0.5	3	0.04	<0.5	7	83	663	6.04
3147		3.02	0.03	0.6	0.16	69	<10	20	<0.5	3	0.03	<0.5	7	50	96	6.26
3148		2.44	0.03	1.2	0.16	57	<10	20	<0.5	5	0.04	<0.5	7	52	76	4.87
3149		2.24	0.01	3.0	0.24	90	<10	20	<0.5	6	0.09	2.7	8	46	119	3.54
3150		3.42	0.03	7.5	0.24	301	<10	10	<0.5	6	0.13	4.4	8	46	644	3.73
3151		2.94	<0.01	2.5	0.53	67	<10	30	0.5	3	0.25	5.6	7	48	53	3.35

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.





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ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 4 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
3112		<10	<1	0.01	<10	0.01	32	3	0.02	4	720	138	5.44	12	<1	809
3113		<10	1	0.01	<10	0.01	56	<1	0.02	6	460	112	>10.0	125	<1	614
3114		<10	<1	0.02	<10	0.01	53	2	0.02	5	690	96	>10.0	63	<1	460
3115		<10	<1	0.02	<10	0.01	64	1	0.02	9	520	132	9.81	75	<1	518
3116		<10	1	0.34	20	0.10	560	1	0.06	2	660	12	0.08	<2	1	55
3117		<10	3	0.02	<10	0.01	2410	2	0.01	30	120	634	>10.0	6160	1	710
3118		<10	<1	0.02	<10	0.01	50	1	0.02	9	500	178	9.62	93	<1	916
3119		<10	2	0.02	<10	<0.01	406	2	0.01	18	160	198	>10.0	3870	1	153
3120		<10	<1	0.02	<10	<0.01	28	2	0.02	5	250	91	7.39	70	<1	64
3121		<10	1	0.02	<10	0.01	139	1	0.01	10	160	699	>10.0	855	<1	502
3122		<10	<1	0.02	<10	0.01	55	3	0.02	5	520	135	5.82	135	<1	804
3123		<10	2	0.25	10	0.25	370	1	0.02	4	580	>10000	8.04	2440	1	107
3124		<10	<1	0.01	<10	<0.01	38	1	0.01	8	290	83	9.61	96	<1	514
3125		<10	1	0.01	<10	<0.01	92	3	0.01	8	230	45	>10.0	1035	<1	140
3126		<10	<1	0.01	<10	<0.01	26	<1	0.01	5	190	21	7.65	31	<1	82
3127		<10	<1	0.01	<10	<0.01	25	2	0.01	4	230	39	>10.0	94	<1	117
3128		<10	<1	0.01	<10	<0.01	20	<1	0.01	7	110	27	5.20	5	<1	61
3129		<10	1	0.01	<10	<0.01	133	2	0.02	8	150	374	9.04	1780	1	52
3130		<10	<1	0.01	<10	<0.01	13	1	0.01	5	130	13	9.17	13	<1	43
3131		<10	<1	0.01	<10	<0.01	10	2	0.01	4	110	10	>10.0	45	<1	48
3132		<10	<1	0.01	<10	<0.01	28	<1	0.01	1	170	45	>10.0	488	<1	67
3133		<10	<1	0.01	<10	<0.01	16	2	0.01	3	60	7	9.06	131	<1	34
3134		<10	<1	0.01	<10	<0.01	13	<1	0.01	4	50	7	7.90	82	<1	27
3135		<10	1	0.01	<10	<0.01	41	2	0.01	6	90	41	>10.0	511	<1	99
3136		<10	<1	0.01	<10	<0.01	15	1	0.01	2	100	9	6.72	58	<1	91
3137		<10	<1	0.01	<10	<0.01	14	2	0.01	3	40	6	2.65	9	<1	47
3138		<10	<1	0.01	<10	<0.01	16	1	0.01	6	110	16	9.31	118	<1	134
3139		<10	<1	<0.01	<10	<0.01	13	2	0.01	4	140	12	7.17	21	<1	70
3140		<10	1	<0.01	<10	<0.01	26	1	0.01	3	120	72	>10.0	150	<1	86
3141		<10	<1	<0.01	<10	<0.01	13	2	0.01	4	80	7	3.33	<2	<1	55
3142		<10	<1	<0.01	<10	<0.01	14	1	0.01	6	100	23	>10.0	57	<1	83
3143		<10	<1	<0.01	<10	<0.01	18	2	0.01	4	60	8	3.81	52	<1	48
3144		<10	<1	<0.01	<10	<0.01	11	1	0.01	8	60	24	7.45	4	<1	26
3145		<10	<1	0.01	<10	<0.01	19	4	0.02	10	80	38	9.61	29	<1	33
3146		<10	<1	0.01	<10	<0.01	18	2	0.01	8	110	23	6.81	28	<1	35
3147		<10	<1	0.01	<10	<0.01	13	2	0.02	7	50	16	7.06	5	<1	30
3148		<10	<1	0.01	<10	<0.01	15	<1	0.02	4	100	25	5.49	3	<1	46
3149		<10	<1	0.04	<10	0.01	30	1	0.02	5	280	228	4.04	20	1	111
3150		<10	<1	0.06	<10	0.01	95	1	0.03	6	410	200	4.32	93	1	126
3151		<10	<1	0.20	<10	0.04	293	1	0.08	4	770	522	3.90	8	1	92

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 4 - C  
Total # Pages: 5 (A - C)  
Finalized Date: 27-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		TI % 0.01	TI ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.01	Pb % 0.01	Zn % 0.01	Au ppm 0.05	Ag ppm 5
3112		<0.01	<10	<10	2	<10	18					
3113		<0.01	<10	<10	3	<10	30				1.21	
3114		<0.01	<10	<10	4	<10	14					
3115		<0.01	<10	<10	3	<10	40					
3116		0.01	<10	<10	13	<10	42					
3117		<0.01	<10	<10	9	10	2080	8.87			8.61	475
3118		<0.01	<10	<10	4	<10	82					
3119		<0.01	<10	<10	10	10	545	4.20			3.46	318
3120		<0.01	<10	<10	4	<10	70					
3121		<0.01	<10	<10	9	10	898	1.08			2.41	
3122		<0.01	<10	<10	2	<10	235					
3123		<0.01	<10	<10	5	10	>10000		NSS	NSS	1.58	NSS
3124		<0.01	<10	<10	3	<10	61				0.12	
3125		<0.01	<10	<10	5	<10	79				0.26	
3126		<0.01	<10	<10	2	<10	19					
3127		<0.01	<10	<10	5	<10	31					
3128		<0.01	<10	<10	2	<10	12					
3129		<0.01	<10	<10	8	<10	1655	2.22				
3130		<0.01	<10	<10	2	<10	11					
3131		<0.01	<10	<10	2	<10	8					
3132		<0.01	<10	<10	7	<10	26	1.93			2.06	
3133		<0.01	<10	<10	3	<10	15					
3134		<0.01	<10	<10	3	<10	10					
3135		<0.01	<10	<10	6	<10	52	1.20				
3136		<0.01	<10	<10	2	<10	12					
3137		<0.01	<10	<10	1	<10	10					
3138		<0.01	<10	<10	3	<10	14					
3139		<0.01	<10	<10	1	<10	23					
3140		<0.01	<10	<10	4	<10	141					
3141		<0.01	<10	<10	1	<10	6					
3142		<0.01	<10	10	3	<10	13					
3143		<0.01	<10	<10	2	<10	40					
3144		<0.01	<10	<10	1	<10	4					
3145		<0.01	<10	<10	3	<10	10					
3146		<0.01	<10	<10	2	<10	6					
3147		<0.01	<10	<10	2	<10	4					
3148		<0.01	<10	<10	3	<10	3					
3149		<0.01	<10	<10	3	<10	268					
3150		<0.01	<10	<10	3	<10	441					
3151		<0.01	<10	<10	5	<10	666					

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 5 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
3152		3.22	<0.01	1.3	0.50	57	<10	90	<0.5	2	0.24	2.4	8	31	19	2.91
3153		3.44	0.01	1.8	0.53	58	<10	60	0.5	3	0.29	5.5	8	32	31	3.39
3154		3.36	0.01	3.5	0.19	88	<10	20	<0.5	7	0.14	2.9	7	39	106	3.13
3155		0.36	0.11	3.7	0.14	63	<10	10	<0.5	11	0.16	<0.5	5	51	110	20.3
3156		2.24	0.01	3.1	0.27	62	<10	60	<0.5	3	0.18	18.6	6	36	35	2.98
3157		2.22	0.02	2.9	0.37	69	<10	20	<0.5	5	0.23	11.8	6	38	84	3.00
3158		0.10	0.85	>100	0.60	4840	<10	20	<0.5	6	0.55	101.0	7	54	298	6.16
3159		1.44	0.04	4.5	0.53	279	<10	100	0.7	<2	0.42	5.0	11	30	38	3.14
3160		0.56	0.03	2.5	0.48	308	<10	80	0.7	<2	0.29	10.0	9	27	32	2.55
3161		0.42	0.05	3.1	0.53	247	<10	70	0.8	2	0.28	6.6	18	30	65	2.81
3162		0.40	0.05	3.1	0.50	260	<10	70	0.8	3	0.27	4.7	17	24	70	2.78
3163		1.84	0.11	3.2	0.56	264	<10	50	0.6	2	0.88	4.3	10	28	47	3.04
3164		3.04	0.01	1.1	0.49	88	<10	50	<0.5	2	1.03	3.1	10	28	19	3.20
3165		3.04	0.07	4.3	0.44	102	<10	70	<0.5	5	0.34	44.2	9	35	73	3.09
3166		3.22	0.03	1.5	0.49	159	<10	30	<0.5	2	0.28	3.8	9	25	18	3.23
3167		3.98	0.02	2.1	0.20	135	<10	60	<0.5	5	0.08	6.1	9	34	28	3.43
3168		0.68	0.12	2.4	0.24	68	<10	10	<0.5	8	0.14	<0.5	8	79	254	7.89
3169		1.72	0.03	1.8	0.50	197	<10	20	<0.5	<2	0.27	2.0	10	34	19	3.30
3170		0.84	0.01	2.2	0.54	108	<10	20	<0.5	2	0.80	1.7	11	39	49	3.52
3171		3.24	<0.01	0.5	0.50	159	<10	30	<0.5	<2	3.61	<0.5	8	20	18	3.00
3172		2.68	0.01	1.1	0.86	122	<10	40	<0.5	2	3.86	0.8	9	26	27	3.06

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 5 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 27-NOV-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04080492**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
3152		<10	<1	0.20	<10	0.07	4310	2	0.06	4	740	325	3.37	2	1	58
3153		<10	<1	0.22	<10	0.05	1530	2	0.07	3	780	466	3.98	4	1	57
3154		<10	<1	0.05	<10	0.01	31	1	0.02	5	560	222	3.63	20	<1	514
3155		<10	<1	0.02	<10	<0.01	23	2	0.02	4	720	236	>10.0	7	<1	28
3156		<10	<1	0.11	<10	0.01	26	1	0.03	6	710	612	3.55	7	1	261
3157		<10	<1	0.14	<10	0.02	121	2	0.05	5	790	585	3.62	10	1	1075
3158		<10	1	0.36	10	0.10	293	2	0.04	6	690	4910	7.55	1570	1	140
3159		<10	1	0.21	20	0.18	6840	<1	0.03	6	770	298	2.21	5	2	102
3160		<10	<1	0.21	10	0.10	3860	1	0.02	7	700	1320	2.06	2	1	112
3161		<10	<1	0.21	10	0.03	95	<1	0.03	8	670	239	3.29	2	1	124
3162		<10	<1	0.19	<10	0.03	72	1	0.03	8	660	278	3.26	3	1	136
3163		<10	<1	0.19	10	0.20	1275	1	0.03	9	780	380	3.39	2	1	155
3164		<10	<1	0.23	10	0.17	1900	2	0.03	6	830	246	3.58	3	1	147
3165		<10	<1	0.17	<10	0.04	468	1	0.04	5	730	1280	3.83	5	1	159
3166		<10	<1	0.21	<10	0.02	51	3	0.04	5	850	269	3.77	3	1	149
3167		<10	<1	0.05	<10	0.01	18	3	0.02	5	180	300	3.91	7	1	72
3168		<10	<1	0.03	<10	<0.01	15	6	0.02	6	400	61	8.87	5	<1	114
3169		<10	<1	0.19	<10	0.02	440	3	0.04	9	720	366	3.87	4	1	908
3170		<10	<1	0.19	<10	0.16	5870	5	0.04	13	820	381	4.13	11	2	726
3171		<10	<1	0.17	10	0.57	3590	2	0.04	5	870	93	3.61	3	2	252
3172		<10	<1	0.17	10	0.84	2780	1	0.11	5	860	136	3.73	5	2	261

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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Page: 5 - C  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04080492

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Ti	Ti	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
3152		<0.01	<10	<10	5	<10	317					
3153		<0.01	<10	<10	5	<10	730					
3154		<0.01	<10	<10	2	<10	314					
3155		<0.01	<10	<10	2	<10	9					
3156		<0.01	<10	<10	2	<10	1775					
3157		<0.01	<10	<10	3	<10	1145					
3158		<0.01	<10	<10	6	<10	>10000			1.37		142
3159		<0.01	<10	<10	13	<10	786					
3160		<0.01	<10	<10	7	<10	1875					
3161		<0.01	<10	<10	4	<10	1190					
3162		<0.01	<10	<10	3	<10	876					
3163		<0.01	<10	<10	6	<10	650					
3164		<0.01	<10	<10	6	<10	609					
3165		<0.01	<10	<10	4	<10	4910					
3166		<0.01	<10	<10	5	<10	674					
3167		<0.01	<10	<10	3	<10	690					
3168		<0.01	<10	<10	2	<10	49					
3169		<0.01	<10	<10	5	<10	392					
3170		<0.01	<10	<10	8	<10	352					
3171		<0.01	<10	<10	16	<10	97					
3172		<0.01	<10	<10	13	<10	180					

Comments: Some samples in this set exhibit possible Au nugget effect. NSS is non-sufficient sample.



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## CERTIFICATE VA04081366

Project: Thorn  
P.O. No.: FAV04-01  
This report is for 27 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-NOV-2004.

The following have access to data associated with this certificate:

CANGOLD  
EQUITY ENG E-MAIL

EQUITY ENG E-MAIL  
HENRY AWMACK

CANGOLD  
DARCY BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081366

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B0002715		3.40	0.07	8.1	0.67	1525	<10	40	0.5	<2	1.80	25.5	6	14	25	3.26
B0002716		1.32	0.45	>100	0.44	6190	<10	80	<0.5	3	1.10	23.1	7	28	289	5.60
B0002717		1.38	0.54	>100	0.41	6610	<10	70	<0.5	5	1.06	29.8	9	14	381	6.42
B0002718		2.96	0.43	>100	0.42	5950	<10	70	<0.5	4	0.64	21.7	7	27	220	4.83
B0002719		2.84	0.40	>100	0.44	5930	<10	80	<0.5	3	0.63	15.7	7	26	230	4.49
B0002720		2.84	0.34	>100	0.37	4290	<10	50	<0.5	2	0.56	14.2	7	34	215	4.19
B0002721		2.98	0.34	>100	0.46	5820	<10	40	<0.5	3	0.63	21.4	6	17	190	4.73
B0002722		2.90	0.09	14.3	0.44	7270	<10	90	<0.5	<2	0.65	29.8	9	25	25	3.79
B0002723		2.86	0.49	>100	0.46	8110	<10	40	<0.5	2	0.48	50.5	7	18	132	4.51
B0002724		1.16	0.38	>100	0.39	4910	<10	40	<0.5	8	0.67	193.0	7	29	531	7.70
B0002725		1.52	0.15	63.7	0.48	5320	<10	100	<0.5	<2	0.50	17.7	7	20	136	3.85
B0002726		1.78	0.03	7.9	0.42	577	<10	100	<0.5	<2	0.92	4.6	7	28	21	2.17
B0002727		2.04	0.33	87.4	0.48	7520	<10	80	<0.5	3	0.40	35.8	8	21	198	5.51
B0002728		2.86	0.24	30.5	0.42	8560	<10	80	<0.5	2	0.75	50.3	7	27	76	4.18
B0002729		2.64	0.13	22.6	0.42	8220	<10	70	<0.5	2	0.58	30.1	8	19	47	4.48
B0002730		4.98	0.08	9.0	0.40	5390	<10	70	<0.5	<2	0.36	13.5	7	27	26	4.71
B0002731		2.92	0.01	1.8	0.50	753	<10	100	0.6	<2	1.14	4.1	6	19	13	2.97
B0002732		2.58	0.14	6.6	0.54	779	<10	110	0.6	<2	0.88	9.1	7	11	24	2.76
B0002733		1.58	1.35	>100	0.42	3240	<10	40	<0.5	22	0.57	>500	7	27	911	6.71
B0002734		1.68	0.87	32.2	0.45	1250	<10	80	<0.5	5	0.40	103.0	8	17	454	4.52
B0002735		2.04	1.94	>100	0.41	3040	<10	50	<0.5	17	0.41	150.0	8	34	1320	8.27
B0002736		1.12	1.08	39.9	0.46	2980	<10	80	<0.5	<2	0.71	18.2	6	19	205	3.14
B0002737		0.78	0.82	>100	0.41	1845	<10	70	<0.5	10	1.19	427	8	28	728	6.72
B0002738		2.88	0.18	7.0	0.42	461	<10	20	<0.5	<2	0.55	5.2	5	18	46	4.71
B0002739		1.60	0.20	10.6	0.46	1270	<10	80	<0.5	<2	0.41	44.7	6	34	57	4.07
B0002740		1.74	0.25	10.0	0.52	1340	<10	80	<0.5	<2	0.40	40.2	6	20	50	4.21
B0002741		3.58	0.26	22.5	0.46	1485	<10	40	<0.5	<2	0.35	91.6	7	34	76	4.75



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Finalized Date: 29-NOV-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081366

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
B0002715		<10	1	0.33	10	0.42	320	<1	0.02	3	800	313	3.34	223	1	282
B0002716		<10	1	0.26	10	0.31	354	2	0.02	5	650	3180	6.11	8170	1	170
B0002717		<10	1	0.24	10	0.32	369	2	0.02	6	650	3420	7.09	9770	1	164
B0002718		<10	2	0.24	10	0.12	239	1	0.03	5	670	5540	5.74	5110	1	147
B0002719		<10	1	0.26	10	0.09	210	2	0.03	6	650	3290	4.92	2700	1	168
B0002720		<10	1	0.22	10	0.06	178	2	0.04	4	670	2510	4.56	2110	1	163
B0002721		<10	1	0.28	10	0.16	365	2	0.04	4	670	3380	5.00	2580	1	152
B0002722		<10	1	0.27	10	0.16	468	1	0.03	9	860	631	3.80	462	1	148
B0002723		<10	1	0.28	10	0.10	325	2	0.02	6	700	1760	4.72	837	1	120
B0002724		<10	2	0.24	10	0.17	671	2	0.03	3	580	>10000	9.47	5730	1	131
B0002725		<10	1	0.29	10	0.10	342	2	0.04	4	860	1525	3.88	506	1	145
B0002726		<10	1	0.26	20	0.25	1400	<1	0.05	3	890	203	1.50	64	1	234
B0002727		<10	1	0.30	10	0.10	390	2	0.04	6	630	1610	5.56	293	1	114
B0002728		<10	1	0.27	10	0.18	537	2	0.04	7	760	1120	4.22	147	1	170
B0002729		<10	1	0.27	10	0.12	395	2	0.04	12	780	896	4.43	118	1	157
B0002730		<10	1	0.27	10	0.07	432	2	0.05	5	650	434	4.80	60	1	124
B0002731		<10	1	0.31	10	0.30	9610	1	0.06	3	750	131	2.96	21	1	159
B0002732		<10	1	0.33	10	0.24	5450	1	0.07	3	810	227	2.81	30	1	159
B0002733		10	4	0.26	10	0.16	753	1	0.04	4	720	>10000	8.99	326	1	120
B0002734		<10	1	0.28	10	0.08	313	1	0.04	7	800	1205	4.96	257	1	116
B0002735		<10	1	0.27	10	0.10	336	2	0.04	7	490	7580	9.25	1070	1	113
B0002736		<10	1	0.31	10	0.16	555	<1	0.04	5	750	1275	3.20	193	1	165
B0002737		<10	3	0.27	10	0.38	941	1	0.04	3	730	>10000	9.16	356	1	184
B0002738		<10	1	0.26	10	0.06	241	1	0.04	5	710	466	4.96	58	1	149
B0002739		<10	<1	0.29	10	0.06	249	1	0.03	4	790	632	4.42	55	1	122
B0002740		<10	<1	0.32	10	0.06	244	1	0.03	3	810	712	4.48	54	1	120
B0002741		<10	<1	0.29	10	0.06	259	1	0.02	4	760	794	5.21	64	1	114





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 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - C  
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 Finalized Date: 29-NOV-2004  
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Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081366

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	ppm 0.05	ppm 5
B0002715		<0.01	<10	<10	5	<10	2100				
B0002716		<0.01	<10	<10	5	<10	4620				210
B0002717		<0.01	<10	<10	5	<10	6540				279
B0002718		<0.01	<10	<10	4	10	>10000		1.42		217
B0002719		<0.01	<10	<10	4	<10	7570				183
B0002720		<0.01	<10	<10	3	<10	4290				183
B0002721		<0.01	<10	<10	4	<10	5350				157
B0002722		<0.01	<10	<10	4	<10	3460				
B0002723		<0.01	<10	<10	4	<10	8330				98
B0002724		<0.01	<10	<10	4	20	>10000	1.59	2.77		605
B0002725		<0.01	<10	<10	4	<10	3110				
B0002726		<0.01	<10	<10	6	<10	614				
B0002727		<0.01	<10	<10	5	<10	5300				
B0002728		<0.01	<10	<10	4	<10	6940				
B0002729		<0.01	<10	<10	4	<10	4120				
B0002730		<0.01	<10	<10	4	<10	1830				
B0002731		<0.01	<10	<10	6	<10	542				
B0002732		<0.01	<10	<10	6	<10	1100				
B0002733		<0.01	<10	<10	4	<10	>10000	1.43	6.17	1.03	96
B0002734		<0.01	<10	<10	5	<10	7330				
B0002735		<0.01	<10	<10	5	<10	>10000		1.29	2.03	113
B0002736		<0.01	<10	<10	4	<10	1805			1.08	
B0002737		<0.01	<10	<10	6	<10	>10000	3.13	4.09		144
B0002738		<0.01	<10	<10	3	<10	656				
B0002739		<0.01	<10	<10	4	<10	4240				
B0002740		<0.01	<10	<10	5	<10	3690				
B0002741		<0.01	<10	<10	4	<10	7460				



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## CERTIFICATE VA04081535

Project: Thorn

P.O. No.: FAV04-01

This report is for 4 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-NOV-2004.

The following have access to data associated with this certificate:

CANGOLD  
EQUITY ENG E-MAIL

EQUITY ENG E-MAIL  
HENRY AWMACK

CANGOLD  
DARCY BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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Signature: \_\_\_\_\_



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Project: Thorn

**CERTIFICATE OF ANALYSIS VA04081535**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B2711		3.98	0.37	>100	0.41	4110	<10	50	<0.5	2	1.30	24.5	7	21	193	4.10
B2712		4.30	0.35	>100	0.38	5810	<10	30	<0.5	5	1.12	41.2	7	8	346	5.71
B2713		2.68	0.10	33.6	0.36	1055	<10	50	<0.5	<2	0.61	8.4	6	25	46	3.10
B2714		3.34	0.42	>100	0.35	6210	<10	40	<0.5	5	1.43	26.3	8	5	420	6.00



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 212 Brooksbank Avenue  
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 Phone: 604 984 0221 Fax: 604 984 0218

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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 1-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081535

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Hg	Mn	Mo	Na	NI	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
B2711		<10	<1	0.25	10	0.28	352	2	<0.01	6	730	1495	4.10	645	1	315
B2712		<10	1	0.24	10	0.19	280	2	<0.01	6	610	2520	5.88	1170	1	245
B2713		<10	<1	0.22	10	0.10	183	1	<0.01	6	760	874	3.04	375	1	108
B2714		<10	<1	0.21	10	0.32	412	2	<0.01	6	630	4100	6.21	3160	1	248



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North Vancouver BC V7J 2C1 Canada  
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Page: 2 - C  
Total # Pages: 2 (A - C)  
Finalized Date: 1-DEC-2004  
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**CERTIFICATE OF ANALYSIS VA04081535**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-GR22
		Tl	Tl	U	V	W	Zn	Ag
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	5
B2711		<0.01	<10	<10	4	<10	2010	128
B2712		<0.01	<10	<10	5	<10	3150	186
B2713		<0.01	<10	<10	4	<10	908	
B2714		<0.01	<10	<10	4	<10	2260	309



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Page: 1  
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Account: EIA

## CERTIFICATE VA04081076

Project: Thorn

P.O. No.: FAV04-01

This report is for 190 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-NOV-2004.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL  
CANGOLD

CANGOLD  
HENRY AWMACK

EQUITY ENG E-MAIL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-GRA22	Ag 50g FA-GRAV finish	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

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Page: 2 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 3-DEC-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01
B003173		2.62	0.01	0.4	0.83	101	<10	70	<0.5	4	3.13	1.0	9	11	39	3.25
B003174		2.30	<0.01	0.2	0.68	62	<10	40	<0.5	3	4.55	<0.5	8	16	23	2.81
B003175		3.02	<0.01	0.8	0.62	132	<10	30	<0.5	3	4.38	4.8	9	15	29	3.28
B003176		0.26	<0.01	<0.2	0.58	<2	<10	150	<0.5	<2	1.56	<0.5	3	26	15	1.55
B003177		2.98	<0.01	4.6	0.51	159	<10	20	<0.5	6	3.38	14.2	10	15	94	3.58
B003178		2.62	0.03	1.9	0.57	193	<10	40	<0.5	4	2.11	4.7	8	26	83	3.50
B003179		3.20	0.02	2.0	0.54	147	<10	30	<0.5	11	1.56	3.5	11	14	43	4.14
B003180		2.34	0.01	1.0	0.57	110	<10	20	<0.5	4	1.38	2.3	10	25	25	3.90
B003181		3.60	0.01	1.0	0.65	126	<10	30	<0.5	4	1.57	2.0	10	14	43	3.87
B003182		1.96	0.01	0.8	0.95	152	<10	40	<0.5	3	2.49	2.2	10	26	39	3.65
B003183		2.58	0.01	1.2	0.53	85	<10	70	<0.5	2	1.60	3.6	6	13	24	3.13
B003184		0.10	0.90	>100	0.55	4870	<10	20	<0.5	7	0.57	103.5	6	53	294	6.41
B003185		4.58	0.01	0.5	1.82	194	<10	80	0.5	<2	6.16	<0.5	20	57	81	4.23
B003186		4.12	0.01	0.5	1.88	178	<10	90	<0.5	<2	4.63	<0.5	21	76	77	4.27
B003187		4.22	<0.01	0.2	2.69	108	<10	180	<0.5	2	3.75	0.9	21	126	84	4.34
B003188		3.38	<0.01	0.4	3.32	130	<10	350	<0.5	<2	3.73	0.8	26	168	79	4.58
B003189		4.00	<0.01	0.4	2.44	136	<10	100	<0.5	3	5.19	0.7	21	113	86	4.52
B003190		3.50	0.01	0.2	1.63	142	<10	90	<0.5	<2	3.56	<0.5	19	122	35	3.55
B003191		3.88	<0.01	<0.2	1.84	130	<10	110	<0.5	<2	3.74	<0.5	18	136	40	3.75
B003192		1.72	0.01	0.3	1.89	204	<10	70	0.5	3	5.05	0.7	22	102	31	4.58
B003193		1.74	0.01	0.3	1.82	204	<10	100	0.5	<2	6.17	0.9	19	90	28	4.48
B003194		3.10	0.01	0.2	1.90	172	<10	110	0.7	4	9.49	<0.5	18	85	18	3.93
B003195		2.98	<0.01	1.0	1.70	167	<10	40	0.5	2	2.96	2.7	19	82	84	3.63
B003196		1.96	0.01	0.8	1.74	226	<10	60	0.5	3	3.68	3.3	24	79	96	4.59
B003197		1.92	<0.01	0.5	0.91	146	<10	80	<0.5	4	3.50	1.6	16	69	63	3.42
B003198		2.80	0.13	0.8	0.97	256	<10	40	<0.5	<2	3.56	2.0	21	66	87	3.88
B003199		3.14	0.02	0.4	1.28	335	<10	80	0.5	2	3.78	0.5	21	77	24	4.80
B003200		3.92	<0.01	0.2	1.50	118	<10	100	<0.5	<2	4.49	<0.5	16	125	13	3.54
B003201		1.52	<0.01	<0.2	2.00	106	<10	120	<0.5	3	3.58	<0.5	18	166	28	3.23
B003202		1.70	<0.01	0.2	1.94	104	<10	120	<0.5	<2	3.99	<0.5	19	173	30	3.11
B003203		3.92	<0.01	0.4	2.49	145	<10	160	<0.5	2	3.23	0.7	21	174	55	3.93
B003204		0.40	<0.01	<0.2	0.59	2	<10	200	<0.5	<2	1.69	<0.5	4	33	13	1.46
B003205		1.60	<0.01	0.3	2.48	141	<10	90	<0.5	2	1.74	<0.5	16	205	64	3.69
B003206		1.60	<0.01	<0.2	2.43	210	<10	90	<0.5	<2	2.11	<0.5	17	180	16	4.35
B003207		1.82	<0.01	<0.2	0.87	54	<10	100	<0.5	<2	3.26	<0.5	11	71	8	2.12
B003208		2.40	<0.01	0.2	2.25	126	<10	90	<0.5	<2	1.32	<0.5	23	162	80	4.01
B003209		3.34	<0.01	<0.2	0.41	53	<10	130	<0.5	2	3.51	<0.5	7	59	7	2.04
B003210		2.36	<0.01	<0.2	0.81	57	<10	110	<0.5	2	3.30	<0.5	12	90	7	2.57
B003211		2.62	<0.01	<0.2	0.60	54	<10	110	<0.5	<2	2.77	<0.5	10	70	12	2.48
B003212		3.54	<0.01	<0.2	1.01	198	<10	50	<0.5	2	2.61	<0.5	18	94	36	3.11

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



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ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
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Page: 2 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
B003173		<10	<1	0.14	10	0.66	2210	<1	0.11	6	900	92	3.56	5	2	203
B003174		<10	<1	0.13	10	0.53	1990	1	0.12	3	810	42	3.44	2	2	574
B003175		<10	1	0.16	10	1.19	4140	4	0.10	6	790	243	4.50	6	2	538
B003176		<10	1	0.27	20	0.10	544	<1	0.05	3	680	11	0.05	<2	1	54
B003177		<10	1	0.14	10	0.28	1325	1	0.09	7	880	1105	6.04	22	1	687
B003178		<10	<1	0.17	10	0.75	2350	1	0.09	6	830	272	4.21	18	1	182
B003179		<10	<1	0.18	10	0.34	1270	1	0.10	6	940	206	4.76	8	2	300
B003180		<10	<1	0.18	10	0.44	1230	2	0.10	6	880	139	4.38	4	2	671
B003181		<10	<1	0.16	10	0.65	1225	1	0.11	7	920	129	4.32	10	2	172
B003182		<10	<1	0.17	10	0.67	1705	1	0.12	7	940	156	4.06	6	2	163
B003183		<10	<1	0.16	10	0.56	3300	2	0.09	3	800	277	3.40	5	1	77
B003184		<10	1	0.32	10	0.11	321	1	0.04	6	690	5190	7.07	1600	1	131
B003185		10	<1	0.15	10	2.03	1405	9	0.05	88	790	23	2.98	9	7	241
B003186		10	1	0.14	10	2.09	1365	6	0.04	130	760	16	2.99	6	5	213
B003187		10	<1	0.14	10	2.73	1420	2	0.04	166	820	12	1.28	3	7	184
B003188		10	1	0.12	10	3.42	1215	2	0.03	243	710	12	0.65	5	8	199
B003189		10	1	0.15	10	3.46	1980	3	0.04	158	690	15	1.33	3	8	340
B003190		<10	1	0.16	10	2.19	2060	1	0.03	169	580	16	2.78	2	6	190
B003191		<10	1	0.15	10	2.31	2390	1	0.03	174	580	17	3.01	4	5	172
B003192		10	1	0.15	10	2.57	2680	1	0.04	155	1080	41	4.49	7	6	235
B003193		<10	<1	0.17	10	2.41	2860	1	0.04	138	1100	47	4.49	9	6	303
B003194		<10	<1	0.16	10	2.89	3930	1	0.03	121	1120	30	3.22	5	7	347
B003195		<10	<1	0.19	10	2.56	2020	<1	0.03	134	710	180	2.60	4	5	140
B003196		<10	2	0.21	10	2.79	3060	1	0.03	164	770	184	3.02	10	5	243
B003197		<10	<1	0.15	10	1.78	2930	1	0.03	114	590	83	2.70	4	5	240
B003198		<10	<1	0.18	10	1.96	3750	2	0.03	160	640	97	3.21	10	6	227
B003199		<10	1	0.18	10	2.46	3480	3	0.03	167	670	50	4.37	5	6	225
B003200		<10	1	0.14	10	2.08	1575	1	0.03	158	620	14	2.93	<2	5	225
B003201		10	1	0.14	10	2.34	1235	1	0.03	164	610	12	1.78	5	7	160
B003202		10	1	0.14	10	2.26	1250	1	0.03	162	620	12	1.72	2	7	174
B003203		10	1	0.13	10	2.90	1290	2	0.03	196	630	36	1.77	5	7	174
B003204		<10	1	0.27	20	0.12	627	<1	0.05	3	650	11	0.02	<2	1	57
B003205		10	1	0.10	10	3.19	1135	1	0.03	176	660	19	1.84	2	7	112
B003206		10	<1	0.12	10	3.28	1175	<1	0.03	203	690	15	2.65	3	7	163
B003207		<10	1	0.13	10	1.60	754	<1	0.03	67	550	4	1.74	<2	4	156
B003208		10	2	0.13	10	2.76	757	2	0.03	194	590	12	2.15	<2	6	111
B003209		<10	1	0.13	10	1.69	914	1	0.03	61	540	5	1.50	2	4	178
B003210		<10	1	0.14	10	1.97	866	1	0.04	98	580	9	2.04	<2	5	211
B003211		<10	<1	0.13	10	1.41	693	2	0.03	83	460	4	2.07	3	4	174
B003212		<10	1	0.15	10	1.70	581	2	0.03	184	560	10	2.38	6	4	177

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.





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 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		TI	TI	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
B003173		<0.01	<10	<10	12	<10	152					
B003174		<0.01	<10	<10	11	<10	43					
B003175		<0.01	<10	<10	18	<10	547					
B003176		0.02	<10	<10	17	<10	40					
B003177		<0.01	<10	<10	11	<10	1690					
B003178		<0.01	10	<10	9	<10	851					
B003179		<0.01	<10	<10	7	<10	541					
B003180		<0.01	<10	<10	7	<10	358					
B003181		<0.01	<10	<10	9	<10	268					
B003182		<0.01	<10	<10	15	<10	388					
B003183		<0.01	<10	<10	6	<10	493					
B003184		<0.01	<10	<10	6	<10	>10000			1.29		147
B003185		<0.01	<10	<10	87	<10	61					
B003186		<0.01	<10	<10	79	<10	58					
B003187		<0.01	<10	<10	93	<10	168					
B003188		<0.01	<10	<10	104	<10	162					
B003189		<0.01	10	<10	92	<10	130					
B003190		<0.01	<10	<10	56	<10	60					
B003191		<0.01	<10	<10	62	<10	110					
B003192		<0.01	<10	<10	77	<10	112					
B003193		<0.01	<10	<10	73	<10	115					
B003194		<0.01	<10	<10	75	<10	54					
B003195		<0.01	<10	<10	61	<10	347					
B003196		<0.01	<10	<10	60	<10	423					
B003197		<0.01	10	<10	36	<10	207					
B003198		<0.01	<10	<10	36	<10	243					
B003199		<0.01	<10	<10	50	<10	66					
B003200		<0.01	<10	<10	54	<10	34					
B003201		<0.01	<10	<10	72	<10	41					
B003202		<0.01	<10	<10	72	<10	40					
B003203		<0.01	<10	<10	77	<10	124					
B003204		0.02	<10	<10	17	<10	36					
B003205		<0.01	<10	<10	82	<10	80					
B003206		<0.01	<10	<10	74	<10	55					
B003207		<0.01	<10	<10	21	<10	14					
B003208		<0.01	<10	<10	80	<10	51					
B003209		<0.01	<10	<10	16	<10	17					
B003210		<0.01	<10	<10	26	<10	28					
B003211		<0.01	<10	<10	19	<10	18					
B003212		<0.01	<10	<10	31	<10	44					

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
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Page: 3 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04081076**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B003213		3.42	<0.01	<0.2	1.19	129	<10	110	<0.5	<2	3.56	<0.5	19	112	47	3.70
B003214		3.48	<0.01	<0.2	1.50	104	<10	120	<0.5	<2	3.34	<0.5	20	148	29	3.76
B003215		1.18	<0.01	<0.2	2.35	140	<10	120	<0.5	<2	2.83	<0.5	21	161	89	4.51
B003216		3.14	<0.01	<0.2	2.17	113	<10	110	<0.5	<2	2.06	<0.5	21	140	50	3.77
B003217		3.50	<0.01	<0.2	0.93	94	<10	110	<0.5	<2	3.70	<0.5	13	79	9	2.87
B003218		0.70	0.01	<0.2	0.42	221	<10	80	<0.5	<2	7.80	<0.5	13	42	10	4.41
B003219		4.02	<0.01	<0.2	1.22	86	<10	100	<0.5	<2	2.84	<0.5	19	96	33	3.17
B003220		1.18	<0.01	0.3	2.50	112	<10	100	0.5	2	1.62	<0.5	26	102	177	4.07
B003221		1.40	0.08	0.4	2.50	130	<10	100	0.5	<2	1.60	<0.5	28	104	156	4.43
B003222		1.54	0.01	0.2	1.80	108	<10	20	0.5	<2	3.41	<0.5	23	74	19	3.81
B003223		2.32	<0.01	<0.2	1.69	187	<10	110	<0.5	<2	2.47	<0.5	16	123	190	2.78
B003224		3.26	<0.01	<0.2	1.36	113	<10	90	<0.5	<2	3.52	<0.5	17	99	16	3.26
B003225		1.82	<0.01	<0.2	2.02	154	<10	90	0.5	<2	1.95	<0.5	21	85	45	3.93
B003226		0.98	<0.01	<0.2	2.64	156	<10	90	0.6	<2	1.77	<0.5	23	102	11	5.13
B003227		4.22	<0.01	<0.2	0.98	57	<10	120	<0.5	<2	2.71	<0.5	11	77	9	2.39
B003228		0.08	1.39	>100	0.42	4810	<10	20	0.7	9	0.85	>500	7	57	869	7.21
B003229		3.70	<0.01	<0.2	1.25	159	<10	80	<0.5	<2	2.26	<0.5	20	80	60	3.19
B003230		3.38	<0.01	0.2	0.83	70	<10	30	0.5	2	3.29	<0.5	20	71	88	4.03
B003231		2.38	<0.01	2.8	0.45	63	<10	20	<0.5	2	2.75	1.1	17	58	254	3.64
B003232		1.86	<0.01	1.3	0.83	52	<10	50	<0.5	18	2.55	0.6	15	111	23	3.38
B003233		1.82	<0.01	0.2	1.88	59	<10	100	<0.5	3	2.48	<0.5	18	115	13	3.08
B003234		2.54	<0.01	0.2	2.27	110	<10	70	<0.5	3	2.59	<0.5	19	114	22	3.43
B003235		2.74	<0.01	<0.2	2.01	146	<10	60	0.5	2	3.22	<0.5	20	118	11	3.86
B003236		2.20	<0.01	<0.2	2.77	172	<10	90	0.5	<2	2.67	<0.5	25	130	14	2.99
B003237		1.86	<0.01	<0.2	2.40	94	<10	60	0.5	<2	2.65	<0.5	22	114	9	5.12
B003238		2.16	<0.01	<0.2	1.62	39	<10	70	<0.5	<2	2.52	<0.5	15	94	12	3.79
B003239		2.06	<0.01	<0.2	2.78	116	<10	100	0.5	<2	2.76	<0.5	25	106	82	3.19
B003240		1.04	<0.01	<0.2	2.50	90	<10	90	0.5	<2	3.04	<0.5	22	101	16	4.09
B003241		1.18	0.01	<0.2	2.56	88	<10	70	0.5	<2	3.44	<0.5	23	110	15	4.50
B003242		1.86	0.01	<0.2	1.33	61	10	40	<0.5	2	3.14	<0.5	23	57	14	5.82
B003243		2.10	<0.01	<0.2	1.28	88	<10	100	0.5	<2	2.75	<0.5	20	86	14	2.44
B003244		0.40	0.01	0.7	0.54	61	<10	10	<0.5	<2	5.82	5.1	20	33	33	4.79
B003245		1.36	<0.01	<0.2	1.08	90	<10	70	<0.5	<2	2.58	<0.5	22	77	9	3.14
B003246		2.02	<0.01	<0.2	0.63	73	<10	70	<0.5	<2	2.16	<0.5	15	73	14	2.39
B003247		1.54	0.03	<0.2	1.06	138	<10	40	0.5	<2	3.76	<0.5	22	69	11	3.01
B003248		0.82	0.02	<0.2	0.97	94	<10	40	<0.5	<2	1.90	<0.5	17	81	9	2.34
B003249		1.58	<0.01	<0.2	1.24	92	<10	70	<0.5	2	2.02	<0.5	21	119	14	3.66
B003250		3.04	<0.01	<0.2	1.51	92	<10	70	<0.5	<2	2.53	<0.5	16	121	18	3.43
B003251		0.32	<0.01	<0.2	0.98	63	<10	10	<0.5	<2	3.74	<0.5	18	100	27	5.41
B003252		0.32	0.01	<0.2	1.01	81	<10	10	<0.5	2	3.42	<0.5	21	74	33	6.64

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04081076**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
B003213		<10	1	0.16	10	2.31	932	1	0.04	164	590	14	2.59	<2	6	236
B003214		<10	1	0.14	10	2.71	894	1	0.04	194	640	13	2.41	4	7	220
B003215		10	1	0.15	10	3.53	977	1	0.04	182	690	24	2.14	3	8	264
B003216		10	<1	0.16	10	2.99	765	2	0.02	162	620	13	1.79	3	7	189
B003217		<10	<1	0.13	10	2.39	898	1	0.02	112	540	13	1.70	<2	7	350
B003218		<10	<1	0.12	<10	3.88	1255	1	0.02	100	350	18	3.25	2	6	935
B003219		<10	<1	0.17	10	2.23	972	1	0.02	146	620	13	2.53	2	7	257
B003220		10	1	0.16	10	3.05	919	2	0.01	215	690	16	2.88	8	6	150
B003221		10	<1	0.17	10	3.08	919	2	0.01	224	680	17	3.30	7	6	149
B003222		<10	1	0.21	10	3.03	1230	3	0.02	182	730	22	3.15	2	5	284
B003223		<10	<1	0.14	10	2.47	821	1	0.02	160	660	7	1.92	25	6	196
B003224		<10	<1	0.13	10	2.68	868	1	0.02	163	630	6	2.40	<2	5	315
B003225		<10	<1	0.16	10	2.68	504	1	0.02	171	660	4	2.76	4	6	180
B003226		10	<1	0.18	10	3.22	612	2	0.02	178	700	7	3.57	3	7	112
B003227		<10	<1	0.13	10	1.88	542	1	0.01	85	500	7	1.66	<2	4	149
B003228		<10	2	0.27	10	0.27	394	1	0.02	5	590	>10000	6.91	2320	1	106
B003229		<10	<1	0.16	10	1.85	609	2	0.01	156	600	20	2.61	7	4	168
B003230		<10	<1	0.21	10	1.76	1500	2	0.04	151	770	23	4.37	25	5	162
B003231		<10	<1	0.16	<10	1.32	1835	2	0.02	130	480	80	3.89	100	3	152
B003232		<10	<1	0.15	<10	1.63	1505	1	0.02	116	470	75	3.59	3	3	176
B003233		<10	<1	0.13	10	2.11	1045	1	0.01	156	570	25	2.97	4	4	144
B003234		<10	<1	0.14	<10	2.22	880	2	0.01	158	630	12	3.39	2	4	145
B003235		<10	<1	0.16	10	2.33	840	1	0.02	192	610	11	3.85	<2	5	188
B003236		10	<1	0.15	10	2.59	521	2	0.02	207	680	3	2.53	2	5	158
B003237		<10	<1	0.14	<10	2.39	416	2	0.02	182	590	6	5.00	3	4	162
B003238		<10	<1	0.13	<10	1.76	357	1	0.02	108	520	7	3.66	3	3	142
B003239		10	1	0.15	10	2.75	364	3	0.02	174	740	6	2.35	<2	5	180
B003240		<10	<1	0.15	10	2.44	412	2	0.02	171	760	8	3.80	3	4	167
B003241		10	1	0.14	<10	2.62	456	2	0.02	176	800	7	4.26	2	4	186
B003242		<10	<1	0.15	<10	1.54	640	2	0.01	162	600	7	6.29	<2	2	122
B003243		<10	<1	0.17	10	1.82	1075	2	0.03	153	780	19	2.48	3	4	127
B003244		<10	<1	0.19	<10	3.01	3210	2	0.01	134	600	429	5.38	10	3	235
B003245		<10	<1	0.17	10	1.46	1485	2	0.03	155	810	34	3.44	<2	4	132
B003246		<10	<1	0.12	<10	1.20	1175	1	0.01	99	470	10	2.40	2	3	124
B003247		<10	<1	0.17	10	1.86	1725	2	0.02	130	690	10	3.20	<2	4	184
B003248		<10	<1	0.18	10	1.25	828	2	0.02	118	610	9	2.32	<2	4	150
B003249		<10	<1	0.18	<10	1.40	789	1	0.02	143	720	17	3.92	<2	4	126
B003250		<10	<1	0.15	<10	1.76	1165	1	0.01	120	600	12	3.48	2	4	102
B003251		<10	<1	0.14	<10	2.04	2360	2	0.02	91	440	9	5.88	2	3	112
B003252		<10	<1	0.13	<10	1.88	2160	1	<0.01	112	430	8	7.14	4	3	106

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 3 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Ti	Ti	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
B003213		<0.01	10	<10	40	<10	63					
B003214		<0.01	<10	<10	47	<10	58					
B003215		<0.01	<10	<10	77	<10	64					
B003216		<0.01	<10	<10	71	<10	57					
B003217		<0.01	<10	<10	36	<10	30					
B003218		<0.01	<10	<10	28	<10	31					
B003219		<0.01	<10	<10	38	<10	38					
B003220		<0.01	<10	<10	55	<10	51					
B003221		<0.01	<10	<10	57	<10	51					
B003222		<0.01	<10	<10	43	<10	50					
B003223		<0.01	<10	<10	45	<10	40					
B003224		<0.01	<10	<10	39	<10	31					
B003225		<0.01	<10	<10	47	<10	31					
B003226		<0.01	<10	<10	61	<10	38					
B003227		<0.01	<10	<10	28	<10	24					
B003228		<0.01	<10	<10	5	10	>10000		1.93	3.73	1.57	332
B003229		<0.01	<10	<10	30	<10	61					
B003230		<0.01	<10	<10	36	<10	56					
B003231		<0.01	<10	<10	14	<10	116					
B003232		<0.01	<10	<10	24	<10	56					
B003233		<0.01	<10	<10	41	<10	56					
B003234		<0.01	<10	<10	48	<10	48					
B003235		<0.01	<10	<10	42	<10	43					
B003236		<0.01	<10	<10	57	<10	42					
B003237		<0.01	<10	<10	42	<10	31					
B003238		<0.01	<10	<10	30	<10	22					
B003239		<0.01	<10	<10	57	<10	35					
B003240		<0.01	<10	<10	51	<10	33					
B003241		<0.01	<10	<10	53	<10	35					
B003242		<0.01	<10	<10	24	<10	21					
B003243		<0.01	<10	<10	35	<10	30					
B003244		<0.01	<10	<10	17	<10	564					
B003245		<0.01	<10	<10	29	<10	32					
B003246		<0.01	<10	<10	19	<10	21					
B003247		<0.01	<10	<10	29	<10	31					
B003248		<0.01	<10	<10	24	<10	22					
B003249		<0.01	<10	<10	30	<10	23					
B003250		<0.01	<10	<10	32	<10	24					
B003251		<0.01	<10	<10	23	<10	20					
B003252		<0.01	<10	<10	23	<10	21					

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 4 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 3-DEC-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.01	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01
B003253		2.98	0.01	<0.2	1.60	144	<10	100	<0.5	2	2.22	<0.5	18	130	58	3.06
B003254		2.18	0.01	<0.2	2.02	110	<10	80	<0.5	4	1.95	<0.5	16	129	68	3.09
B003255		1.76	<0.01	<0.2	2.23	57	<10	40	<0.5	3	2.55	<0.5	20	102	27	3.67
B003256		1.76	<0.01	<0.2	1.82	31	<10	60	<0.5	6	1.79	<0.5	23	70	10	4.77
B003257		0.50	<0.01	<0.2	1.22	31	<10	40	<0.5	7	2.61	<0.5	17	62	20	5.76
B003258		3.00	0.01	<0.2	1.86	33	<10	80	<0.5	3	1.78	<0.5	17	85	17	4.60
B003259		1.92	0.01	0.2	1.84	33	<10	70	<0.5	3	1.92	0.5	15	109	20	3.56
B003260		1.48	<0.01	0.6	1.62	40	<10	80	<0.5	5	0.61	2.0	22	64	31	4.09
B003261		0.98	<0.01	0.3	1.50	44	<10	50	<0.5	3	2.60	1.6	16	38	48	4.06
B003262		0.96	<0.01	0.2	1.56	23	<10	80	<0.5	4	2.87	1.2	15	13	64	4.13
B003263		0.62	<0.01	0.2	1.46	26	<10	70	<0.5	4	2.67	1.2	17	20	36	4.16
B003264		0.92	<0.01	0.3	1.52	20	<10	70	<0.5	5	2.16	1.1	13	16	49	3.48
B003265		0.88	0.02	0.6	1.31	40	<10	60	<0.5	8	1.66	2.7	18	37	16	5.03
B003266		0.40	<0.01	0.2	0.59	2	<10	110	<0.5	<2	1.52	<0.5	3	15	15	1.54
B003267		1.46	<0.01	0.2	1.18	81	<10	40	<0.5	3	2.69	0.7	13	149	27	2.38
B003268		2.44	<0.01	0.3	1.69	43	<10	80	<0.5	5	0.97	0.6	23	124	24	4.93
B003269		1.38	<0.01	0.2	2.08	63	<10	60	<0.5	2	0.89	<0.5	18	160	42	3.15
B003270		2.08	<0.01	0.3	2.59	81	<10	70	<0.5	5	1.34	<0.5	24	169	75	3.80
B003271		2.08	<0.01	0.8	1.88	59	<10	70	<0.5	6	1.24	0.9	18	104	86	4.40
B003272		2.84	0.01	1.2	2.17	31	<10	60	<0.5	11	0.83	1.4	25	51	31	5.93
B003273		2.14	<0.01	0.4	2.46	39	<10	80	<0.5	11	1.74	1.0	26	71	41	5.27
B003274		1.94	0.01	0.5	2.61	67	<10	70	<0.5	6	0.52	<0.5	29	115	60	4.55
B003275		1.96	<0.01	0.6	1.94	106	<10	70	<0.5	6	0.87	0.6	25	134	84	4.27
B003276		1.24	0.01	1.1	1.43	74	<10	70	<0.5	7	1.16	1.8	18	98	93	4.47
B003277		1.08	<0.01	1.3	1.30	81	<10	60	<0.5	7	1.31	2.1	20	106	125	4.41
B003278		2.88	<0.01	0.3	1.64	50	<10	80	<0.5	4	0.87	0.7	17	136	48	3.47
B003279		1.10	<0.01	0.2	1.10	47	<10	70	<0.5	7	1.52	0.5	24	79	25	4.61
B003280		1.14	0.01	0.2	1.10	45	<10	70	<0.5	5	0.43	<0.5	22	95	46	3.89
B003281		1.14	0.01	0.5	0.97	56	<10	60	<0.5	7	0.94	2.0	24	77	46	4.37
B003282		0.88	0.01	0.2	1.97	44	<10	70	<0.5	5	0.46	0.8	25	74	30	4.67
B003283		1.22	0.01	0.3	1.58	53	<10	70	<0.5	6	0.42	<0.5	27	88	33	5.19
B003284		0.52	0.01	0.3	1.24	46	<10	60	<0.5	6	0.21	<0.5	29	82	18	5.75
B003285		0.94	0.03	7.2	1.13	66	<10	50	<0.5	12	1.32	49.6	28	66	85	5.19
B003286		2.34	0.01	0.5	1.79	50	<10	80	<0.5	5	1.08	0.9	20	116	44	4.47
B003287		2.24	<0.01	2.4	0.33	45	<10	30	<0.5	12	0.33	3.9	10	26	72	3.25
B003288		2.34	0.01	3.4	0.48	108	<10	40	<0.5	<2	0.21	13.2	9	14	62	3.50
B003289		2.20	0.01	6.7	0.45	163	<10	30	<0.5	2	0.22	35.0	7	26	94	3.22
B003290		2.38	0.02	9.9	0.38	172	<10	40	<0.5	11	0.16	15.2	8	13	214	3.93
B003291		2.58	0.01	9.9	0.44	136	<10	70	<0.5	9	0.18	15.2	9	25	207	3.68
B003292		2.42	0.04	6.5	0.32	119	<10	50	<0.5	9	0.22	8.0	10	17	128	4.84

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 4 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
B003253		<10	1	0.15	<10	1.76	1340	1	<0.01	161	600	5	2.90	10	4	134
B003254		<10	<1	0.09	<10	2.03	853	<1	<0.01	130	570	6	2.83	14	3	110
B003255		<10	2	0.16	<10	2.12	919	1	<0.01	138	690	11	3.69	3	4	106
B003256		<10	2	0.20	<10	1.58	801	2	<0.01	165	710	29	5.10	2	4	102
B003257		<10	<1	0.18	<10	1.60	1085	1	<0.01	136	530	83	6.25	3	3	118
B003258		<10	2	0.15	<10	1.62	882	<1	<0.01	150	570	38	4.93	3	4	94
B003259		<10	2	0.13	<10	1.70	1215	2	<0.01	127	490	90	3.88	4	4	96
B003260		<10	1	0.18	<10	1.21	747	3	<0.01	170	630	297	4.39	9	3	60
B003261		<10	<1	0.20	<10	1.96	2420	1	<0.01	102	730	258	4.54	10	3	168
B003262		<10	<1	0.19	<10	2.10	2250	1	<0.01	62	620	142	4.62	13	3	221
B003263		<10	<1	0.18	<10	1.84	1855	2	<0.01	69	850	136	4.62	9	3	211
B003264		<10	1	0.15	<10	1.72	1585	1	<0.01	55	780	137	3.80	12	3	154
B003265		<10	1	0.19	<10	1.25	1325	1	<0.01	150	610	330	5.58	3	3	130
B003266		<10	<1	0.27	20	0.11	563	<1	0.02	2	670	11	0.02	<2	1	48
B003267		<10	<1	0.08	<10	1.67	2020	<1	<0.01	180	480	102	2.48	5	4	116
B003268		<10	1	0.14	<10	1.40	717	1	<0.01	220	620	112	5.20	4	4	78
B003269		<10	<1	0.08	<10	2.03	705	1	<0.01	178	500	16	3.02	11	4	63
B003270		<10	1	0.11	<10	2.62	1020	1	<0.01	229	700	29	3.77	17	5	77
B003271		<10	2	0.17	<10	1.87	1285	2	<0.01	187	610	87	4.63	20	4	71
B003272		<10	1	0.21	<10	1.78	937	1	<0.01	163	760	197	6.26	6	5	77
B003273		<10	1	0.20	<10	2.47	1935	2	<0.01	154	900	132	5.48	4	5	124
B003274		10	<1	0.16	<10	2.55	1015	2	<0.01	182	840	38	4.27	15	7	67
B003275		<10	1	0.15	<10	2.05	872	1	<0.01	218	690	64	4.10	23	5	121
B003276		<10	1	0.16	<10	1.50	1065	2	<0.01	215	590	225	4.59	32	4	114
B003277		<10	1	0.16	<10	1.44	1090	3	<0.01	222	550	246	4.62	49	3	124
B003278		<10	<1	0.13	<10	1.70	1090	1	<0.01	184	570	78	3.39	17	4	81
B003279		<10	<1	0.18	<10	1.06	774	2	<0.01	241	660	78	4.97	9	3	160
B003280		<10	<1	0.16	<10	0.66	319	2	<0.01	208	610	62	4.02	13	3	57
B003281		<10	<1	0.19	<10	0.87	840	3	<0.01	236	510	300	4.69	13	2	94
B003282		<10	1	0.21	<10	1.60	805	1	<0.01	208	900	78	4.83	2	4	55
B003283		<10	<1	0.20	<10	1.22	629	2	<0.01	235	810	84	5.42	8	3	51
B003284		<10	2	0.19	<10	0.87	405	1	<0.01	258	590	65	5.98	8	3	41
B003285		<10	2	0.21	<10	1.13	1305	4	<0.01	239	630	6150	5.98	20	3	116
B003286		<10	2	0.16	<10	1.60	1045	1	<0.01	190	630	114	4.54	8	4	69
B003287		<10	<1	0.10	<10	0.03	70	2	<0.01	11	950	154	3.40	6	1	492
B003288		<10	<1	0.20	<10	0.04	99	3	<0.01	22	610	1500	3.61	12	1	557
B003289		<10	<1	0.19	<10	0.03	118	5	<0.01	7	680	2600	3.42	14	1	182
B003290		<10	<1	0.15	<10	0.02	45	5	0.03	9	470	1050	4.00	59	1	136
B003291		<10	<1	0.20	<10	0.02	22	3	0.04	8	560	1025	3.78	51	1	114
B003292		<10	<1	0.11	<10	0.01	44	3	0.03	29	760	461	4.86	29	1	73

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 4 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		TI	TI	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	% 0.01	ppm 0.05	ppm 5
B003253		<0.01	<10	<10	33	<10	35					
B003254		<0.01	<10	<10	37	<10	41					
B003255		<0.01	<10	<10	44	<10	39					
B003256		<0.01	<10	<10	36	<10	31					
B003257		<0.01	<10	<10	25	<10	29					
B003258		<0.01	<10	<10	31	<10	42					
B003259		<0.01	<10	<10	38	<10	94					
B003260		<0.01	<10	<10	29	<10	345					
B003261		<0.01	<10	<10	27	<10	261					
B003262		<0.01	10	<10	20	<10	192					
B003263		<0.01	<10	<10	23	<10	191					
B003264		<0.01	<10	<10	20	<10	174					
B003265		<0.01	<10	<10	18	<10	375					
B003266		0.02	<10	<10	18	<10	32					
B003267		<0.01	<10	<10	30	<10	131					
B003268		<0.01	<10	<10	35	<10	100					
B003269		<0.01	<10	<10	48	<10	59					
B003270		<0.01	<10	<10	56	<10	80					
B003271		<0.01	<10	<10	33	<10	117					
B003272		<0.01	<10	<10	38	<10	204					
B003273		<0.01	<10	<10	47	<10	179					
B003274		<0.01	<10	<10	77	<10	129					
B003275		<0.01	10	<10	62	<10	154					
B003276		<0.01	<10	<10	36	<10	291					
B003277		<0.01	<10	<10	32	<10	345					
B003278		<0.01	<10	<10	40	<10	154					
B003279		<0.01	<10	<10	22	<10	88					
B003280		<0.01	<10	<10	24	<10	36					
B003281		<0.01	<10	<10	18	<10	289					
B003282		<0.01	<10	<10	41	<10	123					
B003283		<0.01	10	<10	34	<10	58					
B003284		<0.01	<10	<10	30	<10	63					
B003285		<0.01	<10	<10	27	<10	6180					
B003286		<0.01	<10	<10	40	<10	143					
B003287		<0.01	<10	<10	4	<10	389					
B003288		<0.01	<10	<10	5	<10	1780					
B003289		<0.01	<10	<10	4	<10	4250					
B003290		<0.01	<10	<10	4	<10	1600					
B003291		<0.01	<10	<10	5	<10	1655					
B003292		<0.01	<10	<10	4	<10	850					

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 5 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 3-DEC-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B003293		0.18	0.14	73.3	0.34	671	<10	30	<0.5	9	0.10	14.0	9	57	2630	9.40
B003294		0.68	0.04	15.7	0.40	183	<10	20	<0.5	14	0.17	12.5	9	17	412	4.49
B003295		1.84	0.02	12.1	0.43	157	<10	30	<0.5	6	0.27	28.1	8	26	265	3.68
B003296		2.14	0.02	1.2	0.43	126	<10	20	<0.5	<2	0.35	1.2	10	16	20	3.57
B003297		0.08	0.90	>100	0.59	4850	<10	30	<0.5	6	0.59	104.5	6	57	301	6.51
B003298		2.26	0.01	0.7	0.81	235	<10	90	0.5	<2	0.44	<0.5	10	30	22	3.51
B003299		2.44	0.01	0.6	1.24	198	<10	110	0.6	2	0.39	0.7	11	13	18	3.56
B003300		1.22	0.10	4.0	0.47	265	<10	40	<0.5	<2	0.29	12.6	9	25	61	3.16
B003301		1.92	0.07	11.2	0.40	232	<10	30	<0.5	7	0.18	22.2	11	18	303	4.75
B003302		1.66	0.07	4.8	0.39	235	<10	90	<0.5	4	0.26	5.8	9	28	101	2.66
B003303		1.84	0.09	26.5	0.23	414	<10	50	<0.5	4	0.19	8.7	9	20	875	3.75
B003304		0.24	5.41	>100	0.22	7050	<10	<10	<0.5	169	0.26	106.0	7	47	>10000	23.4
B003305		1.54	0.05	7.0	0.16	201	<10	60	<0.5	4	0.09	1.9	9	25	392	3.56
B003306		0.38	0.02	3.4	0.11	123	<10	20	<0.5	3	0.02	2.0	8	54	129	3.28
B003307		0.34	0.01	1.0	0.10	113	<10	20	<0.5	<2	0.02	2.0	9	25	51	3.41
B003308		0.50	0.01	1.0	0.13	71	<10	10	<0.5	2	0.07	3.7	7	51	83	2.90
B003309		0.38	0.37	17.3	0.11	706	<10	10	<0.5	15	0.03	5.2	17	33	3920	24.1
B003310		2.28	0.02	1.1	0.13	87	<10	10	<0.5	2	0.02	1.7	6	50	54	2.82
B003311		0.32	0.26	18.0	0.15	262	<10	10	<0.5	28	0.02	52.2	10	25	524	10.90
B003312		0.92	0.02	2.0	0.16	174	<10	10	<0.5	10	0.02	1.8	8	33	74	4.17
B003313		1.90	0.06	4.7	0.19	260	<10	10	<0.5	4	0.02	7.1	9	22	424	4.58
B003314		0.96	0.03	8.3	0.39	180	<10	60	<0.5	<2	0.10	48.8	8	25	66	3.50
B003315		1.94	0.01	2.0	0.47	129	<10	70	<0.5	<2	0.22	4.5	8	13	19	3.35
B003316		0.08	1.53	>100	0.41	4730	<10	30	<0.5	9	0.87	>500	5	59	841	7.13
B003317		1.76	0.01	3.1	0.54	128	<10	80	<0.5	<2	0.30	13.4	8	28	28	3.49
B003318		1.10	0.03	34.8	0.28	138	<10	40	<0.5	3	0.07	119.0	8	16	162	3.80
B003319		1.24	0.05	6.8	0.13	194	<10	10	<0.5	22	0.03	4.9	8	38	301	5.15
B003320		1.82	0.18	28.8	0.13	1435	<10	10	<0.5	99	0.03	3.8	8	33	4240	9.73
B003321		0.50	0.01	0.4	0.11	61	<10	10	<0.5	<2	0.04	0.5	8	44	31	3.78
B003322		0.46	0.01	0.6	0.11	65	<10	10	<0.5	3	0.03	0.7	8	26	39	3.86
B003323		2.08	0.04	3.4	0.12	142	<10	10	<0.5	14	0.05	1.4	8	45	327	4.67
B003324		0.46	0.55	>100	0.13	2560	<10	10	<0.5	113	0.02	65.6	10	26	8710	19.4
B003325		2.08	<0.01	0.6	0.11	54	<10	10	<0.5	2	0.04	0.6	8	36	17	3.53
B003326		0.46	0.03	3.4	0.15	133	<10	10	<0.5	7	0.05	0.9	12	30	351	8.48
B003327		1.68	0.01	0.6	0.11	81	<10	10	<0.5	3	0.06	<0.5	8	31	40	3.94
B003328		1.80	0.01	0.9	0.12	157	<10	<10	<0.5	4	0.04	<0.5	9	19	32	4.37
B003329		0.20	<0.01	<0.2	0.56	3	<10	120	<0.5	<2	1.60	<0.5	3	28	17	1.57
B003330		0.30	0.13	2.0	0.12	496	<10	10	<0.5	8	0.05	1.1	17	23	312	15.2
B003331		1.10	0.05	0.7	0.11	224	<10	10	<0.5	5	0.04	<0.5	10	31	18	4.63
B003332		1.08	0.03	0.9	0.11	190	<10	10	<0.5	6	0.04	0.5	9	21	24	4.54

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.





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**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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Page: 5 - B  
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	NI	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
B003293	<10	<1	0.10	<10	0.02	49	2	0.03	25	220	3710	9.63	659	1	64	
B003294	<10	<1	0.15	<10	0.02	76	4	0.04	23	390	833	4.54	110	1	102	
B003295	<10	<1	0.19	<10	0.02	68	1	0.03	29	950	1980	3.88	77	1	81	
B003296	<10	<1	0.19	<10	0.08	4950	19	0.02	46	680	184	3.40	5	1	244	
B003297	<10	1	0.35	10	0.11	320	2	0.02	7	690	5210	6.86	1605	1	132	
B003298	<10	<1	0.20	<10	0.30	9680	2	0.03	18	870	38	2.76	6	2	102	
B003299	<10	<1	0.18	<10	0.54	>10000	1	0.03	10	920	26	1.71	6	3	89	
B003300	<10	<1	0.18	<10	0.04	271	2	0.03	15	790	630	3.23	14	1	136	
B003301	<10	<1	0.17	<10	0.02	435	2	0.02	25	580	1300	4.82	73	1	81	
B003302	<10	<1	0.14	<10	0.02	113	1	0.02	8	930	537	2.69	19	1	88	
B003303	<10	<1	0.06	<10	0.01	91	1	0.01	6	760	391	3.78	206	1	84	
B003304	20	3	0.07	<10	<0.01	148	1	<0.01	9	1160	3090	>10.0	6570	1	95	
B003305	<10	<1	0.03	<10	<0.01	52	1	<0.01	6	350	90	3.53	87	<1	59	
B003306	<10	<1	0.01	<10	<0.01	21	1	0.01	8	100	24	3.42	29	<1	35	
B003307	<10	<1	0.01	<10	<0.01	22	1	0.01	7	60	12	3.54	10	<1	34	
B003308	<10	<1	0.01	<10	<0.01	33	4	0.01	6	420	23	3.06	7	<1	44	
B003309	<10	1	0.01	<10	<0.01	41	5	0.01	18	200	462	>10.0	234	<1	23	
B003310	<10	<1	0.01	<10	<0.01	12	2	0.01	5	130	46	2.94	6	<1	33	
B003311	<10	1	0.01	<10	<0.01	49	<1	0.01	10	300	2820	>10.0	90	1	27	
B003312	<10	<1	0.02	<10	<0.01	18	<1	<0.01	10	220	140	4.11	14	1	26	
B003313	<10	<1	0.02	<10	<0.01	28	<1	<0.01	18	230	264	4.51	70	1	26	
B003314	<10	<1	0.16	<10	0.02	91	<1	<0.01	15	490	2280	3.72	17	1	38	
B003315	<10	<1	0.19	<10	0.03	105	<1	<0.01	12	760	597	3.35	7	1	41	
B003316	<10	3	0.26	10	0.26	399	1	0.01	7	570	>10000	8.42	2390	1	104	
B003317	<10	<1	0.22	<10	0.03	193	1	0.01	18	1160	1140	3.58	12	1	61	
B003318	<10	<1	0.11	<10	0.01	120	<1	<0.01	13	190	5180	4.41	47	2	34	
B003319	<10	<1	0.02	<10	<0.01	30	2	<0.01	16	100	176	5.09	67	1	31	
B003320	<10	<1	0.01	<10	<0.01	34	1	<0.01	17	90	287	9.85	789	<1	33	
B003321	<10	<1	0.01	<10	<0.01	26	1	<0.01	14	130	27	3.74	5	<1	32	
B003322	<10	<1	0.01	<10	<0.01	26	1	<0.01	16	70	28	3.78	7	<1	27	
B003323	<10	<1	0.01	<10	<0.01	33	5	<0.01	17	160	84	4.68	67	<1	31	
B003324	<10	1	0.02	<10	<0.01	49	2	<0.01	15	30	833	>10.0	2100	1	23	
B003325	<10	<1	0.01	<10	<0.01	29	2	<0.01	22	140	38	3.50	6	<1	29	
B003326	<10	<1	0.01	<10	<0.01	48	5	<0.01	44	170	55	8.60	53	<1	33	
B003327	<10	<1	0.01	<10	<0.01	36	5	<0.01	10	210	22	3.90	12	1	30	
B003328	<10	<1	0.01	<10	<0.01	37	5	<0.01	8	100	36	4.28	8	1	28	
B003329	<10	<1	0.29	20	0.09	565	1	0.03	2	680	12	0.04	<2	1	47	
B003330	<10	<1	0.02	<10	<0.01	61	1	<0.01	26	160	108	>10.0	20	1	37	
B003331	<10	<1	0.01	<10	<0.01	42	2	<0.01	7	100	75	4.58	7	1	29	
B003332	<10	<1	0.01	<10	<0.01	50	2	<0.01	8	110	87	4.44	9	1	28	

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
700-700 W PENDER ST  
VANCOUVER BC V6C 1G8

Page: 5 - C  
Total # Pages: 6 (A - C)  
Finalized Date: 3-DEC-2004  
Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		TI	TI	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01	% 0.01	% 0.01	ppm 0.05	ppm 5
B003293		<0.01	<10	<10	3	<10	1050					
B003294		<0.01	<10	<10	4	<10	1090					
B003295		<0.01	<10	<10	5	<10	3440					
B003296		<0.01	<10	<10	6	<10	321					
B003297		<0.01	<10	<10	6	<10	>10000			1.28		148
B003298		<0.01	10	<10	13	<10	174					
B003299		<0.01	10	<10	21	<10	349					
B003300		<0.01	<10	<10	6	<10	1540					
B003301		<0.01	<10	<10	5	<10	2260					
B003302		<0.01	<10	<10	4	<10	686					
B003303		<0.01	<10	<10	2	<10	813					
B003304		<0.01	<10	<10	2	<10	7450	2.81			5.15	704
B003305		<0.01	<10	<10	1	<10	538					
B003306		<0.01	<10	<10	2	<10	221					
B003307		<0.01	<10	<10	1	<10	323					
B003308		<0.01	<10	<10	2	<10	659					
B003309		<0.01	<10	<10	2	<10	2770					
B003310		<0.01	<10	<10	1	<10	318					
B003311		<0.01	<10	<10	3	<10	6340					
B003312		<0.01	<10	<10	1	<10	151					
B003313		<0.01	<10	<10	2	<10	664					
B003314		<0.01	<10	<10	4	<10	5340					
B003315		<0.01	<10	<10	4	<10	863					
B003316		<0.01	<10	<10	5	10	>10000		2.01	3.63	NSS	319
B003317		<0.01	<10	<10	5	<10	1990					
B003318		<0.01	<10	<10	3	<10	>10000			1.30		
B003319		<0.01	<10	<10	2	<10	493					
B003320		<0.01	<10	<10	1	<10	765					
B003321		<0.01	<10	<10	1	<10	254					
B003322		<0.01	<10	<10	1	<10	317					
B003323		<0.01	<10	<10	1	<10	1680					
B003324		<0.01	<10	<10	<1	<10	5890					113
B003325		<0.01	<10	<10	1	<10	439					
B003326		<0.01	<10	<10	2	<10	1545					
B003327		<0.01	<10	<10	2	<10	120					
B003328		<0.01	<10	<10	2	<10	77					
B003329		0.02	<10	<10	18	<10	37					
B003330		<0.01	<10	<10	<1	<10	1920					
B003331		<0.01	<10	<10	2	<10	39					
B003332		<0.01	<10	<10	2	<10	38					

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 6 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

Project: Thorn

## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B003333		1.46	0.04	1.0	0.12	219	<10	10	<0.5	4	0.04	0.5	9	36	19	4.35
B003334		1.62	0.16	4.0	0.17	139	<10	20	<0.5	16	0.13	1.4	13	27	662	16.2
B003335		1.42	0.09	4.0	0.17	107	<10	20	<0.5	11	0.18	1.2	12	52	514	13.7
B003336		3.40	0.02	2.5	0.24	178	<10	40	<0.5	3	0.12	2.2	9	18	43	4.21
B003337		3.18	0.02	2.0	0.13	106	<10	10	<0.5	2	0.13	<0.5	10	38	74	5.95
B003338		0.98	0.05	2.1	0.13	119	<10	10	<0.5	3	0.15	<0.5	8	24	98	5.70
B003339		0.76	0.44	13.6	0.17	367	<10	10	<0.5	16	0.14	1.6	13	48	1290	22.3
B003340		2.32	0.02	2.8	0.16	49	<10	40	<0.5	4	0.16	14.2	7	24	59	4.64
B003341		1.36	0.03	10.7	0.28	65	<10	50	<0.5	3	0.21	265	6	40	136	3.36
B003342		1.32	0.01	1.5	0.40	47	<10	70	<0.5	<2	0.26	6.3	5	16	11	3.14
B003343		0.90	0.09	2.2	0.45	466	<10	100	<0.5	<2	0.34	3.5	9	28	31	2.74
B003344		3.20	0.15	15.8	0.44	447	<10	40	<0.5	5	0.25	106.5	9	16	81	3.99
B003345		1.62	0.07	2.3	0.75	411	<10	100	<0.5	<2	0.41	2.3	9	24	22	3.04
B003346		0.58	0.18	6.1	0.51	381	<10	100	<0.5	<2	0.32	19.8	11	14	26	2.93
B003347		1.34	0.08	4.0	0.53	214	<10	80	<0.5	<2	0.32	26.2	11	33	17	3.40
B003348		0.86	0.07	2.4	0.72	370	<10	100	0.5	<2	0.43	1.0	9	14	32	2.83
B003349		0.48	0.13	10.0	0.61	426	<10	30	<0.5	<2	0.32	53.4	11	27	229	3.43
B003350		0.90	0.04	0.7	0.75	152	<10	140	<0.5	<2	1.76	0.5	9	14	14	2.56
B003351		0.82	0.04	1.0	0.53	308	<10	90	0.6	<2	1.36	1.7	6	29	18	2.66
B003352		0.40	0.50	20.4	0.40	328	<10	30	<0.5	5	1.72	46.3	5	20	251	4.44
B003353		0.98	0.04	2.1	0.70	311	<10	60	0.5	<2	1.34	8.2	6	32	40	2.72
B003354		1.18	0.02	0.4	0.41	135	<10	130	<0.5	<2	2.49	0.5	5	16	10	2.25
B003355		0.34	0.07	24.5	0.41	118	<10	100	<0.5	6	1.45	>500	3	42	292	1.94
B003356		1.36	0.04	0.7	0.48	184	<10	120	<0.5	<2	2.40	2.6	6	19	16	3.10
B003357		0.16	<0.01	0.3	0.60	2	<10	130	<0.5	<2	1.64	2.7	3	39	16	1.56
B003358		1.38	0.02	0.7	0.64	121	<10	40	<0.5	<2	2.48	1.5	8	15	20	3.30
B003359		0.92	0.01	1.1	0.57	99	<10	90	<0.5	<2	1.79	4.1	6	31	16	2.86
B003360		1.48	<0.01	0.3	0.65	88	<10	50	<0.5	2	3.22	0.6	5	12	9	3.20
278022		1.04	2.70	>100	0.41	668	<10	10	<0.5	102	0.01	0.8	5	60	934	13.30
278023		2.28	11.80	>100	0.05	1175	<10	<10	<0.5	170	<0.01	0.6	17	42	3510	28.1

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 6 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

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**CERTIFICATE OF ANALYSIS VA04081076**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
B003333		<10	<1	0.01	<10	<0.01	47	1	<0.01	8	130	73	4.30	7	1	35
B003334		<10	<1	0.02	<10	0.01	137	2	<0.01	17	580	228	>10.0	33	<1	74
B003335		<10	<1	0.02	<10	0.02	173	1	<0.01	14	810	172	>10.0	24	<1	76
B003336		<10	<1	0.07	<10	0.01	104	5	0.01	8	340	166	4.16	12	1	53
B003337		<10	<1	0.01	<10	<0.01	92	2	0.01	9	520	45	5.90	9	1	44
B003338		<10	<1	0.01	<10	<0.01	80	2	0.01	7	620	67	5.61	11	1	51
B003339		<10	<1	0.02	<10	<0.01	77	3	0.01	12	630	372	>10.0	94	<1	48
B003340		<10	<1	0.02	<10	<0.01	53	3	0.01	9	570	250	4.61	18	1	52
B003341		<10	1	0.11	<10	0.01	44	2	0.03	7	670	6220	4.36	43	1	70
B003342		<10	<1	0.20	<10	0.03	4420	3	0.03	5	850	1070	3.14	5	1	64
B003343		<10	<1	0.20	<10	0.02	35	2	0.06	8	1190	405	2.77	5	1	71
B003344		<10	1	0.19	<10	0.01	95	2	0.05	8	780	4930	4.52	13	2	75
B003345		<10	<1	0.19	10	0.30	>10000	1	0.05	5	980	372	2.35	4	3	61
B003346		<10	<1	0.21	10	0.03	165	1	0.07	9	1060	1915	3.14	2	1	74
B003347		<10	<1	0.22	10	0.05	1485	1	0.06	8	1060	2680	3.60	3	1	63
B003348		<10	<1	0.21	10	0.24	>10000	1	0.07	7	960	268	2.22	6	2	37
B003349		<10	<1	0.19	10	0.19	9000	<1	0.06	6	790	2700	3.29	52	2	45
B003350		<10	<1	0.18	10	0.38	6110	<1	0.07	4	860	144	2.22	4	2	122
B003351		<10	<1	0.19	20	0.40	7670	<1	0.07	2	900	234	2.19	3	2	61
B003352		<10	1	0.17	<10	0.44	6360	<1	0.05	1	740	5230	4.72	94	2	65
B003353		<10	<1	0.19	20	0.50	4570	<1	0.06	3	900	760	2.38	9	1	67
B003354		<10	<1	0.18	10	0.86	4870	<1	0.05	2	840	73	2.14	3	1	97
B003355		10	15	0.18	10	0.54	2230	<1	0.04	3	800	>10000	4.16	44	1	56
B003356		<10	<1	0.21	20	0.87	4190	1	0.05	3	890	280	3.09	5	1	76
B003357		<10	<1	0.33	20	0.09	551	1	0.04	2	700	229	0.06	2	1	48
B003358		<10	<1	0.20	20	0.90	4390	1	0.06	6	860	104	3.08	5	1	66
B003359		<10	<1	0.21	20	0.61	3240	4	0.04	4	810	382	2.76	3	1	48
B003360		<10	<1	0.20	20	1.02	5760	<1	0.07	2	800	92	3.23	7	1	87
278022		<10	2	0.17	10	0.03	1415	<1	0.03	9	400	141	7.85	383	1	18
278023		<10	<1	0.02	<10	<0.01	48	<1	0.01	29	<10	114	>10.0	666	<1	16

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: EQUITY ENGINEERING LTD.  
 700-700 W PENDER ST  
 VANCOUVER BC V6C 1G8

Page: 6 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 3-DEC-2004  
 Account: EIA

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## CERTIFICATE OF ANALYSIS VA04081076

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46	Pb-AA46	Zn-AA46	Au-GRA22	Ag-GRA22
		Tl	Tl	U	V	W	Zn	Cu	Pb	Zn	Au	Ag
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
		0.01	10	10	1	10	2	0.01	0.01	0.01	0.05	5
B003333		<0.01	<10	<10	2	<10	189					
B003334		<0.01	<10	<10	<1	<10	4440					
B003335		<0.01	<10	<10	<1	<10	5230					
B003336		<0.01	<10	<10	3	<10	229					
B003337		<0.01	<10	<10	2	<10	49					
B003338		<0.01	<10	<10	1	<10	24					
B003339		<0.01	<10	<10	<1	<10	57					
B003340		<0.01	<10	<10	2	<10	1045					
B003341		<0.01	<10	<10	2	<10	>10000			1.98		
B003342		<0.01	<10	<10	3	<10	1110					
B003343		<0.01	<10	<10	4	<10	379					
B003344		<0.01	<10	10	5	<10	>10000			1.05		
B003345		<0.01	10	10	14	<10	397					
B003346		<0.01	<10	<10	5	<10	4910					
B003347		<0.01	<10	<10	7	<10	4770					
B003348		<0.01	10	<10	18	<10	148					
B003349		<0.01	<10	<10	12	<10	5680					
B003350		<0.01	<10	<10	10	<10	120					
B003351		<0.01	<10	<10	13	<10	269					
B003352		<0.01	<10	<10	5	<10	5650					
B003353		<0.01	<10	<10	11	<10	899					
B003354		<0.01	<10	<10	5	<10	93					
B003355		<0.01	<10	<10	4	<10	>10000		2.01	5.83		
B003356		<0.01	<10	<10	5	<10	392					
B003357		0.02	<10	<10	18	<10	304					
B003358		<0.01	<10	<10	8	<10	239					
B003359		<0.01	<10	<10	10	<10	779					
B003360		<0.01	<10	<10	12	<10	99					
278022		<0.01	<10	<10	9	<10	74				2.83	173
278023		<0.01	<10	<10	3	<10	27				11.50	345

Comments: Highly mineralized samples may bias results for some elements NSS is non-sufficient sample.

**Appendix F: Quality Control / Quality**

**Assurance**

## QUALITY CONTROL / QUALITY ASSURANCE

### I Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were trucked to ALS Chemex Labs in North Vancouver. ALS Chemex reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

### II Blanks

Blanks are samples which are known to be barren of mineralization and are inserted into the sample stream to determine whether contamination has occurred after sample collection.

#### a. Blank Soil Samples

Four soil blanks were inserted into the sample sequence (approximately every 130<sup>th</sup> sample) and submitted for analysis. The blank material comprised visually homogenous till sands collected from the property and thought to be unmineralised. No previous analysis of this material had taken place. Blanks were inserted into the sample series in the field.

Sample	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
Blank 1	<b>20</b>	0.2	60	<2	<b>100</b>	1	18	<b>6</b>	108
Blank 2	<5	0.2	58	<2	<b>109</b>	1	20	5	107
Blank A	<b>23</b>	0.2	65	<2	<b>122</b>	1	21	<b>6</b>	<b>123</b>
Blank B	7	0.2	72	<2	<b>114</b>	1	22	<b>8</b>	<b>118</b>

**Bold** values are greater than the 50<sup>th</sup> percentile for the property.

Results of Thorn soil blanks indicate the material selected for analysis was largely suitable as blank material. Based on the soil blank analysis, it is possible that some contamination has occurred given the results for Cu, Sb, Zn and Au which returned values greater than the 50<sup>th</sup> percentile for the property. However, values exceeding the 50<sup>th</sup> percentile are notably uniform (with the exception of Au), indicating sample homogeneity and thus decreasing the likelihood of sample contamination. A greater range of results for Au probably indicates sample heterogeneity for this element, which is not considered unusual. Blanks 1 and 2 were from the same laboratory certificate, with Blanks A and B reported on a different certificate. Several internal ALS Chemex standards were analysed with these two sample batches and all fell within target levels for all elements. This was confirmed with the online ALS Chemex Webtrieve system that allows access to the laboratory standards. Thus, it is likely that the apparent discrepancies in field soil blank results are attributed to the composition of the material selected for 'blank' soils and not contamination. Pre-analysed, clean, homogeneous sands should be utilized for blank material in future sampling programs.

#### b. Drill Core Samples

Twenty-two rock blanks were inserted into the drill core sample sequence (approximately every 40<sup>th</sup> sample) and submitted for analysis. Two types of blank material were used in the 2004 drill program. Blank material was collected from:

1. mafic dyke exposed in the Oban zone during trenching in 2003; and
2. unaltered, unmineralised, undeformed subaerial volcanic rocks exposed in outcrop above the 2004 drill camp

As shown in the table below, the blanks returned consistently low results indicating that sample contamination was not widespread during collection and transport of the drill core samples.

Sample	Sample Type	Au ppm	Ag ppm	As ppm	Bi ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
2508	Dyke	<0.01	<0.2	52	<2	41	<1	8	20	154
2539	Dyke	<0.01	<0.2	49	<2	42	<1	8	17	251
2567	Dyke	<0.01	0.2	52	2	15	<1	30	8	98
2609	Dyke	<0.01	0.4	72	3	41	1	9	52	187
2659	Dyke	0.02	0.6	62	<2	57	1	13	54	145
2682	Dyke	<0.01	0.3	48	4	42	1	5	51	132
2814	Volcs	<0.01	<0.2	3	<2	13	1	8	<2	42
2850	Volcs	<0.01	<0.2	2	<2	12	1	11	<2	35
2884	Volcs	0.01	0.2	3	<2	22	1	13	<2	38
2918	Volcs	0.01	0.6	23	<2	77	1	18	10	37
2940	Volcs	<0.01	<0.2	6	<2	13	1	17	<2	41
2954	Volcs	<0.01	<0.2	4	<2	17	1	17	<2	43
2977	Volcs	<0.01	0.2	<2	<2	11	1	12	<2	37
3015	Volcs	<0.01	<0.2	5	<2	16	1	16	2	35
3055	Volcs	<0.01	0.2	<2	<2	18	1	14	<2	43
3077	Volcs	<0.01	0.7	23	<2	76	<1	13	6	32
3116	Volcs	<0.01	0.2	8	<2	23	1	12	<2	42
3176	Volcs	<0.01	<0.2	<2	<2	15	<1	11	<2	40
3204	Volcs	<0.01	<0.2	2	<2	13	<1	11	<2	36
3266	Volcs	<0.01	0.2	2	<2	15	<1	11	<2	32
3329	Volcs	<0.01	<0.2	3	<2	17	1	12	<2	37
3357	Volcs	<0.01	0.3	2	<2	16	1	229	2	304

### III Lab Duplicate Analysis

Lab duplicates are separate analyses of two portions of a prepared sample. They are used to measure the reproducibility of laboratory analyses. ALS Chemex Labs conducts duplicate analyses of random samples at varying frequencies depending on the particular sample preparation code. For example, the standard ICP analysis that was conducted on all samples (code ICP41) is run in batches of 40 samples—one of which will be duplicated. Other analyses, such as fire assays of Au or Ag, are run in larger batches with more frequent duplicates. Thompson and Howarth (1976, 1978) demonstrated that the analytical precision of a dataset can be estimated by duplicate analyses. They established a graphical representation of the precision that is effective for datasets of 10 to 50 samples:

#### a. Rock and Drill Core Samples

ALS Chemex's duplicate analysis program resulted in 70 duplicates of the ICP suite, 161 for Au, 36 for Ag, 19 for Cu, 27 for Pb and 40 for Zn.

All core and rock samples were prepared and analyzed using the same procedures and are comparable. The graphs, such as the one illustrated below, indicate that lab duplicates were reproducible at 20% precision.



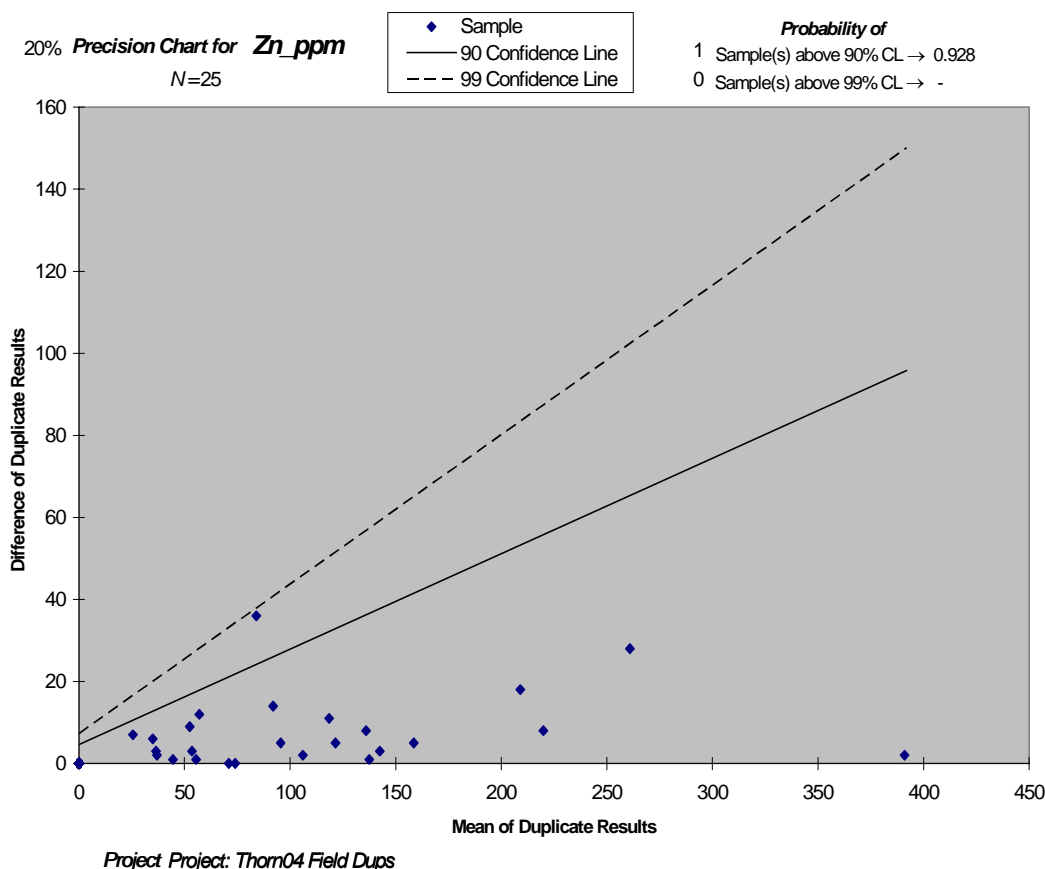


Chart 1: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=25 duplicate pairs). In this instance, the precision was set at 20%, and at this level within the given dataset, 1 sample falls above the 90th percentile line. From the binomial probability it can be read that at 20% precision, the probability of 1 sample out of 25 falling above the 90th percentile is 92.8%.

### b. Soil Samples

ALS Chemex's duplicate analysis program resulted in 37 duplicates for the ICP suite and 36 for Au only. All silt and soil samples were prepared and analyzed using the same procedures and are comparable. The graphs, such as the one illustrated above, show that all elements, apart from Pb, correlated very well between the duplicate pairs, with none exceeding the 90th percentile line at 20% precision. The analysis for Pb was shown to be reproducible at 30% precision.

## IV Field Duplicates

Field duplicates are collection and analysis of two separate samples from the same field location or core interval. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation.

### a. Soil Samples

A total of 25 field duplicate soil samples were collected (approximately every 20<sup>th</sup> sample) during the 2004 program and submitted for analysis. All the elements of interest exhibit consistency with 30% precision, with the exception of Sb and Zn which are reproducible at 20% precision. Au also showed precision at 20%. Awmack (2000) noted results with a higher variability and suggested, at least for Au, that these results may be due to particulate gold in soils. Results comparable to the 2000 data set were produced in 2003, with the 2004 data exhibiting a greater degree of reproducibility and confidence. Therefore, it is considered that the laboratory analysis conducted on the 2004 data set was accurate and precise.

### b. Drill Core Samples

Every 20th core sample was quartered, with the two quarters sent for individual analysis, resulting in 42 field duplicates. Results of the duplicate analysis indicate some variability, with the elements of interest being reproducible over a range of precision levels. At the 50% precision level Au and Sb were reproducible, with Pb reproducible at 60% precision. Other elements, such as As, indicated reproducibility at 70% precision, with Cu and Zn at 90% precision. When compared with results from the lab duplicate analysis, these data indicate that field duplicate sample variation is greater than that for the lab. The variation in analytical results between field duplicates is likely a result of variable amounts of sulphides between quartered core segments, especially given the style of mineralization on the property (e.g. coarse sulphides between breccia fragments in the Oban Zone and silicified veins with variable sulphide content).

### V Metallic Assays

The reject portions of 16 rock samples exceeding 10,000 ppb Au in initial geochemical analysis (1 in 2004; 1 in 2003; 8 in 2002 and 6 in 2000) were subjected to metallic (screen) assaying to determine whether coarse particulate gold is present and under-reported by conventional sample preparation. Particulate gold is malleable and flattened during the pulverization process; with the standard sample preparation, any coarse gold left on the screens is disregarded. The following table shows that only two samples (206814 and 206997), both from the Tamdhu Vein, demonstrated significant amounts of particulate gold. Despite their lack of coarse gold, several samples (206642, 206808, 206826 and 209603) suffered from a “nugget” effect, with >30% grade difference between the original and reject samples. Metallic assays on sample 626650, collected as part of the 2004 program, indicate minor coarse particulate Au in this sample, with the initial geochemical analysis representing accurate Au values.

Sample	Year	Initial Geochem (ppb)	Sample Weight (g)	+ Fraction Gold (mg)	- Fraction Assay (g/t)	Total Grade (g/t)	Increase in Grade <sup>1</sup>	Increase in Splits <sup>2</sup>
206607	2000	16065	450	0.31	18.79	19.48	4%	17%
206641	2000	51012	486	1.13	55.05	57.38	4%	8%
206642	2000	34436	471	0.34	17.83	18.55	4%	-48%
206808	2000	32813	477	0.91	22.23	24.14	9%	-32%
206814	2000	31423	510	4.47	13.37	22.13	66%	-57%
206826	2000	10234	480	0.07	4.01	4.1	2%	-61%
209602	2002	11989	520	< .01	13.57	13.57	0%	13%
209603	2002	19040	490	< .01	25.93	25.93	0%	36%
209618	2002	17027	492	< .01	20.39	20.39	0%	20%
209620	2002	9641	500	< .01	11.74	11.74	0%	22%
209623	2002	9446	518	< .01	10.45	10.45	0%	11%
L Zone	2002	12302	401	<.01	13	13	0%	6%
51201	2002	18510	306	<.01	15.65	15.65	0%	-15%
206997	2002	28633	466	4.35	10.87	20.2	86%	-62%
277705	2003	10350	958.9	0.153	11.05	10.9	0%	7%
626650	2004	263000	1088.5	7.97	263	269	2%	0%

<sup>1</sup>The total grade relative to the minus fraction assay.

<sup>2</sup>Comparison of the two splits: the minus fraction assay for the reject relative to the original geochemical analysis.

### VI Standards

To gauge the accuracy and consistency of analytical results, especially of higher grade samples, two standards were developed and used as part of the 2004 drill core sampling program. The standards (T101 and T102) consisted of material of known geochemistry developed from reject sample material from mineralized intersections of the Oban Zone. The standards were analysed by four laboratories to

obtain the final geochemical values given in the table below. Lloyd Twaites of Bernica Enterprises Ltd. oversaw the creation of this standard material.

<b>Standard</b>	<b>Au g/t</b>	<b>Ag g/t</b>	<b>Pb %</b>	<b>Zn %</b>	<b>As %</b>	<b>Sb %</b>
<b>T101</b>	0.87	153	0.52	1.32	0.43	0.20
<b>T102</b>	1.61	330	2.01	3.60	0.43	0.29

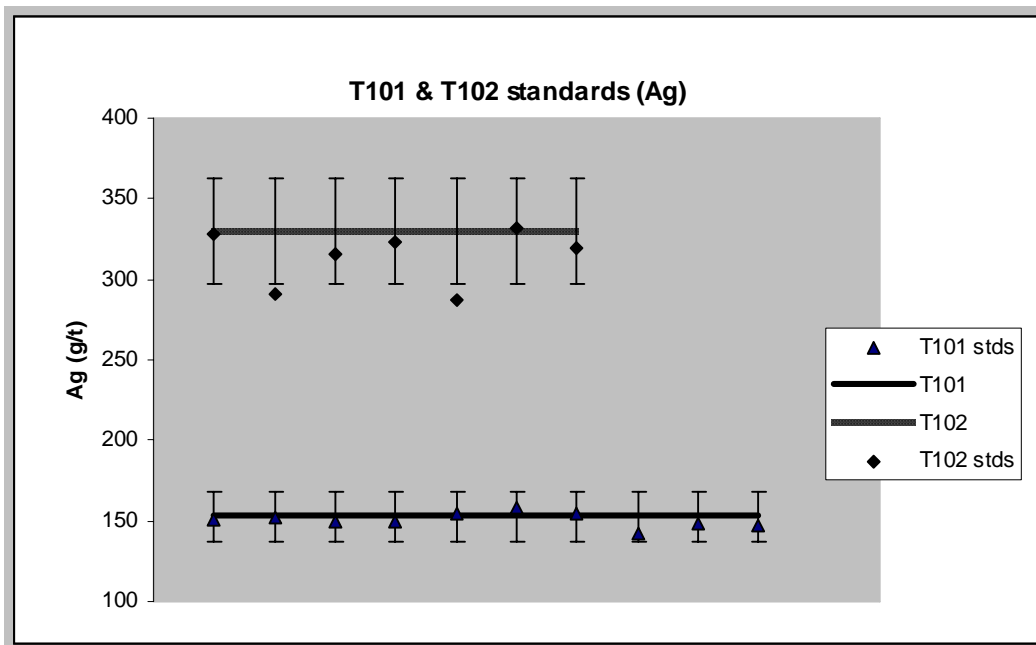
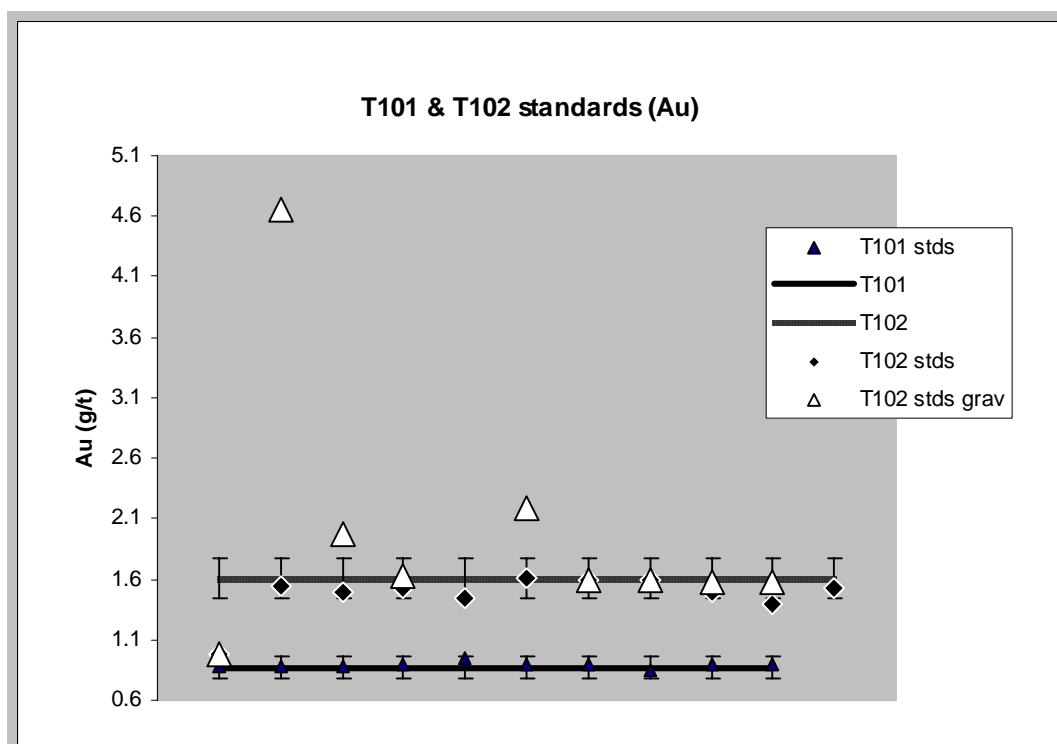
Standards T101 and T102 were alternately inserted into the drill core sample stream approximately every 40th sample and submitted for analysis. Results of the analyses were then compared to the above predetermined values. Analyses of both standards were within 10% of the known values for Pb and Zn whereas some consistent discrepancies are present for other elements.

Results for As were consistently higher than the known values but were generally within 10%. Results for Sb, in contrast were consistently lower than the known values and generally returned values greater than 10% lower.

Results for Au assays are complex (see plot below). Values using standard fire assay techniques, generally returned values slightly low but generally within 10% of the known value. Fire assay results for Au using a gravimetric finish, however, returned relatively erratic results.

The Ag assay used was a fire assay with gravimetric finish which returned values that are consistently low by 1–5% on average. This consistency may be linked with the low reported Sb values since silver may co-precipitate with Sb, although a 3% loss of Ag in cupellation can be expected in fire assays (L. Twaites, pers. comm.).

Standards are most applicable to determining that similar mineral assemblages are being correctly analyzed. The standards used in 2004 are pertinent in determining how well Oban-style boulangerite-sphalerite mineralization was assayed, but give less information on the quality of analyses for the high-sulphidation pyrite-enargite-tetrahedrite-pyrargyrite assemblage.



Charts 2 & 3: Comparison of Au and Ag results from standards T101 and T102 inserted into the drill core sample stream in 2004. Horizontal black lines show the known values of the standards and vertical error bars indicate a 10% range.

In conclusion, most standard analyses fall within 10% of the known values except the Au assays using the gravimetric finish. Some consistent discrepancies exist with Ag, Sb and As results but this is generally within 10% of the known values and is not considered significant.

## VII Conclusions

- There is no evidence of tampering with the samples between collection and laboratory.

- Laboratory preparation and analysis is reproducible at varied levels of precision, however it is considered that all elements attained an acceptable level of precision for rock and core samples.
- Assaying shows geochemical analysis to be reasonably accurate for Au, As and Zn, and for lower levels of Ag (<100 ppm), Cu (<10,000 ppm), Pb (<10,000 ppm) and Sb (<1000 ppm).
- Some field-based contamination of soil samples is implicated by blank soil samples that returned elevated Au, Cu and Zn. This problem appears to be a function of the material chosen for use as 'blank' soil, as no previous analysis had established the geochemical signature of this material. Therefore, it is impossible to determine if any contamination has.
- Coarse gold is present in at least some high-grade mineralization from the property, particularly the Tamdhu Vein; all samples exceeding 10,000 ppb Au should be tested by metallic (screen) assaying.
- Even without coarse gold, about half of the samples with >10,000 ppb Au showed significant (>30%) discrepancies between analyses of two splits. More extensive check assaying of rejects should be carried out in future programs.
- The addition of standards into the 2004 sampling program has highlighted some apparently erroneous reporting of results from high grade samples. Additional investigation into the reasons for these inaccuracies is required. If the focus of drilling switches from the Oban breccia, standards approximating the mineralogy of the main drill target should be used.

**Appendix H: Geologist's Certificate**

## GEOLOGIST'S CERTIFICATE

I, Darcy Baker, of 604/1633 West Eighth Avenue, Vancouver, in the province of British Columbia, DO HEREBY CERTIFY:

THAT I am a Geoscientist employed by Equity Engineering Ltd., with offices at #700-700 West Pender Street in the City of Vancouver, B.C., in the Province of British Columbia.

THAT I am a graduate of Dalhousie University (1997) with an Honours Bachelor of Science degree in Geology, and am a graduate of the University of Newcastle, Australia (2003) with a Doctor of Philosophy degree in Geology, and I have practiced my profession continuously since 1997.

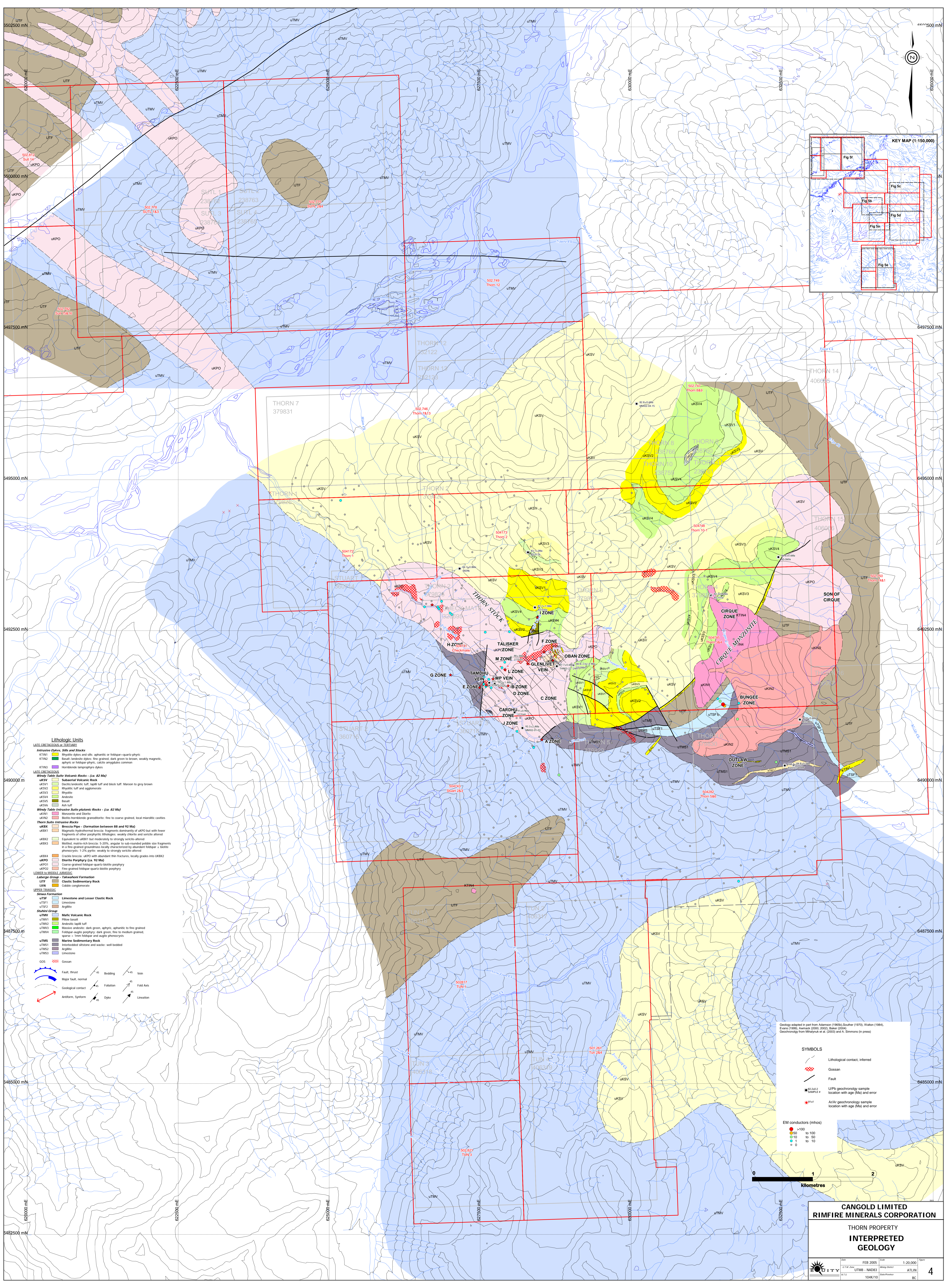
THAT I am presently a Consulting Geologist and have been so since May 2003.

THAT this report is based on fieldwork carried out by me or under my direction from June through November 2004, on publicly available reports and on historical data provided to me by previous operators of the Thorn property. I have examined the property in the field.

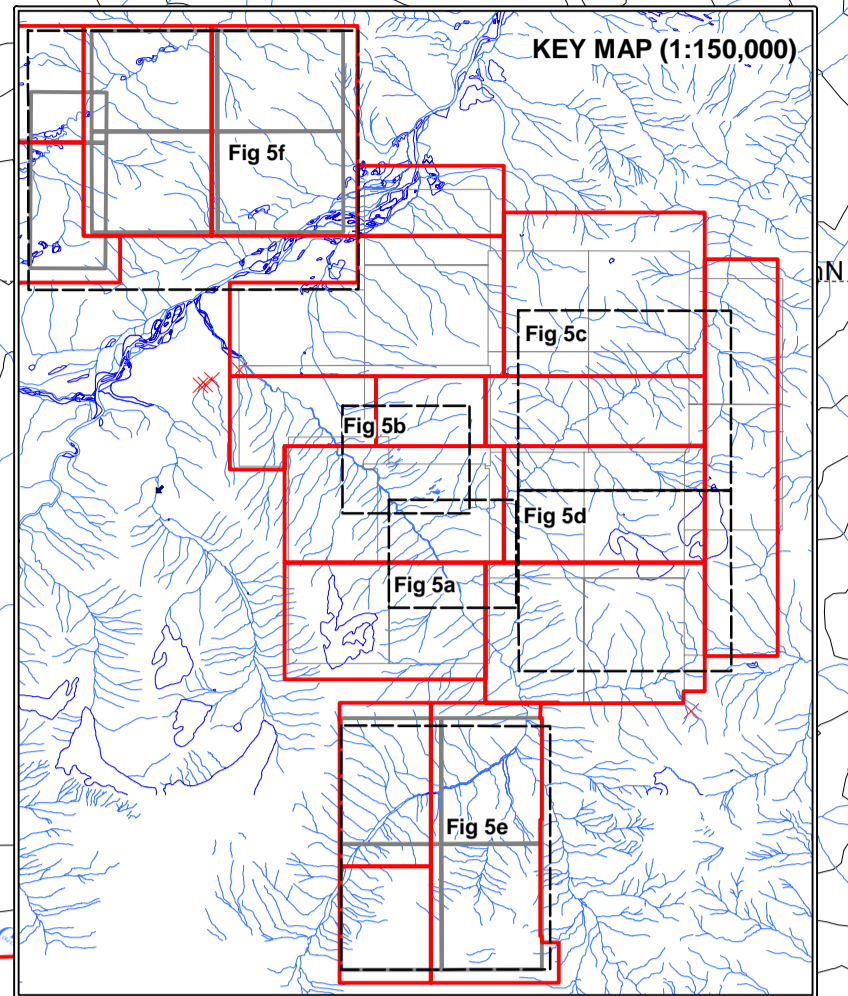
Dated at Vancouver, British Columbia, this \_\_\_\_ day of \_\_\_\_\_, 2005.

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Darcy Baker, Ph.D



- Lithologic Units**
- LATE CRETACEOUS (100-85 Ma)**
- Intrusive Dykes, Sills and Stocks**
    - KT1N1 Rhyolite dykes and sills; aphanitic or feldspar-quartz phytic
    - KT1N2 Basalt and basaltic dykes; fine grained, dark green to brown, weakly magnetic, aphyric or feldspar phytic; calcite amygdalae common
    - KT1N3 Hornblende lamprophyric dykes
- LATE CRETACEOUS**
- Windy Tote Suite Volcanic Rocks - (ca. 82 Ma)**
    - UKSV1 Diabase andesitic tuff, light tuff and block tuff; Maroon to grey brown
    - UKSV2 Rhyolite tuff and agglomerate
    - UKSV3 Rhyolite
    - UKSV4 Andesite
    - UKSV5 Basalt
    - UKSV6 Ash tuff
  - Windy Tote Suite Plutonic Rocks - (ca. 82 Ma)**
    - UKT1 Monzonite and Diorite
    - UKT2 Biotite hornblende granodiorite; fine to coarse grained, local micritic cavities
  - Thorn Suite Intrusive Rocks**
    - UKBX1 Breccia Pipe - (formation between 88 and 92 Ma)
    - UKBX2 Magnesian-quartziferous breccia; fragments of UKPO but with fewer fragments of other porphyritic lithologies; weakly chlorite and sericite altered
    - UKBX3 Equant to sub-equant breccia; strongly sericite altered
    - UKBX4 Matrix, matrix-rich breccia; 5-20%, angular to sub-rounded pebble size fragments in a fine grained groundmass; locally chlorite and sericite altered
    - UKBX5 Pheno-phitic; 1-2% phytic; weakly to strongly sericite altered
    - UKBX6 Crackle breccia; UKPO with abundant thin fractures, locally grades into UKBX2
    - UKBP0 Diabase Porphyry (ca. 92 Ma)
    - UKBP1 Coarse grained feldspar-quartz-biotite porphyry
    - UKBP2 Fine grained feldspar-quartz-biotite porphyry
  - LOWER CRETACEOUS (100-115 Ma)**
- Lakeview Group - Falasneah Formation**
- UTSF Clastic Sedimentary Rock
  - UTLH Cobble conglomerate
- LOWER TERTIARY**
- Stuvia Formation**
- UTSF Limestone and Lesser Clastic Rock
  - UTS1 Limestone
  - UTS2 Argillite
- Stuvia Group**
- UTMV1 Mafic Volcanic Rock
  - UTMV2 Pillow basalt
  - UTMV3 Basaltic andesite tuff
  - UTMV4 Massive andesite; dark green, aphyric, aphanitic to fine grained
  - UTMV5 Feldspar agglite porphyry; dark green, fine to medium grained, sparse < 1mm feldspar and augite phenocrysts
- UTMS Marine Sedimentary Rock**
- UTMS1 Interbedded siltstone and shale; well bedded
  - UTMS2 Argillite
  - UTMS3 Limestone
- Geological Symbols**
- Geological contact
  - Antiform, Synform
  - Fault, Thrust
  - Major fault, normal
  - Geological contact
  - Antiform, Synform
  - Bedding
  - Foliation
  - Vein
  - Fold Axis
  - Dike
  - Lamination



- SYMBOLS**
- Lithological contact, inferred
  - Gossan
  - U/Pb geochronology sample location with age (Ma) and error
  - Au/Ar geochronology sample location with age (Ma) and error
- EM conductors (mhos)**
- >100
  - 10 to 100
  - 10 to 50
  - 1 to 10
  - 0

Geology adapted in part from Adamson (1956), Southern (1970), Walton (1984), Evans (1999), Aarnack (2000, 2002), Baker (2004), Geochronology from Matherne et al. (2003) and A. Simmons (in press)

**CANGOLD LIMITED  
RIMFIRE MINERALS CORPORATION**

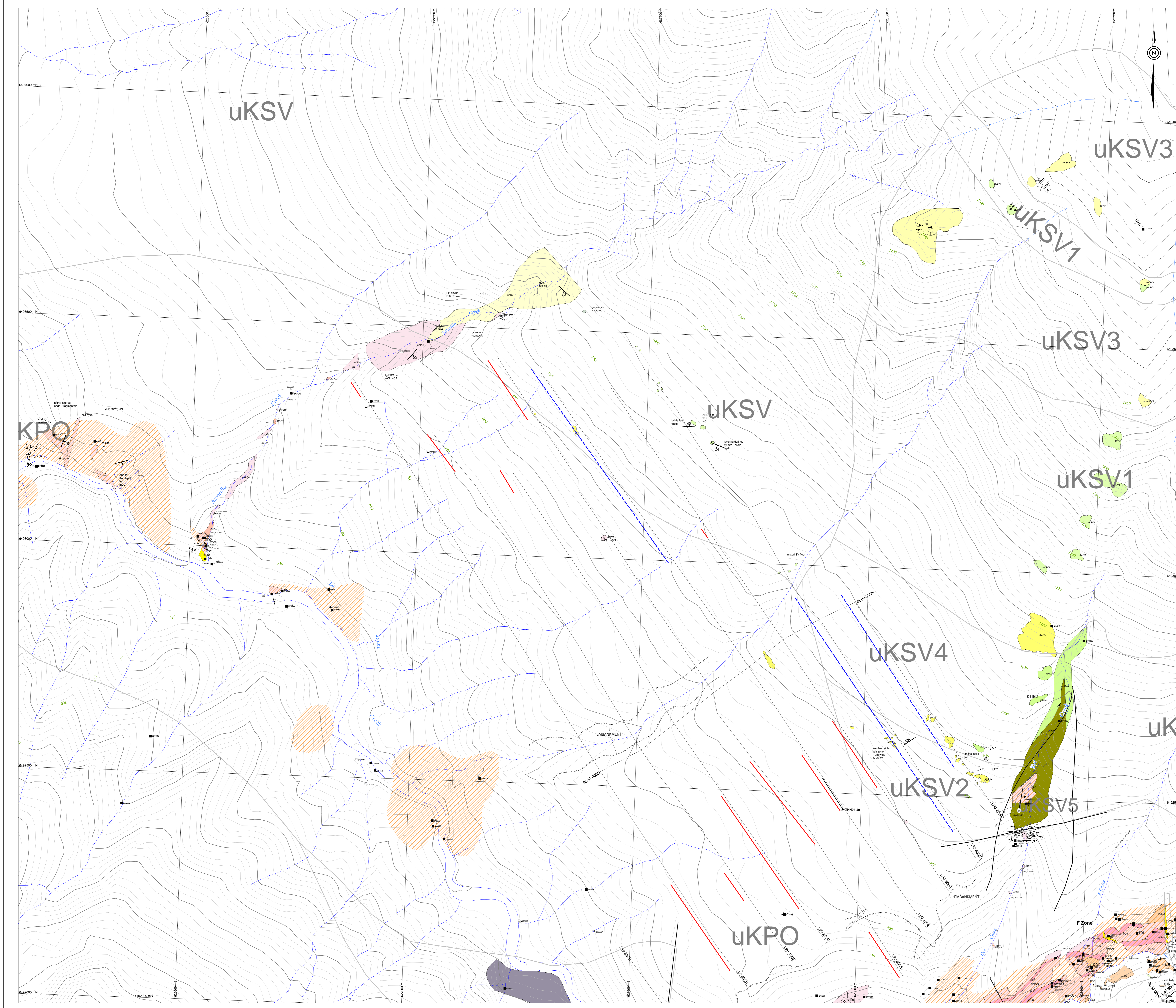
**THORN PROPERTY  
INTERPRETED  
GEOLOGY**

DATE: FEB 2005  
DRAWN BY: MARY DAVY  
CHECKED BY: ATILIN  
SCALE: 1:20,000  
SHEET: 104K/10  
PROJECT: BC

4







### ROCK SAMPLE RESULTS

SAMPLE	Ac. ppm	Ag. ppm	As. ppm	Au. ppm	Ba. ppm	Bi. ppm	Br. ppm	Cd. ppm	Co. ppm	Cu. ppm	Pb. ppm	Zn. ppm
15001	2.86	0.004	11.300	817	19.728	160.763	26.075					
20001	0.014	0.017	101	202	1.026	200	200					
20002	0.018	0.3	6	26	13	31	25					
20003	0.106	0.001	1	100	100	100	100					
20004	0.001	0.7	61	18	44	44	10					
20005	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20006	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20007	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20008	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20009	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20010	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20011	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20012	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20013	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20014	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20015	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20016	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20017	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20018	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20019	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20020	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20021	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20022	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20023	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20024	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20025	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20026	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20027	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20028	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20029	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20030	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20031	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20032	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20033	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20034	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20035	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20036	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20037	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20038	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20039	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20040	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20041	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20042	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20043	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20044	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20045	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20046	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20047	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20048	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20049	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20050	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20051	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20052	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20053	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20054	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20055	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20056	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20057	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20058	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20059	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20060	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20061	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20062	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20063	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20064	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20065	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20066	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20067	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20068	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20069	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20070	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20071	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20072	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20073	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20074	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20075	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20076	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20077	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20078	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20079	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20080	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20081	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20082	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20083	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20084	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20085	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20086	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20087	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20088	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20089	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20090	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20091	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20092	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20093	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20094	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20095	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20096	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20097	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20098	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20099	1.176	401.4	0.280	12.224	2.000	4.190	1.560					
20100	1.176	401.4	0.280	12.224	2.000	4.190	1.560					

### Lithologic Units

**Andesite Dikes, dykes and flows**

- KT101 Shallow dykes and sills, aphanitic or fibrous quartz aphyric
- KT102 Basalt andesite dykes, fine grained, dark grey to brown, weakly magnetic, aphyric or fibrous aphyric, calcite amygdaloid common
- KT103 Intermediate to andesite dykes

**Subvolcanic Rocks - (ca. #2 Ma)**

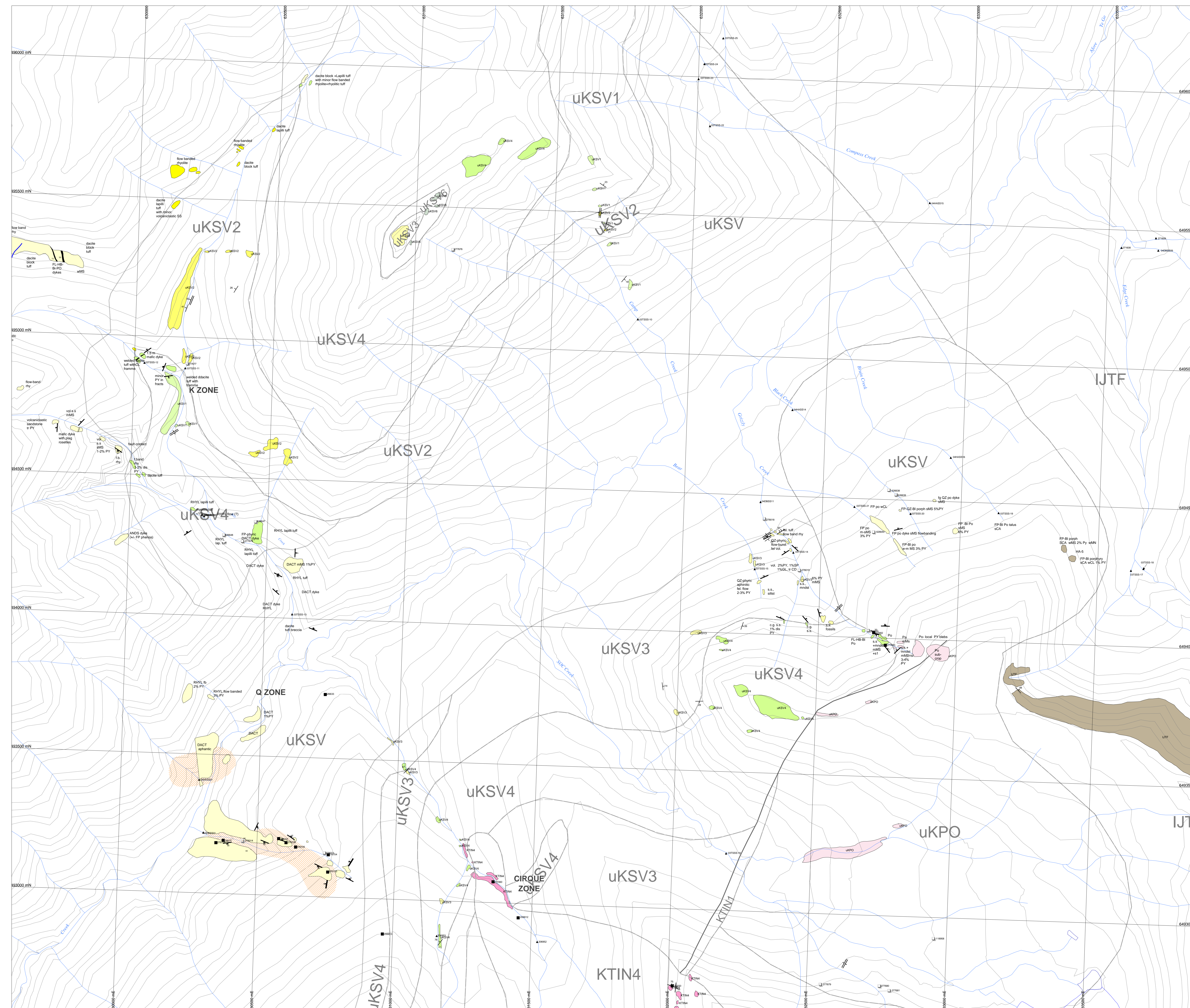
- uKSV1 Subvolcanic Rock
- uKSV2 Andesite, lat. to dark lat. and black lat. Matrix to grey brown
- uKSV3 Rhyolite lat and agglomerate
- uKSV4 Rhyolite
- uKSV5 Basalt
- uKSV6 Ash lat

**Major Subvolcanic Andesite Rocks - (ca. #2 Ma)**

- uKSV7 Basalt
- uKSV8 Basalt andesite
- uKSV9 Basalt andesite
- uKSV10 Basalt andesite
- uKSV11 Basalt andesite
- uKSV12 Basalt andesite
- uKSV13 Basalt andesite
- uKSV14 Basalt andesite
- uKSV15 Basalt andesite
- uKSV16 Basalt andesite
- uKSV17 Basalt andesite
- uKSV18 Basalt andesite
- uKSV19 Basalt andesite
- uKSV20 Basalt andesite
- uKSV21 Basalt andesite
- uKSV22 Basalt andesite
- uKSV23 Basalt andesite
- uKSV24 Basalt andesite
- uKSV25 Basalt andesite
- uKSV26 Basalt andesite
- uKSV27 Basalt andesite
- uKSV28 Basalt andesite
- uKSV29 Basalt andesite
- uKSV30 Basalt andesite
- uKSV31 Basalt andesite
- uKSV32 Basalt andesite
- uKSV33 Basalt andesite
- uKSV34 Basalt andesite
- uKSV35 Basalt andesite
- uKSV36 Basalt andesite
- uKSV37 Basalt andesite
- uKSV38 Basalt andesite
- uKSV39 Basalt andesite
- uKSV40 Basalt andesite
- uKSV41 Basalt andesite
- uKSV42 Basalt andesite
- uKSV43 Basalt andesite
- uKSV44 Basalt andesite
- uKSV45 Basalt andesite
- uKSV46 Basalt andesite
- uKSV47 Basalt andesite
- uKSV48 Basalt andesite
- uKSV49 Basalt andesite
- uKSV50 Basalt andesite

**Basaltic Flow Formation**

- uKSV51 Basaltic flow formation
- uKSV52 Basaltic flow formation
- uKSV53 Basaltic flow formation
- uKSV54 Basaltic flow formation
- uKSV55 Basaltic flow formation
- uKSV56 Basaltic flow formation
- uKSV57 Basaltic flow formation
- uKSV58 Basaltic flow formation
- uKSV59 Basaltic flow formation
- uKSV60 Basaltic flow formation
- uKSV61 Basaltic flow formation
- uKSV62 Basaltic flow formation
- uKSV63 Basaltic flow formation
- uKSV64 Basaltic flow formation
- uKSV65 Basaltic flow formation
- uKSV66 Basaltic flow formation
- uKSV67 Basaltic flow formation
- uKSV68 Basaltic flow formation
- uKSV69 Basaltic flow formation
- uKSV70 Basaltic flow formation
- uKSV71 Basaltic flow formation
- uKSV72 Basaltic flow formation
- uKSV73 Basaltic



### ROCK SAMPLE RESULTS

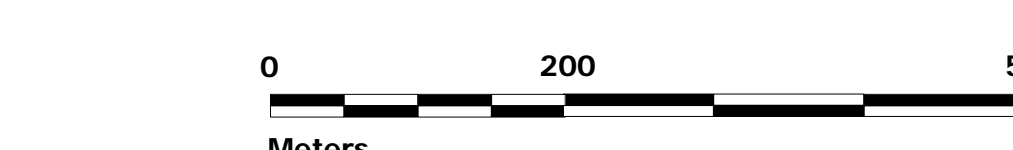
SAMPLE	Au ppb	Ag ppb	As ppb	Cu ppm	Pb ppm	Sb ppm	Zn ppm
118.958	5	1.2	70	405	2	4	8
206.813	40	2	18	160	26	10	40
206.813	28.8	1.1	20	22	13	5	1
277.260	20	0.7	24	280	3	13	28
277.260	10	0.209	8.4	34.4	14.8	1.00	37
277.276	10	0.79	4.6	5.8	65.5	2.86	17
277.277	1.240	5.56	79.6	7.320	10.8	3.95	209
277.278	1.010	6.09	124.1	86.2	97.2	17.61	249
277.279	180	290	747	6.200	1.485	5.570	2.00
277.280	450	54.8	455	3.000	1.800	2.150	6.110
277.281	20	30.2	1.200	89.1	2.800	29.1	7.500
277.282	10	3.88	56.5	200	2.010	2.68	10.00
277.283	10	4.79	42.4	384	2.480	1.26	10.00
278.700	0.01	0.2	10	84	20	32	36
278.704	0.01	0.2	33	33	17	6	4
278.706	0.01	0.3	16	164	14	3	45
278.708	0.01	0.2	4	81	5	2	8
278.707	0.01	0.8	16	180	10	6	6
278.708	0.02	0.9	88	3.700	19	32	50
278.013	0.01	0.5	5	204	5	2	5
278.014	0.01	0.7	16	32	13	2	67
278.015	0.02	1.3	2	400	10	4	4
278.018	0.01	0.4	128	6	50	2	61
278.019	0.01	5.5	310	56	2.910	10	13.500
278.020	0.01	3	47	16	2.260	2	2.250
626.633	0.01	2	10	6	41	3	3
626.636	0.03	0.4	14	75	60	32	14
626.639	0.07	0.9	5	424	84	44	20
626.640	0.07	3.2	158	286	119	3	222
626.641	0.01	0.2	24	17	8	2	7
626.642	0.01	0.3	26	37	13	4	8
626.643	0.01	0.4	88	27	36	6	1.105

- ### Lithologic Units
- LATE CRETACEOUS TO TERTIARY**
- Intrusive Dykes, Sills and Stocks**
    - KTIN1 Rhyolite dykes and sills, aphyritic or felsitic-quartz phenocrysts
    - KTIN2 Basalt andesite dykes: fine grained, dark green to brown, weakly magmatic, aphyritic or felsitic phenocrysts, calcite amygdalites common
    - KTIN3 Hornblende andesite dykes
  - LATE CRETACEOUS**
    - Windy Table Suite Volcanic Rocks (ca. 82 Ma)**
      - uKSV Subaerial Volcanic Rock
      - uKSV1 Dacitic andesitic tuff, lapilli tuff and block tuff. Maroon to grey brown
      - uKSV2 Rhyolite tuff and agglomerate
      - uKSV3 Rhyolite
      - uKSV4 Andesite
      - uKSV5 Basalt
      - uKSV6 Ash tuff
    - Windy Table Intrusive Suite plutonic Rocks (ca. 82 Ma)**
      - uKSV1 Monzonite and Diorite
      - uKSV2 Biotite-hornblende granodiorite: fine to coarse grained, local microplitic cavities
    - Thorn Suite Intrusive Rocks**
      - uKX1 Breccia Pipes - formation between 88 and 93 Ma
      - uKX2 Magmatic-hydrothermal breccia: fragments dominantly of uKPO tuff with fewer fragments of other porphyries; stringers, weakly silicified and sericite altered
      - uKX3 Equivalent to uKSV1 but moderately to strongly sericite-altered
      - uKX4 Mottled, matrix-rich breccia: 5-20% angular to sub-rounded pebble size fragments in a fine-grained groundmass locally characterized by abundant feldspar + biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
      - uKX5 Chalky breccia: uKPO with abundant thin fractures, locally grades into uKX2
      - uKPO Diorite Porphyry (ca. 92 Ma)
      - uKPO1 Coarse grained feldspar-quartz-biotite porphyry
      - uKPO2 Fine-grained feldspar-quartz-biotite porphyry
  - LOWER TO MIDDLE JURASSIC**
    - Lalage Group - Felsic Volcanic Formation**
      - IJTF Clastic Sedimentary Rock
      - IJT Clastic Sedimentary Rock
      - IJT1 Cobble conglomerate
    - Silva Formation**
      - uTSF Limestone and Lesser Clastic Rock
      - uTSF1 Limestone
      - uTSF2 Argillite
    - Sturdee Group**
      - uTMV Mafic Volcanic Rock
      - uTMV1 Flow basalt
      - uTMV2 Andesitic lapilli tuff
      - uTMV3 Massive andesite: dark green, aphyritic, aphanitic to fine grained
      - uTMV4 Felsitic andesite porphyry: dark green, fine to medium grained, matrix < 1mm feldspar and augite phenocrysts
    - uTMS Marine Sedimentary Rock**
      - uTMS1 Interbedded siltstone and wacke: well bedded
      - uTMS2 Argillite
      - uTMS3 Limestone
  - GOS** Gossan

- ### SYMBOLS
- Fault lineation
  - Magmatic flow foliation
  - Dyke (inclined, vertical)
  - Jointing (inclined, vertical)
  - Bedding (inclined, vertical)
  - Foliation (inclined, vertical)
  - Fracturing
  - Faulting (inclined, vertical)
  - Veining (inclined, vertical)
  - Outcrop
  - Lithological contact (defined, inferred)
  - Vein
  - Gossan
  - Syn mineralization, fault (triangle indicates dip direction)
  - Post-mineralization, fault (rectangle indicates dip direction)
  - IP Chargeability Anomaly: Probable
  - Soil sample (grid, reconnaissance)
  - Sample
  - Silt sample
  - Drill hole
  - Legal corner post (located, approximate)
  - Camp location
  - Helicopter pad

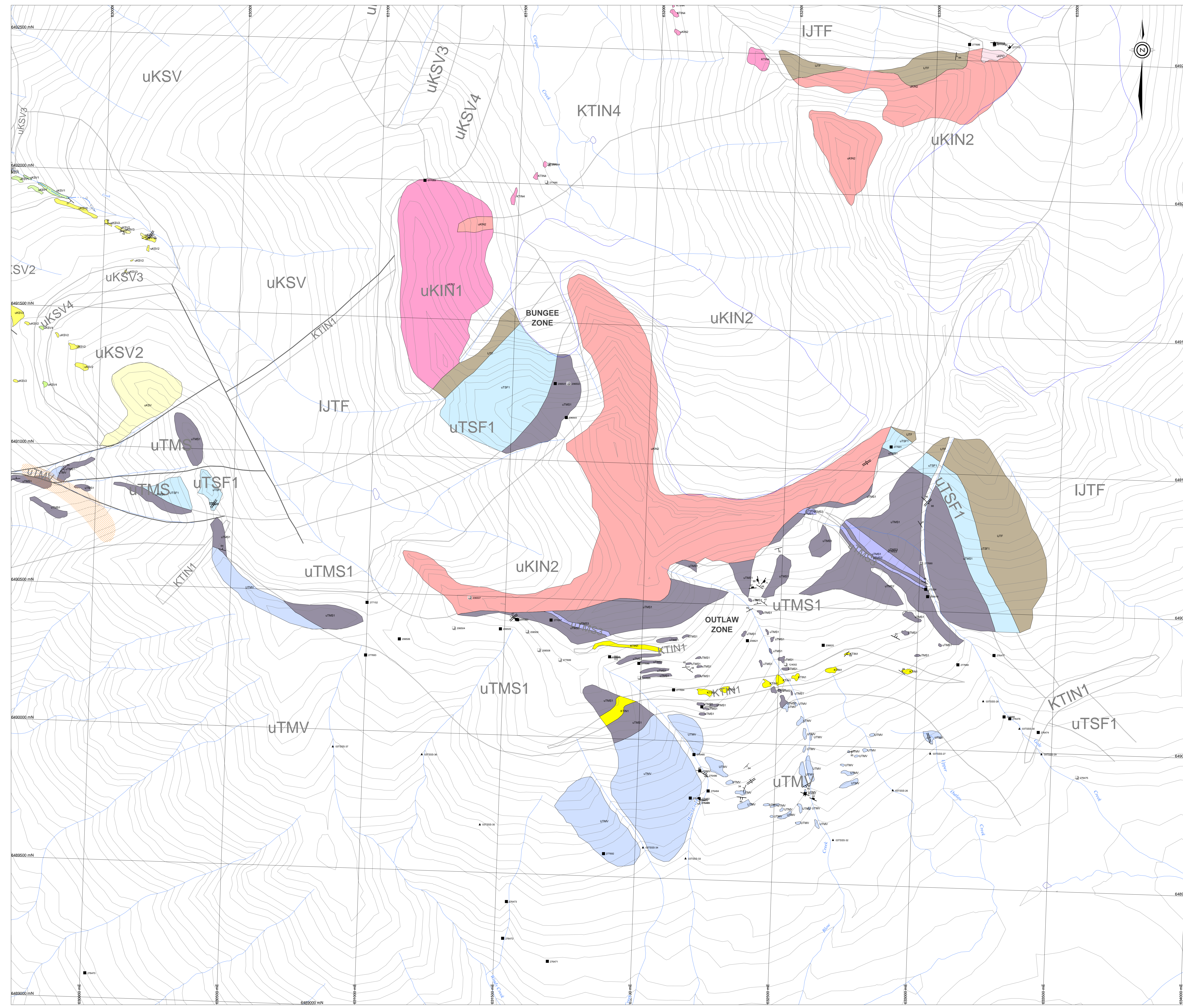
- ### ALTERATION TYPES
- AL alunitic
  - BA barite
  - CA calcite
  - CB Fe-carbonate
  - CL chlorite
  - CY clay
  - EP epidote
  - KF K-spar
  - MS sericite
  - OZ quartz veining
  - m moderate
  - s strong
  - tr trace
  - w weak

- ### Rock Sample Types
- CHANNEL (11)
  - CHP (9)
  - FLDAT (148)
  - GRAB (276)
  - Select (7)



**CANGOLD LIMITED**  
**RIMFIRE MINERALS CORPORATION**  
 THORN PROPERTY  
**CIRQUE AREA**  
**GEOLOGY AND**  
**SAMPLE LOCATIONS**

Date: FEB. 2005 Scale: 1:5,000  
 UTM Zone: UTM8 - NAD83 Mining District: ATLN  
 U.T.S. 104K/10 Sheet/Province: BC



### ROCK SAMPLE RESULTS

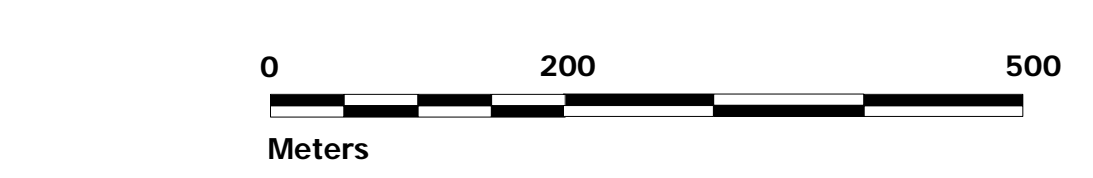
SAMPLE	As ppm	Ag ppm	Au ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm
20501	0.0171	8.6	15	24	70	24	1104
20502	0.0103	6.7	1239	64	49	23	1347
20503	0.01618	6.2	24	55	36	25	1229
20504	0.322	1.6	55	10	30	8	125
20505	0.8846	6.2	280	195	22	29	1208
20506	0.0464	1.7	276	34	144	101	734
20507	0.0019	-0.3	8	2	3	-3	10
20508	0.1794	3.3	1360	82	16	38	95
20509	0.1722	4.7	1453	307	262	81	135
20619	0.048	2.9	70	75	7	18	35
20620	0.0585	1.5	151	140	7	82	35.5
20621	0.004	6.3	297	9	3	22	95
12402	0.06	11	149	791	594	33	348
27701	-16.005	0.05	20	5.1	1.6	1.89	21
27702	-16.005	0.30	97	81.3	2.7	21.4	31
27703	0.67	1.55	133	426	6.4	14.55	101
27704	0.01	0.13	122	34.4	6.1	4.95	21
27711	0.12	3.21	74.9	1725	8.3	1.36	3310
27712	0.03	0.83	120	105	23.2	91.4	313
27718	0.03	1.06	238	1700	20.8	44.6	21
27789	0.04	0.39	4260	12.6	88.7	41	45
27790	-0.01	0.16	77.3	83.8	9.7	10.6	33
27791	-0.01	0.1	88	3.2	16.9	23	43
27792	0.1	1.78	982	74.4	11.3	28.6	62
27793	0.02	0.96	263	272	30.7	100.5	89
27794	0.02	1.34	844	254	15.4	8.39	134
27795	1.45	14.05	10,000	868	412	457	250
27796	1.47	8.58	8660	420	138	320	476
27797	0.78	2.6	713	1,280	1,890	16.85	10,000
27798	0.04	0.38	8,940	121.5	11.6	12.05	352
27799	0.28	1.11	3,260	88.8	19.8	24.8	101
27700	2.13	28.6	78.2	822	57.6	4.27	10,000
27650	0.4	4.2	148	95	898	-2	555
27651	-0.01	0.2	88	5	98	-2	1,045
27652	0.01	0.2	53	56	10	12	57
27653	-0.01	0.3	120	110	8	35	44
27654	0.01	0.2	3,840	22	8	42	28
27655	-0.01	0.2	10,001	75	18	107	28
27656	0.39	6.5	1,245	3,880	59	265	37
27657	-0.01	-0.2	309	12	3	8	148
27658	0.1	1	3,140	62	178	61	250
27659	1.18	2.5	1,720	101	201	84	97
27660	0.01	1	88	822	8	22	40
27661	-0.01	0.2	72	12	3	4	36
27662	-0.01	0.2	26	74	6	14	49
27663	0.07	0.1	5,500	88	104	54	32
27664	0.02	0.4	54	50	6	8	45
27665	0.02	-0.2	88	41	4	13	58
27666	0.15	0.4	5,500	311	79	60	42

- ### Lithologic Units
- LATE CRETACEOUS - EARTHLY**
- Intrusive Dykes, Sills and Stocks**
    - KTIN1: Rhyolite dykes and sills; aphyric or feldspar-quartz phenocrysts
    - KTIN2: Basalt and/or andesite dykes; fine grained, dark green to brown, weakly magnetic; aphyric or feldspar phenocrysts, calcite amygdaloids common
    - KTIN3: Hornfelsite; hornfelsite dyke
  - LATE CRETACEOUS**
    - Windy Table Suite Volcanic Rocks - (ca. 82 Ma)**
      - uKSV: Subaerial Volcanic Rock
      - uKSV1: Dacitic/andesitic tuff, lapilli tuff and block tuff; Maroon to grey brown
      - uKSV2: Rhyolite tuff and agglomerate
      - uKSV3: Rhyolite
      - uKSV4: Andesite
      - uKSV5: Basalt
      - uKSV6: Ash tuff
    - Windy Table Intrusive Suite plutonic Rocks - (ca. 82 Ma)**
      - uKIN1: Monzonite and Diorite
      - uKIN2: Biotite-hornfelsite granodiorite; fine to coarse grained, local microcline cavities
    - Thorn Suite Intrusive Rocks**
      - uKEX1: Breccia Pipe - formation between 88 and 92 Ma
      - uKEX2: Magnetic-epithermal breccia; fragments dominantly of uKPO but with fewer fragments of other porphyries; fragments weakly chlorite and sericite altered
      - uKEX3: Equivalent to uKEX1 but moderately to strongly sericite altered
      - uKEX4: Mafic, matrix-rich breccia: 5-20% angular to sub-rounded pebble size fragments in a fine-grained groundmass locally characterized by abundant feldspar + biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
      - uKEX5: Calcic breccia; uKPO with abundant thin fractures, locally grades into uKEX2
      - uKEX6: Dioritic Porphyry (ca. 92 Ma)
      - uKEX7: Coarse grained feldspar-quartz-biotite porphyry
      - uKEX8: Fine-grained feldspar-quartz-biotite porphyry
  - LOWER to MIDDLE JURASSIC**
    - Lalage Group - Tethyan Formation**
      - uTMS1: Clastic Sedimentary Rock
      - uTMS2: Cobble conglomerate
    - Silva Formation**
      - uTSF1: Limestone and Lesser Clastic Rock
      - uTSF2: Limestone
      - uTSF3: Argillite
    - Stuart Group**
      - uTMV: Mafic Volcanic Rock
      - uTMV1: Flow basalt
      - uTMV2: Andesitic lapilli tuff
      - uTMV3: Massive andesite; dark green, aphyric, aphyric to fine grained
      - uTMV4: Feldspar-argillite porphyry; dark green, fine to medium grained, sericite + iron feldspar and argillite phenocrysts
    - Marine Sedimentary Rock**
      - uTMS1: Interbedded siltstone and weakly well bedded
      - uTMS2: Argillite
      - uTMS3: Limestone
  - GOS**
    - uGOS: Gossan

- ### SYMBOLS
- Fault lineation
  - Magnetic flow foliation
  - Dyke (inclined, vertical)
  - Joining (inclined, vertical)
  - Bedding (inclined, vertical)
  - Foliation (inclined, vertical)
  - Fracturing
  - Faulting (inclined, vertical)
  - Veining (inclined, vertical)
  - Outcrop
  - Lithological contact (defined, inferred)
  - Vein
  - Gossan
  - Syn-mineralization, fault (triangle indicates dip direction)
  - Post-mineralization, fault (rectangle indicates dip direction)
  - IP Chargeability Anomaly, Probable
  - Soil sample (grid, reconnaissance)
  - Silt sample
  - Drill hole
  - Legal corner post (located, approximate)
  - Camp location
  - Helicopter pad

- ### ALTERATION TYPES
- AL: alunite
  - CB: Fe-carbonate
  - EP: epidote
  - QZ: quartz veining
  - m: moderate
  - w: weak
  - BA: barite
  - CH: chlorite
  - KF: K-spar
  - SI: silica
  - s: strong
  - tr: trace
  - CA: calcite
  - CY: clay
  - MS: sericite

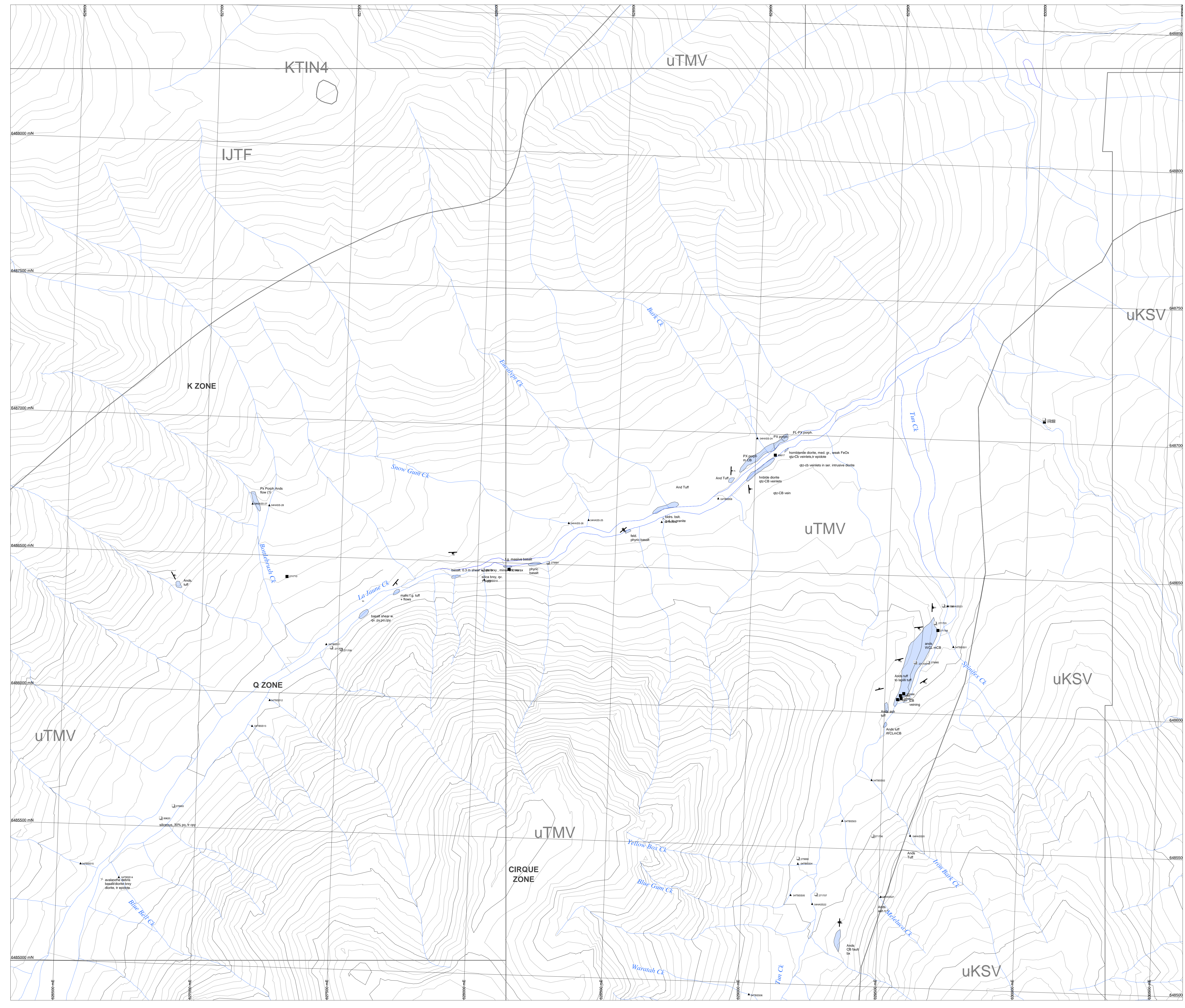
- ### Rock Sample Types
- (11) CHANNEL
  - (20) CHIP
  - (14) FLOAT
  - (276) GRAB
  - (7) Select



**CANGOLD LIMITED**  
**RIMFIRE MINERALS CORPORATION**  
**THORN PROPERTY**  
**OUTLAW AREA**  
**GEOLOGY AND**  
**SAMPLE LOCATIONS**

Date: FEB. 2005  
 UTM Zone: UTM8 - NAD83  
 104K/10

Scale: 1:5,000  
 Drawing Date: ATLN  
 BC



**ROCK SAMPLE RESULTS**

SAMPLE	Au ppm	Ag ppm	As ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm
271702	0.01	0.3	89	58	9	2	70
271703	-0.01	0.8	10,001	159	80	199	2,080
271704	-0.01	-0.2	77	85	4	10,001	247
271705	-0.01	0.2	48	12	-2	18	53
271706	0.01	0.3	7	475	-2	41	5
271707	0.04	0.6	33	2,220	2	6	16
271708	0.01	-0.2	4	956	-2	2	11
271709	0.03	2.4	17	14	52	5	4
271710	0.02	0.3	143	25	19	18	37
275669	0.15	0.3	25	25	25	4	97
276469	-0.01	0.3	13	19	17	3	71
279985	0.08	0.5	506	52	38	20	104
279986	0.04	0.3	15	95	6	-2	69
279987	0.5	0.9	294	58	15	29	40
279988	0.29	0.2	251	45	6	27	32
279989	0.44	0.3	212	62	7	28	33
279990	0.14	2	186	172	20	2	34
279991	0.03	0.6	19	35	8	4	28
279992	-0.01	0.6	12	160	6	3	49
279993	-0.01	7.3	37	85	4,090	8	2,980
89617	0.03	-0.2	39	52	4	6	53
89618	-0.01	0.4	6	36	4	2	63
89620	0.01	0.5	68	497	6	6	34

- Lithologic Units**
- LATE CRETACEOUS or TERTIARY**
- Intrusive Dykes, Sills and Stocks**
    - KTIN1 Rhyolite dykes and sills, aphanitic or foliated-quartz-phyric
    - KTIN2 Basalt and/or andesite dykes: fine grained, dark green to brown, weakly magnetic, aphyric or foliated-phyric, calcite amygdaloid common
    - KTIN3 Homogeneous trachyandesite dykes
  - LATE CRETACEOUS**
    - Windy Table Suite Volcanic Rocks - (ca. 82 Ma)**
      - uKSV Subaerial Volcanic Rock
      - uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff. Maroon to grey brown
      - uKSV2 Rhyolite tuff and agglomerate
      - uKSV3 Rhyolite
      - uKSV4 Andesite
      - uKSV5 Basalt
      - uKSV6 Ash tuff
    - Windy Table Intrusive Suite plutonic Rocks - (ca. 82 Ma)**
      - uKIN1 Monzonite and Diorite
      - uKIN2 Basaltic-hornblende gneiss/diorite: fine to coarse grained, local microcline, calcite
    - Thorn Suite Intrusive Rocks**
      - uKEX Breccia Pipe - formation between 88 and 92 Ma
      - uKEX1 Magnetic-typhothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyries; lithogenic; weakly chloritic and sericitic altered
      - uKEX2 Equivalent to uKEX1 but moderate to strongly sericitic-altered
      - uKEX3 Mafic, matrix-rich breccia: 5-20%, angular to sub-rounded pebble size fragments in a fine-grained groundmass locally characterized by abundant feldspar + biotite phenocrysts; 1-2% pyrite; weakly to strongly sericitic-altered
    - uKEX4 Oxidic breccia: uKPO with abundant thin fractures, locally grades into uKEX2
    - uKPO Diorite Porphyry (ca. 92 Ma)
    - uKPO1 Coarse grained feldspar-quartz-biotite porphyry
    - uKPO2 Fine-grained feldspar-quartz-biotite porphyry
  - LOWER to MIDDLE JURASSIC**
    - Lalorpa Group - Palaeozoic Formation**
      - IJTF Clastic Sedimentary Rock
      - IKIN Cobble conglomerate
    - LIPTON TUFF**
      - LIPT Limestone and Lesser Clastic Rock
      - LIPT1 Limestone
      - LIPT2 Argillite
    - SISSON GROUP**
      - uTMV Mafic Volcanic Rock
      - uTMV1 Flow tuff
      - uTMV2 Andesitic lapilli tuff
      - uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine grained
      - uTMV4 Feldspar-argillite porphyry: dark green, fine to medium grained, sparse v. 1mm feldspar and argillite phenocrysts
    - MARINE SEDIMENTARY ROCK**
      - uTMS Marine Sedimentary Rock
      - uTMS1 Interbedded siltstone and sand: well bedded
      - uTMS2 Argillite
      - uTMS3 Limestone
  - GOS**
    - GOS Gossan

- SYMBOLS**
- Fault lineation
  - Magmatic flow foliation
  - Dyke (inclined, vertical)
  - Jointing (inclined, vertical)
  - Bedding (inclined, vertical)
  - Foliation (inclined, vertical)
  - Fracturing
  - Faulting (inclined, vertical)
  - Veining (inclined, vertical)
  - Outcrop
  - Lithological contact (defined, inferred)
  - Vein
  - Gossan
  - Syn mineralization, fault (triangle indicates dip direction)
  - Post-mineralization, fault (rectangle indicates dip direction)
  - IP Chargeability Anomaly; Probable
  - Soil sample (grid, reconnaissance)
  - Soil sample
  - Silt sample
  - Drill hole
  - DDH
  - Legal corner post (located, approximate)
  - Camp location
  - Helicopter pad
- ALTERATION TYPES**
- AL alunitic
  - CB Fe-carbonate
  - EP epidote
  - OZ quartz veining
  - m moderate
  - w weak
  - BA barite
  - CL chlorite
  - KF K-spar
  - MS sericite
  - SI silica
  - s strong
  - tr trace

**Rock Sample Types**

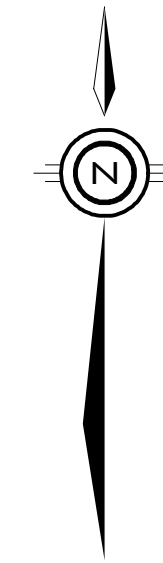
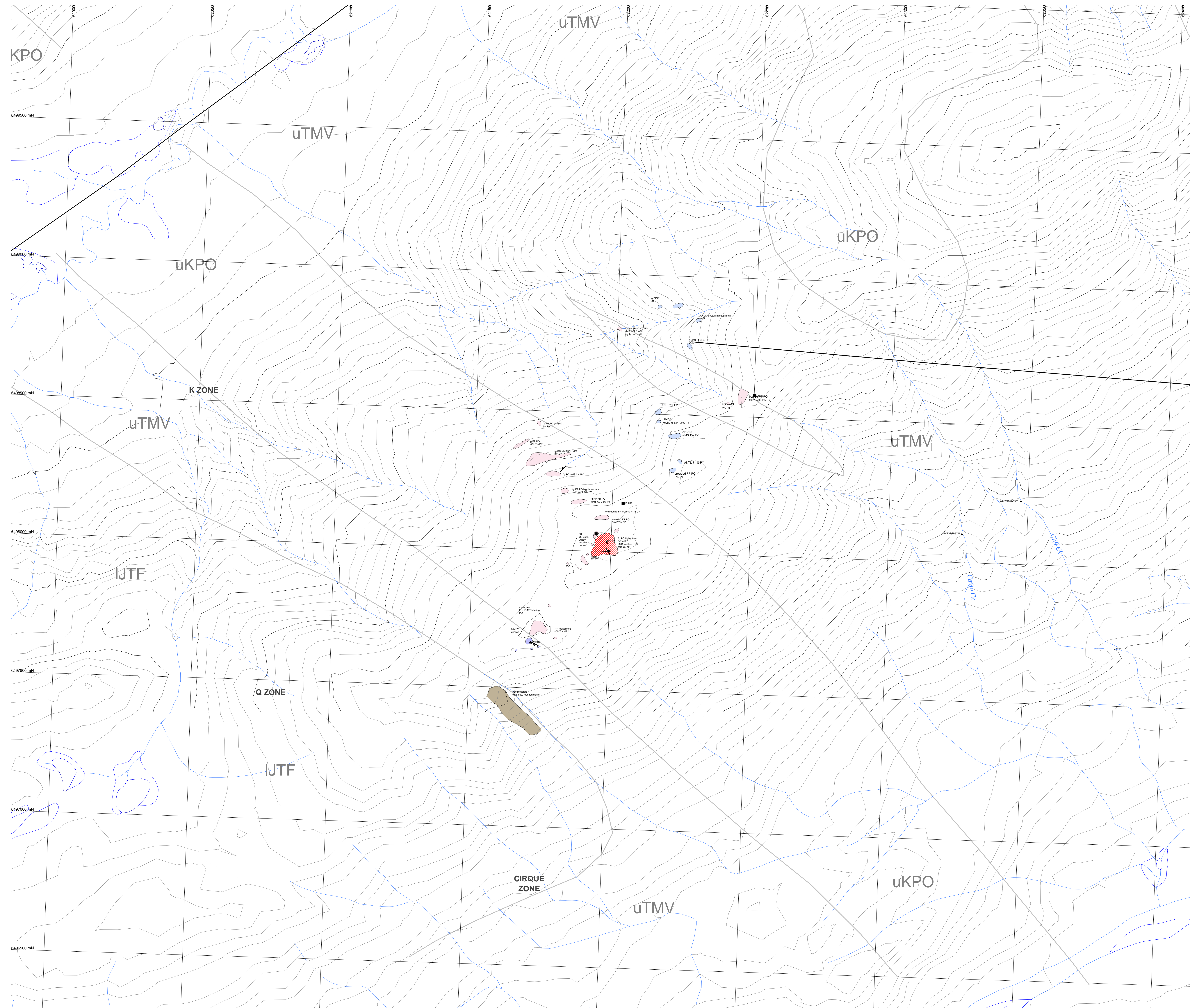
CHANNEL	(11)
CHP	(9)
FLOAT	(14)
GRAB	(27)
Select	(7)

0 200 500  
Meters

**CANGOLD LIMITED  
RIMFIRE MINERALS CORPORATION**

THORN PROPERTY  
**TUN claims  
GEOLOGY AND  
SAMPLE LOCATIONS**

DATE: FEB. 2005  
UTM: UTM8 - NAD83  
SCALE: 1:5,000  
DRAWN BY: ATLN  
CHECKED BY: BC



**ROCK SAMPLE RESULTS**

SAMPLE	Au_ppm	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
278701	0.01	0.2	2.1	9	22	5	83
278702	0.01	0.8	35	70	38	2	19
278012	0.01	1.1	18	144	162	5	2,730
628834	0.01	0.3	4	32	11	2	35
628835	0.01	0.2	12	2	19	2	3

**Lithologic Units**

- LATE CRETACEOUS or TERTIARY**
- Intrusive Dykes, Sills and Stocks**
    - KTN1: Aphanitic dykes and sills; aphanitic or feldspar-quartz gneiss
    - KTN2: Basalt (and/or dike); fine grained, dark green to brown, weakly magnetic, aphanitic or feldspar gneiss; calcite stringers common
    - KTN3: Hornblende lamprophyre dykes
  - LATE CRETACEOUS**
    - Windy Table Suite Volcanic Rocks - (ca. 82 Ma)**
      - uKSV: Subaerial Volcanic Rock
      - uKSV1: Diatrematic tuff; light buff and block tuff; Maroon to grey brown
      - uKSV2: Rhyolitic tuff and agglomerate
      - uKSV3: Rhyolite
      - uKSV4: Andesite
      - uKSV5: Basalt
      - uKSV6: Ash tuff
    - Windy Table Intrusive Suite plutonic Rocks - (ca. 82 Ma)**
      - uKN1: Monzonite and Diorite
      - uKN2: Biotite-hornblende granodiorite; fine to coarse grained, local microclastic cavities
    - Thorn Suite Intrusive Rocks**
      - uTKX: Breccia Pipes - (formation between 88 and 92 Ma)
      - uTKX1: Magnetic pyrothermal breccia; fragments dominantly of uTPD but with fewer fragments of other porphyritic lithologies; weakly chloritic and sericite altered
      - uTKX2: Equivalent to uTKX1 but moderately to strongly sericite-altered
      - uTKX3: Matrix-rich breccia; 5-20% angular to sub-rounded pebble size fragments in a fine grained groundmass locally characterized by abundant feldspar + biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
      - uTKX4: Coarse breccia; uTPD with abundant vein structures, locally grades into uTKX2
      - uKPO: Diorite Porphyry (ca. 92 Ma)
      - uKPO1: Coarse grained feldspar-quartz diorite porphyry
      - uKPO2: Fine grained feldspar-quartz diorite porphyry
  - LOWER to MIDDLE JURASSIC**
    - Lafarge Group - Talmahine Formation**
      - IJTF: Clastic Sedimentary Rock
      - IJAN: Cobble conglomerate
    - UPPER TRIASSIC**
      - Sinera Formation**
        - uTSF: Limestone and Lesser Clastic Rock
        - uTSF1: Limestone
        - uTSF2: Argillite
      - Stuhini Group**
        - uTMV: Mafic Volcanic Rock
        - uTMV1: Basalt
        - uTMV2: Andesite; light tuff
        - uTMV3: Massive andesite; dark green, aphanitic to fine grained
        - uTMV4: Feldspar-apatite porphyry; dark green, fine to medium grained, coarse - 1mm feldspar and apatite phenocrysts
      - Marine Sedimentary Rocks**
        - uTMS1: Interbedded siltstone and wacke; well bedded
        - uTMS2: Argillite
        - uTMS3: Limestone

**SYMBOLS**

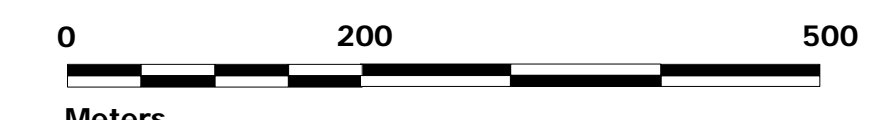
- Fault lineation
- Magmatic flow foliation
- Dyke (inclined, vertical)
- Jointing (inclined, vertical)
- Bedding (inclined, vertical)
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- Syn mineralization, fault (triangle indicates dip direction)
- Post-mineralization, fault (rectangle indicates dip direction)
- IP Chargeability Anomaly, Probable
- Soil sample (grid, reconnaissance)
- sample#
- Silt sample
- Drill hole
- DDH
- Legal corner post (located, approximate)
- Camp location
- Helicopter pad

**ALTERATION TYPES**

- AL: alunite
- BA: barite
- CA: calcite
- CB: Fe-carbonate
- CL: chlorite
- CY: clay
- EP: epidote
- KF: K-feldspar
- MS: sericite
- QZ: quartz veining
- SI: silica
- m: moderate
- s: strong
- tr: trace
- w: weak

**ROCK SAMPLES**

- S/Anomaly Types
- CHANNEL (11)
- CHP (8)
- FLCAT (118)
- GRAB (27)
- Select (7)



**CANGOLD LIMITED**  
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 THORN PROPERTY  
**SUTLAHINE AREA**  
**GEOLOGY AND**  
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