

## New HRE discoveries confirmed by Browns Range drilling

### Highlights:

- Drilling results confirm new areas of Heavy Rare Earth (HRE) mineralisation and further growth potential for Browns Range project.
- Newly drilled area at Gambit West delivers a new zone of HRE - extending the mineralised Gambit geological structure to more than 1km strike potential.
- Mineralisation extended at Area 5 prospect with assay results of up to 11m @ 1.15% from 11m and 7m @ 3.83% TREO from 119m.
- First pass drilling at Mystique identifies HRE mineralisation, with intersections up to 10m @ 0.73% TREO.
- First pass drilling at Banshee identifies HRE mineralisation, with intersections up to 14m @ 0.52% TREO from 95m and 10m @ 0.71% TREO from 68m.
- Broad zone of shallow low-grade mineralisation intersected at Banshee with results of 12m @ 0.25% TREO from surface.



Photo of Drilling at Gambit prospect

Northern Minerals (ASX:NTU) is pleased to announce early results from its recent drilling program at the Browns Range project, which has produced some significant HRE intersections at new mineralised zones.

The exploration program included first pass drilling across a number of new targets at Browns Range in northern Western Australia (WA), with more than 5,600 metres of Reverse Circulation (RC) drilling at the Mystique, Banshee, Sabretooth and Cyclops prospects and 8,400m at the existing Gambit and Area 5 prospects.

Results to date have confirmed HRE mineralisation at the Mystique and Banshee targets, with some particularly exciting high grade intersections at a new area west of the established Gambit prospect. In addition, the extent of HRE mineralisation has been increased at the Area 5 prospect. Assay results for the RC drilling completed within the central Gambit area are currently still pending.

The results are a further boost for the Browns Range project, where Northern Minerals is aiming to produce its maiden JORC resource before the end of 2012 at the advanced Wolverine prospect.

Northern Minerals Managing Director George Bauk said the initial results had supported the potential for further significant HRE discoveries similar to the Wolverine and Gambit prospects.

"These are outstanding drill results which confirm some significant new HRE discoveries at Browns Range, and highlight the fact that we have really only just started to tap into the regional potential of the project," Mr Bauk said.

"While the Wolverine prospect continues to deliver and is currently being progressed toward a JORC resource status, we also have a pipeline of earlier stage projects which we are working to prove up as part of our strategy to build a significant mineral inventory in the region for the future."

"The new discovery at west Gambit is particularly exciting, and indicates a more significant mineralised geological structure in the Gambit region which we will continue to test," he said.

### **Gambit West**

The drilling program targeted a new zone which lies approximately 350 meters west of the current Gambit prospect. A 500m long target area was identified by geochemical soil sampling, which was followed up with 23 holes as part of the RC program. The soil sampling was in an area of mixed soil cover and subcrop (Figure 1).

Results are from portable XRF measurements of yttrium which indicate a WSW trending subvertical HRE mineralised structure. The mineralisation is widening from 4m on drill section 493 000mE to approximately 12m on 493 200mE. Figure 2 is an interpretation of the mineralisation envelope from portable XRF measurements. There is approximately 150m of untested strike to the east of 493 200mE. Laboratory assay results are required to confirm the portable XRF measurements; however based on previous experience at Browns Range the correlation between portable XRF yttrium measurements and final assay results has been excellent. Assay results are expected in late November 2012, and data compilation and interpretation is currently on-going.

In 2012 RC Drilling at the entire Gambit prospect has comprised 62 drill holes for 4,609m. Assay results from the central Gambit area are also expected in late November.

Mr Bauk said; "We have received some exciting early indications of xenotime mineralisation across significant widths. The mineralisation is along strike from Gambit, indicating a prospective mineralised structure with a strike length of up to 1km. The results also vindicate our soil and geochemical exploration program as a reliable method of identifying these types of structure and targets across the Browns Range Dome region."

The new Gambit west area will be a priority target for follow up drilling, which is likely to commence in the first half of 2013 after the northern wet season.

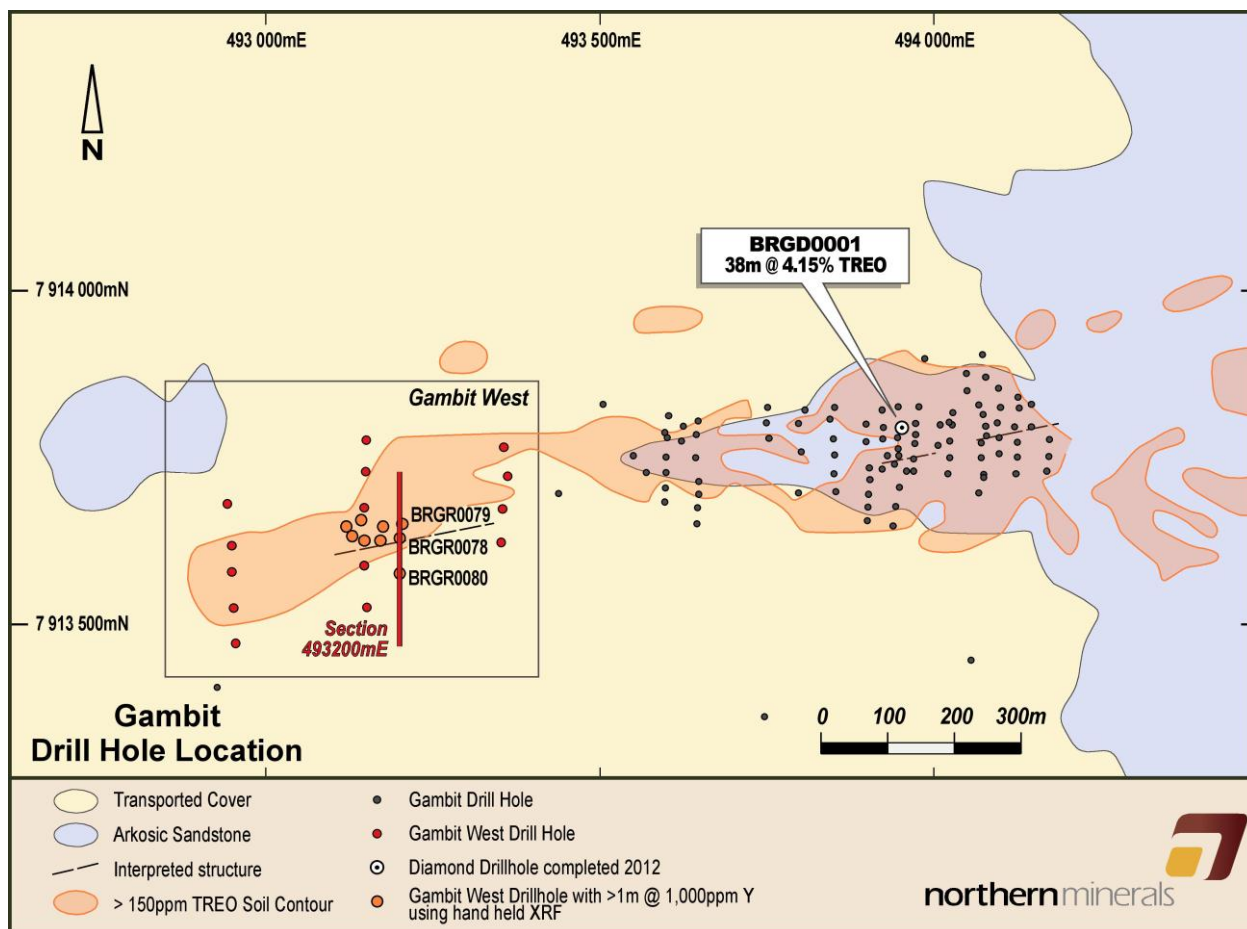


Figure 1: Drill location plan for Gambit West prospect



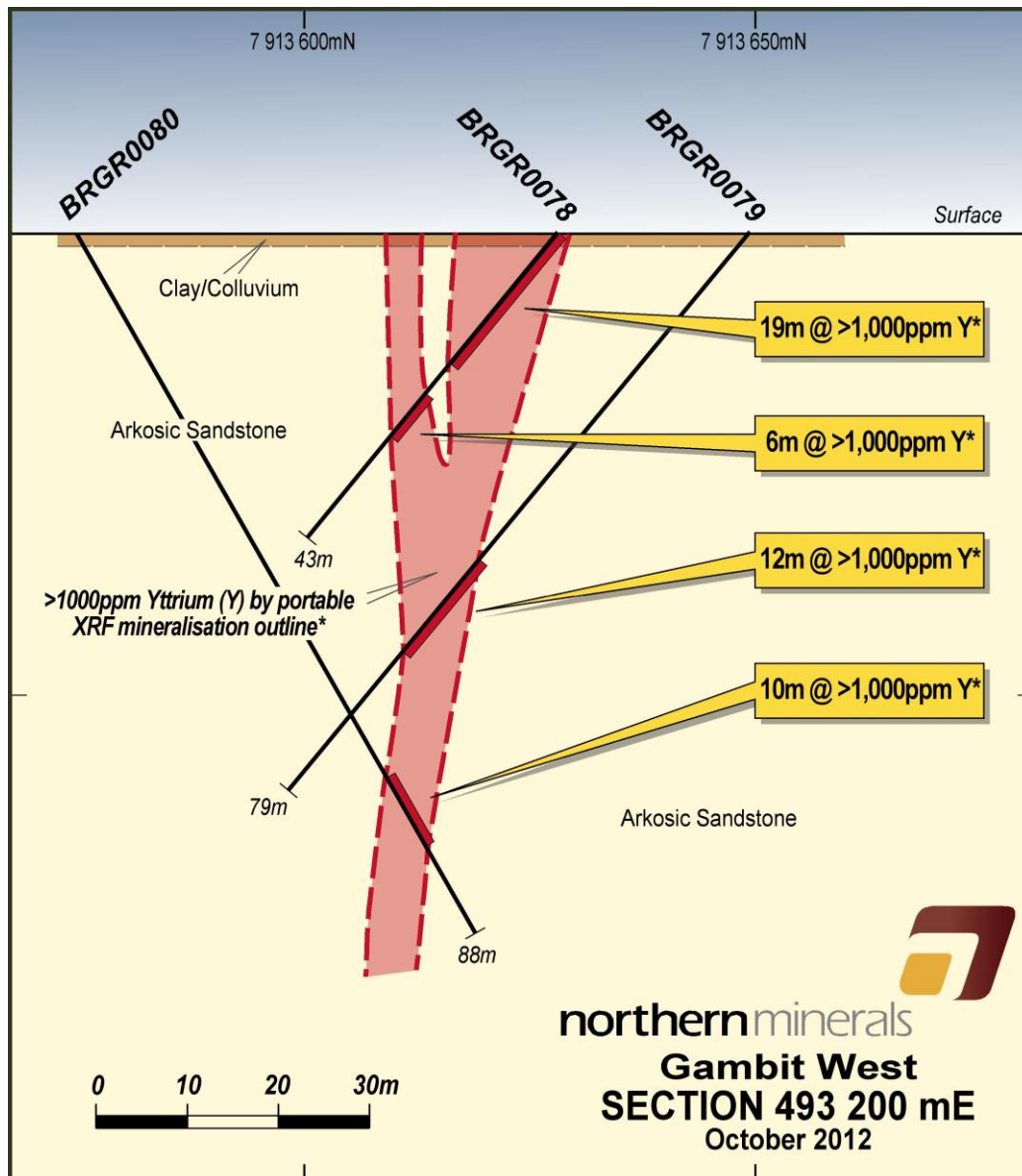


Figure 2: Gambit West - Mineralisation indicated by portable XRF measurements cross section 493 200mE

#### Area 5

Results from follow-up drilling at the Area 5 prospect have extended the mineralisation intersected in the 2011 RC drilling program (see Figure 3 below). In 2011, significant mineralisation was intersected in several holes over downhole widths of 2-19m with some shallow high grade mineralisation (NMBRRC138 - 2m @ 13.9% TREO from 4m). Drilling in 2012 has comprised one diamond drill hole (BRAD0001) drilled to 131m and 33 RC drill holes for 3,116m. New results have indicated mineralisation over downhole widths of up to 19m and include some high-grade mineralisation up to 8.5% TREO over 3m. Mineralisation occurs within quartz veined, silicified and hematitic arkosic sandstones, and appears to be controlled by east-west and northwest-southeast oriented fault structures. Assay results and geological data are currently being compiled and interpreted in order to determine the geometry, continuity and orientation of the mineralisation.

The most significant drilling results include the following (a full list of all significant intercepts i.e.  $\geq 2\text{m}$  @ 0.15% TREO or equivalent, is presented in Table 2 ):

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm)	Y <sub>2</sub> O <sub>3</sub> (ppm)
BRAD0001	68	82	14	0.40	265	1,851
BRAR0001	27	29	2	0.61	472	3,232
BRAR0005	66	78	12	0.48	253	1,803
Inc.	73	76	3	1.23	623	4,461
BRAR0005	81	103	22	0.29	200	1,369
BRAR0010	41	55	14	0.35	233	1,506
BRAR0012	106	115	9	0.57	454	3,046
BRAR0015	55	58	3	0.88	768	4,927
BRAR0018	84	103	19	0.81	749	4,914
Inc.	92	96	4	2.58	2,517	16,137
BRAR0025	33	35	2	1.73	1,380	8,521
BRAR0027	73	82	9	0.64	560	4,034
BRAR0029	11	22	11	1.15	799	5,294
Inc.	16	20	4	2.42	1,612	18,109
BRAR0030	33	37	4	1.09	837	6,057
BRAR0033	119	126	7	3.83	3,714	24,750
Inc.	119	122	3	8.57	8,362	55,643

**NB** – Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied  
Samples were submitted to Genalysis Laboratory for REE analysis using a FP6/OM Sodium Peroxide Fusion Digest

**TREO: Total Rare Earth Oxides** – Total of La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>

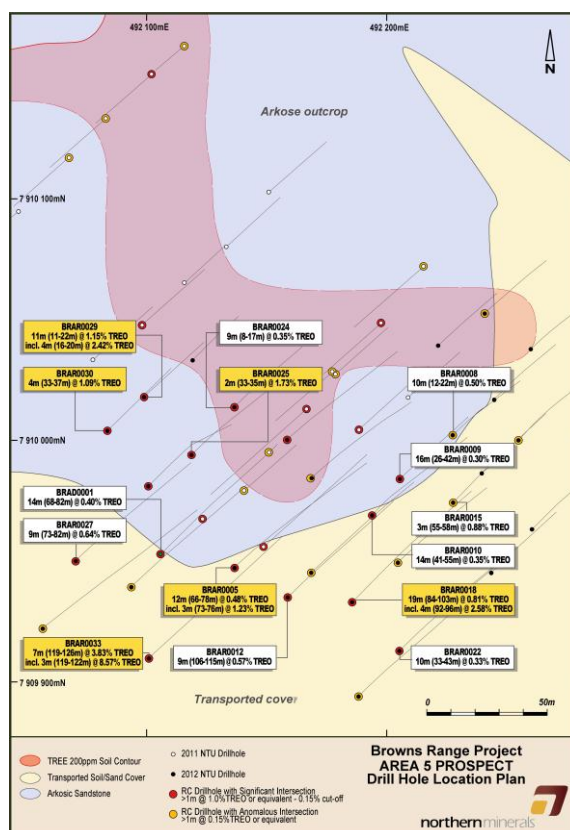


Figure 3: Area 5 Prospect – Drill hole location plan showing significant intercepts Mystique and Banshee

Northern Minerals also conducted a first pass RC drilling program across the new Mystique and Banshee prospects, which lie approximately 10-12km south of Wolverine. (See Figures 4 and 5 below).

The program at Mystique comprised 27 holes (2,534m) across a 1km long soil geochemical target. Results to date have confirmed a HRE mineralised zone with a number of lower grade intersections. Preliminary interpretations of the assay and geological data indicate the mineralisation is steeply dipping towards the south, which suggests most of the first-pass drilling has been drilled down-dip, which may exaggerate the true width of the mineralisation.

The most significant drilling results from Mystique to date include (a full list of all significant intercepts i.e.  $\geq 2\text{m}$  @ 0.15% TREO or equivalent, is presented in Table 3 ):

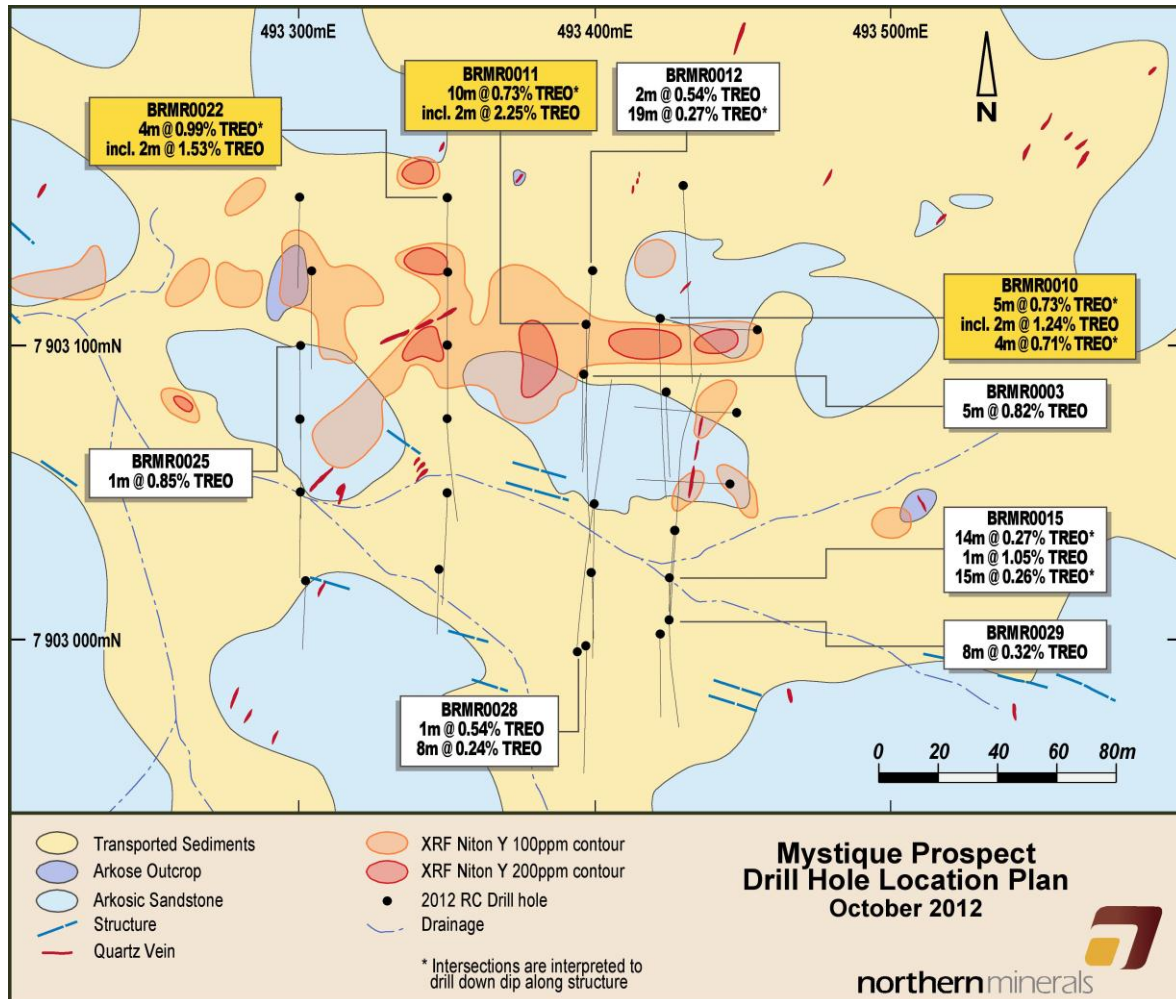
Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm)	Y <sub>2</sub> O <sub>3</sub> (ppm)
BRMR0003*	37	42	5	0.82	746	5,099
BRMR0010* Inc.	0	5	5	0.73	742	4,743
			2	1.24	1257	8,002
BRMR0010*	51	55	4	0.71	693	4,471
BRMR0010*	81	93	12	0.34	333	2,231
BRMR0010*	95	105	10	0.28	273	1,801
BRMR0011* Inc.	76	86	10	0.73	707	4,721
			2	2.25	2,217	14,691
BRMR0011*	95	105	10	0.38	372	2,446
BRMR0012	6	8	2	0.54	388	2,658
BRMR0012*	50	69	19	0.27	211	1,483
BRMR0015*	129	134	5	0.33	235	1,642
BRMR0021	21	27	6	0.42	324	2,215
BRMR0022*	26	30	4	0.99	655	4,292
BRMR0025	38	39	1	0.85	802	5,203
BRMR0026	58	62	4	0.33	310	2,045
BRMR0028	97	105	8	0.24	224	1,580
BRMR0029	99	106	7	0.37	347	2,402
BRMR0029	130	138	8	0.32	307	2,189

\*Intersections interpreted to be drilled down-dip of structure

**NB** – Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied

Samples were submitted to Genalysis Laboratory for REE analysis using a FP6/OM Sodium Peroxide Fusion Digest

**TREO: Total Rare Earth Oxides** – Total of La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>



**Figure 4 – Mystique Prospect – Drill hole location plan showing significant intercepts**

At Banshee, the RC drilling program was also following up a soil and rock chip geochemical anomaly, which produced up to 14% TREO in rock chip samples. Results to date indicate broad zones of low-grade (0.2-0.3% TREO) mineralisation at shallow depths (<20m)(see Figure 5 below). Higher-grade zones have also been intersected at depth with 10m @ 0.71% from 68m.

The most significant drilling results from Banshee to date include (a full list of all significant intercepts i.e.  $\geq 2\text{m @ } 0.15\% \text{ TREO}$  or equivalent, is presented in Table 3 ):

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm)	Y <sub>2</sub> O <sub>3</sub> (ppm)
BRBR0001	35	57	22	0.26	239	1,615
BRBR0006	0	12	12	0.25	196	1,371
BRBR0007	0	7	7	0.42	362	2,711
BRBR0008	2	15	13	0.25	185	1,318
BRBR0009	0	6	6	0.38	325	2,353
BRBR0009	34	51	17	0.31	265	1,995
BRBR0010	34	45	11	0.30	242	1,763
BRBR0011	10	23	13	0.25	210	1,600



Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm)	Y <sub>2</sub> O <sub>3</sub> (ppm)
BRBR0011	28	32	4	1.01	819	6,952
BRBR0012	68	78	10	0.71	650	4,579
Inc.	74	75	1	4.47	4,030	28,704
BRBR0019	26	35	9	0.40	312	2,326
BRBR0020	49	58	9	0.30	262	1,894
Inc.	50	51	1	1.02	905	6,642
BRBR0020	64	71	7	0.44	398	2,934
BRBR0020	95	109	14	0.52	414	3,044
Inc.	102	105	3	1.03	833	6,118
BRBR0021	80	85	5	0.48	432	2,910

**NB** – Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied  
Samples were submitted to Genalysis Laboratory for REE analysis using a FP6/OM Sodium Peroxide Fusion Digest

**TREO: Total Rare Earth Oxides** – Total of La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, Pr<sub>6</sub>O<sub>11</sub>, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, Eu<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, Tb<sub>4</sub>O<sub>7</sub>, Dy<sub>2</sub>O<sub>3</sub>, Ho<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, Tm<sub>2</sub>O<sub>3</sub>, Yb<sub>2</sub>O<sub>3</sub>, Lu<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>

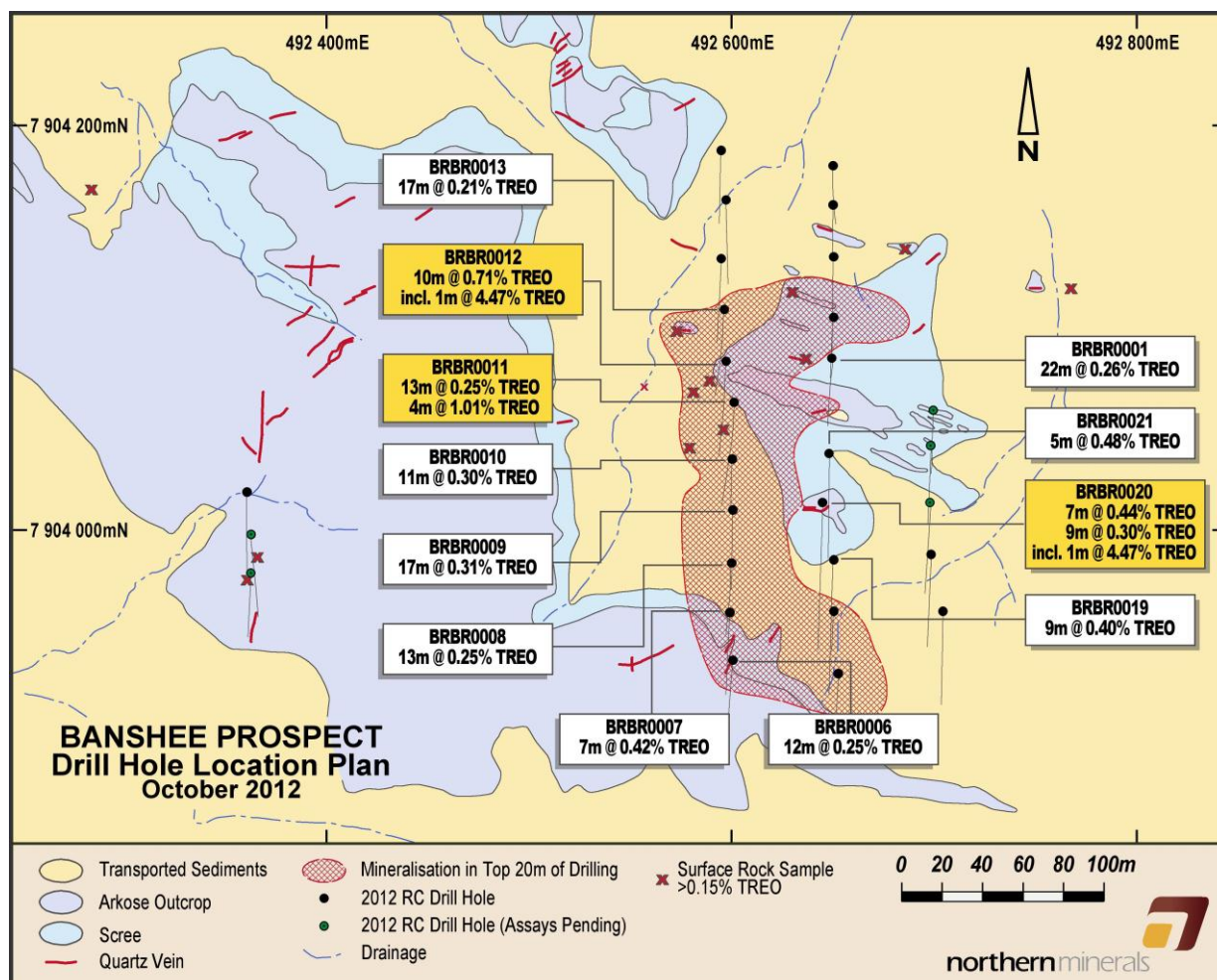


Figure 5 – Banshee Prospect – Drill hole location plan showing significant intercepts

All geological and assay data from both prospects is currently being compiled and interpreted in order to determine the controls, geometry and continuity of the mineralisation.



## Sabretooth and Cyclops

At the Sabretooth prospect 10 shallow RC drill holes for 455m were completed, and at Cyclops 6 RC drill holes for 328m were completed. Assay results from these prospects are expected by late November.

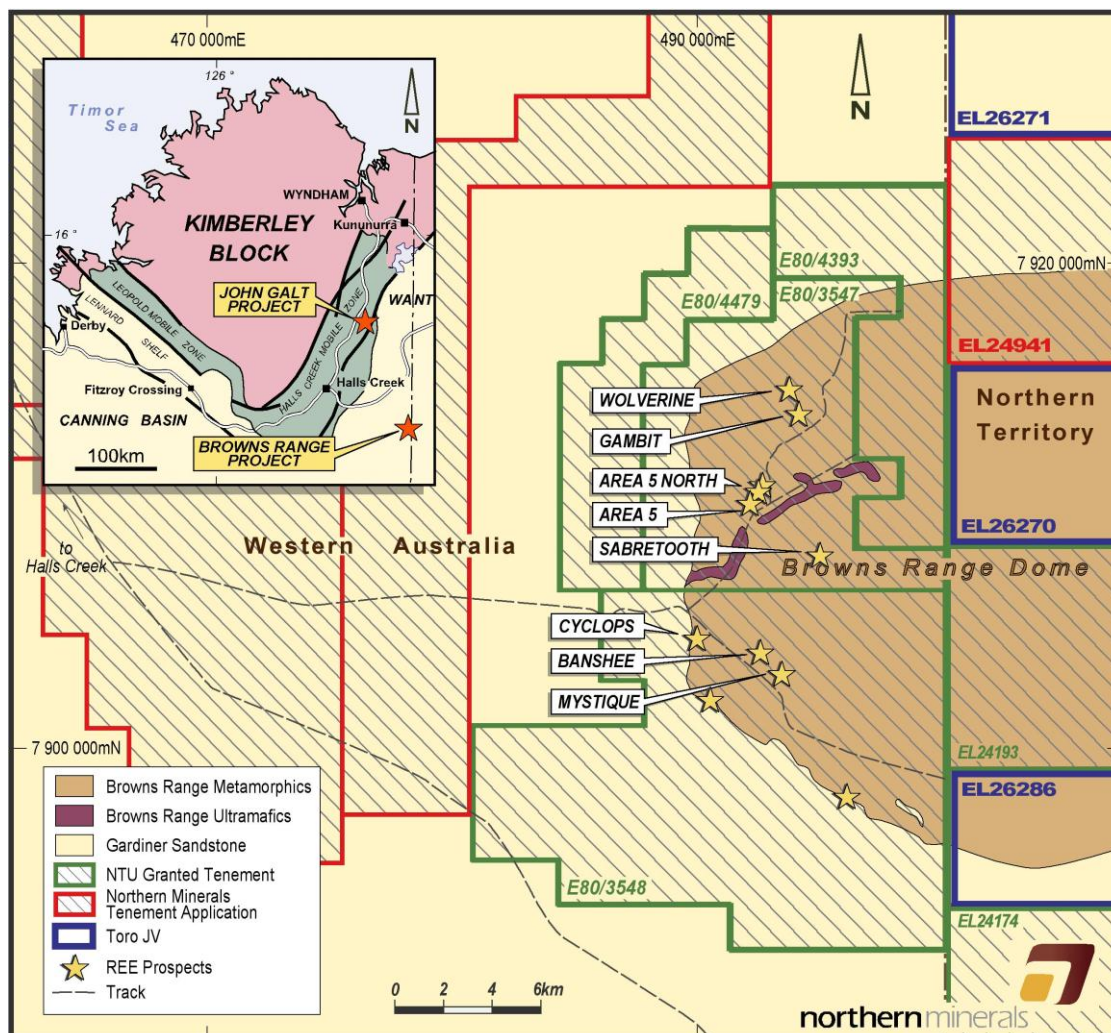


Figure 5 – Regional drilling map

**Table 1 – Mystique Prospect - Significant drill hole intercepts** (*Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied*  
*>2m @ 0.15% TREO*)  
*(mineralised intervals are downhole widths, not true widths)*

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRMR0001	49	50	1	0.21	189	1,356
BRMR0001	67	68	1	0.28	290	1,922
BRMR0001	71	73	2	0.19	192	1,303
BRMR0002	19	20	1	0.47	370	2,398
BRMR0002	56	57	1	0.23	173	1,242
BRMR0003	3	6	3	0.21	146	1,066
BRMR0003	26	27	1	0.24	197	1,457
BRMR0003	31	32	1	0.69	659	4,501
BRMR0003	34	35	1	0.47	410	2,852
BRMR0003*	37	42	5	0.82	746	5,099
BRMR0004*	4	12	8	0.20	180	1,226
BRMR0004*	21	24	3	0.27	223	1,577
BRMR0004	54	55	1	0.24	152	1,004
BRMR0005	22	23	1	0.28	259	1,755
BRMR0006	14	15	1	0.16	144	987
BRMR0006	20	22	2	0.32	267	1,914
BRMR0006	24	26	2	0.19	150	1,089
BRMR0006	43	46	3	0.23	183	1,266
BRMR0006	52	53	1	0.42	337	2,552
BRMR0007	3	5	2	0.21	148	1,050
BRMR0007	19	21	2	0.26	217	1,513
BRMR0008	9	11	2	0.22	181	1,292
BRMR0009	37	38	1	0.16	115	744
BRMR0009	40	41	1	0.19	117	846
BRMR0010*	0	5	5	0.73	742	4,743
<b>including</b>			2	1.24	1,257	8,002
BRMR0010*	26	33	7	0.17	168	1,059
BRMR0010	37	38	1	0.20	193	1,216
BRMR0010*	51	55	4	0.71	693	4,471
<b>including</b>			1	1.49	1,484	9,427
BRMR0010	60	61	1	0.21	199	1,370
BRMR0010*	64	67	3	0.16	147	1,016
BRMR0010	74	75	1	0.29	283	1,896
BRMR0010*	81	93	12	0.34	333	2,231
BRMR0010*	95	105	10	0.28	273	1,801
BRMR0010*	112	121	9	<b>0.21</b>	210	1,378
BRMR0011	10	11	1	0.28	238	1,591
BRMR0011	25	26	1	0.16	139	956
BRMR0011	57	58	1	0.22	177	1,201
BRMR0011*	60	70	10	0.22	155	1,082
BRMR0011	73	74	1	0.33	319	2,098
BRMR0011*	76	86	10	0.73	707	4,721
<b>including</b>			2	2.25	2,217	14,691
BRMR0011*	95	105	10	0.38	372	2,446

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRMR0011*	109	123	14	0.27	244	1,683
BRMR0011	127	128	1	0.18	146	1,037
BRMR0011	129	130	1	0.15	118	823
BRMR0012	6	8	2	0.54	388	2,658
BRMR0012	40	41	1	0.31	280	1,922
BRMR0012	43	49	6	0.19	145	1,000
BRMR0012*	50	69	19	0.27	211	1,483
BRMR0012	74	75	1	0.28	266	1,839
BRMR0013	11	16	5	0.24	218	1,487
BRMR0013	119	120	1	0.16	141	975
BRMR0013	133	134	1	0.24	227	1,524
BRMR0013	141	142	1	0.15	152	1,002
BRMR0014	42	44	2	0.32	260	1,695
BRMR0015	73	74	1	0.16	88	607
BRMR0015*	83	97	14	0.27	181	1,335
BRMR0015	99	100	1	1.05	896	6,227
BRMR0015*	107	122	15	0.26	154	1,095
BRMR0015	124	125	1	0.17	109	799
BRMR0015*	129	134	5	0.33	235	1,642
BRMR0015	148	150	2	0.19	125	915
BRMR0015*	153	157	4	0.21	139	1,010
BRMR0016	52	53	1	0.23	278	1,281
BRMR0016*	55	59	4	0.22	185	1,277
BRMR0017	37	39	2	0.29	263	1,776
BRMR0017	55	56	1	0.16	86	655
BRMR0018	14	17	3	0.15	134	852
BRMR0018	51	52	1	0.19	193	1,175
BRMR0018	65	67	2	0.47	449	3,075
BRMR0019	5	6	1	0.15	147	936
BRMR0019	31	33	2	0.22	212	1,327
BRMR0019	39	40	1	0.15	148	922
BRMR0019	58	60	2	0.20	193	1,230
BRMR0019	62	64	2	0.29	281	1,707
BRMR0019	73	74	1	0.16	121	766
BRMR0020*	5	12	7	0.18	174	1,127
BRMR0020	20	22	2	0.17	171	1,059
BRMR0020	70	71	1	0.37	340	2,323
BRMR0021	2	3	1	0.15	116	803
BRMR0021	21	27	6	0.42	324	2,215
BRMR0021	31	35	4	0.15	138	965
BRMR0022*	26	30	4	0.99	655	4,292
<b>including</b>			2	1.53	1,049	6,835
BRMR0022	60	61	1	0.19	164	1,114
BRMR0023	19	20	1	0.28	210	1,357
BRMR0023	28	29	1	0.19	163	1,078
BRMR0024	1	3	2	0.25	235	1,524
BRMR0024*	31	36	5	0.15	143	955
BRMR0025	26	28	2	0.19	173	1,232
BRMR0025	38	39	1	0.85	802	5,203
BRMR0026	5	6	1	0.30	246	1,814



Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRMR0026	37	38	1	0.23	187	1,296
BRMR0026	41	42	1	0.18	151	1,069
BRMR0026*	58	62	4	0.33	309	2,045
BRMR0027*	49	55	6	0.22	166	1,187
BRMR0028	12	19	7	0.19	128	866
BRMR0028	70	71	1	0.17	89	592
BRMR0028	73	74	1	0.54	442	3,018
BRMR0028	75	76	1	0.17	149	1,037
BRMR0028	90	93	3	0.23	196	1,411
BRMR0028	97	105	8	0.24	224	1,580
BRMR0028	107	109	2	0.21	202	1,372
BRMR0029	33	36	3	0.38	259	1,718
BRMR0029	99	106	7	0.37	347	2,402
BRMR0029	130	138	8	0.32	307	2,189
BRMR0029	148	150	2	0.19	177	1,240
BRMR0029	154	159	5	0.18	176	1,203

**Table 2 – Area 5 Prospect - Significant drill hole intercepts** (*Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied >2m @ 0.15% TREO*)  
*(mineralised intervals are downhole widths, not true widths)*

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRAD0001	50	56	6	0.20	115	855
BRAD0001	68	82	14	0.40	265	1,851
BRAR0001	22	24	2	0.20	155	1,049
BRAR0001	27	29	2	0.61	472	3,232
BRAR0001	42	43	1	0.42	304	2,089
BRAR0002	16	20	4	0.36	160	1,369
BRAR0004	3	4	1	0.37	175	1,153
BRAR0004	58	60	2	0.24	129	885
BRAR0004	96	97	1	0.44	392	2,719
BRAR0005	66	78	12	0.48	253	1,803
<b>Including</b>	73	76	3	1.23	623	4,461
BRAR0005	81	103	22	0.29	200	1,369
BRAR0008	12	22	10	0.50	133	977
BRAR0008	39	47	8	0.17	76	560
BRAR0009	26	42	16	0.30	171	1,227
BRAR0010	35	38	3	0.41	64	415
BRAR0010	41	55	14	0.35	233	1,506
BRAR0010	58	62	4	0.28	188	1,247
BRAR0010	77	82	5	0.28	229	1,505
BRAR0011	87	92	5	0.25	189	1,214
BRAR0012	96	103	7	0.15	86	580
BRAR0012	106	115	9	0.57	454	3,046
BRAR0013	50	51	1	1.01	964	
BRAR0015	0.00	8	8	0.20	154	1,059
BRAR0015	55	58	3	0.88	768	4,927

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRAR0016	78	80	2	0.16	96	642
BRAR0018	51	61	10	0.22	59	424
<b>including</b>	51	52	1	0.55	251	1,837
BRAR0018	69	72	3	0.23	42.23	297
BRAR0018	76	78	2	0.23	36.55	247
BRAR0018	84	103	19	0.81	749	4,914
<b>including</b>	92	96	4	2.58	2,517	16,137
BRAR0018	110	122	12.00	0.22	101	745
BRAR0022	33	43	10.00	0.33	159	1,125
BRAR0022	79	83	4.00	0.21	88	597
<b>including</b>	79	80	1.00	0.39	195	1,342
BRAR0023	85	87	2.00	0.24	176	1,264
BRAR0024	8	17	9.00	0.35	246	1,670
BRAR0025	20	21	1.00	0.36	221	1,556
BRAR0025	28	30	2.00	0.74	669	4,408
BRAR0025	33	35	2.00	1.73	1,381	8,521
BRAR0026	36	40	4.00	0.30	252	1,680
BRAR0026	48	53	5.00	0.43	294	2,002
BRAR0027	73	82	9.00	0.64	560	4,034
BRAR0029	2	3	1.00	0.43	375	2,598
BRAR0029	11	22	11.00	1.15	799	5,294
<b>including</b>	16	20	4.00	2.42	1,612	18,109
BRAR0029	27	32	5.00	0.26	187	1,354
BRAR0030	23	30	7.00	0.27	175	1,242
BRAR0030	33	37	4.00	1.09	837	6,057
BRAR0031	8	11	3.00	0.47	252	1,873
BRAR0031	70	76	6.00	0.34	94	695
<b>including</b>	71	72	1.00	0.61	214	1,622
BRAR0031	88	90	2.00	0.26	145	1,006
BRAR0032	114	115	1.00	0.36	279	1,861
BRAR0033	83	84	1.00	0.30	220	1,550
BRAR0033	119	126	7.00	3.83	3,714	24,750
<b>including</b>	119	122	3.00	8.57	8,362	55,643
BRAR0033	136	137	1.00	0.31	276	1,963

**Table 3 – Banshee Prospect - Significant drill hole intercepts** (*Intersections calculated using a 0.15% TREO cut-off and a maximum of 2m internal dilution. No top cut has been applied*  
*>2m @ 0.15% TREO*)  
*(mineralised intervals are downhole widths, not true widths)*

Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRBR0001	13	15	2	0.35	196	1365
BRBR0001	18	22	4	0.18	172	1151
BRBR0001	35	57	22	0.26	239	1,615
BRBR0001	63	65	2	0.27	240	1,660
BRBR0002	14	17	3	0.21	194	1,297
BRBR0002	20	25	5	0.18	169	1,127
BRBR0002	28	29	1	0.57	477	3,329
BRBR0002	34	38	4	0.18	162	1,090
BRBR0002	50	55	5	0.33	229	1,241
BRBR0003	40	43	3	0.17	92	620
BRBR0004	34	37	3	0.26	147	879
BRBR0004	40	41	1	0.42	66	482
BRBR0006	0	12	12	0.25	196	1,371
BRBR0006	38	43	5	0.37	350	2,379
BRBR0006	48	51	3	0.23	155	1,073
BRBR0006	61	66	5	0.20	155	1,052
BRBR0007	0	7	7	0.42	362	2,711
BRBR0007	11	20	9	0.24	172	1,238
BRBR0007	60	66	6	0.38	316	2,287
BRBR0007	69	76	7	0.23	179	1,284
BRBR0008	2	15	13	0.25	185	1,319
BRBR0008	20	29	9	0.25	214	1,581
BRBR0008	33	35	2	0.25	184	1,374
BRBR0008	44	46	2	0.63	511	3,849
BRBR0008	60	70	10	0.22	172	1,289
BRBR0009	0	6	6	0.38	325	2,353
BRBR0009	14	21	7	0.25	138	985
BRBR0009	34	51	17	0.31	265	1,995
<b>including</b>	47	48	1	1.52	1,317	10,304
BRBR0009	73	75	2	0.26	198	1,553
BRBR0010	1	10	9	0.27	245	1,732
BRBR0010	13	16	3	0.23	199	1,416
BRBR0010	34	45	11	0.30	242	1,763
BRBR0010	93	96	3	0.17	149	1,081
BRBR0010	104	106	2	0.21	182	1,318
BRBR0011	10	23	13	0.25	210	1,601
BRBR0011	28	32	4	1.01	819	6,592
BRBR0011	36	49	13	0.17	151	1,108
BRBR0011	53	55	2	0.24	210	1,491
BRBR0011	70	72	2	0.22	188	1,358
BRBR0011	76	78	2	0.22	185	1,323
BRBR0011	83	85	2	0.16	144	1,013
BRBR0011	91	95	4	0.19	165	1,183
BRBR0012	18	21	3	0.27	234	1,594
BRBR0012	40	42	2	0.31	293	1,922



Hole Number	From(m)	To(m)	Interval (m)	TREO (%)	Dy <sub>2</sub> O <sub>3</sub> (ppm) Avg	Y <sub>2</sub> O <sub>3</sub> (ppm) Avg
BRBR0012	57	60	3	0.16	147	947
BRBR0012	63	65	2	0.23	205	1,403
BRBR0012	68	78	10	0.71	650	4,579
<b>including</b>	74	75	1	4.47	4,030	28,704
BRBR0012	81	83	2	0.28	245	1,717
BRBR0013	7	8	1	0.49	336	2,417
BRBR0013	43	46	3	0.17	159	1,065
BRBR0013	55	72	17	0.21	183	1,279
BRBR0014	34	35	1	0.41	341	2,570
BRBR0014	58	62	4	0.35	217	1,887
BRBR0015	31	33	2	0.27	148	1,024
BRBR0015	52	53	1	0.32	188	1,429
BRBR0016	29	32	3	0.35	185	1,686
BRBR0017	10	12	2	0.23	145	1,003
BRBR0018	18	19	1	0.31	285	1,955
BRBR0018	35	37	2	0.16	145	1,102
BRBR0019	26	35	9	0.40	312	2,326
BRBR0019	61	65	4	0.16	115	809
BRBR0020	1	7	6	0.18	128	943
BRBR0020	49	58	9	0.30	262	1,894
<b>including</b>	50	51	1	1.02	905	6,642
BRBR0020	64	71	7	0.44	398	2,934
BRBR0020	95	109	14	0.52	414	3,045
<b>including</b>	99	100	1	1.17	1,061	7,828
<b>and</b>	102	105	3	1.03	833	6,118
BRBR0021	0	6	6	0.25	200	1,376
BRBR0021	10	15	5	0.33	309	2,125
BRBR0021	44	50	6	0.29	184	1,294
BRBR0021	55	57	2	0.21	118	830
BRBR0021	80	85	5	0.48	432	2,910
BRBR0023	32	36	4	0.32	190	1,316
BRBR0023	50	53	3	0.18	112	770
BRBR0023	72	73	1	0.36	285	1,959

**Table 4: Browns Range RC drill hole collar details – Gambit West, Banshee, Area 5 and Mystique prospects (completed June-October 2012)**

Hole Number	Easting	Northing	Drill Type	Mag Azimuth	Inclination	Total Depth	RL
BRGR0058	492953	7913570	RC	176.5	-60	40	453
BRGR0059	492952	7913523	RC	176.5	-60	40	442
BRGR0060	492949	7913576	RC	177.5	-60	40	413
BRGR0061	492949	7913617	RC	176.5	-60	40	452
BRGR0062	492943	7913679	RC	176.5	-60	40	462
BRGR0063	493152	7913524	RC	176.5	-60	40	447
BRGR0064	493147	7913587	RC	176.5	-60	40	477
BRGR0065	493147	7913624	RC	176.5	-60	40	454
BRGR0066	493147	7913674	RC	176.5	-60	40	451
BRGR0067	493149	7913728	RC	176.5	-60	40	417
BRGR0068	493150	7913775	RC	176.5	-60	40	422
BRGR0069	493353	7913621	RC	176.5	-60	40	455
BRGR0070	493355	7913761	RC	176.5	-60	40	468
BRGR0071	493362	7913721	RC	176.5	-60	40	467
BRGR0072	493357	7913764	RC	176.5	-60	40	463
BRGR0073	493143	7913655	RC	176.5	-60	88	436
BRGR0074	493173	7913624	RC	176.5	-50	37	445
BRGR0075	493176	7913646	RC	176.5	-50	70	461
BRGR0076	493130	7913631	RC	176.5	-50	49	444
BRGR0077	493121	7913645	RC	176.5	-50	73	448
BRGR0078	493201	7913628	RC	176.5	-50	43	447
BRGR0079	493205	7913649	RC	176.5	-50	79	456
BRGR0080	493200	7913575	RC	176.5	-60	88	450
BRAD0001	492106	7909953	DD	41.5	-60	131.4	450
BRAR0001	492159	7910000	RC	41.5	-60	106	457
BRAR0002	492241	7910052	RC	41.5	-60	64	453
BRAR0003	492222	7910039	RC	41.5	-60	64	448
BRAR0004	492169	7909984	RC	41.5	-60	106	452
BRAR0005	492137	7909947	RC	41.5	-60	136	448
BRAR0006	492260	7910037	RC	41.5	-60	58	448
BRAR0007	492245	7910017	RC	41.5	-60	70	451
BRAR0008	492228	7910002	RC	41.5	-60	76	456
BRAR0009	492206	7909984	RC	41.5	-60	78	453
BRAR0010	492194	7909969	RC	41.5	-60	108	459
BRAR0011	492169	7909945	RC	41.5	-60	120	459
BRAR0012	492159	7909935	RC	41.5	-60	120	459
BRAR0013	492255	7910000	RC	41.5	-60	60	450
BRAR0014	492240	7909986	RC	41.5	-60	72	459
BRAR0015	492228	7909974	RC	41.5	-60	72	475
BRAR0016	492205	7909949	RC	41.5	-60	96	461
BRAR0017	492186	7909933	RC	41.5	-60	132	457
BRAR0018	492186	7909933	RC	41.5	-60	132	457
BRAR0019	492261	7909963	RC	41.5	-60	60	465
BRAR0020	492244	7909945	RC	41.5	-60	72	465
BRAR0021	492225	7909930	RC	41.5	-60	102	457
BRAR0022	492206	7909913	RC	41.5	-60	120	413
BRAR0023	492189	7909894	RC	41.5	-60	120	460

Hole Number	Easting	Northing	Drill Type	Mag Azimuth	Inclination	Total Depth	RL
BRAR0024	492137	7910014	RC	41.5	-60	72	480
BRAR0025	492119	7909994	RC	41.5	-60	84	460
BRAR0026	492101	7909981	RC	41.5	-60	84	466
BRAR0027	492071	7909950	RC	41.5	-60	132	489
BRAR0028	492119	7910033	RC	41.5	-60	54	457
BRAR0029	492099	7910018	RC	41.5	-60	66	457
BRAR0030	492084	7910004	RC	41.5	-60	72	457
BRAR0031	492094	7909939	RC	41.5	-60	126	463
BRAR0032	492058	7909922	RC	45	-60	138	432
BRAR0033	492101	7909910	RC	45	-60	144	424
BRAD0001	492106	7909953	DD	41.5	-60	131.4	450
BRAR0001	492159	7910000	RC	41.5	-60	106	457
BRAR0002	492241	7910052	RC	41.5	-60	64	453
BRAR0003	492222	7910039	RC	41.5	-60	64	448
BRAR0004	492169	7909984	RC	41.5	-60	106	452
BRAR0005	492137	7909947	RC	41.5	-60	136	448
BRAR0006	492260	7910037	RC	41.5	-60	58	448
BRAR0007	492245	7910017	RC	41.5	-60	70	451
BRAR0008	492228	7910002	RC	41.5	-60	76	456
BRAR0009	492206	7909984	RC	41.5	-60	78	453
BRAR0010	492194	7909969	RC	41.5	-60	108	459
BRAR0011	492169	7909945	RC	41.5	-60	120	459
BRAR0012	492159	7909935	RC	41.5	-60	120	459
BRAR0013	492255	7910000	RC	41.5	-60	60	450
BRAR0014	492240	7909986	RC	41.5	-60	72	459
BRMR0001	493397	7902998	RC	176.5	-60	79	455
BRMR0002	493399	7903023	RC	176.5	-60	61	454
BRMR0003	493396	7903090	RC	176.5	-60	61	455
BRMR0004	493424	7903084	RC	176.5	-60	61	456
BRMR0005	493455	7903105	RC	266.5	-60	60	458
BRMR0006	493448	7903077	RC	266.5	-60	67	457
BRMR0007	493446	7903053	RC	266.5	-60	61	455
BRMR0008	493400	7903046	RC	180	-60	97	451
BRMR0009	493427	7903037	RC	182	-60	61	450
BRMR0010	493422	7903109	RC	176.5	-60	128	438
BRMR0011	493397	7903107	RC	176.5	-60	133	452
BRMR0012	493399	7903125	RC	176.5	-60	135	453
BRMR0013	493430	7903154	RC	176.5	-60	146	447
BRMR0014	493422	7903002	RC	176.5	-60	55	452
BRMR0015	493425	7903021	RC	176.5	-60	157	452
BRMR0016	493347	7903024	RC	176.5	-60	61	450
BRMR0017	493302	7903020	RC	176.5	-60	61	450
BRMR0018	493350	7903050	RC	176.5	-60	79	450
BRMR0019	493350	7903075	RC	176.5	-60	79	450
BRMR0020	493350	7903100	RC	176.5	-60	79	452
BRMR0021	493350	7903125	RC	177	-60	67	453
BRMR0022	493350	7903150	RC	177	-60	67	455
BRMR0023	493300	7903050	RC	177	-60	58	455
BRMR0024	493300	7903075	RC	176	-60	67	458
BRMR0025	493300	7903100	RC	176	-60	64	458



Hole Number	Easting	Northing	Drill Type	Mag Azimuth	Inclination	Total Depth	RL
BRMR0026	493304	7903125	RC	177	-60	67	458
BRMR0027	493300	7903150	RC	178	-60	61	458
BRMR0028	493394	7902996	RC	360	-60	178	454
BRMR0029	493425	7903007	RC	0	-60	184	454
BRBR0001	492650	7904085	RC	177	-60	73	450
BRBR0002	492650	7904105	RC	177	-60	67	449
BRBR0003	492650	7904135	RC	178	-60	64	448
BRBR0004	492650	7904160	RC	178	-60	58	448
BRBR0005	492650	7904180	RC	178	-60	58	447
BRBR0006	492600	7903936	RC	177	-60	79	452
BRBR0007	492599	7903959	RC	177	-60	79	451
BRBR0008	492600	7903984	RC	177	-60	70	449
BRBR0009	492600	7904010	RC	178	-60	79	448
BRBR0010	492600	7904035	RC	177	-60	124	448
BRBR0011	492601	7904063	RC	177	-60	103	449
BRBR0012	492597	7904083	RC	177	-60	94	448
BRBR0013	492596	7904109	RC	177	-60	88	447
BRBR0014	492595	7904134	RC	178	-60	79	446
BRBR0015	492597	7904163	RC	177	-60	79	445
BRBR0016	492595	7904187	RC	177	-60	70	445
BRBR0017	492652	7903929	RC	177	-60	73	450
BRBR0018	492650	7903960	RC	177	-60	79	449
BRBR0019	492650	7903985	RC	177	-60	79	448
BRBR0020	492645	7904014	RC	176.5	-60	124	440
BRBR0021	492648	7904038	RC	176.5	-60	100	440
BRBR0022	492704	7903960	RC	176.5	-60	82	444
BRBR0023	492698	7903988	RC	176.5	-60	82	442
BRBR0024	492698	7904014	RC	176.5	-60	82	443
BRBR0025	492698	7904042	RC	176.5	-60	70	442
BRBR0026	492699	7904059	RC	176.5	-60	58	443
BRBR0027	492363	7903979	RC	176.5	-60	61	444
BRBR0028	492363	7903998	RC	176.5	-60	82	443
BRBR0029	492361	7904019	RC	182	-60	82	462

*Coordinates based on GDA94 Zone 52*

DD: Diamond drill hole from surface

RC: Reverse Circulation drill hole

RCDD: Diamond drill hole with RC precollar

### Competent Persons Declaration:

*The information in this report accurately reflects information prepared by competent persons (as defined by the Australasian Code for Reporting of Mineral Resources and Ore Reserves). It is compiled by Mr R Wilson, an employee of the Company who is a Member of The Australasian Institute of Mining and Metallurgy with the requisite experience in the field of activity in which he is reporting. Mr Wilson has sufficient experience which is relevant to the style of mineralisation and the type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Wilson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

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### About Northern Minerals

Northern Minerals Limited (ASX: NTU) is focused on development of rare earth elements (REE), with a large and prospective landholding in Western Australia and the Northern Territory.

The Company's flagship project is Browns Range, where it has a number of prospects with high value, heavy rare earth elements (HREE), in xenotime mineralisation. In particular, the mineralisation includes high levels of dysprosium and yttrium, which are in short supply globally. Following outstanding results from its drilling and metallurgical programs, the Company is aiming to deliver its maiden JORC resource by the end of 2012, and advance Browns Range toward production, using a relatively simple and low cost processing flow sheet to produce a high grade concentrate. Northern Minerals also has a HREE exploration program underway at the geologically similar John Galt project.

Northern Minerals also holds a number of non-REE assets, including the large and prospective Gardiner-Tanami project and Gardner Range JV project on the WA-NT border. The projects are located within the world-class Tanami-Arunta gold region and have a number of early stage gold targets. Northern Minerals is currently pursuing divestment options for these assets. For more information, visit [www.northernminerals.com.au](http://www.northernminerals.com.au)

