

# Resources Reporting

# Resources Reporting

## Project 1

Geological type : Intrusive

Reported resources (in place)

Indicated resources : 25 000 tU @ 0.04%U

Inferred resources : 15 000 tU@ 0.035%U

Feasibility study:

Mining method: Open-pit

Process: Heap-leaching

Total recovery: 75%

Cost: USD120/kgU

# Resources Reporting

## Project 2

Geological type: Calcrete

Reported resources (in place)

Indicated resources: 20 000 tU @ 0.02%U

Inferred resources: 27 000 tU@ 0.02%U

Feasibility study:

Mining method: Open-pit

Process: Heap-leaching

Total recovery: 85%

Cost: USD200/kgU

# Resources Reporting

## Project 3

Geological type: Sandstone

Reported resources (in place)

Inferred resources: 12 000 tU @ 0.25 %U

No feasibility study

Expected mining method: Open-pit

Expected process: Conventional

# Resources Reporting

## Project 4

Geological type: Sandstone

Reported resources (in place)

Inferred resources: 16 000 tU<sub>3</sub>O<sub>8</sub> @ 0.12 %U<sub>3</sub>O<sub>8</sub>

No feasibility study

Expected mining method: ISL

Expected process: Acid

# Resources Reporting

## Reasonably assured conventional resources by production method (tonnes U)

Production method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Underground mining (UG)					
Open-pit mining (OP)					
<i>In situ</i> leaching acid					
<i>In situ</i> leaching alkaline					
Co-product and by-product					
Unspecified					
Total					

# Resources Reporting

## Reasonably assured conventional resources by processing method (tonnes U)

Processing method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Conventional from UG					
Conventional from OP					
<i>In situ</i> leaching acid					
<i>In situ</i> leaching alkaline					
In-place leaching*					
Heap leaching** from UG					
Heap leaching** from OP					
Unspecified					
<b>Total</b>					

# Resources Reporting

## Reasonably assured conventional resources by deposit type (tonnes U)

Deposit type	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU
Proterozoic unconformity				
Sandstone				
Polymetallic Fe-oxide breccia complex				
Paleo-quartz-pebble conglomerate				
Granite-related				
Metamorphite				
Intrusive				
Volcanic-related				
Metasomatite				
Surficial				
Carbonate				
<b>Total</b>				



# Resources Reporting

## Inferred conventional resources by production method (tonnes U)

Production method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Underground mining (UG)					
Open-pit mining (OP)					
<i>In situ</i> leaching acid					
<i>In situ</i> leaching alkaline					
Co-product and by-product					
Unspecified					
<b>Total</b>					

# Resources Reporting

## Inferred conventional resources by processing method (tonnes U)

Processing method	<USD40/kgU	<USD 40/kgU	<USD 40/kgU	<USD 40/kgU	Recovery factor
Conventional from UG					
Conventional from OP					
<i>In situ</i> leaching acid					
<i>In situ</i> leaching alkaline					
In-place leaching*					
Heap leaching** from UG					
Heap leaching** from OP					
Unspecified					
<b>Total</b>					

# Resources Reporting

## Inferred conventional resources by deposit type (tonnes U)

Deposit type	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU
Proterozoic unconformity				
Sandstone				
Polymetallic Fe-oxide breccia complex				
Paleo-quartz-pebble conglomerate				
Granite-related				
Metamorphite				
Intrusive				
Volcanic-related				
Metasomatite				
Surficial				
Carbonate				
<b>Total</b>				

# Resources Reporting

## Conversion to metric

$$1\% \text{ U}_3\text{O}_8 = 0.848\% \text{ U}$$

$$1 \text{ t U}_3\text{O}_8 = 0.848 \text{ tU}$$

## Project 4

$$16\,000 \text{ tU}_3\text{O}_8 @ 0.12\% \text{ U}_3\text{O}_8 = 13\,568 \text{ tU} @ 0.10\% \text{ U}$$

# Resources Reporting

## Recovery factor

<b>Project 1: Open-pit / HL</b>	<b>75%</b>
<b>Project 2: Open-pit /HL</b>	<b>85 %</b>
<b>Project 3: Open-pit / Conventional</b>	<b>80 %</b>
<b>Project 4: ISL Acid</b>	<b>75 %</b>

# Resources Reporting

## Recoverable Resources

### Project 1:

**Indicated Resources:**                    **25 000 tU x 0.75 = 18 750 tU**

**Inferred Resources:**                    **15 000 tU x 0.75 = 11 250 tU**

### Project 2:

**Indicated Resources:**                    **20 000 tU x 0.85 = 17 000 tU**

**Inferred Resources:**                    **27 000 tU x 0.85 = 22 950 tU**

# Resources Reporting

## Recoverable Resources

### Project 3:

**Inferred Resources:**                    **12 000 tU x 0.80 = 9 600 tU**

### Project 4:

**Inferred Resources:**                    **13 568 tU x 0.75 = 10 176 tU**

# Resources Reporting

## **Cost category**

<b>Project 1:</b>	<b>USD 80-130 / kgU</b>
<b>Project 2:</b>	<b>USD 130-260 / kgU</b>
<b>Project 3:</b>	<b>USD 80-130 / kgU</b>
<b>Project 4:</b>	<b>USD 40-80 / kgU</b>



# Resources Reporting

## Resources category

	Identified resources		Undiscovered resources			
<b>NEA/IAEA</b>	Reasonably assured		Inferred	Prognosticated	Speculative	
<b>Australia</b>	Demonstrated		Inferred	Undiscovered		
	Measured	Indicated				
<b>Canada (NRCan)</b>	Measured	Indicated	Inferred	Prognosticated	Speculative	
<b>United States (DOE)</b>	Reasonably assured		Estimated additional		Speculative	
<b>Russian Federation, Kazakhstan, Ukraine, Uzbekistan</b>	A + B	C1	C2	P1	P2	P3

# Resources Reporting

## Reasonably assured conventional resources by production method (tonnes U)

Production method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Underground mining (UG)	0	0	0	0	
Open-pit mining (OP)	0	0	18 750	35 750	79
<i>In situ</i> leaching acid	0	0	0	0	
<i>In situ</i> leaching alkaline	0	0	0	0	
Co-product and by-product	0	0	0	0	
Unspecified	0		0	0	
Total	0	0	18 750	35 750	79

# Resources Reporting

## Reasonably assured conventional resources by processing method (tonnes U)

Processing method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Conventional from UG	0	0	0	0	
Conventional from OP	0	0	0	0	
<i>In situ</i> leaching acid	0	0	0	0	
<i>In situ</i> leaching alkaline	0	0	0	0	
In-place leaching*	0	0	0	0	
Heap leaching** from UG	0	0	0	0	
Heap leaching** from OP	0	0	18 750	35 750	79
Unspecified	0	0	0	0	
<b>Total</b>	0	0	18 750	35 750	79

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## Reasonably assured conventional resources by deposit type (tonnes U)

Deposit type	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU
Proterozoic unconformity	0	0	0	0
Sandstone	0	0	0	0
Polymetallic Fe-oxide breccia complex	0	0	0	0
Paleo-quartz-pebble conglomerate	0	0	0	0
Granite-related	0	0	0	0
Metamorphite	0	0	0	0
Intrusive	0	0	18 750	18 750
Volcanic-related	0	0	0	0
Metasomatite	0	0	0	0
Surficial	0	0	0	17 000
Carbonate	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>18 750</b>	<b>35 750</b>

# Resources Reporting

## Inferred conventional resources by production method (tonnes U)

Production method	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU	Recovery factor
Underground mining (UG)	0	0	0	0	
Open-pit mining (OP)	0	0	20 850	43 800	81
<i>In situ</i> leaching acid	0	10 176	10 176	10 176	75
<i>In situ</i> leaching alkaline	0	0	0	0	
Co-product and by-product	0	0	0	0	
Unspecified	0	0	0	0	
<b>Total</b>	0	10 176	31 026	53 976	80

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## Inferred conventional resources by processing method (tonnes U)

Processing method	<USD40/kgU	<USD 40/kgU	<USD 40/kgU	<USD 40/kgU	Recovery factor
Conventional from UG	0	0	0	0	
Conventional from OP	0	0	9 600	9 600	80
<i>In situ</i> leaching acid	0	10 176	10 176	10 176	75
<i>In situ</i> leaching alkaline	0	0	0	0	
In-place leaching*	0	0	0	0	
Heap leaching** from UG	0	0	0	0	
Heap leaching** from OP	0	0	11 250	34 200	81
Unspecified	0	0	0	0	
<b>Total</b>		10 176	31 026	53 976	80

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## Inferred conventional resources by deposit type (tonnes U)

Deposit type	<USD 40/kgU	<USD 80/kgU	<USD 130/kgU	<USD 260/kgU
Proterozoic unconformity	0	0	0	0
Sandstone	0	10 176	19 776	19 776
Polymetallic Fe-oxide breccia complex	0	0	0	0
Paleo-quartz-pebble conglomerate	0	0	0	0
Granite-related	0	0	0	0
Metamorphite	0	0	0	0
Intrusive	0	0	11 250	11 250
Volcanic-related	0	0	0	0
Metasomatite	0	0	0	0
Surficial	0	0	0	22 950
Carbonate	0	0	0	0
<b>Total</b>	<b>0</b>	<b>10 176</b>	<b>31 026</b>	<b>53 976</b>