# MAR 20120003: BRAZEAU

Brazeau - A report on gold exploration in unconsolidated sediments along the Brazeau River in the Rocky Mountain foothills

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### PART B

### AND

### PART C

### ASSESSMENT REPORT

9309120467 to 9309120498

### BRAZEAU PROJECT NTS 83B, 83C, 82N, 82O

For Ivey Canadian Exploration Ltd.

> Submitted by James Hynes, P.Eng

April 25th, 2012

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### MAPS OF CURRENT PERMITS AND BOUNDARIES







### PART B – TECHNICAL REPORT

### SUMMARY

In the fall of 2009, Ivey Canadian Exploration conducted the first phase of an exploration program on the 'Brazeau Project' block of permits. The blocks are located within NTS 83B, 83C, 82N, and 82O. The Brazeau Project blocks are covered under Metallic and Industrial Mineral Permit Numbers 9309120467 to 9309120498 inclusively.

The purpose of this program was to identify if any anomalous additional gold values might exist within the Brazeau River drainage basin. 26 locations were drilled of which 60 samples were obtained and sent to the Innovative Precious Metals Technologies and EcoTech. Anomolous gold was identified in some of the samples, warranting further work be conducted within this area.

### INTRODUCTION

In the fall/winter of 2009/2010, Ivey Canadian Exploration (Ivey) began and completed a regional exploration program named the 'Brazeau Project'. The purpose of this project was to explore the Brazeau River drainage basins for anomalous gold in Preglacial sands and Gravels. The field program was comprised of targeting locations for drilling and using a Dual Rotary Drill Rig to conduct the sample recovery for the project.

## DETAILED EXPENDITURE STATEMENT

Actual Expenditures	
Project Name: Brazeau Project	
ACTIVITY	TOTAL COST
CONTRACT DRILLING AND FIELD WORK	\$759,777.43
CONTRACT LAB ASSAY	\$119,850.36
SUBTOTAL	\$879,627.79
ADMINISTRATION (10% of total)	\$87,962.78
TOTAL	\$967,590.57



### REGIONAL GEOLOGY

The exploration area covered by the Brazeau Project covers a diverse geological setting. The western portion of the Permit Area is near or within the Foothills of Alberta. This terrain is well drained and hilly, with typical drainage to the east and north. Much of the area is comprised of sedimentary bedrock overlain by unconsolidated sediments and glacial till, with higher areas occasionally having exposed bedrock. The western portion of the exploration area is relatively flat, with drainage towards the Pembina and Brazeau Rivers. This area is also covered by unconsolidated sediments and glacial till.

### EXPLORATION

Exploration on the Brazeau project began in December of 2009 and continues at present. Prior to sampling with the drill rig, 1 week were spent in the field locating suitable locations to drill and obtain samples. The purpose of this program was to sample unconsolidated sediments within the Pembina and Brazeau drainage basins and test for gold metals. Samples were taken at 26 sites along the Brazeau River at locations that could utilize existing roads and did not require and lines to be cut in the trees. These samples were obtained using a truck mounted drill rig, with the sediment samples being bagged and sent to Innovative Precious Metals. The Borehole Logs generated by Apex Geoscience are attached in Appendix I. The location maps of each of the testholes are shown in Appendix II. Appendix III shows analytical method and results form the exploration program.

### CONCLUSION

This first phase of the exploration program has identified a number of anomalous gold values that warrant further evaluation. As a result, further field testing is recommended to expand the number of testholes around the anomalous findings to determine if a continued trend exists.

### AUTHOR QUALIFICATIONS

I, James Hynes, residing at Canmore, Alberta, Canada do hereby certify that:

- 1. I am a Professional Engineer with Ivey Canadian Exploration Ltd, 10020 101A Avenue NW, Suite 1990, Edmonton, AB, T5J 3G2
- 2. I am a graduate of the University of New Brunswick with a degree in Geological Engineering (1999) and have practiced my profession continuously since 2000.
- 3. I am a professional Engineer with APEGGA.
- 4. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, or the omission to disclose which makes the Report misleading.

James Hynes

Canmore, Alberta, Canada April 25th, 2012



## REFERENCES

None

## PART C - APPENDICES

# List of Appendices

- I
- II
- Drill Hole Logs Drill Hole Location Maps Analytical Method and Assay Results Ш



Hole: TH022C-RC Drill date: Feb 1-2, 2010 Logged by: Patrick, Kyle Drilling contractor: Foundex Drillers: Wilf, Doug, Jason UTM E (Locator): 584911 UTM N (Locator): 5860088 Top of gravel / sand (feet): 60 Bedrock depth (feet): ? EOH (feet): 137 Total gravel / sand thickness (feet): 30 mostly sand Sample bag interval (feet): 60-97 Sample bag ID: TH022C-RC **Reclaimation notes:** General comments:

from (feet)	to (feet)	lithology	colour	comments
0	60	clay	NR	sparse intermixe
60	90	gravel + sa	and	progressively les
90	137	fine to very	y med grey	silty

sparse intermixed sand from 25-28' progressively less gravel downwards silty

Hole: TH058D-RC Drill date: 15-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, UTM E (Geo): 595722 UTM N (Geo): 5865668 UTM E (Locator): 595721 UTM N (Locator): 5865667 Top of gravel / sand (feet): 11 Bedrock depth (feet): 15 EOH (feet): 37 Total gravel / sand thickness (feet): 4 Sample bag interval (feet): 6 Sample bag ID: TH058D-RC **Reclaimation notes:** General comments:

to (feet)		lithology	colour
0	1	Road	
1	11	Clay	Grey
1	15	Gravel + Sand	Sand was brown
5	37	Sandstone	brown
	<b>to (fe</b> 0 1 1 5	to (feet)           0         1           1         11           1         15           5         37	to (feet)lithology01 Road111 Clay115 Gravel + Sand537 Sandstone

Hole: TH060D-RC Drill date: 15-Feb-10 Logged by: Alexia Drilling contractor: Foundex Drillers: Wilf, Jasen, Doug UTM E (Geo): 594715 UTM N (Geo): 5865687 UTM E (Locator): 59470? Map has cut off last digit of both easting and northing. UTM N (Locator): 586568? Top of gravel (feet): 0 Bedrock depth (feet): 35 EOH (feet): 47 Total gravel thickness (feet): 5 Sample bag interval (feet): 30-35 Sample bag ID: TH060D-RC **Reclaimation notes:** General comments: An interval of 5-10% gravel was encountered immediately above bedrock

from (feet) t	o (feet)	lithology	colour
0	3	Road fill	Medium grey brown
3	30	Clay	Light brown near top, darkening with depth
30	35	Gravel + C	I Lt-med brown clay (80-95%) with gravel
35	47	Bedrock	Sandstone, golden brown in colour
47 8	EOH		

Hole: TH061D-RC Drill date: 18-Feb-10 Logged by: Patrick/Alexia Drilling contractor: Foundex Drillers: Night: Wilf, Jason, Doug / Day: Tyler, Ryan, Dave UTM E (Geo): 590141 UTM N (Geo): 5854777 UTM E (Locator): 590148 UTM N (Locator): 5854768 Top of gravel / sand (feet): 44 Bedrock depth (feet): 121 EOH (feet): 137 Total gravel / sand thickness (feet): 46 Sample bag interval (feet): 44-54, 69-75, 84-95, 101-115, 116-121 Sample bag ID: TH061D-RC, TH061D-RC #2, TH061D-RC #3, TH061D-RC #4, TH061D-RC #5, **Reclaimation notes:** General comments: Day shift took over at 116'

from (feet)	to (feet	) lithology	colour
	0	1 Road	
	1 .	44 Clay	Brown
	44	54 Gravel	5% - 10% gravel, wet, in clay
	54	63 Sand	
	63	69 Sand	
	69	75 Gravel	
	75	84 Sandy Till	
	84	95 Gravel	
	95 1	01 Sandy, Silty Till	
1	01 1	15 Gravel	
1	15 1	16 Clay	Grey
1	16 1	21 Gravel	
1	21 1	37 Sandstone	Grey

Hole: TH062D-RC Drill date: 17-Feb-10 Logged by: Patrick, Alexia Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, Wilf, Jasen, Doug UTM E (Geo): 589612 UTM N (Geo): 5855006 UTM E (Locator): 589615 UTM N (Locator): 5855004 Top of gravel / sand (feet): 54 Bedrock depth (feet): 84 EOH (feet): 97 Total gravel / sand thickness (feet): 22 Sample bag interval (feet): 54-76 Sample bag ID: TH062D-RC **Reclaimation notes:** General comments:

1

from (feet)	to (feet)	lithology	colo
	0 1	Road	
	1 16	Clay	Brow
	16 18	sand	med
	18 54	clay	
	54 76	Gravel + clay	clay
	76 84	Clay	brow
	84 97	bedrock	brow
	97 EOH		
	16         18           18         54           54         76           76         84           84         97           97         EOH	sand clay Gravel + clay Clay bedrock	

ur

wn-grey brown

with >=25% gravel vn vn

Hole: TH063D-RC Drill date: 17-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, UTM E (Geo): 589103 UTM N (Geo): 5855252 UTM E (Locator): 589101 UTM N (Locator): 5855252 Top of gravel / sand (feet): 43 Bedrock depth (feet): 52 EOH (feet): 67 Total gravel / sand thickness (feet): 9 Sample bag interval (feet): 43-52 Sample bag ID: TH063D-RC **Reclaimation notes:** General comments:

to	(feet)	lithology	colour
0	1	Road	
1	43	Clay	Brown
43	52	Gravel with Clay	
52	67	Sandstone	Light brown and grey
	to ( 0 1 43 52	to (feet) 0 1 1 43 43 52 52 67	to (feet)lithology01 Road143 Clay4352 Gravel with Clay5267 Sandstone

1

Hole: TH064D-RC Drill date: 17-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, UTM E (Geo): 58387 UTM N (Geo): 585528 UTM E (Locator): 58386 UTM N (Locator): 585527 Top of gravel / sand (feet): 45 Bedrock depth (feet): 64 EOH (feet): 77 Total gravel / sand thickness (feet): 20 Sample bag interval (feet): 45-57, 57-65 Sample bag ID: TH064D-RC, TH064D-RC #2 **Reclaimation notes:** General comments:

from (feet)	to	(feet)	lithology	colour
	0	2	Road	
	2	45	Clay	Brown
	45	65	Clay with gravel	
	65	77	Sandstone	Light brown

Hole:	TH065-RC		
Drill date:	15-Feb-10		
Logged by:	Alexia		
Drilling contractor:	Foundex		
Drillers:	Wilf, Jasen, Do	ug	
UTM E (Geo):	587918	5m error	GPS accuracy
UTM N (Geo):	5856058		
UTM E (Locator):	587919		
UTM N (Locator):	5856063		
	1	2	3
Top of gravel / sand (feet):	33	44	52
Bedrock depth (feet):	64		
EOH (feet):	77		
Total gravel / sand thickness (feet):	3	5	12
Sample bag interval (feet):	33-36	44-49	52-64
Sample bag ID:	TH065-RC	TH065-F	RCTH065-RC #3
Reclaimation notes:			
General comments:			

from (feet)	to	(feet)	lithology	colour
	0	2	road fill	brown
	2	33	clay	light-med golden brown
	33	36	gravel	brown
	36	44	clay	grey
	44	49	gravel	brown
	49	52	boulder	brown
	52	64	gravel	brown
	64	77	bedrock	golden brown
	77	EOH		

Hole: TH066D-RC Drill date: 16-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, UTM E (Geo): 587285 UTM N (Geo): 5856286 UTM E (Locator): 587271 UTM N (Locator): 5856301 Top of gravel / sand (feet): 46 Bedrock depth (feet): 64 EOH (feet): 77 Total gravel / sand thickness (feet): 18 Sample bag interval (feet): 26-46 Sample bag ID: TH066D-RC Reclaimation notes: General comments:

from (feet)	to (feet)		lithology	colour
0.000	0	1	Road	
	1	26	Clay	Light Brown
	26	46	Clay	Grey
	46	64	Gravel with Clay	
	64	77	Sandstone	Yellowish Brown

Hole: TH067D-RC Drill date: 16-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave, UTM E (Geo): 586588 UTM N (Geo): 5856445 UTM E (Locator): 586582 UTM N (Locator): 5856455 Top of gravel / sand (feet): 57 Bedrock depth (feet): 92 EOH (feet): 97 Total gravel / sand thickness (feet): 27 Sample bag interval (feet): 57-77, 85-92 Sample bag ID: TH067D-RC, TH067D-RC #2 Reclaimation notes: Not enough material to fill the hole, it was staked for Paul to fill later that day. General comments:

from (feet)	to	(feet)	lithology	colour
	0	1	Road	
	1	57	Clay	Light Brown
	57	77	Clay with gravel	Grey
	77	85	Clay	Grey
	85	92	Clay with gravel	grey
	92	97	Sandstone	Yellow/Brown

Hole: TH071D-RC Drill date: 18-Feb-10 Logged by: Patrick, Alexia Drilling contractor: Foundex Drillers: Wilf, Jasen, Doug, Tyler, Dave, Ryan UTM E (Geo): 589830 UTM N (Geo): 5856459 UTM E (Locator): 589829 UTM N (Locator): 5856451 Top of gravel / sand (feet): 44 Bedrock depth (feet): 68 EOH (feet): 77 Total gravel / sand thickness (feet): 18 Sample bag interval (feet): 44-62 Sample bag ID: TH071D-RC **Reclaimation notes:** General comments: Aquifer was encountered at 45'

Water was bled off the top of the sample bag after sample was obtained.

from (feet)	to	(feet)	lithology	colour
	0	1	road fill	brown
	1	44	clay	grey
	44	62	gravel	brown
	62	68	sandy clay	grey
	68	77	bedrock	brown-grey

Hole: TH074D-RC Drill date: 19-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave UTM E (Geo): 588617 UTM N (Geo): 5857920 UTM E (Locator): 588619 UTM N (Locator): 5857914 Top of gravel / sand (feet): 23 Bedrock depth (feet): 47 EOH (feet): 57 Total gravel / sand thickness (feet): 24 Sample bag interval (feet): 23-37, 37-47 Sample bag ID: TH074D-RC, TH074D-RC #2 **Reclaimation notes:** General comments:

from (feet)	to	(feet)	lithology	colour
	0	2	Road	
	2	23	Clay	Brown
	23	35	Clay with gravel	Brown
	35	47	Gravel	
	47	57	Sandstone	Grey

Hole: TH039D-RC Drill date: 03-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave UTM E (Geo): 587322 UTM N (Geo): 5865198 UTM E (Locator): 587325 UTM N (Locator): 5865193 Top of gravel / sand (feet): 37 Bedrock depth (feet): 63 EOH (feet): 67 Total gravel / sand thickness (feet): 57 Sample bag interval (feet): 20 Sample bag ID: TH039D-RC **Reclaimation notes:** General comments:

from (feet)	to	(feet)	lithology	colour
	0	16	clay	Brown and Grey
	16	18	sandstone	Grey
	18	37	clay	Dark Grey or Brown
	37	41	Gravel	Grey
	41	55	Clay/Sand	Grey
	55	63	Sandstone	Grey
	63	67	Shale	Light Grey

Hole: TH040D-RC Drill date: 03-Feb-10 Logged by: Patrick / Rachelle Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave UTM E (Geo): 589436 UTM N (Geo): 5865077 UTM E (Locator): 589435 UTM N (Locator): 5865083 Top of gravel / sand (feet): 31 Bedrock depth (feet): 35 EOH (feet): 37 Total gravel / sand thickness (feet): 4 Sample bag interval (feet): 6 Sample bag ID: TH040D-RC **Reclaimation notes:** General comments: Day shift took over at ~18',

from (feet)	to	(feet)	lithology	colour
	0	28	Clay	Med. Brown
	28	31	Sandy Clay	Brown
	31	35	Gravel	Grey
	35	37	Sandstone	Grey

Hole: TH099B-RC Drill date: 03-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Tyler, Ryan, Dave UTM E (Geo): 589190 UTM N (Geo): 5865225 UTM E (Locator): 589175 UTM N (Locator): 5865237 Top of gravel / sand (feet): 25 Bedrock depth (feet): 72 EOH (feet): 77 Total gravel / sand thickness (feet): 23 Sample bag interval (feet): 30 Sample bag ID: TH099B-RC **Reclaimation notes:** General comments:

from (feet)	1	to (feet) lithology	colour
	0	25 clay	grey, with light brown clay starting at 10
	25	30 gravel	grey
	30	48 gravel/sand	
	48	72 Sandstone	grey
	72	77 Shale	Green/Grey

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545774 E 5856228 N

Intercept (feet)		Lithology	Colour	Comments
0	3	Road fill		
3	37	Gravel	Light Brown	Sandy gravel, pockets of silty gravel
37	42	Silt	Brown	Silt with small amounts of gravel <5%
42	52	Sandstone	Light Grey	Bedrock

94E-RC1 3-15' 94E-RC2 17-37'

548140 E 5855152 N

Intercept (feet)		Lithology	Colour	Comments
0	2	Sandy Clay		
2	30	Gravel	Light Brown	Gravel with sand and silt
30	38	Clay	Grey	Small amounts of gravel and sand
38	57	Shale	Dark Grey	Shale chips were quite soft, but grew harder with depth

95E-RC1 1-17' 95E-RC2 17-37'

547526 E 5855250 N

Intercept (feet)		Lithology	Colour	Comments
0	1	Sandy Clay	Black	
1	105	Gravel		Gravel with sand and silt
105	117	Shale	Dark Grey	Shale chips were quite soft, but grew harder with depth

96E-RC1 1-37' 96E-RC2 37-57' 96E-RC3 57-77' 96E-RC4 77-97' 96E-RC5 97-105'

546969 E 5855499 N

Intercept (feet	:)	Lithology	Colour	Comments
0	3	Road Fill		
3	46	Gravel	Light Brown	Sandy Gravel
46	55	Gravel	Light Brown	Clean Gravel, not much sand
55	133	Gravel	Light Brown	Wet, Clean Gravel
133	147	Sandstone	Light Grey	Bedrock

Water at 55'

97E-RC1 3-17' 97E-RC2 17-37' 97E-RC3 37-57' 97E-RC4 57-77' 97E-RC5 77-97' 97E-RC6 97-117' 97E-RC7 117-133'

546438 E 5855693 N

Intercept (feet)		Lithology	Colour	Comments
0	1	Topsoil	Black	
1	47	Gravel	Light Brown	Gravel with sand
47	57	Clay	Grey	Clean
57	68	Gravel	Grey	Gravel with clay
68	77	Sandstone	Grey	Bedrock

98E-RC1 1-17' 98E-RC2 17-37' 98E-RC3 37-49' 98E-RC4 57-68' \_\_\_\_

517375 E 5854254 N

Intercept (feet)		Lithology	Colour	Comments
0	2	Topsoil	Black	
2	88	Gravel	Light Brown	Gravel with silt and sand
88	112	Gravel	Grey	Wet at 88', cleaner at depth
112	118	Sandstone	Grey	Bedrock

Water at 88'

99E-RC1 2-17' 99E-RC2 17-37' 99E-RC3 37-57' 99E-RC4 57-77' 99E-RC5 77-97' 99E-RC6 97-112'

#### 530394 E 5857706 N

Intercept	(feet)	Lithology	Colour	Comments
0	2	Road fill		
2	27	Clay	Brown	Very gummy clay
27	35	Gravel	Brown	Gravel with pockets of sand
35	45	Clay	Light Brown	Clay, some gravel occurred in clay <5%
45	50	Gravel	Light Brown	Clean Gravel
50	57	Sandstone	Light Grey	Bedrock

16E-RC1 27-35' 16E-RC2 45-50'

530961 E 5858288 N

Intercept (feet)		Lithology	Colour	Comments
0	3	Road fill	Brown	
3	24	Clay	Dark Brown	Soft Clay
24	44	Gravel	Grey	Mixed with some clay and sand
44	57	Shale	Blue/Grey	

17E-RC1 24-44'

531796 E 5857688 N

Intercept (feet)		Lithology	Colour	Comments
0	2	Road fill		
2	17	Clay	Brown	Clean Clay
17	22	Clay with some sand	Brown	Les than 5% gravel
22	38	Gravel in clay	Grey	Clay content drops around 34'
38	57	Shale	Dark Grey	Bedrock

19E-RC1 22-39'

529732 E 5858926 N

Intercept (feet)		Lithology	Colour	Comments
0	2	Road fill		
2	11	Clay	Light Brown	Dark brown clay
11	20	Gravel	Brown then blue/grey	Poorly sorted gravel, pockets of sand, some clay
20	37	Sandstone	Grey	Bedrock

26E-RC1 11-22'

Hole: TH185B-RC Drill date: 28-Feb-10 Logged by: Patrick Drilling contractor: Foundex Drillers: Dave, Ryan, Tyler UTM E (Geo): 528679 UTM N (Geo): 5858079 UTM E (Locator): 528670 UTM N (Locator): 5858080 Top of gravel / sand (feet): 24 Bedrock depth (feet): 105 EOH (feet): 117 Total gravel / sand thickness (feet): 81 Sample bag interval (feet): 24-37, 37-57, 57-84, 84-105 Sample bag ID: TH185B-RC #1/4, TH185B-RC #2/4, TH185B-RC #3/4, TH185B-RC #4/4 **Reclaimation notes:** General comments:

from (feet)	to	(feet)	lithology	colour
	0	1	road fill	brown
	1	24	Clay	Brown
	24	60	Gravel in clay	Light Brown
	60	105	Gravel and sand	Grey
	105	117	Sandstone	Grey







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#### LABORATORY PROCEDURE:

- · Individual samples were dried in preparation for crushing
- Samples were crushed with approximately 95%+ passing 5mm screen
- · Samples were split using a Gilson sample splitter to a final weight of approximately 25Kg
- · 25Kg samples were further crushed to reduce size with approximately 95%+ passing 1mm screen
- 25Kg samples were split using Gilson sample splitter to approximately 3.5 4.0Kg
- 3.5 4.0Kg samples were pulverized with a plate pulverizer with approximately 75% passing 100 micron screen
- 3kg samples were bottle rolled for 12 hours in a 0.25% cyanide solution
- A sample of the cyanide leachate was taken from each bottle roll, filtered, and assessed using atomic absorption spectroscopy (AAS). A sample of the residue was fire assayed.

• Results were calculated back to the original 3Kg sample, being a representative split of the original, larger sample. Detection limit of 0.01ppm to 100ppm

Research Consulting Center Chilliwack, BC.

October 24, 2011

Customer: James Hynes

Number of samples - 138

Procedure: 2000 g representative pulverized sample was leached with a 0.25 % sodium cyanide solution for a duration of about 12 hrs. The solution was then tested with an AA spectrophotometer. Representative pulverized sample of each residue after cyanide leach was tested by fire assay with AA finishing.

Lab Code	Customer's Code	Gold, g/t Solution	Gold, g/t Residue
1-1-A	TH 016E-RC2	0.45	0.19
2-1-A	TH 060D	0.30	0
3-1-A	TH 005	0.45	0.43
4-1-A	99E-3	3.30	0.04
5-1-A	99E-2, 3 passes	1.36	0.13
6-1-A	098E-1	1.20	0.19
7-1-A	185B-1 (HO), 3 pass.	0.66	0.13
1-2-B	099E-4 (HO)	1.65	0.18
2-2-B	022C (HO)	0.51	0.15
3-2-B	TH 007D	1.14	0.12
4-2-B	TH 025D-2	0.60	0.53
5-2-B	TH 061D-2	0.15	0.13
6-2-B	TH 025 RC4	0.15	0.18
7-2-B	TH 065D-3	0.18	0.10
1-3-C	TH 065D RC2	0.20	0.22
2-3-C	TH 067D RC2	0.15	0.17
3-3-C	TH 027-1, 3 passes	0.20	0.28
4-3-C	TH 040D	0.20	0.15
5-3-C	TH 094-2	0.35	0.16
6-3-C	TH 131	0.27	0.15
7-3-C	TH 023D	0.53	0.15

#### Assay Results of Pilot Test Report 41-2011

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TH 064 RC2         TH 047 RC2         TH 094 RC1         TH 064 RC1         TH 033         TH 005D         TH 011         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.15 0.15 0.10 0.15 0.20 0.20 0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.15	0.18 0.48 0.30 0.10 0.12 0.14 0.10 0.12 0.10 0.10 0.10 0.10 0.10 0.10 0.13 0.25 0.20
TH 047 RC2         TH 094 RC1         TH 064 RC1         TH 033         TH 005D         TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.15 0.10 0.15 0.20 0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.48 0.30 0.10 0.12 0.14 0.10 0.12 0.10 0.10 0.10 0.10 0.10 0.13 0.25 0.20
TH 094 RC1         TH 064 RC1         TH 033         TH 005D         TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.10 0.15 0.20 0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10 0.10	0.30 0.10 0.12 0.14 0.10 0.12 0.10 0.10 0.10 0.10 0.10 0.13 0.25 0.20
TH 064 RC1         TH 033         TH 005D         TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.15 0.20 0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.10 0.12 0.14 0.10 0.12 0.10 0 0.10 0.10 0.10 0.13 0.25 0.20
TH 033         TH 005D         TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.20 0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.12 0.14 0.10 0.12 0.10 0 0.10 0.10 0.13 0.25 0.20
TH 005D         TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.20 0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.14 0.10 0.12 0.10 0 0.10 0.10 0.13 0.25 0.20
TH 011         TH 008 RC2         TH 035 B2         TH 035 RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.20 0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.10 0.12 0.10 0 0.10 0.10 0.13 0.25 0.20
TH 008 RC2         TH 035 B2         TH 035RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.33 0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.10 0.10	0.12 0.10 0 0.10 0.10 0.13 0.25 0.20
TH 035 B2         TH 035RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.30 0.30 0.35 0.50 0.53 0.10 0.10 0.15	0.10 0 0.10 0.10 0.13 0.25 0.20
TH 035RC2         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.30 0.35 0.50 0.53 0.10 0.05 0.10	0 0.10 0.10 0.13 0.25 0.20
TH 0001002         TH 025 RC1         TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.35 0.50 0.53 0.10 0.05 0.10	0.10 0.10 0.13 0.25 0.20
TH 002-2 (HO)         TH 097         TH 017E         TH 006         TH 096E-5 (HO)         TH 048	0.50 0.53 0.10 0.05 0.10	0.10 0.13 0.25 0.20
TH 002 2 (He)       TH 097       TH 017E       TH 006       TH 096E-5 (HO)       TH 048	0.53 0.10 0.05 0.10	0.13 0.25 0.20
TH 017E TH 006 TH 096E-5 (HO) TH 048	0.10 0.05 0.10	0.25
TH 006           TH 096E-5 (HO)           TH 048	0.05	0.20
TH 000 TH 096E-5 (HO) TH 048	0.10	0.20
TH 048	0.10	0
111 040	0.15	0.15
TH OOSE DC2	0.05	0
TH 095E RC2	0.05	0
TH 127	0.05	0.10
IH 137	0.15	0.10
TH 064D RC2	0.10	0.10
TH 096 RC2	0.53	0
TH 016E	0	0
TH 068-2	0.33	0
TH 040	0.20	0
TH 061D RC-1	0.27	0.12
TH 001D	0.25	0
99E-3 (4-1-A)	2.90	0.14
TH 027-1	0	0
TH 099E-1	0.33	0.10
65D-1	0.07	0.10
TH 024D	0	0
TH 058D	0	0
TH 096 RC1	0.05	0.10
	TH 095E RC2         TH 065B RC2         TH 137         TH 064D RC2         TH 096 RC2         TH 016E         TH 068-2         TH 061D RC-1         TH 001D         99E-3 (4-1-A)         TH 099E-1         65D-1         TH 024D         TH 096 RC1	TH 095E RC2       0.05         TH 065B RC2       0.05         TH 137       0.15         TH 064D RC2       0.10         TH 096 RC2       0.53         TH 016E       0         TH 068-2       0.33         TH 061D RC-1       0.20         TH 061D RC-1       0.27         TH 001D       0.25         99E-3 (4-1-A)       2.90         TH 027-1       0         TH 099E-1       0.33         65D-1       0.07         TH 058D       0         TH 096 RC1       0.05

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$\begin{array}{c} 0.27\\ 5.63\\ 0.16\\ 0.22\\ 0.14\\ 0.11\\ 0.10\\ \hline \\ 0.05\\ 0.06\\ 0\\ 0\\ 0.15\\ 0.19\\ 0.27\\ 0.21\\ \hline \\ 0\\ 0.27\\ 0.21\\ \hline \\ 0\\ 0.25\\ 0.22\\ 0.10\\ 0.16\\ 0.12\\ \hline \\ 0.06\\ 0\\ \end{array}$	$\begin{array}{c} 0.12 \\ 0.10 \\ 0.05 \\ 0 \\ 0.30 \\ 0.42 \\ 0.10 \\ \hline \\ 0.05 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
5.63         0.16         0.22         0.14         0.11         0.10         0.05         0.06         0         0.15         0.19         0.27         0.21         0         0.05         0.25         0.25         0.10         0.16         0.06         0	$\begin{array}{c} 0.10\\ 0.05\\ 0\\ 0\\ 0.30\\ 0.42\\ 0.10\\ \hline \\ 0.05\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
0.16         0.22         0.14         0.11         0.10         0.05         0.06         0         0.15         0.19         0.27         0.21         0         0.25         0.22         0.10         0.16         0.12	0.05 0 0.30 0.42 0.10 0.05 0 0 0.10 0.10 0.05 0 0 0.12 0.10 0.15 0 0.05 0 0.15 0 0.05 0 0.10 0.10 0.110 0.05 0 0 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0
0.22 0.14 0.11 0.10 0.05 0.06 0 0.15 0.19 0.27 0.21 0 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0 0 0.06 0 0 0.05 0.05 0.06 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.30 0.42 0.10 0 0.05 0 0 0.10 0.10 0.12 0.10 0.15 0 0.05 0 0.05 0 0.05 0 0.05
0.14 0.11 0.10 0.05 0.06 0 0.15 0.19 0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.30 0.42 0.10 0.05 0 0 0.10 0.10 0.12 0.10 0.15 0 0.05 0 0.15 0 0.05 0 0.10 0.15 0 0.05 0 0.05 0 0.10 0.05 0 0 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0
0.11 0.10 0.05 0.06 0 0.15 0.19 0.27 0.21 0 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0 0	0.42 0.10 0.05 0 0 0.10 0.05 0 0 0.12 0.10 0.15 0 0.05 0 0 0.05 0 0 0.10
0.10 0.05 0.06 0 0.15 0.19 0.27 0.21 0 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.10 0.05 0 0 0 0 0.10 0.10 0.12 0.10 0.15 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0 0.05 0 0 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0
0.05 0.06 0 0.15 0.19 0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.05 0 0 0 0.10 0.10 0.05 0 0.12 0.10 0.15 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0.05 0 0 0.05 0 0 0.10 0.10 0.05 0 0 0.10 0.10 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0
0.05 0.06 0 0.15 0.19 0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.05 0 0 0 0.10 0.10 0.05 0 0.12 0.10 0.15 0 0.05 0 0 0.05 0 0 0.05 0 0 0.05 0 0 0.05 0 0 0.10 0.10 0.10 0.10 0.10 0.05 0 0 0 0 0 0 0 0 0 0 0 0 0
0.06 0 0.15 0.19 0.27 0.21 0 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0 0 0.10 0.10 0.05 0 0 0.12 0.10 0.15 0 0.05 0 0 0.05 0 0 0.10
0 0.15 0.19 0.27 0.21 0 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0 0.10 0.05 0 0.05 0 0.12 0.10 0.15 0 0.05 0 0 0 0.10
0.15 0.19 0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0 0.10 0.05 0 0.12 0.10 0.15 0 0.05 0 0 0 0.10
0.19 0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.10 0.05 0 0.12 0.10 0.15 0 0.05 0 0 0 0
0.27 0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.05 0 0.12 0.10 0.15 0 0.05 0 0 0 0
0.21 0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0 0.12 0.10 0.15 0 0.05 0 0 0
0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.12 0.10 0.15 0 0.05 0 0 0
0 0.05 0.25 0.22 0.10 0.16 0.12 0.06 0	0.12 0.10 0.15 0 0.05 0 0 0
0.03 0.25 0.22 0.10 0.16 0.12 0.06 0	0.10 0.15 0 0.05 0 0 0
0.23 0.22 0.10 0.16 0.12 0.06 0	0.13 0 0.05 0 0 0
0.22 0.10 0.16 0.12 0.06 0	0.05 0 0 0.10
0.10 0.16 0.12 0.06 0	0.10
0.10 0.12 0.06 0	0
0.12	0.10
0.06	0.10
0	
	0
0.11	0
0.30	0.15
0.10	0.10
0.22	0.20
0.16	0.10
0	0
0.04	0
0.04	0
0.03	0.05
0.12	0.05
0.00	0.05
0.15	0.05
0.16	0
	0.03 0.12 0.06 0.15 0.16

1-2-P	TH 039D	0	0
2-2-P	TH 066D	0.05	0.05
3-2-P	TH 094-3	0	0
4-2-P	TH 099E	0.04	0.05
5-2-P	TH 061	0.06	0.10
6-2-P	TH 020	0.17	0.07
7-2-P	TH 017E	0.10	0.05
1-3-R	TH 098E-1	0.11	0.05
2-3-R	TH 067D	0.06	0
3-3-R	TH 108	0.12	0.05
4-3-R	TH 111-B	0.06	0.07
5-3-R	TH 061D RC4	0.10	0.05
6-3-R	TH 035B	0.11	0
7-3-R	TH 099E	0.10	0
110	TH 000E PC3	0.20	0.07
215	TH 039E KC3	0.07	0.07
2-1-5	TH 004 2	0.07	0.12
3-1-5	TH 020	0.09	0.12
4-1-5	TU 000E DC1	0.00	0.10
5-1-5	TH 099E KCI	0	0
0-1-5	TH 019E	0.12	0.10
/-1-5	IH 094-2	0.15	0.10
1-2-T	TH 099B	0	0
2-2-T	TH 116-2	0.07	0
3-2-T	TH 064D-2	0.07	0.05
4-2-T	TH 099E-6	0.08	0.07
5-2-T	TH 035B RC3	0	0.15
6-2-T	TH 059	0	0.10
7-2-T	TH 111	0.06	0.26
1-3-X	001 F	0.22	0.05
2-3-X	002 F	0.20	0.10
3-3-X	003 F	0.36	0.07
4-3-X	004 F	0.30	0.05
5-3-X	005 F	0.07	0.10
	006 F	0.25	0.07
6-3-X			

0	0.07	008 F	1-1-Y
0	0	009 F	2-1-Y
0	0	010 F	3-1-Y
0.28	0.09	011 F	4-1-Y
0	0.10	012 F	5-1-Y
0.10	0.15	013 F	6-1-Y
0.12	0.08	014 F	7-1-Y
0	0.14	015 F	1-2-Z
0.05	0.08	016 F	2-2-Z
0	0	017 F	3-2-Z
0	0	018 F	4-2-Z
0	0.06	019 F	5-2-Z
	0.00	0171	5-4-6

Valery J. Zhuravlev, Ph.D., P.Eng. Consultant

# Map 1 Results

	TESTHOLE #	CONCENTRATION (g/t)	TESTHOLE #	CONCEN	NTRATION (g/t)
LAB COD	E				LAB CODE
2-2-B	22C-RC1	0.51	66D-RC1	0.05	2-2-P
6-1-G	61D-RC1	0.27	67D-RC1	0.06	2-3-R
5-2-B	61D-RC2	0.15	67D-RC2	0.15	2-3-C
5-2-P	61D-RC3	0.06	71D-RC1	N/A	
5-3-R	61D-RC4	0.10			
	61D-RC5	N/A	74D-RC1	0.16	7-3-N
			74D-RC2	N/A	
7-2-M	62D-RC1	0.12			
			099B-RC1	0.00	1-2-T
2-3-N	63D-RC1	0.00			
			039D-RC1	0.00	1-2-P
	64D-RC1				
3-2-T	64D-RC2	0.07	040D-RC1	0.20	4-3-C
4-2-J	65D-RC1	0.07	058D-RC1	0.00	6-2-J
1-3-C	65D-RC2	0.20			
7-2-B	65D-RC3	0.18	060D-RC1	0.30	2-1-A

# Map 2 Results

	TESTHOLE #	CONCENTRATION (g/t)	TESTHOLE #	CONCE	NTRATION (g/t)	
LAB CO	DE				LAB CODE	
	94E-RC1	N/A	97E-RC7	0.04	4-2-P	
	94E-RC2	N/A				
			98E-RC1	1.20	6-1-A	
6-3-K	95E-RC1	0.11	98E-RC2	0.11	1-3-R	
5-3-F	95E-RC2	0.05	98E-RC3	0.11	3-3-N	
			98E-RC4	0.22	4-3-K	
	96E-RC1	0.05				
	96E-RC2	0.05				
	96E-RC3	0.005				
	96E-RC4	0.19				
3-3-F	96E-RC5	0.10				
6-2-M	97E-RC1	0.16				
6-3-N	97E-RC2	0.22				
1-1-S	97E-RC3	0.20				
2-2-M	97E-RC4	0.05				
6-1-0	97E-RC5	0.15				
7-3-R	97E-RC6	0.10				

# Map 3 Results

	TESTHOLE #	CONCENTRATION (g/t)	TESTHOLE #	CONCE	NTRATION (g/t)
LAB COD	E				LAB CODE
3-1-G	16E-RC1	0.00	185B-3	5.63	2-3-K
1-1-A	16E-RC2	0.45	185B-4	N/A	
1-3-F	17E-RC1	0.10			
6-1-S	19E-RC1	0.00			
	26E-RC1	N/A			
3-2-J	99E-RC1	0.33			
5-1-A	99E-RC2	1.36			
4-1-A, 1-2-	J99E-RC3	3.30, 2.90, 3.5			
1-2-B	99E-RC4	1.65			
	99E-RC5	N/A			
4-2-T	99E-RC6	0.08			
7-1-A	185B-1	0.66			
	185B-2	0.25			