

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
0															
10															
20															
30															
40															
50															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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50															
60															
70															
80															
90															
100															

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100															
110															
120															
130															
140															
150															

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150															
160															
170															
180															
190															
200															

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200															
210															
220															
230															
240															
250															

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250															
260															
270															
280															
290															
300															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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300															
310															
320															
330															
340															
350															

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350															
360															
370															
380															
390															
400															

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400															
410															
420															
430															
440															
450															

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450															
460															
470															
480															
490															
500															

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500															
510															
520															
530															
540															
550															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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550															
560															
570															
580															
590															
600															

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600															
610															
620															
630															
640															
650															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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650															
660															
670															
680															
690															
700															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Chert	■ Felsic Volcaniclastic	■ Tuff Siltstone		

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
700															
710															
720															
730															
740															
750															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
--	---	--	--	---	--	---

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

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Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
750															
760															
770															
780															
790															
800															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
--	---	---	--	---	--	---

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS
Rosebery

Prospect: NRL
North Lake Rosebery

Northing: 5378392.8 mN
Easting: 379741.8 mE
RL: 386.5 mRL
CoordSys: MGA55 (GDA94)

Dip:
MAG_Azim:
Total Depth: 1525.2 m
DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
800															
810															
820															
830															
840															
850															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
--	---	--	--	---	--	--

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
850															
860															
870															
880															
890															
900															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
---	---	---	--	---	--	---

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
900															
910															
920															
930															
940															
950															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
--	---	---	--	---	--	---

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
950															
960															
970															
980															
990															
1000															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1050															
1060															
1070															
1080															
1090															
1100															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1100															
1110															
1120															
1130															
1140															
1150															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ⚡ Felsic Flow ⚡ Feldspathic porphyry ⚡ Mafic Dyke ⚡ Quartz Feldspar Porphyry ⚡ Quartz Porphyry ⚡ Schist ⚡ Slate 	<ul style="list-style-type: none"> ⚡ Disseminated Sulphides ⚡ Quartz ⚡ Limestone ⚡ Dolomite ⚡ Shale ⚡ Siltstone ⚡ Chert 	<ul style="list-style-type: none"> ⚡ Interbedded sandstone/siltstone ⚡ Andesite ⚡ Crystal Tuff ⚡ Dacite ⚡ Dacite Lapilli Tuff ⚡ Felsic tuff ⚡ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ⚡ Intermediate flow ⚡ Intermediate Volcaniclastic ⚡ Lapilli Tuff ⚡ Lithic Tuff ⚡ Rhyolite ⚡ Rhyolite Breccia ⚡ Tuff Siltstone 	<ul style="list-style-type: none"> ⚡ Undifferentiated Volcaniclastic ⚡ Volcanic Breccia ⚡ Volcanic Conglomerate ⚡ Volcanic Sandstone ⚡ Volcanic Siltstone ⚡ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ⚡ Background ⚡ Elevated ⚡ Anomalous ⚡ Strongly Anomalous ⚡ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip:

Easting: 379741.8 mE

MAG_Azim:

RL: 386.5 mRL

Total Depth: 1525.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1150															
1160															
1170															
1180															
1190															
1200															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Chert	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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Hole ID: 413R-D4



Northing: 5378392.8 mN

Dip:

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MAG_Azim:

Rosebery

RL: 386.5 mRL

Total Depth: 1525.2 m

Prospect: NRL

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HW	GRY	VBX		brc				Wedging off.							
HW	GRY	VBX		brc	qph	se	cb	Qz crystal rich volcaniclastic breccia. Abundant 1-4mm sub-angular to sub-rounded Qz crystals which are matrix supported. Patchy cb alteration and veining.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ● Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Northing: 5378392.8 mN

Dip:

Project: ROS

Easting: 379741.8 mE

MAG_Azim:

Rosebery

RL: 386.5 mRL

Total Depth: 1525.2 m

Prospect: NRL

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HW	GRY	VBX		brc	qph	se cb		Qz crystal rich volcanoclastic breccia. Abundant 1-4mm sub-angular to sub-rounded Qz crystals which are matrix supported. Patchy cb alteration and veining.							
HW	GRY	VBX		brc	pol qph	se cb		Qz crystal dominant polymict volcanoclastic breccia. Appears to fine up to a siltstone/sandstone at ~1253m thus possibly the start of a mass flow sequence here. Unit quickly coarsens into a breccia and is composed of predominantly 1-3mm Qz lithics, 20-50mm siltstone/mudstone clasts, rare rhyo-dacite clasts and 1 amygdaloidal clast was sighted. Common thin Cl veining throughout interval.							
HW	GRY	VSS		brc	qph	se ch		Qz rich volcanoclastic sandstone. Generally moderate to well sorted 1-3mm Qz crystal rich sandstone. Rare rhyo-dacite clasts towards the end of interval.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic Tuff/Siltstone 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff/Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Northing: 5378392.8 mN

Dip:

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MAG_Azim:

Rosebery

RL: 386.5 mRL

Total Depth: 1525.2 m

Prospect: NRL

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1300	HW	GRY	VSS		brc	qph	se ch	Qz rich volcanoclastic sandstone. Generally moderate to well sorted 1-3mm Qz crystal rich sandstone. Rare rhyo-dacite clasts towards the end of interval.							
1310															
1320															
1330	HW	GRY	VSL		mso	san qph	se cb	Moderate to well sorted volcanoclastic siltstone to sandstone. Contact at 1321.9m is tentative, however, the lithology seems to move from a Qz rich sandstone to the finer siltstone sandstone unit at this depth. This unit is still Qz rich however, generally it has a finer grained appearance.							
1340															
1350															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Northing: 5378392.8 mN

Dip:

Project: ROS

Easting: 379741.8 mE

MAG_Azim:

Rosebery

RL: 386.5 mRL

Total Depth: 1525.2 m

Prospect: NRL

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1350	HW	GRY	VSL		mso	san qph	se cb	Moderate to well sorted volcanoclastic siltstone to sandstone. Contact at 1321.9m is tentative, however, the lithology seems to move from a Qz rich sandstone to the finer siltstone sandstone unit at this depth. This unit is still Qz rich however, generally it has a finer grained appearance.							
1360	HW	GRY	VBX		brc	pol fia	se ch	Polymict volcanoclastic breccia, presumably the coarse basal part of the above finer unit. Qz-Fd lithic rich rock with occasional white porphyritic rhyolite clasts, siltstone clasts and fiamme.							
1370	HW	GRY	VSS		brc	fol	se cb	Strongly Se altered and foliated, volcanoclastic sandstone. Rock has a distinct wispy sericite foliation that is 85-90 degrees to LCA.							
1380	HW	GRY	VSS		brc	san	se	Qz bearing volcanoclastic sandstone - likely a continuation of the same unit above however, lacking the Se banding/wisps.							
1390	HW	GRY	VBX		brc	sil pum	se cb	Fine volcanoclastic siltstone containing pumice "floats" which then coarsens into a Qz crystal rich sandstone. There is also a 1-2m interval with common 3-5cm shale rafts.							
1400															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic Tuff/Siltstone 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff/Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D4



Northing: 5378392.8 mN
Easting: 379741.8 mE
RL: 386.5 mRL
CoordSys: MGA55 (GDA94)

Dip:
MAG_Azim:
Total Depth: 1525.2 m
DrillCompany: BLY

Project: ROS
Rosebery
Prospect: NRL
North Lake Rosebery

Elevation (m)	Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb	Zn	Cu	Ag	Au	Fe
											pct	pct	pct	ppm	ppm	pct
1450	HOTS	YEL-GRY	VSL		bed	fol slt	se si	sp ga	Pale grey to yellow, selectively Se altered and strongly silicified fine grained volcaniclastic siltstone/ash with trace Sp bearing "stringers." The Sp is a very pale brown colour, and occurs in occasional "stringers" +/- Ga which are typically 5-15cm in width and consistent with the orientation of the dominant cleavage. One "stringer" of good disseminated sulphide - true thickness only 5-10cm however, because of the low angle of bedding to LCA the interval is 25cm. Again it is predominantly pale brown Sp with minor Ga mineralisation. This is the best interval of the hole :(Mineralisation ? = 18 degrees ? = 350 Fine grained and bedded volcaniclastic siltstone/ash. Strong disseminated Py mineralisation in parts. Sp has died out with only rare <10mm stringers. Unit appears to coarsen in parts - possibly containing some Se altered pumiceous material.	D1394518	0.0	0.2	0.0	3.00	0.09	1.7
								D1394519		0.2	1.8	0.0	43.00	0.13	1.0	
								D1394520		0.1	0.4	0.0	4.00	0.02	0.8	
								D1394521		0.7	1.5	0.0	65.00	0.26	1.4	
								D1394522		0.0	0.2	0.0	1.00	-0.01	0.8	
								D1394523		1.5	3.3	0.2	243.00	0.82	2.4	
								D1394525	0.1	0.6	0.0	5.00	0.08	1.2		
1460																
1470																
1480																
1490	HOTS	GRY	VSS			san	se cb	py	Strongly Se-Py-Cb altered volcaniclastic sandstone. Presumably this is a conformable coarsening from the above siltstone unit. This unit is marked by apparent 1-2mm elongate black shale clasts. Only trace specks of Sp present.							
1500	HOTS	GRY	VSL		bed	sil	cb se	py	Pyritic fine grained volcaniclastic siltstone (borderline shale). Strong Py min which is generally conformable to bedding or S1 foliation. Common thin 1-2mm calcite veins.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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Hole ID: 413R-D4



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Total Depth: 1525.2 m

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North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HOTS	GRY	VSL		bed	sil	cb se	py	Pyritic fine grained volcanoclastic siltstone (borderline shale). Strong Py min which is generally conformable to bedding or S1 foliation. Common thin 1-2mm calcite veins.							
FW	YEL-GRN	VBX		brc	pol pum	se si	py ga	"Footwall" Qz-Pumice rich polymict volcanoclastic breccia. Again the contact between the above siltstones and this breccia unit is intriguing/confusing. My latest interpretation is that this is an erosional unconformity. Patchy Py min in parts +/- Ga which is generally vein related. Intense Se alteration.							

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