KANGANKUNDE CONTINUES TO DELIVER HIGH GRADE RARE EARTHS ASSAYS

ALL HOLES INTERSECTED HIGH GRADE RARE EARTHS UP TO 14.4% TREO

HIGHLIGHTS

- **Rare Earths critical metal elements neodymium-praseodymium (NdPr) average 21% of TREO**
- **Significant intersections include:**
  - **179 metres from surface averaging 2.20% TREO in KGKRC014 including:**
    - **<u>best intercept to date - 35 metres @ 3.94% TREO from surface including 4 metres at 7.82%</u>**
  - **210 metres from surface to EOH averaging 1.92% TREO in KGKRC012 including:**
    - **47 metres @ 3.23% TREO from 134 metres**
  - **162 metres from surface to EOH averaging 2.16% TREO in KGKRC013 including:**
    - **23 metres @ 3.01% TREO from surface**
    - **24 metres @ 3.04% TREO from 74 metres**
- **Assay results continue to show extensive, non-radioactive rare earths mineralisation**
- **All holes started and ended in mineralisation and remains open in all directions**
- **Assays again confirm that mineralisation is non-radioactive with very low average uranium and thorium levels**
- **At 4th February 2023, drilling totalled 44 holes of RC for 7,170 metres and 5 core holes for 1,105 metres with assays reported for the first 14 holes drilled (covering 2,412 metres); further assays will be reported progressively in the coming weeks**
- **Metallurgical test work underway in South Africa and larger program commencing in Australia shortly with preliminary results expected in the near term**

Lindian's Chief Executive Officer, Alistair Stephens commented: *"Assays reported from the first 14 holes drilled to date have consistently shown high-grade, very broad intercepts, a high NdPr ratio and non-radioactive mineralisation. As drilling advances we expect these characteristics to be repeated, underpinning our confidence that Kangankunde is without doubt shaping up as one of the world's most significant rare earths deposits. Our Mineral Resource Estimate to be reported in the second quarter of calendar 2023 will confirm this.*

"In terms of these most recent assays, the key highlight is our best intercept to date in hole KGKRC014, being 35 metres at almost 4% TREO which includes 4 metres at 7.82% TREO. There are still a number of areas of interest we have not yet drilled where we believe similar grades can be repeated. I look forward to being on the ground in Malawi next week and will be providing further updates from site which I expect will include feedback from Community and Government meetings with both parties supportive of our mine development program, and the progress we have made so far. We are also pleased with the advancing metallurgical test work with preliminary results expected this month."

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Alistair Stephens - Chief Executive Officer

Lindian Resources Limited (ASX:LIN) ("Lindian" or "the Company") is pleased to advise the receipt further assays from the Phase 1 drilling program at the Kangankunde Rare Earths Project in Malawi.

The assays reported are for reverse circulation (RC) drill holes. All holes again have intersections of non-radioactive material with excellent grade for their entire lengths (surface to end-of-hole) and with a significant percentages of critical Rare Earths metal elements of NdPr.

The Company also confirms that metallurgical test work is underway in South Africa and will begin in Australia very shortly with the arrival of a 1 tonne sample which has now cleared Australian Customs and is undergoing sterilization in Brisbane prior to dispatch to the testing facility in Perth.

Lindian's Chair and CEO will be on site at Kangankunde next week to meet with senior team members and to review operational progress as well as meet with Community and Government Representatives, both of whom are supportive of Kangankunde's development and the progress Lindian has made to date.

DRILL ASSAY RESULTS

Assay results have been received for a further three (3) reverse circulation (RC) holes KGKRC0012, KGKRC0013, and KGKRC014 from the Phase 1 drilling program on the Kangankunde Rare Earths Project.

Table 1 lists the significant intersections for holes KGKRC12, KGKRC13 and KGKRC014 reported in this announcement.

These holes were designed to evaluate two areas:

1. KGKRC12 and KGKRC014 are part of a radial pattern of holes testing the central northern area of the carbonatite complex.

   KGKRC012 drilled north (360°) at a dip angle of -45° on section with the previously reported KGKRC008[1] (272 metres from surface averaging 2.06% TREO) intersected carbonatite and mixed carbonatite/gneiss breccia zones over its entire length assaying 210 metres at 1.92% TREO including significant intersections of 47 metres at 3.23% TREO from 134 metres and 13 metres at 3.28% TREO from 194 metres.

   Figure 1 is an east facing cross section showing KGKRC012 in relation to the previously reported holes KGKRC006 and KGKRC008 on this section. This section is shown as section line A-A' on the drill status plan shown in Figure 4.

   None of these holes has intersected the northern boundary of the central carbonatite and holes KGKRC008 and KGKRC012 will be extended by core drilling and planned to test the boundary of the carbonatite.

   KGKRC014 designed to be drilled east (090°) at a dip angle of -45° intersected carbonatite and mixed carbonatite/gneiss breccia from surface to 183 metres followed by 16 metres of a mafic rock interpreted to be a dyke barren of rare earths. From 199 metres to 209 metres (EOH) the drillhole intersected mineralised mixed carbonatite/gneiss breccia. The hole will be continued with core drilling.

   Figure 2 is north facing cross section 8327100mN showing KGKRC014 in relation to previously reported holes KGKRC002, KGKRC003 and KGKRC006, and KGKRC025 which is awaiting assay results. This section also shows the planned depth extension drill hole to be drilled on completion of the Phase 1 definition drilling.

   None of these holes has intersected the eastern or western boundary of the central carbonatite and all except the vertical hole KGKRC006 will be extended by core drilling.

[1] ASX:LIN Release 16 January 2023; "KANGANKUNDE DELIVERS MORE OUTSTANDING RARE EARTHS ASSAYS"

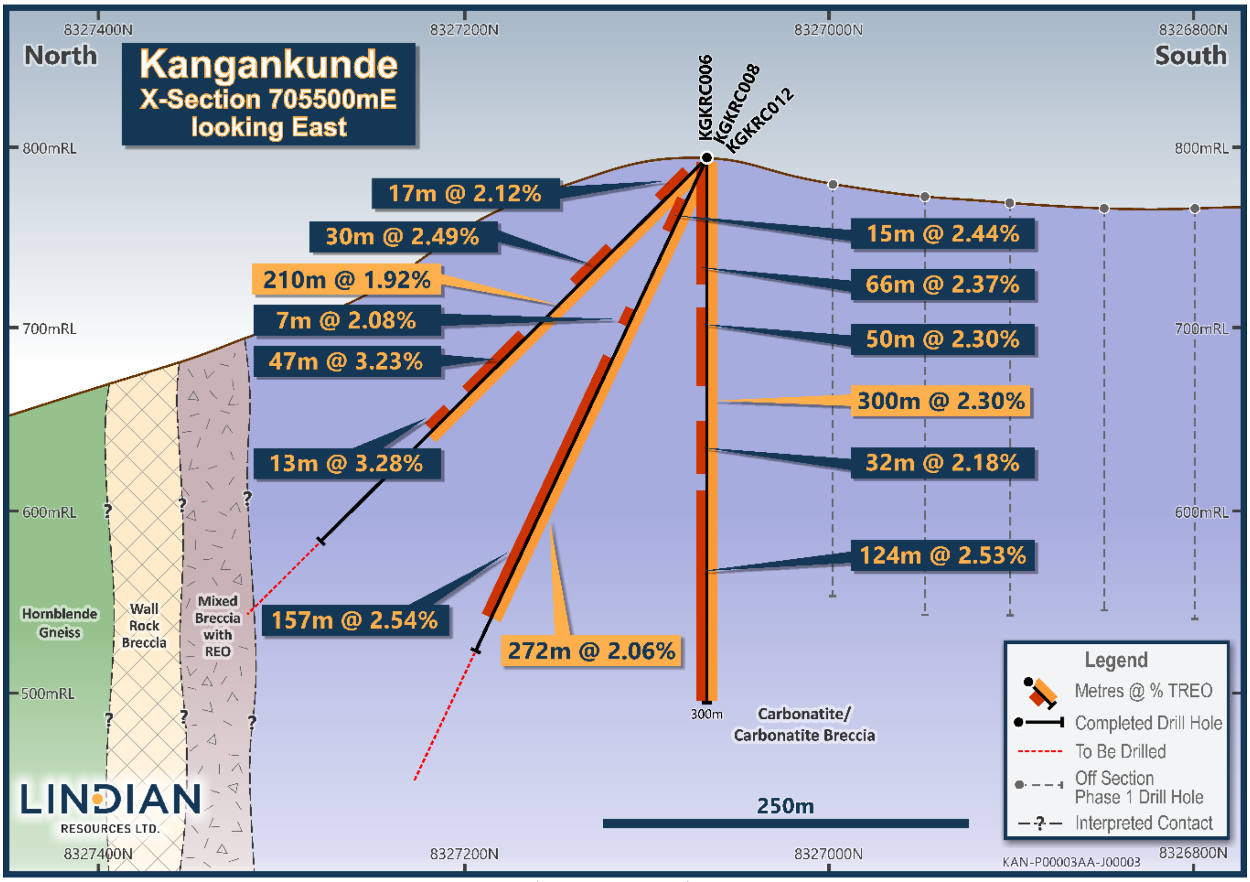

Figure 1: East facing cross section 705500mE (A-A' Figure 4) showing KGKRC012 in relation to the previously reported KGKRC006 and KGKRC008.

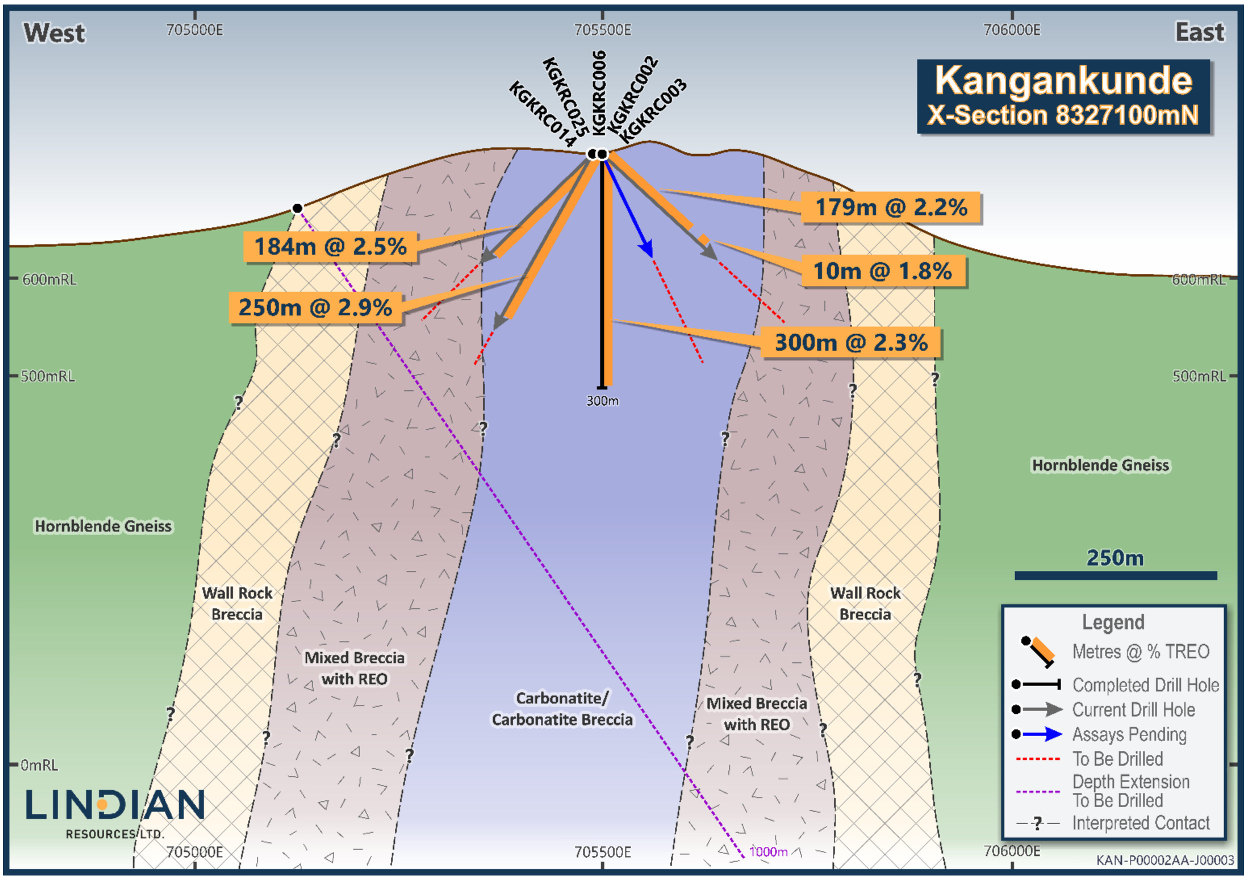

Figure 2: 8327100mN (B-B' Figure 4) cross section showing Phase 1 holes with reported and pending results and planned Phase 2 depth extension hole.

2. KGKRC013 is drilled in the central Kangankunde carbonatite area. The hole is oriented due east (090) at a dip angle of -60°. The hole intersected carbonatite and mixed carbonatite breccia from surface to 162 metres (EOH) for its entire length. No sample was recovered between 62 metres to 73 metres due to broken ground. The hole finished in mineralisation and will be extended with core drilling.

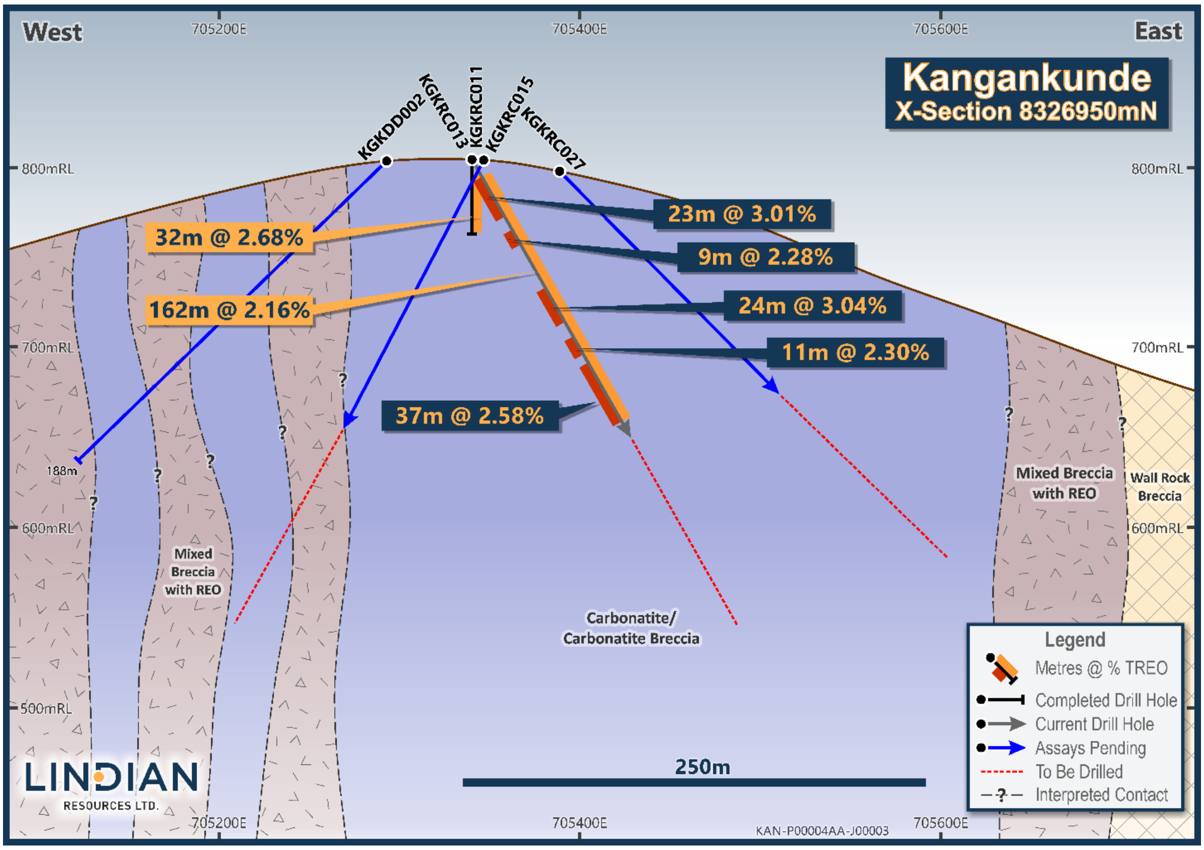

Figure 3: North facing cross section 8326950mN (C-C' Figure 4) showing KGKRC013 and previously reported KGKRC011. Holes KGKDD002, KGKRC015 and KGKRC027 are al awaiting assay results.

Table 1: Significant rare earth intersections*

Hole ID	From (m)	To (m)	Intersection (m)	TREO ppm	TREO %	NdPrO** ppm	NdPrO% of TREO***
KGKRC012	**0**	**210 (EOH)**	**210**	**19,186**	**1.92**	**3,837**	**20.0%**
Including	11	28	17	21,194	2.12	3,765	17.8%
	36	39	3	34,512	3.45	5,647	16.4%
	66	96	30	24,922	2.49	5,125	20.6%
	134	181	47	32,286	3.23	6,201	19.2%
	194	207	13	32,803	3.28	7,230	22.0%
KGKRC013	**0**	**162 (EOH)**	**162^**	**21,582**	**2.16**	**4,698**	21.8%
Including	0	23	23	30,076	3.01	6,230	20.7%
	37	46	9	22,764	2.28	4,801	21.1%
	74	98	24	30,401	3.04	6,411	21.1%
	104	115	11	23,032	2.30	5,410	23.5%
	122	159	37	25,827	2.58	5,626	21.8%
KGKRC014	**0**	**179**	**179**	**21,969**	**2.20**	**5,004**	22.8%
then	**199**	**209 (EOH)**	**10**	**18,467**	**1.85**	**3,988**	21.6%
Including	0	35	35	39,356	3.94	7,637	19.4%
	67	94	27	26,985	2.70	6,893	25.5%

** Bold text entire hole no cut-off applied; internal intersections accumulated at > 2% TREO cut-off.*

*** NdPrO = Nd_2O_3 + Pr_6O_{11}, *** NdPrO% / TREO% x 100*

^ Includes no sample return from 62.0m to 73.0 metres.

KANGANKUNDE SIMPLIFIED GEOLOGY PLAN AND DRILL HOLE LOCATIONS

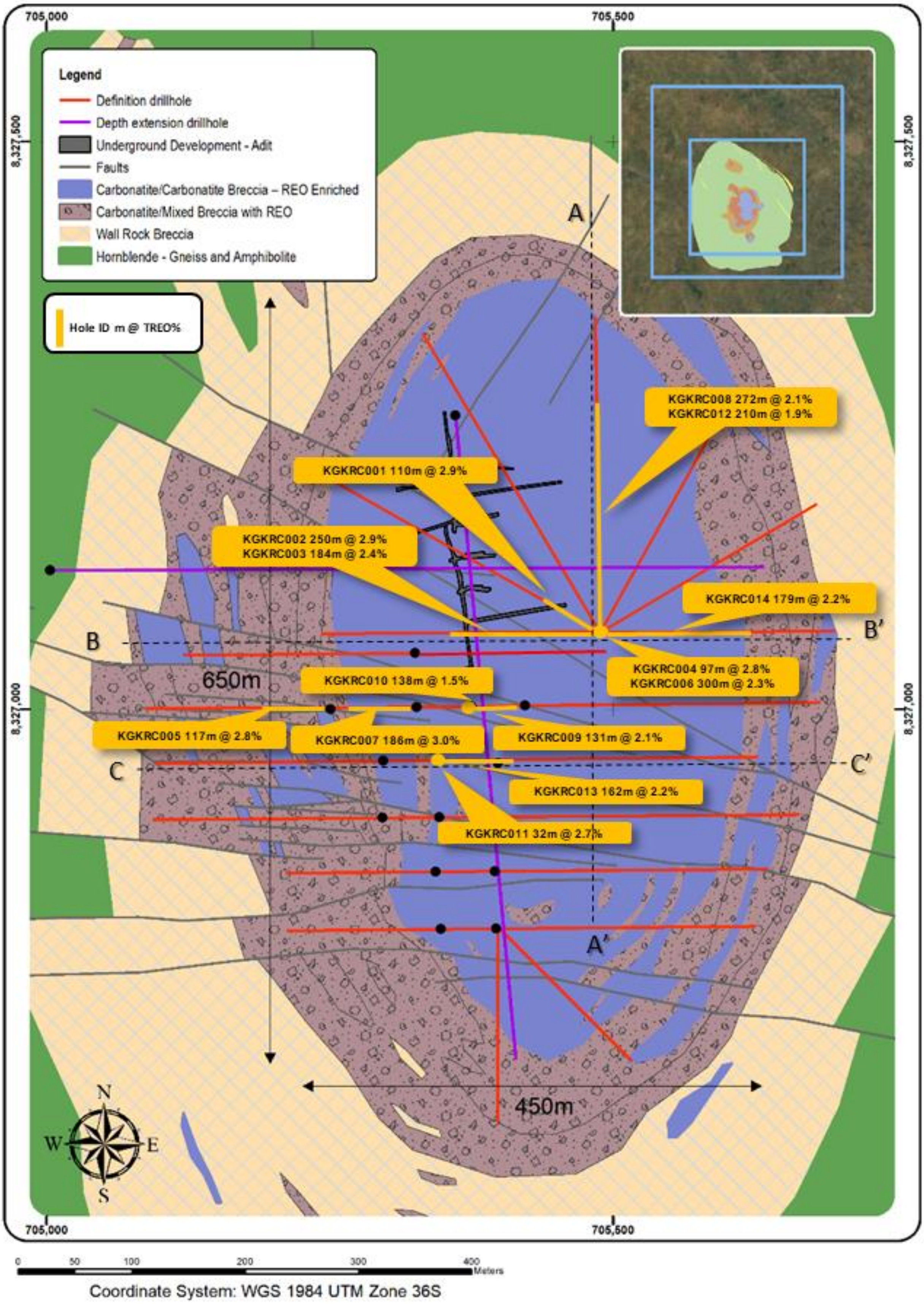

Figure 4 Kangankunde central carbonatite geology plan with drill intersections reported to date

Neodymium and Praseodymium Ratio

The mineralisation is dominated by light rare earths cerium (Ce), lanthanum (La), neodymium (Nd) and praseodymium (Pr). The total of Nd+Pr content in oxide form constitutes on average 21% of the TREO in all holes reported in this release.

Non-Radioactive Mineralisation

Radionuclides uranium (U) and thorium (Th) continue to be low in all drilling. Table 2 shows the average content for the each of the reported drill holes. Detailed individual interval assays are shown in Appendix 2 of this release.

Table 2: Average radionuclides thorium and uranium content of mineralisation

Hole ID	From (m)	To (m)	Intersection (m)	Th ppm	U ppm
KGKRC012	0	210 (EOH)	210	48	8
KGKRC013	0	162 (EOH)	162	51	6
KGKRC014	0	179 (EOH)	179	60	8
and	199	209(EOH)	10	80	4

PREVIOUSLY REPORTED DRILL RESULTS

Error! Reference source not found. summarises earlier drill results and the related ASX release date. **Error! Reference source not found.** 4 shows previously reported intersections and pending drill results with the planned deep exploration hole to be conducted in Phase 2 of the drilling program.

Table 3: Previously released drilling results;

Hole ID	From (m)	To (m)	Intersection (m)	TREO %	NdPrO% of TREO**	ASX release Date*
KGKRC001	**0**	**110**	**110**	**2.9**	**21%**	**5th January 2023**
KGKRC002	**0**	**250**	**250**	**2.9**	**21%**	**5th January 2023**
KGKRC003	**0**	**184**	**184**	**2.5**	**21%**	**16th January 2023**
KGKRC004	**0**	**97**	**97**	**2.8**	**20%**	**16th January 2023**
KGKRC005	**0**	**117**	**117**	**2.8**	**16%**	**24th January 2023**
KGKRC006	**0**	**300**	**300**	**2.3**	**20%**	**16th January 2023**
KGKRC007	**0**	**186**	**186**	**3.0**	**17%**	**24th January 2023**
KGKRC008	**0**	**272**	**272**	**2.1**	**19%**	**16th January 2023**
KGKRC009	**0**	**131**	**131**	**2.1**	**22%**	**24th January 2023**
KGKRC010	**0**	**138**	**138**	**1.5**	**22%**	**24th January 2023**
KGKRC011	**0**	**32**	**32**	**2.7**	**17%**	**24th January 2023**

**refer to Company website for the date of the ASX announcement for the reporting of exploration results*

PHASE 1 PROGRAM STATUS

A total of 44 RC holes for 7,170 drill metres and 5 core drill holes for 1,105 metres had been completed as at the end of day on 04 February 2023.

The status of the drill hole sampling and assay is as follows:

Table 4: Completed drill hole sampling and assay status at 4th February 2023

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC001	✓				
KGKRC002	✓				
KGKRC003	✓				
KGKRC004	✓				
KGKRC005	✓				
KGKRC006	✓				
KGKRC007	✓				
KGKRC008	✓				
KGKRC009	✓				
KGKRC010	✓				
KGKRC011	✓				
KGKRC012	✓				
KGKRC013	✓				
KGKRC014	✓				
KGKRC015		✓			
KGKRC016		✓			
KGKRC017		✓			
KGKRC018		✓			
KGKRC019		✓			
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KGKRC026		✓			
KGKRC027		✓			
KGKRC028		✓			
KGKRC029		✓			
KGKRC030			✓		
KGKRC031			✓		
KGKRC032			✓		
KGKRC033			✓		
KGKRC034				✓	
KGKRC035				✓	
KGKRC036				✓	
KGKRC037					✓
KGKRC038					✓
KGKRC039					✓
KGKRC040					✓

Hole Number	Reported	ALS Geochemistry (Australia)	ALS Geochemistry (South Africa)	In transit (Malawi to South Africa)	At Kangankunde Site
KGKRC041					✓
KGKRC042					✓
KGKRC043					✓
KGKRC044					✓
KGK DD001		✓			
KGK DD002		✓			
KGKDD003			✓		
KGKDD004				✓	
KGKRCDD009					Sampling in progress

PROGRAM SUMMARY

The Kangankunde drilling program is planned in two phases with distinct target outcomes. The Company commenced drilling at Kangankunde in late October 2023 with the intention to undertake a drill program that could potenitally culminate in a mineral resources estimate by June 30 2023.

PHASE 1 DRILL PROGRAM (MINE DEFINITION)

The Phase 1 program consists of 10,000 metres of RC drilling and 2,500 metres of core drilling on the Kangankunde hill top. The drill pattern is based on 50 metre east-west sections, and as radial fans perpendicular to the interpreted carbonatite boundary where topography provides access. The program is designed to give initial data for resource evaluation and mine planning and is likely to finish in late quarter one of 2023.

PHASE 2 DRILL PROGRAM (DEPTH EXTENSION)

Two additional deep drill holes are planned from drill pads near the base of the Kangankunde hill and are designed to allow drilling to continue during the wet season. These two drill holes, each planned to be 1,000 metres in length, are designed to test the N-S and E-W axies of the carbonatite between 300 metres and 800 metres below the hill top. The Phase 2 Drll Program is likely to commence in the second half of the 2023.

METALLURGICAL TEST WORK

The Company will undertake exploratory metallurgical test work on samples in South Africa. A one tonne sample, currently in Australian customs for clearance, will be used for pilot scale test work in Perth. Metallurgical test work resutls are anticiptaed to be reported during the first and second quarter of 2023.

MINERAL RESOURCE ESTIMATION

There are no mineral resources stated in this report for the Kangankunde project. The drilling and metallurgical work programs are designed to provide enough technical information for the Company to undertake additional studies to assess the nature of a mineral resource estimate in the near future.

-ENDS-

This ASX announcement was authorised for release by the Lindian Board.

For further information, please contact:

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About Lindian

RARE EARTHS

Lindian Resources Limited will progressively acquire 100% of Malawian registered Rift Valley Resource Developments Limited and its 100% owned title to Exploration Licence EPL0514/18R and Mining Licence MML0290/22 (refer ASX announcement ASX:LIN dated 1 August 2022) issued under the Malawi Mines and Minerals Act 2018. The Exploration and Mining Licences have an Environmental and Social Impact Assessment Licence No.2:10:16 issued under the Malawi Environmental Management Act No. 19 of 2017. The Kangankunde Project, located within MML0290, has been subject to significant historic exploration by Lonrho Plc (Lonrho) in the 1970's and the French geoscience Bureau de Récherches Géologiques et Minières (BRGM) in the 1990's. The project has an underground adit (a horizontal drive with cross cuts extending at least 300 metre underground) and exploration sampling by trenching and drilling has identified significant non-radioactive monazite mineralisation over a footprint of at least 800m by 800m.

Malawi is a country in southern and eastern Africa that takes its name from the great Lake Malawi, the 5th largest freshwater lake in the world that fills part of the massive rift valley of the Africa continent. Malawi is a peaceful country known ubiquitously as "the warm heart of Africa", with a government and legal system emanated from the English Westminster system (from colonial rule up to 1964). The Malawi economy is currently heavily reliant on agriculture, a small manufacturing sector and foreign aid. Over 80% of Malawians living in rural areas are engaged in traditional subsistence agriculture. The mining industry in Malawi is in its infancy with a new Mining Act introduced in 2019 expected to forge the way for significant expansion and growth. Having seen the impact of mining in neighbouring countries, the Malawi Government has placed mining as the primary growth sector to diversify the Malawi economy and improve living conditions for its people. A growing mining industry is the central plank of the current President's plans for employment. Significant mineral endowment exists in the form of rare earths, uranium, niobium, tantalum, and graphite in a country substantially underexplored.

Competent Persons' Statements

The information in this Report that relates to Exploration Results is based on information compiled by Mr. Alistair Stephens, who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Stephens is the Chief Executive Officer of Lindian Resources Limited. Mr. Stephens has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). Mr. Stephens consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Unless otherwise stated, where reference is made to previous releases of exploration results in this announcement, the Company conforms that it is not aware of any new information or data that materially affects the information included in those announcements and all material assumptions and technical parameters underpinning the exploration results included in those announcements continue to apply and have not materially changed.

The information in this report that relates to previous Exploration Results was prepared and first disclosed under the JORC Code 2012 and has been properly and extensively cross-referenced in the text to the date of the original announcement to the ASX.

Forward Looking Statements

This announcement may include forward-looking statements, based on Lindian's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Lindian, which could cause actual results to differ materially from such statements. Lindian makes no undertaking to subsequently update or revise the forward-looking statements made in this announcement, to reflect the circumstances or events after the date of the announcement.

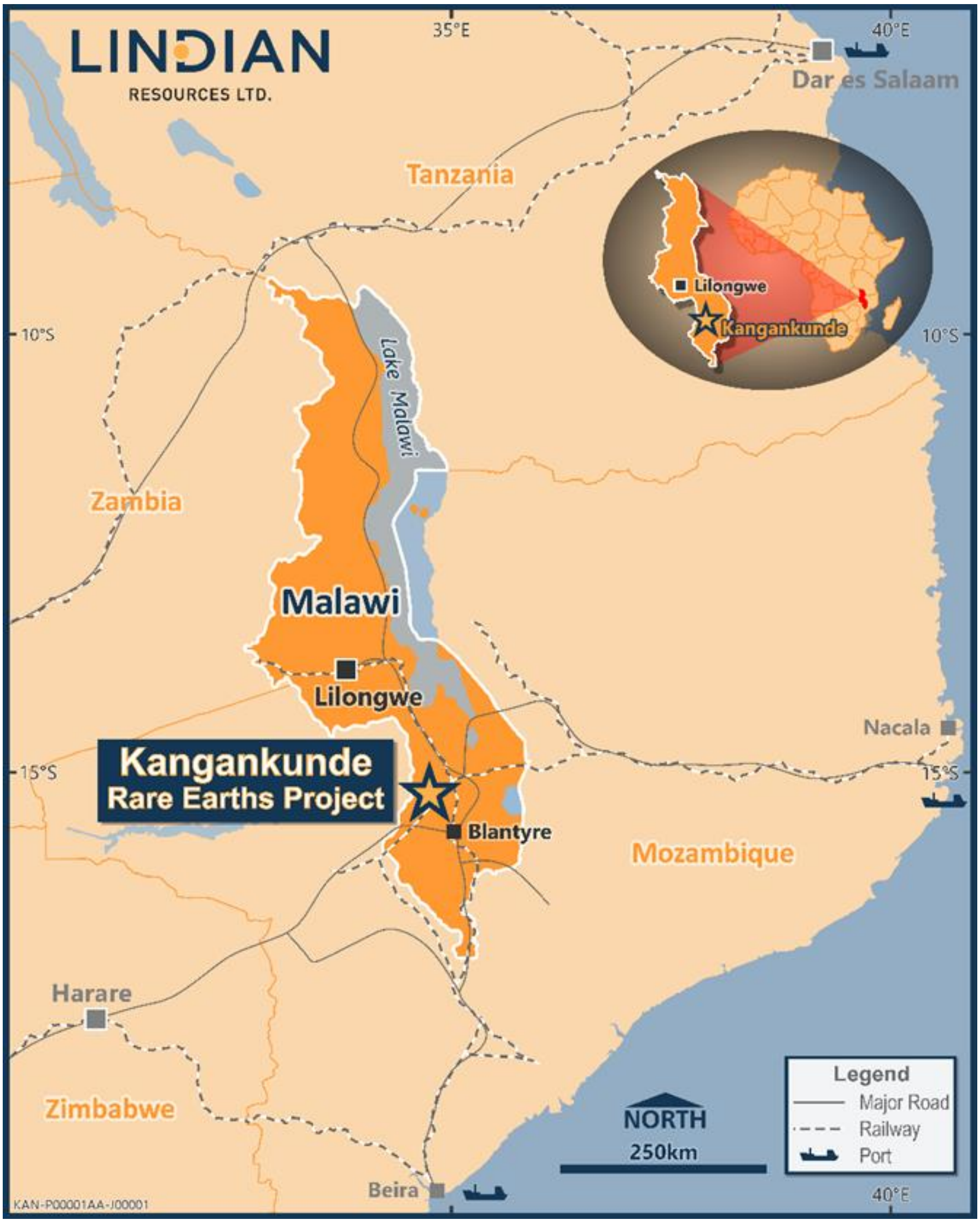
Appendix 1: Kangankunde Rare Earths Project Hole Details (Datum UTM WGS84 Zone 36S)*

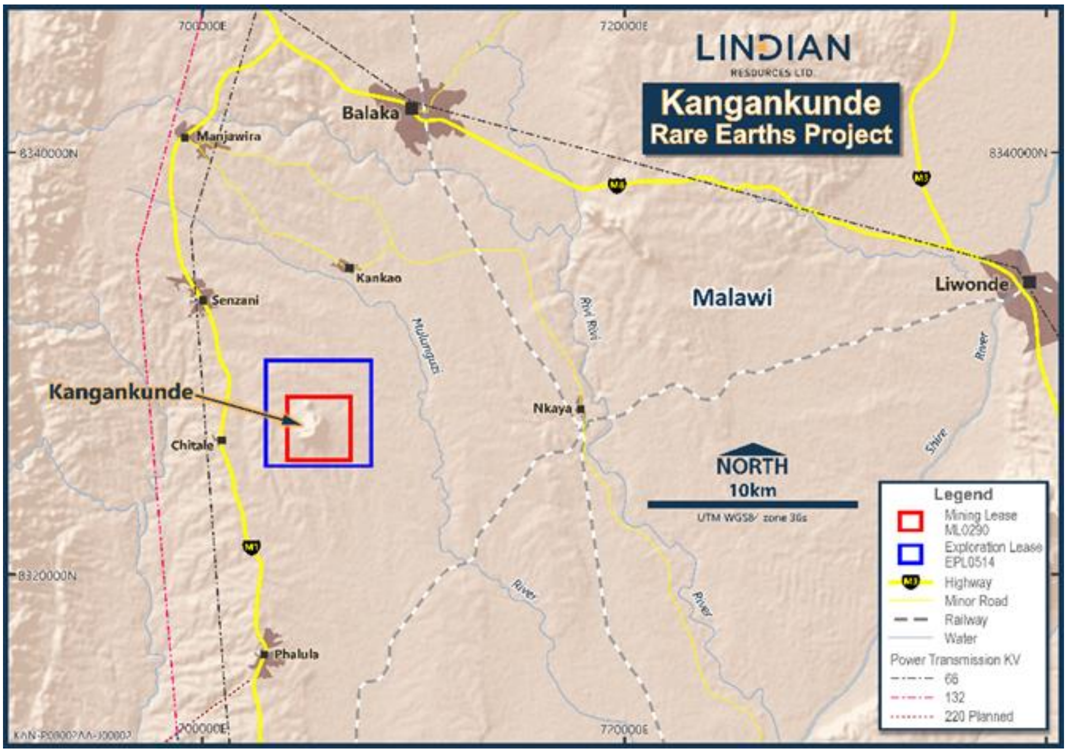
Drill Hole ID	UTM East (m.)	UTM North (m.)	Elevation (m.a.s.l.)	Drill Type	Hole Length EOH (m.)	Azimuth	Inclination
KGKRC012	705496	8327070	787	RC	210	360	-45
KGKRC013	705343	8326942	796	RC	162	090	-60
KGKRC014	705490	8327063	787	RC	206	090	-45

* Planned hole orientations.

Location

The project, supported by historical exploration and metallurgical test work, is located in southern Malawi, 90km north of Blantyre. The project is located in close proximity to existing transportation infrastructure (3km to road and 9km to rail) and to a high voltage power line (4km).





Above: Kangankunde is located 90 kilometres north of the city of Blantyre, the main economic and commercial centre in Malawi. The town of Balaka, 15 kilometres to the north of Kangankunde, a regional trade centre, has a population of about 36,000 people. The project is located close to the main M1 highway, rail lines to ports and high voltage transmission lines.

Tenure and Licences

Lindian will progressively acquire 100% of Malawian registered Rift Valley Resource Developments Limited and its 100% owned title to Exploration Licence EPL0514/18R and Mining Licence MML0290/22 (refer ASX announcement ASX:LIN dated 1 August 2022) issued under the Malawi Mines and Minerals Act 2018. The Exploration and Mining Licences have an Environmental and Social Impact Assessment Licence No.2:10:16 issued under the Malawi Environmental Management Act No. 19 of 2017.

EXPLORATION LICENCE	MINING LICENCE	ENVIRONMENTAL LICENCE


MALAWI GOVERNMENT

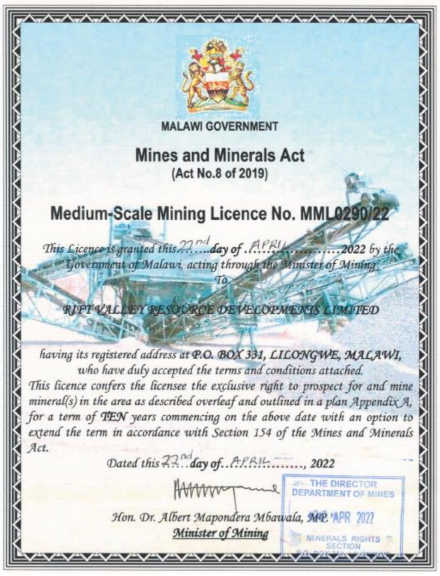
Mines and Minerals Act
(Act No.8 of 2019)

Exploration Licence No. EL0514/18R

This Licence's term is extended this 16th day of October, 2021 by the Government of Malawi, acting through the Minister of Mining
To
RIFT VALLEY RESOURCE DEVELOPMENTS LIMITED
having its registered address at P.O. BOX 331, LILONGWE, MALAWI who have duly accepted the terms and conditions attached.
This licence grants the licensee the exclusive right to prospect for mineral(s) in the area as described overleaf and outlined in a plan Appendix A, for a term of TWO years commencing on the above date with an option to extend the term in accordance with Section 119 of the Mines and Minerals Act.

Dated this 22nd day of APRIL 2022

Hon. Dr. Albert Mapondera Mbawala, MP.
Minister of Mining


MALAWI GOVERNMENT

Mines and Minerals Act
(Act No.8 of 2019)

Medium-Scale Mining Licence No. MML0290/22

This Licence is granted this 22nd day of APRIL 2022 by the Government of Malawi, acting through the Minister of Mining
To
RIFT VALLEY RESOURCE DEVELOPMENTS LIMITED
having its registered address at P.O. BOX 331, LILONGWE, MALAWI, who have duly accepted the terms and conditions attached.
This licence confers the licensee the exclusive right to prospect for and mine mineral(s) in the area as described overleaf and outlined in a plan Appendix A, for a term of TEN years commencing on the above date with an option to extend the term in accordance with Section 154 of the Mines and Minerals Act.

Dated this 22nd day of APRIL 2022

Hon. Dr. Albert Mapondera Mbawala, MP.
Minister of Mining


MALAWI GOVERNMENT

MEPA No: 2 ESIA CERTIFICATE No: 2.10.16

ENVIRONMENT MANAGEMENT ACT
(No. 19 OF 2017)
CERTIFICATE OF APPROVAL OF A PROJECT

IN TERMS of Section 31 (2) of the Environment Management Act, I TAWONGA MBALE- LUKA, Acting Director General of Malawi Environment Protection Authority (MEPA), hereby certify that KANGANKUDE MONAZITE MINE has been approved by the MEPA Board under the Environment Management Act.

Dated this 27th day of SEPTEMBER 2021

ACTING DIRECTOR GENERAL, MEPA

Appendix 2: Analytical Results KGKRC012, KGKRC013 and KGKRC014

Note: NS= No sample

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
KGKRC012	0	1	5,020	9,815	975	2,986	179	27.3	43.7	2.8	8.6	0.9	1.6	0.2	0.9	0.1	21.6	19,082	1.91	20.4	6.1
	1	2	6,204	11,572	1,119	3,371	216	35.4	59.5	4.5	14.1	1.4	2.2	0.2	1.3	0.2	33.0	22,633	2.26	41.3	4.2
	2	3	4,058	8,464	890	2,858	184	27.3	41.6	2.6	8.2	0.9	1.5	0.2	0.9	0.1	21.6	16,559	1.66	21.8	6.4
	3	4	2,568	4,803	481	1,510	110	19.9	35.5	2.9	10.1	1.3	2.5	0.3	1.7	0.2	33.0	9,580	0.96	30.9	6.5
	4	5	8,644	14,679	1,408	3,977	279	49.7	87.6	6.1	19.3	1.9	2.9	0.2	1.3	0.2	43.2	29,200	2.92	53.4	3.8
	5	6	2,428	4,177	385	1,138	76	14.4	26.7	2.2	8.2	0.9	1.6	0.2	0.9	0.1	21.6	8,281	0.83	20.1	7.8
	6	7	6,063	10,601	997	3,009	203	35.7	60.2	4.4	13.3	1.3	2.1	0.2	1.1	0.2	31.8	21,024	2.10	51.3	7.8
	7	8	3,167	5,307	484	1,417	85	14.8	25.9	1.9	6.5	0.7	1.6	0.2	0.9	0.1	20.3	10,533	1.05	15.2	10.2
	8	9	3,260	5,430	489	1,406	88	15.8	28.5	2.1	7.4	0.9	1.5	0.2	1.1	0.1	21.6	10,752	1.08	14.8	9.7
	9	10	2,780	4,545	405	1,144	69	12.0	20.3	1.4	5.3	0.7	1.3	0.2	0.9	0.1	17.8	9,002	0.90	10.8	8.2
	10	11	3,718	6,400	598	1,755	113	19.2	31.8	2.2	6.5	0.8	1.5	0.2	0.9	0.1	19.1	12,667	1.27	15.6	9.0
	11	12	12,197	20,391	1,939	5,354	355	62.9	110.3	7.1	23.0	2.3	3.5	0.3	1.4	0.2	53.3	40,501	4.05	60.4	7.8
	12	13	3,788	6,326	574	1,650	101	17.6	30.3	2.1	6.8	0.9	1.5	0.2	0.9	0.1	19.1	12,520	1.25	17.2	9.2
	13	14	4,398	7,383	665	1,901	118	19.2	33.1	2.1	7.0	0.8	1.5	0.2	0.8	0.1	19.1	14,548	1.45	16.4	9.1
	14	15	1,507	2,702	256	820	69	14.8	31.6	3.1	13.8	2.0	3.9	0.4	2.3	0.3	52.1	5,479	0.55	17.9	11.4
	15	16	2,011	3,427	311	937	70	12.7	24.7	2.0	8.2	1.1	2.2	0.3	1.4	0.2	29.2	6,838	0.68	29.3	14.4
	16	17	12,490	20,637	1,933	5,284	343	58.4	103.6	7.0	22.0	2.5	3.8	0.4	1.8	0.2	55.9	40,943	4.09	68.9	14.0
	17	18	7,271	11,252	962	2,648	158	26.5	47.0	3.5	12.9	1.5	2.2	0.2	1.0	0.1	33.0	22,419	2.24	30.8	4.3
	18	19	7,447	11,522	979	2,683	152	26.6	46.6	3.4	11.4	1.2	1.7	0.2	0.7	0.1	26.7	22,902	2.29	28.2	3.8
	19	20	12,784	20,883	1,915	5,097	310	53.2	89.4	6.2	20.2	2.2	3.2	0.3	1.4	0.2	50.8	41,215	4.12	55.2	6.3
	20	21	3,683	5,872	520	1,505	107	19.9	38.4	3.4	12.6	1.5	2.6	0.3	2.1	0.2	40.6	11,807	1.18	38.7	12.8
	21	22	5,794	9,397	841	2,379	147	25.7	44.3	3.0	9.5	1.0	1.7	0.1	0.6	0.1	24.1	18,669	1.87	28.0	7.2
	22	23	1,982	3,366	307	906	61	11.1	19.8	1.6	6.2	0.9	1.7	0.3	1.6	0.2	22.9	6,689	0.67	21.1	16.4
	23	24	1,923	3,415	321	1,012	82	16.9	34.9	3.0	12.2	1.7	3.8	0.4	2.9	0.4	43.2	6,874	0.69	20.0	18.2
	24	25	11,529	18,979	1,770	4,817	292	48.3	78.5	5.1	17.5	1.9	3.2	0.3	1.8	0.2	47.0	37,591	3.76	35.2	8.8
	25	26	2,135	3,796	353	1,078	78	13.7	24.8	1.9	6.8	1.0	2.2	0.3	1.8	0.3	26.7	7,518	0.75	25.7	18.4
	26	27	7,178	13,451	1,377	4,094	273	43.8	69.9	4.2	13.7	1.6	3.3	0.4	2.6	0.3	41.9	26,554	2.66	41.4	12.8
	27	28	11,118	18,795	1,806	5,004	311	52.2	84.4	5.1	14.9	1.6	2.7	0.3	1.4	0.2	40.6	37,237	3.72	27.5	7.4
	28	29	1,296	2,702	282	974	112	25.2	55.8	5.2	22.4	3.2	6.8	0.8	5.1	0.6	87.6	5,579	0.56	37.6	16.4
	29	30	1,029	2,260	240	862	106	24.9	59.2	6.1	27.4	4.0	8.8	1.0	5.5	0.7	111.8	4,746	0.47	33.7	15.4
	30	31	1,047	2,555	272	962	99	22.4	48.5	4.4	17.5	2.4	5.4	0.6	3.6	0.5	59.7	5,100	0.51	31.1	20.9
	31	32	979	2,156	222	774	95	23.3	56.4	5.8	25.8	3.9	8.9	1.1	6.5	0.8	102.9	4,462	0.45	26.5	17.1
	32	33	999	2,199	225	787	97	23.2	56.1	5.8	27.0	4.0	9.0	1.0	6.4	0.8	105.4	4,546	0.45	26.7	17.7
	33	34	1,048	2,426	254	884	102	23.7	55.9	5.5	24.7	3.3	8.1	0.9	5.2	0.7	94.0	4,937	0.49	36.9	16.0
	34	35	1,319	2,936	296	1,014	114	26.4	62.7	6.5	30.1	4.3	11.4	1.3	7.7	1.1	125.7	5,956	0.60	49.0	14.6
	35	36	1,061	2,438	259	920	110	27.9	66.2	7.3	34.3	5.2	12.4	1.4	7.5	0.9	142.2	5,094	0.51	34.8	13.0
	36	37	12,901	20,514	1,818	4,666	269	45.3	79.4	5.4	18.1	2.0	3.7	0.4	1.9	0.2	50.8	40,375	4.04	54.8	13.1
	37	38	11,845	18,856	1,667	4,374	254	42.3	72.7	4.7	15.2	1.6	3.1	0.3	1.6	0.2	39.4	37,177	3.72	48.3	11.0
	38	39	7,823	13,390	1,162	3,254	198	33.4	57.4	4.0	14.0	1.7	3.2	0.3	1.6	0.2	40.6	25,983	2.60	40.2	13.8

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	39	40	2,463	4,349	398	1,225	107	21.0	40.3	3.7	14.8	1.9	3.7	0.4	1.9	0.2	49.5	8,678	0.87	52.0	13.0
	40	41	2,082	4,177	426	1,446	162	39.5	96.1	11.2	56.2	9.5	26.4	3.1	17.9	2.1	297.2	8,853	0.89	92.9	19.6
	41	42	1,789	3,612	366	1,260	150	34.9	85.3	9.1	42.6	6.5	16.2	1.8	10.1	1.3	198.1	7,581	0.76	59.2	13.2
	42	43	2,697	4,938	451	1,376	112	21.8	43.0	3.7	12.9	1.6	3.4	0.4	2.2	0.3	41.9	9,706	0.97	41.2	12.6
	43	44	1,105	2,543	274	977	120	28.6	71.7	7.4	32.0	4.6	10.2	1.2	6.4	0.8	124.5	5,307	0.53	27.1	13.6
	44	45	1,006	2,340	246	874	105	24.3	59.2	6.0	28.1	4.0	9.2	1.0	5.6	0.8	105.4	4,815	0.48	21.1	13.8
	45	46	693	1,683	189	723	104	26.6	69.5	7.7	36.3	5.6	13.0	1.5	8.3	1.0	151.1	3,713	0.37	29.2	9.3
	46	47	1,140	2,641	271	948	114	26.5	63.1	6.6	30.1	4.3	9.7	1.1	6.2	0.9	119.4	5,382	0.54	25.3	12.2
	47	48	577	1,462	166	653	101	26.3	68.8	7.4	35.1	5.3	12.5	1.4	7.6	0.9	147.3	3,271	0.33	32.3	7.4
	48	49	423	1,069	133	541	92	24.4	65.4	7.5	34.8	5.3	12.1	1.2	7.5	0.9	144.8	2,562	0.26	32.8	8.9
	49	50	708	1,800	207	805	117	29.8	73.8	8.0	36.6	5.3	12.4	1.3	7.7	0.9	144.8	3,956	0.40	60.4	45.3
	50	51	582	1,536	179	703	107	27.0	69.9	7.8	36.3	5.4	12.6	1.4	7.7	0.9	149.9	3,426	0.34	48.6	19.0
	51	52	2,211	4,742	500	1,650	136	26.1	51.6	4.1	15.8	2.0	4.2	0.5	2.3	0.3	50.8	9,397	0.94	19.9	14.4
	52	53	2,697	5,565	567	1,831	148	29.1	56.7	5.2	23.4	3.7	10.1	1.3	8.5	1.1	113.0	11,060	1.11	37.1	13.0
	53	54	1,041	2,690	306	1,145	142	33.4	76.5	7.8	34.1	5.2	12.8	1.4	9.7	1.4	146.0	5,653	0.57	40.2	14.1
	54	55	1,835	3,931	414	1,435	147	32.2	73.3	7.8	38.3	5.6	14.0	1.4	9.3	1.2	162.6	8,108	0.81	40.6	14.0
	55	56	1,959	4,213	437	1,499	145	30.0	64.7	6.1	25.4	3.8	8.4	1.0	5.1	0.7	101.6	8,500	0.85	29.5	12.4
	56	57	990	2,481	267	968	111	26.5	64.3	7.6	37.1	5.7	14.4	1.8	11.5	1.6	172.7	5,161	0.52	55.0	22.9
	57	58	1,624	3,906	441	1,627	189	40.3	88.6	8.1	33.4	4.9	11.0	1.3	7.9	1.1	132.1	8,116	0.81	60.8	15.6
	58	59	1,095	2,702	295	1,071	128	29.8	72.8	7.5	35.1	5.2	12.8	1.4	8.0	1.1	144.8	5,610	0.56	46.7	9.9
	59	60	828	2,101	256	987	141	30.5	71.6	7.3	31.8	4.9	11.3	1.3	7.2	1.0	135.9	4,616	0.46	49.7	10.2
	60	61	1,355	2,936	320	1,095	128	26.6	63.4	6.4	27.5	4.2	9.0	1.0	5.4	0.8	111.8	6,090	0.61	43.9	14.5
	61	62	916	2,174	251	917	122	27.1	64.4	7.0	30.2	4.7	10.5	1.2	6.5	0.8	125.7	4,659	0.47	36.4	10.2
	62	63	1,249	2,899	330	1,147	136	29.4	68.2	6.9	29.2	4.5	9.8	1.1	6.7	1.0	120.6	6,038	0.60	38.6	11.9
	63	64	1,519	3,440	387	1,353	159	33.4	75.7	7.7	32.3	5.2	11.9	1.5	8.4	1.2	139.7	7,174	0.72	32.1	9.4
	64	65	1,683	3,771	418	1,417	159	31.5	71.8	7.0	29.6	4.4	9.3	1.1	5.6	0.8	118.1	7,727	0.77	31.0	12.4
	65	66	2,047	4,226	443	1,452	150	30.7	70.8	7.2	29.5	4.2	9.3	1.1	6.0	0.9	127.0	8,605	0.86	64.8	7.2
	66	67	5,583	10,884	1,122	3,453	332	62.1	121.6	9.7	31.8	4.0	7.4	0.9	4.6	0.6	113.0	21,728	2.17	100.0	9.2
	67	68	2,592	5,737	642	2,140	216	39.5	78.8	6.5	19.6	2.3	3.9	0.4	2.2	0.3	59.7	11,539	1.15	83.5	10.3
	68	69	2,885	5,798	584	1,732	128	20.2	36.8	2.8	9.4	1.2	2.3	0.3	1.4	0.2	29.2	11,230	1.12	25.9	10.1
	69	70	4,550	9,373	976	2,799	188	29.2	48.4	3.4	9.2	1.0	1.8	0.2	1.0	0.2	24.1	18,006	1.80	28.7	7.3
	70	71	4,773	9,827	1,026	2,939	199	29.5	48.5	3.4	9.4	1.0	2.1	0.2	0.9	0.1	24.1	18,884	1.89	30.5	7.0
	71	72	6,603	13,451	1,426	4,304	305	49.0	85.5	6.1	17.0	1.7	2.6	0.2	1.0	0.2	38.1	26,290	2.63	73.8	5.4
	72	73	5,993	12,345	1,311	3,884	256	37.5	60.6	4.1	11.7	1.3	1.9	0.2	1.0	0.2	29.2	23,937	2.39	35.2	6.1
	73	74	6,497	13,082	1,359	4,001	255	37.2	61.9	4.9	14.9	1.8	3.2	0.3	1.6	0.2	48.3	25,369	2.54	39.0	5.3
	74	75	8,092	15,416	1,547	4,549	312	48.8	86.3	7.1	23.9	3.1	5.8	0.6	3.5	0.4	94.0	30,190	3.02	64.6	5.0
	75	76	9,746	18,979	1,903	5,634	375	58.6	104.3	7.6	21.9	2.4	4.2	0.5	2.4	0.4	63.5	36,902	3.69	84.5	5.1
	76	77	6,896	14,495	1,534	4,747	355	56.7	101.3	8.3	28.5	3.7	7.3	0.8	4.2	0.6	116.8	28,356	2.84	86.9	5.4
	77	78	6,368	12,653	1,299	3,849	267	40.5	73.0	5.7	19.2	2.4	4.8	0.5	3.3	0.5	72.4	24,658	2.47	58.5	7.6
	78	79	7,060	13,574	1,365	4,024	295	47.7	90.1	7.6	27.3	3.5	6.9	0.7	4.1	0.6	107.9	26,614	2.66	86.2	5.0
	79	80	9,242	17,136	1,704	4,922	355	54.9	95.6	6.6	20.4	2.4	4.4	0.4	1.7	0.2	68.6	33,614	3.36	71.7	2.4
	80	81	7,436	12,775	1,311	3,628	260	42.5	74.0	6.1	21.4	2.7	5.8	0.6	2.7	0.3	83.8	25,649	2.56	64.8	2.2
	81	82	8,198	15,109	1,595	4,491	312	50.4	86.2	6.5	21.1	2.6	5.2	0.5	2.6	0.3	74.9	29,955	3.00	69.8	4.5
	82	83	6,345	12,100	1,329	3,861	285	47.9	84.0	6.6	20.7	2.5	5.2	0.6	3.3	0.4	76.2	24,167	2.42	83.2	7.0

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	83	84	12,373	21,313	2,163	6,415	429	69.4	118.1	8.8	27.3	3.2	5.7	0.6	3.3	0.5	91.4	43,021	4.30	93.2	2.2
	84	85	12,080	23,278	2,314	6,893	449	68.0	117.0	9.3	31.2	3.9	7.2	0.9	4.7	0.7	113.0	45,370	4.54	86.2	5.8
	85	86	2,838	5,368	521	1,575	122	20.8	42.0	4.2	14.8	1.6	2.6	0.2	1.4	0.2	41.9	10,553	1.06	48.9	2.0
	86	87	2,920	5,540	544	1,645	136	22.8	49.0	5.8	21.0	2.4	3.7	0.3	1.7	0.3	59.7	10,951	1.10	49.7	1.7
	87	88	5,770	11,608	1,226	3,511	255	39.6	72.3	6.0	20.1	2.3	3.9	0.4	2.3	0.3	61.0	22,579	2.26	53.8	4.0
	88	89	7,471	14,864	1,498	4,491	298	46.8	79.8	5.9	17.6	1.9	3.2	0.3	1.6	0.3	48.3	28,827	2.88	51.2	4.3
	89	90	5,641	10,982	1,139	3,406	249	47.4	84.8	7.5	25.6	2.7	4.7	0.4	1.9	0.3	64.8	21,658	2.17	68.2	3.2
	90	91	7,400	14,004	1,395	4,001	273	47.4	82.9	6.7	22.7	2.6	4.6	0.4	2.2	0.3	64.8	27,307	2.73	52.7	4.7
	91	92	6,650	12,653	1,281	3,756	262	46.2	83.3	6.7	20.4	2.1	3.4	0.3	1.4	0.2	47.0	24,812	2.48	71.5	5.1
	92	93	5,512	10,527	1,058	3,208	240	43.2	77.0	5.9	19.1	2.0	3.5	0.3	1.5	0.2	45.7	20,744	2.07	55.6	4.8
	93	94	7,447	13,820	1,377	3,931	254	41.8	66.4	4.9	15.6	1.7	3.0	0.3	1.1	0.2	38.1	27,002	2.70	32.1	3.3
	94	95	7,131	13,021	1,299	3,616	220	36.5	57.4	4.2	12.7	1.5	2.5	0.2	1.1	0.2	31.8	25,434	2.54	27.7	5.4
	95	96	5,981	11,473	1,156	3,336	221	38.1	64.1	5.1	16.8	1.9	3.4	0.3	1.5	0.2	41.9	22,341	2.23	47.0	4.3
	96	97	2,873	5,405	546	1,837	158	30.2	61.2	5.7	18.0	1.8	3.1	0.3	1.7	0.3	41.9	10,984	1.10	81.4	7.2
	97	98	1,747	3,317	321	1,037	84	16.0	29.6	2.2	7.4	0.9	1.9	0.2	1.0	0.2	21.6	6,588	0.66	16.8	9.9
	98	99	1,701	3,169	301	952	74	13.2	22.7	1.6	5.4	0.7	1.5	0.2	1.0	0.1	16.5	6,260	0.63	16.2	18
	99	100	1,366	2,801	284	961	90	17.7	33.7	2.7	9.4	1.2	2.7	0.2	1.5	0.2	27.9	5,599	0.56	15.4	21
	100	101	1,466	2,825	278	927	87	17.8	33.1	2.6	9.0	1.1	2.6	0.2	1.4	0.2	26.7	5,679	0.57	13.4	9.9
	101	102	1,718	3,366	336	1,137	111	23.0	45.9	3.8	12.7	1.6	2.9	0.3	1.6	0.2	35.6	6,795	0.68	24.5	6.6
	102	103	1,636	3,046	291	954	85	16.6	30.9	2.5	8.3	1.0	2.2	0.2	1.1	0.2	24.1	6,100	0.61	23.3	6.7
	103	104	2,123	3,845	372	1,190	101	19.1	35.0	2.7	8.6	1.1	2.2	0.2	1.1	0.2	24.1	7,724	0.77	23.8	8.3
	104	105	2,674	4,877	475	1,522	126	24.0	41.0	3.0	9.3	1.1	2.1	0.2	1.1	0.1	24.1	9,780	0.98	24.0	6.7
	105	106	2,234	3,906	369	1,149	89	16.6	27.8	2.0	5.9	0.8	1.5	0.2	0.8	0.1	17.8	7,821	0.78	12.4	8.2
	106	107	1,771	3,255	308	991	84	16.3	30.1	2.3	7.8	1.0	2.1	0.2	1.0	0.1	22.9	6,494	0.65	19.1	9.6
	107	108	1,190	2,506	250	839	77	15.1	27.9	2.2	7.6	1.0	1.9	0.2	1.3	0.2	21.6	4,941	0.49	17.2	11.8
	108	109	1,190	2,653	279	981	97	19.3	37.6	3.2	10.7	1.2	2.5	0.3	1.6	0.2	33.0	5,310	0.53	27.3	6.8
	109	110	1,536	3,513	388	1,394	141	28.7	53.4	3.8	12.6	1.6	3.3	0.3	1.7	0.3	35.6	7,113	0.71	35.8	6.4
	110	111	1,525	3,096	324	1,126	110	24.1	46.9	3.9	13.1	1.7	3.3	0.3	1.8	0.3	38.1	6,313	0.63	29.3	9.1
	111	112	2,815	5,098	475	1,417	93	15.8	27.0	1.9	5.9	0.8	1.7	0.2	0.9	0.1	17.8	9,970	1.00	11.0	6.6
	112	113	1,185	2,518	249	833	81	17.6	37.0	3.3	12.4	1.8	4.4	0.4	2.3	0.3	43.2	4,988	0.50	9.9	6.7
	113	114	1,139	2,580	272	979	111	25.1	52.0	4.8	16.9	2.0	4.2	0.4	2.2	0.3	49.5	5,238	0.52	34.7	7.0
	114	115	1,278	2,702	277	955	103	22.9	47.4	4.2	15.6	2.1	4.7	0.5	2.6	0.3	50.8	5,467	0.55	19.7	9.6
	115	116	1,000	2,303	249	913	112	25.9	57.5	5.8	20.9	2.7	5.3	0.5	3.0	0.4	66.0	4,766	0.48	36.4	7.9
	116	117	1,402	2,850	295	1,023	105	23.7	52.0	5.0	16.5	1.7	3.0	0.3	1.6	0.3	38.1	5,817	0.58	51.5	9.4
	117	118	1,272	2,813	294	1,033	109	23.5	49.7	4.8	16.3	1.8	3.7	0.4	1.9	0.3	43.2	5,667	0.57	62.4	19.4
	118	119	2,897	5,589	556	1,779	138	27.4	53.0	4.7	15.4	1.7	3.1	0.3	1.6	0.2	39.4	11,105	1.11	44.5	11.3
	119	120	1,120	2,420	243	851	82	16.2	39.3	4.2	16.5	1.7	2.7	0.2	1.3	0.2	43.2	4,842	0.48	45.5	6.1
	120	121	4,246	8,169	778	2,414	162	28.0	62.1	5.9	20.4	2.1	3.2	0.3	1.7	0.2	52.1	15,945	1.59	67.6	5.6
	121	122	4,058	7,727	704	2,135	126	20.4	40.8	3.7	12.9	1.3	2.2	0.2	1.0	0.1	33.0	14,865	1.49	34.8	2.0
	122	123	6,005	11,621	1,132	3,313	197	30.0	57.3	4.4	14.5	1.6	3.0	0.3	1.7	0.2	43.2	22,423	2.24	37.3	4.3
	123	124	3,929	7,309	675	2,041	126	20.8	44.3	4.2	16.1	1.7	2.6	0.2	1.1	0.1	41.9	14,214	1.42	45.5	8.5
	124	125	2,944	5,749	553	1,773	115	19.1	38.4	3.0	9.5	1.0	1.7	0.2	1.4	0.2	25.4	11,234	1.12	34.2	7.9
	125	126	6,063	11,572	1,102	3,219	195	31.2	59.6	4.5	16.1	1.7	3.2	0.3	1.9	0.3	49.5	22,320	2.23	35.2	3.1
	126	127	3,976	8,758	917	3,149	256	44.0	90.7	6.8	22.0	2.3	3.9	0.4	2.5	0.3	62.2	17,292	1.73	81.0	3.2

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	127	128	3,694	6,781	625	1,925	135	23.9	49.1	4.2	14.2	1.5	2.4	0.2	1.4	0.2	35.6	13,292	1.33	45.3	10.4
	128	129	1,753	3,329	304	946	69	13.4	32.5	4.0	16.3	1.7	2.6	0.2	1.3	0.2	40.6	6,514	0.65	41.6	6.8
	129	130	2,897	5,331	487	1,516	113	21.8	48.8	5.0	18.9	1.8	2.6	0.2	1.1	0.1	43.2	10,488	1.05	50.4	4.8
	130	131	3,038	5,614	523	1,615	118	22.0	51.5	5.2	21.2	2.2	3.3	0.3	1.5	0.2	54.6	11,070	1.11	59.4	10.2
	131	132	3,401	6,375	620	2,059	168	30.5	63.4	5.1	18.1	1.9	3.3	0.3	1.7	0.3	49.5	12,797	1.28	60.4	11.4
	132	133	3,026	5,651	524	1,592	100	16.1	29.7	2.3	8.8	1.0	1.8	0.2	0.9	0.1	25.4	10,979	1.10	19.5	12.2
	133	134	4,023	7,555	687	2,070	125	19.5	37.9	3.3	12.2	1.3	2.4	0.2	1.0	0.1	31.8	14,569	1.46	29.1	9.1
	134	135	5,864	11,043	998	2,986	178	27.0	51.1	3.8	12.2	1.2	2.4	0.3	1.5	0.2	33.0	21,202	2.12	35.0	10.7
	135	136	6,040	11,424	1,089	3,208	204	33.8	69.2	5.9	20.7	2.2	4.2	0.4	2.1	0.3	57.2	22,160	2.22	59.9	3.0
	136	137	12,725	23,708	2,320	6,928	435	71.9	143.5	10.8	36.6	3.7	5.8	0.5	2.6	0.4	91.4	46,483	4.65	107.5	4.4
	137	138	12,784	23,094	2,199	6,625	421	71.3	134.3	9.1	27.4	2.8	4.8	0.5	2.5	0.3	69.8	45,445	4.54	86.5	3.8
	138	139	8,303	15,171	1,474	4,246	307	52.7	104.8	7.4	24.7	2.7	5.3	0.5	3.1	0.4	73.7	29,776	2.98	67.5	3.3
	139	140	10,872	18,979	1,776	4,957	314	52.0	103.7	7.4	24.9	2.6	4.6	0.4	1.9	0.2	67.3	37,163	3.72	78.4	3.3
	140	141	12,256	21,866	2,042	5,844	325	52.5	100.4	7.7	26.7	2.7	4.7	0.4	2.1	0.3	74.9	42,604	4.26	70.8	3.7
	141	142	11,904	21,313	2,036	5,785	341	53.6	102.0	7.2	21.6	2.3	3.9	0.3	1.4	0.2	57.2	41,628	4.16	86.3	2.8
	142	143	10,532	18,979	1,764	4,829	276	44.7	87.7	7.4	25.3	2.8	4.9	0.4	2.3	0.3	73.7	36,629	3.66	61.8	3.5
	143	144	9,652	18,303	1,794	4,969	286	44.5	80.0	5.8	17.8	1.8	3.0	0.3	1.1	0.1	44.5	35,203	3.52	60.9	2.4
	144	145	10,942	19,163	1,788	4,817	285	47.5	96.2	8.6	32.0	3.6	6.1	0.6	3.1	0.4	97.8	37,292	3.73	79.4	3.9
	145	146	8,655	15,785	1,480	4,152	259	43.4	88.1	7.1	24.3	2.7	4.8	0.4	2.1	0.3	69.8	30,574	3.06	76.1	2.6
	146	147	8,667	15,724	1,486	4,129	249	41.3	81.6	6.4	21.8	2.4	4.1	0.4	1.8	0.3	59.7	30,475	3.05	64.1	3.3
	147	148	10,086	18,979	1,830	5,121	288	44.5	82.0	5.9	18.4	1.8	3.2	0.3	1.4	0.2	44.5	36,505	3.65	51.5	3.7
	148	149	6,239	11,793	1,074	3,138	176	26.4	50.9	4.1	13.7	1.4	2.3	0.2	1.1	0.2	33.0	22,553	2.26	41.6	3.2
	149	150	6,298	12,284	1,174	3,359	193	33.7	58.3	4.7	14.7	1.6	2.6	0.2	1.0	0.1	38.1	23,464	2.35	45.0	5.2
	150	151	7,705	14,618	1,402	3,966	240	42.6	74.6	6.3	20.5	2.2	3.9	0.3	1.7	0.2	55.9	28,139	2.81	66.5	3.8
	151	152	5,524	10,368	930	2,811	158	26.9	45.6	3.8	12.2	1.3	2.5	0.2	0.9	0.1	34.3	19,918	1.99	33.8	1.9
	152	153	6,274	11,707	1,026	3,033	160	25.8	43.9	3.6	11.9	1.3	2.4	0.1	0.7	0.1	30.5	22,320	2.23	31.4	1.9
	153	154	8,339	16,276	1,547	4,479	255	43.2	74.2	6.0	19.3	2.1	3.4	0.2	1.4	0.2	49.5	31,095	3.11	64.2	2.3
	154	155	9,230	16,891	1,565	4,292	226	39.0	67.8	5.6	16.3	1.6	2.7	0.2	1.1	0.1	38.1	32,376	3.24	64.4	1.6
	155	156	11,200	21,006	1,951	5,435	291	48.5	79.4	6.2	19.3	2.1	3.2	0.2	1.3	0.2	47.0	40,091	4.01	58.6	2.8
	156	157	11,705	20,821	1,909	5,249	279	46.4	79.4	6.4	19.1	2.0	3.1	0.2	1.3	0.2	45.7	40,167	4.02	56.0	2.1
	157	158	11,963	21,620	1,951	5,377	292	50.5	84.8	6.6	21.1	2.6	4.8	0.4	2.3	0.3	66.0	41,442	4.14	55.0	3.0
	158	159	18,999	34,272	3,045	8,806	433	74.2	123.3	9.0	26.4	2.7	4.7	0.4	2.2	0.3	62.2	65,861	6.59	79.2	2.6
	159	160	23,221	39,923	3,492	9,973	500	87.1	146.4	10.4	28.2	2.8	4.2	0.3	1.9	0.3	61.0	77,451	7.75	111	2.4
	160	161	15,364	27,516	2,513	7,092	355	59.4	98.1	6.9	19.9	2.0	3.5	0.3	1.6	0.2	48.3	53,080	5.31	67	2.4
	161	162	11,622	21,743	1,994	5,424	283	46.9	78.8	5.9	18.6	2.0	3.9	0.3	1.8	0.3	53.3	41,277	4.13	55.7	2.0
	162	163	12,021	23,033	2,145	6,147	307	52.6	86.3	6.7	19.7	2.0	3.4	0.3	1.6	0.2	47.0	43,872	4.39	66.2	2.0
	163	164	9,828	19,593	1,921	5,564	312	53.4	89.1	6.6	19.1	1.9	3.3	0.3	1.8	0.2	47.0	37,440	3.74	72.0	2.1
	164	165	8,198	17,075	1,704	5,051	299	50.0	81.3	5.8	16.3	1.6	2.7	0.2	1.3	0.2	38.1	32,523	3.25	56.2	2.7
	165	166	6,955	14,249	1,420	4,211	249	41.9	70.9	5.3	15.0	1.5	2.4	0.2	1.1	0.2	31.8	27,254	2.73	51.8	1.9
	166	167	6,181	13,082	1,341	4,094	250	41.7	64.7	4.2	11.9	1.2	1.9	0.2	0.7	0.1	26.7	25,102	2.51	32.9	4.5
	167	168	4,715	9,938	956	3,068	194	35.1	60.6	4.8	13.8	1.4	2.3	0.2	1.3	0.2	31.8	19,021	1.90	58.0	1.9
	168	169	5,160	12,653	1,498	5,086	455	87.3	154.5	10.3	26.9	2.5	4.0	0.3	1.9	0.3	58.4	25,197	2.52	138.5	1.8
	169	170	5,242	12,235	1,335	4,467	349	64.8	119.3	9.0	24.9	2.5	4.6	0.4	2.4	0.3	62.2	23,919	2.39	140.5	2.1
	170	171	6,497	13,758	1,402	4,211	276	50.6	93.0	7.2	18.6	1.6	2.4	0.2	0.9	0.1	35.6	26,354	2.64	110.5	1.3

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	171	172	5,512	11,658	1,154	3,581	215	35.0	56.8	4.2	13.1	1.4	2.3	0.2	1.0	0.1	29.2	22,262	2.23	35.4	3.2
	172	173	5,360	11,473	1,179	3,663	245	44.2	73.2	5.0	14.7	1.5	2.6	0.2	1.4	0.2	35.6	22,098	2.21	51.2	4.2
	173	174	7,611	15,908	1,661	4,957	307	51.4	86.2	6.0	17.9	1.7	3.0	0.2	1.0	0.2	39.4	30,652	3.07	54.2	3.6
	174	175	6,591	11,498	1,002	3,033	184	31.8	56.0	4.7	14.0	1.5	2.4	0.2	1.0	0.2	34.3	22,454	2.25	37.4	2.1
	175	176	3,401	6,400	588	1,860	121	22.5	42.0	3.8	12.6	1.4	2.2	0.2	1.1	0.2	33.0	12,489	1.25	39.9	1.6
	176	177	7,025	12,837	1,257	3,546	240	38.7	75.6	6.9	21.2	2.6	3.5	0.4	1.7	0.3	58.4	25,114	2.51	70.2	4.4
	177	178	4,128	7,800	778	2,152	141	22.0	41.5	4.0	14.0	1.8	3.0	0.3	1.4	0.2	45.7	15,133	1.51	36.4	4.4
	178	179	7,142	12,051	1,120	2,939	177	27.3	49.8	4.2	13.2	1.4	1.8	0.2	0.7	0.1	31.8	23,560	2.36	39.8	2.8
	179	180	5,876	11,768	1,199	3,394	211	32.3	58.1	5.1	15.8	1.7	2.9	0.2	1.3	0.2	41.9	22,607	2.26	42.4	3.3
	180	181	6,896	14,557	1,510	4,584	282	40.1	66.5	4.9	14.4	1.6	2.4	0.2	1.1	0.2	38.1	27,998	2.80	47.8	3.7
	181	182	3,073	6,633	724	2,187	151	21.8	36.7	2.5	7.6	1.0	1.9	0.2	1.3	0.2	25.4	12,866	1.29	19.0	2.7
	182	183	2,070	4,361	458	1,464	114	18.3	36.1	3.3	11.8	1.6	2.7	0.3	1.7	0.3	39.4	8,582	0.86	29.8	4.2
	183	184	1,005	1,984	198	640	61	11.9	28.0	3.5	14.9	2.1	4.1	0.5	2.9	0.4	59.7	4,016	0.40	30.9	3.6
	184	185	1,314	3,034	344	1,196	118	22.9	53.5	6.0	22.5	3.3	6.4	0.8	4.9	0.6	95.2	6,222	0.62	69.8	5.8
	185	186	1,349	2,887	301	974	81	14.9	33.3	3.7	14.1	1.8	3.2	0.4	2.4	0.3	50.8	5,716	0.57	42.9	5.0
	186	187	1,237	2,715	288	947	83	14.9	33.1	3.7	14.2	1.8	3.3	0.4	2.3	0.4	50.8	5,394	0.54	50.6	6.6
	187	188	516	1,228	132	443	42	7.8	17.3	1.9	6.5	0.8	1.3	0.2	1.0	0.2	21.6	2,420	0.24	33.1	3.1
	188	189	3,401	6,474	632	1,930	152	26.1	48.8	3.6	9.4	1.1	1.6	0.2	0.9	0.1	25.4	12,706	1.27	55.9	2.0
	189	190	2,240	4,692	501	1,639	161	32.9	73.9	6.7	21.0	2.7	5.2	0.7	4.1	0.6	73.7	9,455	0.95	126.5	14.5
	190	191	979	2,469	288	1,045	131	32.3	85.8	9.7	35.9	4.9	9.7	1.2	7.6	1.2	146.0	5,246	0.52	155.0	14.8
	191	192	1,835	4,029	429	1,423	146	30.2	75.7	11.0	60.3	11.5	28.2	3.7	20.7	2.7	374.6	8,481	0.85	96.0	16.2
	192	193	1,226	2,838	315	1,112	128	27.3	68.2	8.7	44.4	8.7	22.4	3.0	17.0	2.2	281.9	6,102	0.61	60.0	20.0
	193	194	3,823	8,058	849	2,613	225	39.5	86.0	9.5	42.5	7.2	16.4	1.9	9.5	1.3	227.3	16,010	1.60	68.5	9.8
	194	195	5,559	11,879	1,269	3,837	286	44.5	80.3	6.1	18.6	2.2	4.0	0.4	2.3	0.3	58.4	23,047	2.30	61.2	5.8
	195	196	8,866	18,979	2,030	6,147	387	54.4	86.8	5.6	15.7	1.7	2.9	0.3	1.5	0.2	40.6	36,619	3.66	47.8	3.9
	196	197	9,523	20,391	2,145	6,555	406	55.9	85.5	5.5	14.2	1.5	2.3	0.2	0.9	0.1	33.0	39,219	3.92	49.9	3.3
	197	198	6,720	14,741	1,577	4,759	300	41.7	69.3	4.6	13.0	1.4	2.2	0.2	0.9	0.2	30.5	28,261	2.83	45.2	3.2
	198	199	7,565	16,399	1,746	5,354	320	43.5	68.4	4.7	12.5	1.4	2.1	0.2	1.3	0.2	33.0	31,551	3.16	43.9	3.6
	199	200	7,154	15,355	1,631	5,016	307	43.1	70.5	4.8	13.4	1.6	2.3	0.2	1.4	0.2	35.6	29,636	2.96	51.2	3.4
	200	201	8,608	18,426	1,957	6,007	369	52.6	85.2	5.6	15.7	1.7	2.7	0.3	1.6	0.2	39.4	35,572	3.56	54.2	3.5
	201	202	8,374	18,057	1,915	5,902	369	52.6	85.0	5.4	14.5	1.6	2.5	0.3	1.8	0.2	39.4	34,820	3.48	56.2	3.6
	202	203	9,734	20,576	2,132	6,590	428	61.6	102.7	6.4	17.6	2.0	3.3	0.4	1.9	0.3	49.5	39,706	3.97	67.1	3.7
	203	204	8,948	18,856	1,957	5,960	351	49.7	78.3	5.2	14.5	1.8	3.0	0.3	1.9	0.3	45.7	36,274	3.63	53.0	4.0
	204	205	9,664	20,146	2,096	6,217	354	48.3	73.2	4.6	12.2	1.3	2.3	0.2	1.3	0.2	30.5	38,650	3.87	38.1	3.1
	205	206	7,881	16,276	1,643	4,876	275	38.2	59.9	4.2	13.0	1.6	2.7	0.3	1.4	0.2	39.4	31,112	3.11	34.3	3.2
	206	207	5,606	11,240	1,203	3,464	252	39.8	70.1	5.3	19.1	2.1	4.4	0.4	2.5	0.3	55.9	21,965	2.20	52.1	6.1
	207	208	3,084	6,560	714	2,239	201	35.8	72.7	6.8	28.4	4.1	9.4	1.1	6.3	0.9	113.0	13,077	1.31	47.8	10.5
	208	209	3,342	7,370	836	2,543	187	29.5	55.4	4.5	17.9	2.4	5.6	0.6	3.2	0.4	64.8	14,463	1.45	34.5	7.2
	209	210	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
KGKRC013	0	1	8,843	15,969	1,619	4,794	370	65.8	130.2	11.4	39.1	4.0	6.3	0.5	2.7	0.4	91.4	31,947	3.19	89.9	4.8
	1	2	5,454	10,122	1,035	2,986	244	43.4	84.5	7.6	24.7	2.4	3.8	0.3	1.7	0.2	57.2	20,066	2.01	65.4	4.5
	2	3	5,665	10,491	1,057	2,998	216	35.8	68.8	5.6	18.4	1.8	3.0	0.2	1.4	0.2	44.5	20,606	2.06	60.4	3.4
	3	4	6,474	13,574	1,480	4,572	359	59.9	112.0	8.9	30.3	3.1	5.0	0.4	1.9	0.3	71.1	26,752	2.68	93.1	3.9
	4	5	6,298	11,129	1,086	2,963	203	33.4	62.8	5.1	17.2	1.7	2.5	0.2	0.8	0.2	39.4	21,842	2.18	48.7	2.3

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	5	6	11,681	19,839	1,879	5,272	350	59.5	112.2	9.6	32.3	3.1	4.7	0.4	1.6	0.2	72.4	39,317	3.93	81.0	3.5
	6	7	5,407	9,950	1,020	2,951	252	44.6	89.3	7.2	24.6	2.8	5.0	0.4	2.1	0.2	66.0	19,821	1.98	41.1	5.6
	7	8	10,931	18,979	1,818	5,272	375	64.2	124.5	10.6	32.6	2.9	4.2	0.4	1.7	0.2	67.3	37,683	3.77	103.0	3.9
	8	9	6,509	12,284	1,269	3,709	274	44.6	79.0	5.7	17.5	1.7	2.5	0.2	0.9	0.1	36.8	24,233	2.42	55.4	2.1
	9	10	6,708	12,051	1,206	3,383	242	40.0	74.5	5.8	18.1	1.6	2.3	0.2	0.7	0.1	35.6	23,769	2.38	57.3	1.2
	10	11	6,228	11,277	1,116	3,149	238	40.5	76.8	6.1	18.6	1.8	2.6	0.2	1.0	0.1	40.6	22,196	2.22	52.4	1.0
	11	12	9,898	16,952	1,631	4,561	318	53.0	99.9	8.2	26.5	2.5	3.8	0.4	1.4	0.2	57.2	33,613	3.36	70.2	1.0
	12	13	8,479	16,092	1,619	4,759	332	53.5	93.0	6.6	19.1	1.8	2.5	0.2	0.7	0.1	36.8	31,495	3.15	60.8	0.6
	13	14	8,960	17,566	1,812	5,505	407	68.6	126.8	10.0	30.0	2.6	3.5	0.3	1.1	0.1	57.2	34,551	3.46	108.5	1.9
	14	15	5,934	12,051	1,317	4,152	347	60.0	124.5	11.9	37.5	3.2	4.1	0.3	1.1	0.2	69.8	24,114	2.41	152	2.5
	15	16	12,197	24,691	2,586	7,967	551	88.2	158.5	12.6	38.1	3.4	4.9	0.3	1.8	0.2	76.2	48,375	4.84	122.5	5.6
	16	17	8,948	18,365	2,000	6,299	474	74.8	134.9	10.6	31.9	2.9	4.2	0.3	1.5	0.2	64.8	36,411	3.64	122.0	4.1
	17	18	6,603	14,679	1,679	5,494	419	65.4	116.4	8.8	28.1	2.7	4.2	0.4	2.2	0.4	68.6	29,171	2.92	103.5	3.9
	18	19	12,256	23,770	2,453	7,465	511	77.5	134.9	8.9	23.2	2.0	2.6	0.2	0.8	0.1	39.4	46,744	4.67	96.4	2.2
	19	20	9,887	19,102	1,963	5,774	371	56.9	98.6	7.3	20.7	1.8	2.4	0.2	0.7	0.1	35.6	37,320	3.73	67.7	1.2
	20	21	7,623	14,679	1,522	4,502	318	50.0	89.9	6.7	19.5	1.7	2.5	0.2	0.9	0.1	36.8	28,853	2.89	61.3	1.9
	21	22	7,952	15,969	1,710	5,225	392	65.9	127.4	11.3	35.0	3.0	4.6	0.3	1.7	0.3	68.6	31,566	3.16	144.5	2.3
	22	23	5,254	10,920	1,180	3,488	257	42.6	80.9	7.3	23.0	2.0	3.0	0.3	1.1	0.1	45.7	21,306	2.13	80.9	2.6
	23	24	3,988	8,243	890	2,718	224	38.4	75.7	7.0	22.4	2.0	2.5	0.2	1.0	0.1	41.9	16,254	1.63	76.6	4.3
	24	25	4,386	9,201	1,015	3,114	248	40.3	73.0	5.8	18.0	1.7	2.5	0.2	1.1	0.2	38.1	18,145	1.81	59.6	5.4
	25	26	3,800	7,935	867	2,589	197	30.6	55.9	4.4	14.7	1.4	2.2	0.2	1.1	0.1	31.8	15,532	1.55	41.3	6.8
	26	27	2,955	5,970	602	1,895	148	23.7	44.0	4.4	14.7	1.6	2.3	0.2	1.1	0.2	36.8	11,700	1.17	42.4	7.7
	27	28	3,952	8,562	950	2,974	235	36.4	62.8	5.0	15.0	1.5	2.4	0.2	1.1	0.2	36.8	16,835	1.68	58.1	7.3
	28	29	2,639	5,552	582	1,913	161	26.4	50.0	4.8	15.3	1.6	2.5	0.2	1.3	0.2	40.6	10,991	1.10	55.4	5.9
	29	30	3,683	7,653	826	2,601	211	34.3	60.3	4.9	15.2	1.7	2.7	0.3	1.8	0.3	43.2	15,139	1.51	44.0	5.6
	30	31	3,425	7,407	807	2,508	195	31.0	56.0	4.9	15.2	1.7	2.6	0.3	1.7	0.2	40.6	14,496	1.45	49.4	11
	31	32	3,014	6,400	657	2,135	168	27.1	48.5	4.2	12.3	1.5	2.3	0.3	1.4	0.3	34.3	12,505	1.25	40.8	9.6
	32	33	3,272	7,051	770	2,461	239	43.3	87.7	7.8	27.5	3.8	7.2	0.8	4.3	0.6	100.3	14,076	1.41	39.5	7.9
	33	34	3,917	8,390	928	2,998	283	50.4	97.6	7.8	26.3	3.4	6.5	0.7	3.5	0.5	85.1	16,797	1.68	32.3	9.6
	34	35	2,991	6,461	724	2,426	271	53.7	113.8	11.2	43.5	6.6	13.7	1.6	9.1	1.2	176.5	13,304	1.33	53.5	14.1
	35	36	1,507	3,206	344	1,207	144	31.2	71.2	7.6	31.8	4.7	10.1	1.2	6.6	0.8	132.1	6,706	0.67	41.7	11.6
	36	37	2,082	4,471	481	1,662	176	34.7	74.8	7.9	26.2	3.4	6.6	0.8	5.5	0.8	94.0	9,127	0.91	96.0	7.9
	37	38	5,688	11,375	1,171	3,546	270	42.0	73.8	5.6	15.8	1.7	2.9	0.3	1.5	0.2	40.6	22,234	2.22	51.6	6.1
	38	39	3,765	8,537	945	3,056	254	40.6	69.4	4.8	13.0	1.5	2.4	0.2	1.4	0.2	31.8	16,722	1.67	34.5	9.0
	39	40	4,468	9,164	975	3,021	256	44.8	82.3	7.2	23.2	2.8	4.9	0.5	2.6	0.3	71.1	18,124	1.81	49.0	7.9
	40	41	1,695	3,783	420	1,487	175	35.6	77.6	8.2	31.5	4.7	10.6	1.4	8.2	1.3	139.7	7,880	0.79	61.3	7.3
	41	42	3,812	8,439	927	2,963	266	45.3	80.5	6.2	19.5	2.4	4.8	0.6	3.4	0.6	67.3	16,636	1.66	46.9	6.5
	42	43	8,890	16,092	1,540	4,526	320	53.5	94.7	7.5	22.7	2.4	3.4	0.3	1.7	0.2	53.3	31,608	3.16	59.6	4.5
	43	44	6,908	13,451	1,371	4,269	329	56.2	100.9	8.4	27.1	3.1	5.5	0.6	3.6	0.6	80.0	26,614	2.66	66.0	4.9
	44	45	8,010	15,109	1,474	4,386	310	50.8	91.9	7.7	24.9	2.6	3.8	0.3	1.5	0.2	59.7	29,532	2.95	72.8	3.9
	45	46	9,582	18,180	1,788	5,342	371	60.9	105.0	8.5	25.4	2.6	3.8	0.3	1.4	0.2	57.2	35,529	3.55	68.1	5.5
	46	47	4,140	8,783	962	2,986	249	41.6	71.7	5.5	16.0	1.8	2.9	0.3	1.6	0.2	40.6	17,302	1.73	45.1	5.2
	47	48	2,709	6,461	756	2,566	237	38.7	66.4	4.8	13.5	1.7	3.0	0.3	1.8	0.3	39.4	12,899	1.29	36.2	4.9
	48	49	1,912	4,349	474	1,604	143	23.5	41.7	3.0	9.3	1.2	2.5	0.3	1.4	0.2	30.5	8,594	0.86	20.6	6.8

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	49	50	2,697	5,651	586	1,907	163	27.6	51.4	4.3	17.0	2.7	5.8	0.7	4.2	0.6	77.5	11,196	1.12	32.0	8.2
	50	51	1,284	2,936	323	1,151	127	25.4	55.7	5.8	22.7	3.7	7.7	1.0	5.5	0.8	96.5	6,045	0.60	38.8	8.4
	51	52	801	1,640	175	637	89	21.1	53.0	6.3	25.9	4.1	8.6	1.0	5.6	0.8	111.8	3,579	0.36	30.2	9.2
	52	53	393	957	114	447	70	17.3	46.1	6.3	28.8	4.5	9.8	1.2	7.1	1.1	132.1	2,234	0.22	35.9	10.7
	53	54	869	2,033	233	868	106	21.8	49.5	6.0	27.9	4.7	10.1	1.2	7.7	1.0	139.7	4,378	0.44	34.0	13.6
	54	55	4,515	9,422	986	3,021	232	36.4	59.7	4.2	11.5	1.4	2.6	0.3	1.5	0.3	34.3	18,328	1.83	28.9	5.3
	55	56	2,592	5,516	597	1,983	173	28.4	48.6	3.6	10.2	1.3	2.3	0.2	1.4	0.2	30.5	10,987	1.10	25.4	7.2
	56	57	5,594	12,038	1,299	4,246	350	55.2	97.1	6.3	17.7	1.6	2.7	0.2	1.1	0.2	34.3	23,744	2.37	48.4	4.2
	57	58	3,120	6,805	744	2,461	227	37.9	69.4	4.7	14.2	1.6	3.1	0.3	1.6	0.2	34.3	13,525	1.35	32.6	6.7
	58	59	3,753	8,107	878	2,904	254	40.5	71.9	4.8	13.3	1.3	2.6	0.2	1.3	0.2	27.9	16,061	1.61	36.5	6.5
	59	60	4,421	9,459	1,016	3,301	275	42.6	74.8	5.0	14.5	1.4	2.4	0.3	1.1	0.2	34.3	18,648	1.86	40.9	7.6
	60	61	3,847	8,365	936	3,068	250	40.1	69.7	4.8	14.5	1.5	2.2	0.3	1.3	0.2	30.5	16,632	1.66	37.9	5.7
	61	62	4,867	10,527	1,174	3,884	326	52.5	94.9	6.9	20.7	2.0	3.2	0.3	1.5	0.2	44.5	21,005	2.10	59.3	5.5
	62	63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	63	64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	64	65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	65	66	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	66	67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	67	68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	68	69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	69	70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	70	71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	71	72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	72	73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	73	74	4,550	8,992	944	3,021	252	42.0	78.8	5.8	17.9	1.9	3.3	0.3	2.2	0.3	45.7	17,957	1.80	48.7	6.9
	74	75	6,063	11,891	1,232	3,861	297	47.1	90.9	7.2	21.7	2.2	3.5	0.3	1.7	0.2	50.8	23,570	2.36	68.5	4.9
	75	76	7,095	13,697	1,359	4,176	313	50.3	89.9	6.6	20.2	2.0	3.2	0.3	1.5	0.3	41.9	26,856	2.69	61.4	6.2
	76	77	5,817	11,387	1,183	3,674	283	45.4	80.1	5.5	16.3	1.6	2.6	0.2	0.8	0.1	38.1	22,535	2.25	54.0	5.1
	77	78	9,160	18,303	1,987	5,925	464	74.5	129.7	9.3	26.1	2.4	3.5	0.3	1.3	0.2	52.1	36,138	3.61	80.9	5.9
	78	79	6,966	12,591	1,205	3,534	253	39.8	71.5	5.6	19.3	1.9	3.1	0.3	1.3	0.2	44.5	24,736	2.47	50.2	8.1
	79	80	3,718	7,690	801	2,531	191	30.3	54.4	4.5	15.4	1.6	2.5	0.2	0.9	0.1	39.4	15,080	1.51	38.0	6.0
	80	81	6,767	14,986	1,667	5,552	466	73.8	129.1	8.6	23.6	2.3	3.3	0.3	1.3	0.2	47.0	29,728	2.97	77.2	6.9
	81	82	6,192	12,001	1,257	3,919	312	50.6	94.7	7.1	21.8	2.3	4.0	0.4	1.8	0.2	54.6	23,919	2.39	59.7	6.7
	82	83	8,163	17,013	1,849	5,832	448	69.8	119.9	7.6	21.1	2.1	3.2	0.3	1.3	0.2	45.7	33,575	3.36	68.2	7.4
	83	84	7,975	14,495	1,395	4,094	284	46.1	84.1	6.3	19.4	1.8	2.7	0.2	1.0	0.1	39.4	28,445	2.84	62.9	7.9
	84	85	10,074	17,873	1,691	4,864	336	54.3	98.0	7.5	24.0	2.4	3.9	0.3	1.5	0.2	55.9	35,087	3.51	63.9	5.6
	85	86	12,490	22,787	2,296	6,392	435	68.0	122.2	8.8	25.0	2.4	3.9	0.3	1.4	0.2	53.3	44,685	4.47	72.9	4.6
	86	87	16,009	29,113	2,972	8,176	562	84.6	146.4	9.7	28.0	2.6	4.0	0.3	1.5	0.2	57.2	57,167	5.72	76.4	6.6
	87	88	10,203	20,883	2,265	6,637	487	75.6	129.7	8.7	22.6	2.1	3.1	0.2	1.0	0.1	43.2	40,762	4.08	82.9	4.4
	88	89	12,549	23,524	2,441	6,975	507	79.8	138.3	9.4	25.6	2.3	3.3	0.3	1.4	0.2	53.3	46,309	4.63	82.6	4.6
	89	90	11,482	24,199	2,622	7,768	561	86.8	148.7	10.0	27.1	2.5	4.1	0.4	1.7	0.2	57.2	46,971	4.70	100.5	4.2
	90	91	8,245	17,996	2,036	6,229	479	73.3	127.9	8.4	23.8	2.3	3.5	0.3	1.4	0.2	48.3	35,274	3.53	76.4	5.9
	91	92	7,095	14,679	1,522	4,736	344	54.0	92.6	6.2	18.1	1.8	2.9	0.3	1.6	0.2	40.6	28,595	2.86	50.6	7.0
	92	93	5,805	11,203	1,114	3,359	229	34.5	59.6	4.2	12.9	1.4	2.5	0.2	1.3	0.1	34.3	21,862	2.19	34.9	7.6

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	93	94	10,227	19,593	1,951	5,634	344	49.1	81.7	5.6	17.3	1.7	3.1	0.3	1.3	0.2	40.6	37,950	3.79	47.9	6.7
	94	95	5,184	10,122	1,017	3,068	202	31.5	54.4	4.2	12.9	1.4	2.4	0.2	1.1	0.2	30.5	19,732	1.97	40.0	7.2
	95	96	3,894	7,579	753	2,280	162	24.6	44.6	3.5	11.3	1.1	2.1	0.2	1.1	0.2	27.9	14,785	1.48	30.2	8.1
	96	97	3,120	6,351	651	2,053	164	27.1	50.8	3.9	12.9	1.6	2.7	0.3	1.7	0.2	36.8	12,477	1.25	31.9	12.3
	97	98	5,489	12,075	1,287	4,047	289	45.3	76.4	4.8	14.8	1.6	2.7	0.3	1.7	0.2	39.4	23,374	2.34	39.6	6.0
	98	99	4,351	8,894	903	2,636	181	26.1	44.6	3.0	8.8	1.1	2.1	0.2	1.3	0.2	26.7	17,078	1.71	32.9	22.5
	99	100	2,991	5,773	553	1,650	109	16.9	28.1	2.0	7.0	0.8	1.6	0.2	0.8	0.1	20.3	11,155	1.12	18.8	8.5
	100	101	3,988	7,997	832	2,438	184	28.5	52.4	3.8	12.9	1.3	2.4	0.2	1.1	0.2	33.0	15,574	1.56	39.2	11.0
	101	102	1,789	3,919	418	1,406	120	19.3	35.3	2.5	8.4	0.9	1.6	0.2	1.1	0.1	24.1	7,744	0.77	34.0	11.8
	102	103	1,536	3,636	406	1,423	125	18.5	30.1	1.8	5.1	0.6	1.3	0.1	0.8	0.1	15.2	7,200	0.72	33.9	16.8
	103	104	4,515	10,085	1,121	3,628	295	46.4	82.5	5.1	15.4	1.5	2.5	0.2	1.3	0.2	35.6	19,834	1.98	46.0	10.4
	104	105	4,949	10,675	1,149	3,534	277	42.6	71.9	4.4	12.6	1.3	2.2	0.2	1.0	0.1	27.9	20,749	2.07	49.2	10.4
	105	106	5,184	11,498	1,269	4,199	315	47.7	79.8	4.7	13.8	1.4	2.5	0.2	1.3	0.2	36.8	22,653	2.27	40.3	7.0
	106	107	15,129	28,499	2,791	8,678	617	96.6	169.4	10.4	30.5	2.9	4.8	0.4	1.9	0.2	66.0	56,097	5.61	84.2	9.4
	107	108	5,031	9,360	909	2,601	187	30.5	57.6	4.5	15.8	1.8	3.1	0.3	1.7	0.2	43.2	18,247	1.82	35.7	10.3
	108	109	4,058	8,648	939	2,928	238	38.0	68.5	4.8	15.6	1.6	2.5	0.2	1.1	0.2	34.3	16,977	1.70	48.0	10.1
	109	110	3,108	6,523	698	2,181	180	29.5	54.3	3.6	11.3	1.3	2.2	0.2	1.0	0.2	26.7	12,821	1.28	35.0	10.0
	110	111	2,498	6,547	789	2,694	245	41.7	77.2	5.2	17.8	2.1	4.1	0.4	2.5	0.3	49.5	12,974	1.30	44.0	14.9
	111	112	4,281	11,338	1,341	4,502	339	52.5	88.2	5.5	16.3	1.7	2.7	0.3	1.4	0.2	36.8	22,006	2.20	49.2	6.0
	112	113	5,325	12,591	1,414	4,572	346	54.8	95.6	6.1	18.8	1.8	2.9	0.3	1.3	0.2	38.1	24,467	2.45	62.9	7.5
	113	114	4,867	12,591	1,486	5,144	417	66.8	118.1	7.7	25.0	2.7	4.4	0.4	2.2	0.3	58.4	24,792	2.48	65.5	7.9
	114	115	4,269	10,957	1,299	4,397	379	62.9	110.2	7.0	22.2	2.4	4.2	0.5	2.4	0.3	58.4	21,572	2.16	72.6	8.6
	115	116	3,507	8,451	980	3,266	296	49.7	91.3	6.5	20.4	2.4	4.5	0.5	3.3	0.4	61.0	16,739	1.67	50	8.2
	116	117	4,937	9,876	1,051	3,208	285	50.4	99.9	7.5	26.2	3.0	5.8	0.6	3.6	0.5	74.9	19,630	1.96	61.6	11.1
	117	118	4,292	8,157	816	2,438	221	43.7	96.2	8.5	34.9	4.5	9.4	1.0	5.9	0.8	116.8	16,245	1.62	58.6	12.3
	118	119	3,788	9,397	1,106	3,814	342	59.2	111.1	8.2	29.7	3.9	8.5	0.8	5.7	0.7	102.9	18,778	1.88	57.8	8.4
	119	120	2,146	4,889	527	1,831	190	36.6	78.3	7.1	28.9	4.1	10.1	1.1	6.4	0.8	116.8	9,874	0.99	52.2	8.7
	120	121	2,269	5,823	712	2,461	256	46.0	93.6	7.5	30.8	4.0	8.6	1.0	5.7	0.7	105.4	11,824	1.18	43.2	7.7
	121	122	3,941	9,618	1,149	4,036	328	50.5	84.7	5.3	17.0	1.8	2.7	0.3	1.1	0.2	40.6	19,276	1.93	45.7	5.5
	122	123	4,504	10,896	1,281	4,339	354	56.9	98.6	6.2	19.3	2.0	3.3	0.3	1.4	0.2	43.2	21,604	2.16	69.2	7.2
	123	124	1,841	4,422	503	1,744	151	23.7	42.8	2.8	9.6	1.0	1.9	0.2	1.0	0.1	25.4	8,770	0.88	27.7	2.8
	124	125	1,542	3,599	398	1,371	117	19.8	35.7	2.5	8.6	1.0	1.9	0.2	1.0	0.2	21.6	7,119	0.71	24.4	3.3
	125	126	11,904	20,576	1,855	5,190	318	49.9	88.9	6.0	18.3	1.9	2.7	0.2	0.9	0.1	39.4	40,051	4.01	50.6	6.0
	126	127	8,890	15,232	1,408	3,861	237	36.7	64.2	4.3	13.3	1.4	2.1	0.2	0.7	0.1	29.2	29,779	2.98	35.3	6.0
	127	128	3,823	8,058	860	2,788	215	35.6	57.9	3.9	11.1	1.3	1.9	0.2	0.9	0.1	25.4	15,883	1.59	32.2	6.2
	128	129	4,269	9,053	975	3,173	237	37.6	62.5	4.8	14.7	1.6	2.4	0.2	1.1	0.2	34.3	17,866	1.79	42.6	3.3
	129	130	8,948	17,320	1,788	5,249	351	56.5	92.2	6.9	22.0	2.4	3.8	0.3	1.7	0.2	52.1	33,895	3.39	57.6	5.4
	130	131	4,328	8,132	805	2,438	165	27.4	44.6	3.4	10.8	1.2	1.8	0.2	0.8	0.1	25.4	15,982	1.60	29.1	8.1
	131	132	4,023	8,599	942	3,091	221	35.3	55.8	3.8	11.3	1.3	2.3	0.2	1.0	0.2	26.7	17,014	1.70	33.3	16.6
	132	133	5,313	10,171	992	2,974	188	30.0	48.2	3.8	13.7	1.6	2.6	0.2	0.9	0.2	36.8	19,777	1.98	28.1	5.5
	133	134	7,928	15,048	1,510	4,234	250	38.8	58.3	4.1	12.6	1.5	2.3	0.2	0.8	0.1	31.8	29,121	2.91	28.3	4.7
	134	135	6,474	12,960	1,365	4,082	282	45.9	74.9	5.4	16.1	1.8	2.9	0.3	1.0	0.2	39.4	25,351	2.54	53.4	3.6
	135	136	5,113	10,097	1,020	3,184	219	36.1	59.0	4.4	14.0	1.6	2.6	0.2	1.0	0.2	36.8	19,790	1.98	43.3	6.7
	136	137	7,049	14,004	1,480	4,351	291	46.8	76.4	5.8	16.1	1.7	2.4	0.2	0.9	0.1	33.0	27,357	2.74	52.8	3.8

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	137	138	4,715	9,434	969	3,056	221	37.1	61.0	4.8	14.1	1.6	2.4	0.2	1.1	0.2	34.3	18,552	1.86	48.2	5.0
	138	139	5,102	9,987	1,019	3,138	212	34.3	56.1	4.2	12.9	1.4	2.2	0.2	0.9	0.1	29.2	19,598	1.96	41.6	4.8
	139	140	6,814	13,512	1,389	4,059	250	39.1	62.1	4.1	11.7	1.3	1.8	0.2	0.9	0.1	27.9	26,175	2.62	36.6	9.7
	140	141	3,964	7,530	753	2,274	145	22.7	35.5	2.5	7.6	0.9	1.5	0.2	0.8	0.1	19.1	14,757	1.48	21.3	6.7
	141	142	4,820	9,016	890	2,683	176	28.5	47.5	4.0	12.9	1.7	2.5	0.2	0.9	0.2	33.0	17,717	1.77	30.7	5.5
	142	143	5,923	11,350	1,118	3,383	220	35.0	54.2	3.7	11.9	1.4	2.3	0.2	1.0	0.1	31.8	22,135	2.21	28.8	6.4
	143	144	5,418	11,277	1,194	3,791	274	44.5	74.0	5.4	17.2	2.0	3.1	0.3	1.7	0.3	44.5	22,146	2.21	41.4	3.7
	144	145	4,902	10,613	1,159	3,837	327	60.3	109.3	8.9	27.1	2.6	3.7	0.3	1.3	0.2	54.6	21,107	2.11	105.0	2.1
	145	146	8,948	20,330	2,332	7,640	488	76.1	113.7	7.2	20.7	2.1	3.1	0.2	1.0	0.2	41.9	40,004	4.00	59.7	4.0
	146	147	14,953	33,535	3,745	12,306	742	108.6	153.3	9.1	24.7	2.5	3.1	0.3	0.9	0.2	47.0	65,631	6.56	66.6	6.9
	147	148	14,132	28,376	3,008	9,541	646	110.4	183.8	12.6	35.4	3.6	5.4	0.4	2.2	0.3	76.2	56,134	5.61	145.0	5.0
	148	149	8,726	17,996	1,939	5,902	430	72.1	119.3	8.3	22.7	2.4	3.8	0.4	2.2	0.3	52.1	35,277	3.53	84.4	4.9
	149	150	7,436	15,232	1,613	4,852	320	50.1	78.3	4.9	13.2	1.4	2.4	0.2	1.0	0.1	29.2	29,634	2.96	34.2	4.1
	150	151	7,049	13,942	1,480	4,362	306	50.8	83.2	5.6	15.6	1.8	2.9	0.3	1.3	0.2	35.6	27,337	2.73	42.0	5.2
	151	152	6,591	12,653	1,263	3,849	260	42.5	69.2	5.0	13.8	1.5	2.4	0.2	1.0	0.1	31.8	24,783	2.48	35.1	7.5
	152	153	4,867	9,717	1,003	3,196	233	38.8	63.7	4.6	12.6	1.4	2.4	0.2	1.1	0.2	30.5	19,171	1.92	37.4	6.6
	153	154	7,095	14,127	1,486	4,432	303	50.0	78.3	5.0	13.7	1.6	2.7	0.2	1.1	0.2	33.0	27,629	2.76	40.6	7.9
	154	155	7,482	15,846	1,661	5,086	357	56.7	86.2	5.9	15.8	1.8	2.9	0.3	1.5	0.2	38.1	30,642	3.06	45.4	5.8
	155	156	5,923	12,591	1,335	4,246	318	54.0	85.2	5.9	17.0	1.9	3.4	0.3	1.5	0.3	44.5	24,626	2.46	46.6	4.0
	156	157	5,700	12,259	1,359	4,211	308	50.3	79.3	5.3	14.9	1.6	2.5	0.2	1.3	0.2	33.0	24,026	2.40	41.4	5.5
	157	158	8,667	17,136	1,734	5,086	320	50.1	77.7	5.0	13.8	1.5	2.5	0.2	0.9	0.2	31.8	33,126	3.31	34.9	4.7
	158	159	6,697	13,328	1,359	4,187	288	47.0	73.3	4.7	13.1	1.4	2.4	0.2	1.1	0.1	30.5	26,033	2.60	37.6	4.4
	159	160	4,609	9,532	973	3,161	238	40.8	69.4	5.6	15.8	1.8	3.1	0.3	1.9	0.3	41.9	18,694	1.87	51.7	6.9
	160	161	4,339	8,955	923	3,056	250	44.8	78.4	6.1	21.4	3.0	6.1	0.8	5.4	0.8	82.5	17,773	1.78	37.0	9.3
	161	162	4,609	9,618	983	3,219	255	44.1	78.4	5.8	17.7	2.2	4.4	0.5	2.9	0.4	55.9	18,897	1.89	38.6	6.9
KGKRC014	0	1	8,339	18,180	1,981	6,415	458	76.2	122.8	8.1	22.7	2.4	3.7	0.4	1.8	0.3	52.1	35,664	3.57	67.7	5.5
	1	2	5,841	13,021	1,462	4,794	375	63.9	106.6	7.4	19.5	2.0	3.1	0.3	1.4	0.2	41.9	25,738	2.57	74.3	5.1
	2	3	12,490	27,025	2,863	9,576	673	113.1	176.4	11.4	27.3	2.6	3.9	0.3	1.5	0.3	53.3	53,017	5.30	98.1	4.2
	3	4	8,679	19,102	2,084	7,162	511	84.8	130.2	8.0	20.4	2.1	3.1	0.3	1.5	0.2	43.2	37,831	3.78	68.1	6.9
	4	5	5,266	11,117	1,166	3,837	321	61.0	113.1	9.7	33.7	4.7	9.8	1.0	5.9	0.7	118.1	22,065	2.21	57.7	11.6
	5	6	11,693	25,182	2,706	8,981	652	107.3	170.0	10.5	28.0	2.8	4.0	0.4	1.7	0.3	53.3	49,593	4.96	101.5	5.4
	6	7	9,594	20,391	2,175	7,103	520	86.7	146.4	10.0	27.8	2.7	4.1	0.3	1.8	0.3	57.2	40,120	4.01	101	3.1
	7	8	4,480	9,078	923	2,951	219	37.2	64.6	4.8	13.3	1.5	2.4	0.2	1.3	0.2	33.0	17,810	1.78	43.1	7.6
	8	9	5,583	11,363	1,148	3,686	277	47.2	83.5	6.5	19.7	1.9	2.9	0.3	1.6	0.2	44.5	22,264	2.23	74.8	8.9
	9	10	6,087	12,161	1,232	3,977	307	54.2	96.2	8.1	25.9	2.7	4.6	0.4	2.2	0.3	63.5	24,023	2.40	69.1	8.8
	10	11	7,389	13,574	1,275	3,756	261	46.2	82.3	7.1	24.7	2.8	4.5	0.4	2.1	0.3	64.8	26,489	2.65	47.1	3.9
	11	12	5,348	11,117	1,127	3,604	255	41.9	67.1	4.4	11.9	1.3	2.3	0.2	1.0	0.2	29.2	21,611	2.16	38.7	7.6
	12	13	4,961	9,213	867	2,613	164	27.0	44.0	3.4	9.8	1.2	2.1	0.2	1.4	0.2	26.7	17,933	1.79	32.7	15.1
	13	14	5,254	9,115	823	2,403	157	26.6	44.7	3.5	9.9	1.1	1.7	0.1	0.7	0.1	22.9	17,863	1.79	27.7	5.3
	14	15	9,476	16,338	1,516	4,234	286	52.2	94.1	7.7	27.2	3.0	5.0	0.5	2.4	0.3	72.4	32,115	3.21	59.1	4.5
	15	16	11,904	20,576	1,933	5,330	346	58.6	101.3	8.0	25.0	2.9	4.5	0.3	1.7	0.2	62.2	40,353	4.04	50.3	7.5
	16	17	42,690	75,547	6,524	18,312	1,078	185.3	308.9	21.6	63.1	6.7	10.3	0.8	3.3	0.4	142.2	144,894	14.49	139.0	16.6
	17	18	8,597	14,557	1,323	3,651	229	39.0	65.6	4.9	15.2	1.8	3.3	0.3	1.7	0.2	41.9	28,530	2.85	43.7	13.2
	18	19	7,084	11,584	991	2,788	167	29.3	49.6	3.6	10.6	1.4	2.4	0.2	1.5	0.2	30.5	22,742	2.27	33.1	10.1

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	19	20	36,709	59,946	5,195	14,872	818	137.8	228.2	17.1	50.8	5.9	10.1	0.9	4.8	0.7	132.1	118,127	11.81	112.5	18.6
	20	21	18,061	30,464	2,731	7,885	460	82.8	145.8	12.7	44.7	5.4	9.3	0.9	5.0	0.7	128.3	60,037	6.00	124.0	29.1
	21	22	15,129	25,305	2,277	6,532	392	68.6	117.6	9.4	30.8	3.6	6.6	0.6	3.6	0.5	85.1	49,962	5.00	81.8	25.5
	22	23	13,311	23,831	2,169	5,809	351	60.7	107.7	8.2	26.2	3.4	7.0	0.7	3.8	0.5	74.9	45,764	4.58	65.0	30.5
	23	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25	26	8,866	17,136	1,649	4,724	353	71.3	148.1	14.6	56.5	7.6	16.5	1.6	8.3	1.1	201.9	33,256	3.33	156.0	38.0
	26	27	21,697	39,923	3,649	10,673	613	108.8	194.8	14.6	43.4	4.9	9.2	0.9	4.2	0.6	106.7	77,042	7.70	125.5	36.3
	27	28	11,071	22,480	2,211	6,625	416	71.1	121.0	8.2	24.5	2.8	5.3	0.5	2.7	0.3	64.8	43,105	4.31	77.8	22.2
	28	29	9,922	20,146	1,933	5,494	339	57.6	98.4	7.2	22.3	2.7	5.5	0.6	2.7	0.3	63.5	38,094	3.81	51.3	16.9
	29	30	12,373	22,787	2,042	5,610	340	61.1	106.9	8.4	27.1	3.1	5.8	0.5	2.7	0.3	73.7	43,441	4.34	60.1	19.4
	30	31	8,808	17,382	1,679	4,771	290	49.0	83.0	5.7	16.5	2.0	4.0	0.4	2.2	0.3	44.5	33,137	3.31	39.1	16.3
	31	32	7,389	14,741	1,444	4,117	260	44.0	74.2	5.1	15.7	1.9	3.9	0.4	2.4	0.3	44.5	28,143	2.81	37.9	16.8
	32	33	17,240	31,079	2,791	8,153	448	78.2	134.3	10.0	32.7	3.9	7.6	0.7	3.6	0.5	91.4	60,073	6.01	60.5	14.0
	33	34	11,388	21,988	2,096	5,960	355	59.6	101.9	7.7	22.6	2.7	5.3	0.5	2.9	0.4	63.5	42,055	4.21	47.6	17.4
	34	35	6,403	12,837	1,263	3,639	233	40.1	70.1	5.0	14.9	1.8	3.4	0.3	1.8	0.3	40.6	24,553	2.46	36.2	16.4
	35	36	4,504	9,115	860	2,613	179	32.8	62.6	5.2	19.9	2.7	6.3	0.6	3.2	0.4	72.4	17,476	1.75	34.3	13.4
	36	37	4,562	8,943	788	2,274	135	21.8	36.4	2.7	7.8	0.9	2.1	0.2	0.9	0.1	21.6	16,796	1.68	15.2	8.8
	37	38	3,589	7,334	666	1,977	119	21.1	36.9	2.6	8.2	0.9	2.1	0.2	1.0	0.2	24.1	13,782	1.38	15.3	8.6
	38	39	3,284	7,530	765	2,496	186	35.3	64.0	5.3	16.5	1.9	3.7	0.4	2.2	0.3	45.7	14,436	1.44	40.2	6.2
	39	40	3,155	6,842	672	2,140	144	25.7	45.8	3.4	10.9	1.3	2.7	0.3	1.5	0.2	31.8	13,076	1.31	19.9	6.0
	40	41	3,694	8,206	834	2,729	195	34.2	59.0	4.2	12.4	1.5	3.1	0.3	1.7	0.2	36.8	15,811	1.58	25.6	6.0
	41	42	2,428	5,712	603	2,024	154	26.6	45.5	3.1	9.2	1.1	2.2	0.2	1.3	0.2	25.4	11,035	1.10	22.3	10.4
	42	43	3,307	7,825	823	2,776	208	35.8	61.4	4.5	13.2	1.4	2.5	0.3	1.5	0.2	31.8	15,091	1.51	40.1	7.8
	43	44	3,225	7,420	761	2,484	175	29.2	48.3	3.2	9.0	1.1	2.1	0.2	1.1	0.2	22.9	14,182	1.42	19.8	8.7
	44	45	2,756	6,167	625	2,047	152	26.4	48.0	3.9	13.2	1.9	4.0	0.4	2.6	0.3	49.5	11,897	1.19	22.9	5.5
	45	46	1,109	2,764	273	921	80	15.5	29.9	2.5	9.8	1.4	3.3	0.4	2.6	0.4	39.4	5,253	0.53	18.4	3.2
	46	47	1,111	2,813	289	988	90	19.0	38.8	3.6	14.2	2.1	4.6	0.5	3.2	0.4	54.6	5,431	0.54	19.7	3.7
	47	48	1,163	2,936	301	1,030	95	20.0	42.2	4.1	16.3	2.4	5.4	0.6	3.6	0.4	67.3	5,687	0.57	20.8	5.4
	48	49	460	1,117	121	430	47	11.5	27.0	3.0	13.5	2.1	5.4	0.6	3.6	0.4	62.2	2,305	0.23	12.5	3.6
	49	50	2,093	4,815	515	1,773	158	30.2	57.4	4.6	16.6	2.5	5.8	0.6	3.6	0.5	66.0	9,542	0.95	30.7	5.3
	50	51	998	2,592	273	982	101	23.0	51.5	5.4	22.7	3.5	8.2	0.9	5.4	0.7	97.8	5,166	0.52	26.8	7.1
	51	52	354	776	83	281	29	7.2	17.6	2.2	11.3	1.9	5.6	0.7	4.6	0.7	61.0	1,636	0.16	8.2	1.0
	52	53	2,557	5,823	611	2,100	201	41.7	86.3	8.2	32.5	4.4	10.1	1.1	5.9	0.8	120.6	11,603	1.16	61.0	6.2
	53	54	5,172	11,363	1,311	4,619	455	89.0	170.6	14.6	52.6	7.5	14.9	1.8	9.9	1.4	198.1	23,480	2.35	109.5	10.8
	54	55	3,518	7,788	889	3,184	305	55.1	102.2	8.2	27.4	3.7	7.0	0.7	3.6	0.5	91.4	15,985	1.60	56.5	8.3
	55	56	3,225	7,100	811	2,858	276	52.8	99.7	8.2	29.3	4.1	8.1	1.0	5.4	0.8	105.4	14,584	1.46	65.9	7.6
	56	57	2,533	5,454	616	2,170	222	45.2	91.1	8.5	34.9	5.0	11.1	1.3	7.0	1.0	134.6	11,335	1.13	68.6	8.4
	57	58	3,319	7,395	841	2,939	267	48.5	87.3	6.6	22.6	3.1	6.3	0.7	3.9	0.6	76.2	15,017	1.50	53.0	7.6
	58	59	4,246	9,066	999	3,359	275	47.6	86.8	6.6	23.4	3.2	6.4	0.8	4.1	0.6	81.3	18,205	1.82	40.9	8.4
	59	60	5,090	11,080	1,226	4,082	326	55.0	93.9	6.5	18.9	2.3	3.8	0.4	2.3	0.3	50.8	22,039	2.20	50.3	7.5
	60	61	3,131	6,904	793	2,776	245	43.0	80.1	6.2	18.5	2.3	3.9	0.5	2.6	0.4	53.3	14,059	1.41	56.0	7.8
	61	62	3,073	6,793	782	2,729	225	38.6	65.7	4.5	13.3	1.6	2.9	0.3	1.8	0.3	35.6	13,766	1.38	37.5	7.8
	62	63	4,351	9,950	1,143	3,954	324	53.3	89.4	6.2	17.2	1.8	2.7	0.3	1.5	0.2	36.8	19,931	1.99	57.6	6.2

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	63	64	3,202	6,990	799	2,823	259	46.2	85.9	6.6	20.5	2.4	4.6	0.6	3.3	0.5	61.0	14,303	1.43	61.5	9.1
	64	65	2,140	4,987	581	2,146	200	35.8	68.0	5.3	17.0	2.1	4.2	0.5	3.3	0.4	52.1	10,244	1.02	55.2	10.0
	65	66	2,322	5,294	616	2,251	204	37.4	69.3	4.8	15.5	1.7	3.1	0.4	2.2	0.3	38.1	10,861	1.09	57.0	9.4
	66	67	3,518	7,849	890	3,126	253	43.1	75.7	5.7	17.9	2.1	4.0	0.5	2.7	0.4	50.8	15,840	1.58	43.0	7.7
	67	68	6,345	13,942	1,661	5,225	383	61.7	100.4	6.7	20.7	2.2	4.4	0.4	2.4	0.3	50.8	27,807	2.78	48.8	8.9
	68	69	8,151	17,566	2,054	6,800	506	85.0	146.4	10.5	33.2	3.4	5.7	0.5	2.7	0.4	80.0	35,444	3.54	120.5	8.7
	69	70	2,697	6,326	732	2,636	219	35.2	60.1	4.3	12.7	1.4	2.3	0.2	1.4	0.2	33.0	12,762	1.28	42.6	4.4
	70	71	1,554	3,734	426	1,487	126	20.3	35.7	2.6	8.2	1.0	2.1	0.2	1.4	0.2	26.7	7,426	0.74	22.4	4.6
	71	72	2,522	5,749	657	2,245	184	30.9	51.8	3.7	11.1	1.4	2.4	0.3	1.8	0.2	31.8	11,492	1.15	33.9	4.9
	72	73	521	1,376	155	559	46	7.1	12.5	0.9	3.0	0.4	0.8	0.1	0.5	0.1	10.2	2,692	0.27	10.4	1.9
	73	74	4,046	9,102	1,039	3,674	295	48.1	83.3	6.1	21.1	2.3	4.1	0.5	3.2	0.3	61.0	18,386	1.84	66.5	6.7
	74	75	8,702	19,163	2,308	7,815	561	90.6	158.5	11.7	35.4	3.6	5.6	0.6	3.3	0.5	82.5	38,941	3.89	140.5	12.9
	75	76	6,568	14,495	1,716	5,470	435	74.3	130.2	9.9	29.8	3.1	4.8	0.5	2.6	0.4	66.0	29,005	2.90	112.5	15.2
	76	77	6,450	13,574	1,619	5,074	395	66.5	111.3	7.4	22.2	2.3	3.7	0.4	2.2	0.3	47.0	27,376	2.74	79.2	6.5
	77	78	5,676	12,960	1,625	5,424	494	84.6	142.4	8.9	24.9	2.6	4.0	0.4	2.4	0.3	52.1	26,501	2.65	87.8	8.1
	78	79	5,864	13,820	1,734	6,135	555	95.4	166.6	11.5	34.4	3.5	5.7	0.5	3.4	0.4	77.5	28,507	2.85	135.5	8.3
	79	80	5,160	12,087	1,540	5,400	528	92.1	163.1	10.9	32.7	3.3	5.3	0.5	2.7	0.5	68.6	25,096	2.51	128.0	9.3
	80	81	5,923	14,679	1,903	7,092	624	109.8	185.0	11.8	35.6	3.3	5.5	0.5	2.6	0.3	67.3	30,642	3.06	128.0	8.9
	81	82	8,104	19,224	2,416	8,550	712	122.7	210.9	14.1	42.0	4.3	6.6	0.7	3.6	0.4	91.4	39,503	3.95	145.5	10.8
	82	83	13,370	28,990	3,383	11,104	844	145.3	255.9	18.4	56.4	6.1	9.8	1.0	4.8	0.6	149.9	58,340	5.83	195.0	11.5
	83	84	9,218	17,935	2,181	7,080	555	91.7	172.3	11.8	34.3	3.6	6.5	0.6	3.3	0.5	82.5	37,376	3.74	104.0	8.8
	84	85	5,360	10,355	1,257	4,117	346	63.5	134.3	12.7	52.3	7.6	18.0	2.3	13.4	1.8	233.7	21,974	2.20	104.0	6.1
	85	86	12,432	24,199	2,972	9,016	699	122.2	237.4	19.1	67.0	8.7	18.2	2.0	12.5	1.5	247.6	50,055	5.01	177.5	8.5
	86	87	4,421	8,562	1,011	3,231	262	47.5	100.3	9.2	36.4	5.3	12.0	1.4	8.5	1.1	146.0	17,855	1.79	69.3	6.4
	87	88	6,099	12,284	1,516	4,969	407	68.6	131.4	9.2	27.3	2.9	5.0	0.5	3.8	0.4	72.4	25,596	2.56	91.4	7.4
	88	89	11,189	23,585	3,069	9,425	709	116.4	217.8	15.1	46.0	5.1	9.5	0.9	4.9	0.6	134.6	48,527	4.85	141.5	7.7
	89	90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	90	91	7,658	15,478	1,897	6,077	441	72.6	133.7	9.2	26.5	2.8	5.7	0.6	3.0	0.4	76.2	31,881	3.19	95.3	6.8
	91	92	4,246	8,390	1,034	3,359	261	43.5	80.9	5.7	16.8	1.7	2.7	0.3	1.6	0.2	38.1	17,482	1.75	62.4	5.2
	92	93	8,761	17,136	2,078	6,509	448	69.9	118.7	7.4	19.6	2.0	3.3	0.4	2.1	0.2	47.0	35,202	3.52	70.9	5.0
	93	94	5,477	11,006	1,347	4,316	327	55.2	106.7	7.6	21.0	2.1	3.3	0.3	2.2	0.3	50.8	22,723	2.27	77.1	7.7
	94	95	2,568	5,589	672	2,181	175	30.7	61.6	4.9	13.9	1.5	2.3	0.2	1.5	0.2	31.8	11,334	1.13	57.6	6.3
	95	96	2,686	5,835	714	2,315	177	29.6	58.8	4.7	16.5	2.3	5.3	0.6	3.4	0.4	58.4	11,907	1.19	33.7	6.2
	96	97	826	1,701	217	715	60	11.6	24.9	2.3	10.0	1.4	3.7	0.4	2.5	0.4	41.9	3,618	0.36	14.8	1.6
	97	98	1,419	3,292	411	1,394	124	22.6	45.8	3.6	11.8	1.4	3.2	0.3	1.8	0.3	36.8	6,767	0.68	34.5	3.1
	98	99	2,932	6,240	768	2,566	213	37.3	75.8	6.0	20.2	2.5	4.8	0.6	3.5	0.4	59.7	12,930	1.29	53.0	5.6
	99	100	3,178	6,621	811	2,659	205	32.2	57.3	3.7	11.1	1.1	2.3	0.2	1.3	0.2	26.7	13,610	1.36	33.3	3.9
	100	101	2,768	6,167	766	2,543	195	31.7	56.8	3.8	11.4	1.1	2.1	0.2	1.4	0.2	26.7	12,573	1.26	40.3	4.1
	101	102	4,867	9,729	1,214	3,989	306	47.9	88.1	6.3	18.9	2.1	3.7	0.4	2.4	0.4	49.5	20,325	2.03	58.3	4.0
	102	103	5,477	10,564	1,287	4,152	317	51.8	93.8	6.9	18.7	2.0	3.2	0.3	1.7	0.2	40.6	22,016	2.20	69.7	5.3
	103	104	4,128	8,071	976	3,219	248	41.6	77.0	5.5	15.7	1.6	2.6	0.2	1.5	0.2	33.0	16,821	1.68	61.1	3.8
	104	105	5,125	10,036	1,226	3,966	289	45.5	85.2	6.1	18.1	1.8	3.2	0.3	1.7	0.3	40.6	20,845	2.08	58.5	4.9
	105	106	4,949	9,422	1,138	3,628	266	41.6	71.9	4.9	14.9	1.5	2.4	0.2	1.1	0.2	31.8	19,573	1.96	52.0	4.5
	106	107	4,949	9,434	1,127	3,604	256	38.8	70.4	4.8	12.7	1.4	1.9	0.2	1.1	0.1	26.7	19,529	1.95	48.3	6.4

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	107	108	4,058	8,329	1,044	3,464	284	47.4	87.8	6.5	20.4	2.6	5.3	0.6	3.3	0.4	63.5	17,416	1.74	63.4	5.9
	108	109	3,694	7,272	878	2,869	223	40.2	83.0	6.9	21.4	2.3	4.7	0.5	3.6	0.6	55.9	15,156	1.52	73.2	6.3
	109	110	4,410	9,188	1,154	3,849	308	51.1	98.1	7.1	20.2	1.9	3.1	0.3	1.9	0.3	41.9	19,135	1.91	77.4	5.8
	110	111	4,621	10,085	1,124	3,814	303	50.6	86.0	6.1	17.7	2.0	3.3	0.4	1.7	0.3	44.5	20,159	2.02	56.2	4.5
	111	112	5,067	10,884	1,220	4,059	318	53.6	91.1	6.5	20.2	2.5	4.6	0.5	2.9	0.5	59.7	21,789	2.18	55.5	5.7
	112	113	2,803	6,142	686	2,368	206	35.7	69.0	6.5	27.9	4.6	10.5	1.3	6.8	0.9	129.5	12,498	1.25	48.6	7.6
	113	114	2,393	5,331	600	2,076	176	30.1	55.9	4.7	18.1	2.6	6.1	0.8	4.4	0.7	76.2	10,776	1.08	43.6	9.1
	114	115	3,671	7,899	814	2,834	221	36.5	59.7	4.2	12.2	1.6	2.9	0.3	1.7	0.3	39.4	15,598	1.56	32.4	7.2
	115	116	4,175	9,066	941	3,266	255	41.6	66.9	4.4	11.8	1.4	2.1	0.3	1.3	0.2	31.8	17,864	1.79	38.5	7.2
	116	117	5,817	12,530	1,414	4,479	354	59.6	94.9	6.1	15.7	1.7	2.2	0.2	0.9	0.1	34.3	24,809	2.48	55.3	5.1
	117	118	4,152	9,016	940	3,301	270	46.2	75.0	5.5	15.3	1.6	2.2	0.2	0.9	0.2	31.8	17,858	1.79	54.0	3.6
	118	119	3,847	8,599	919	3,278	274	48.3	78.3	5.6	15.2	1.6	2.3	0.2	0.9	0.1	34.3	17,103	1.71	60.4	3.6
	119	120	3,237	7,198	770	2,776	232	38.3	64.0	4.6	12.6	1.4	2.1	0.2	0.9	0.1	29.2	14,366	1.44	45.6	5.2
	120	121	3,190	7,100	767	2,858	284	51.4	85.4	6.3	18.4	1.8	2.7	0.3	1.0	0.1	41.9	14,409	1.44	68.5	4.8
	121	122	2,287	5,061	542	2,024	196	34.7	60.1	5.3	17.7	1.9	2.5	0.2	1.0	0.1	39.4	10,273	1.03	53.3	2.6
	122	123	3,272	7,026	737	2,589	199	32.5	54.4	4.0	11.9	1.3	2.1	0.2	0.9	0.2	30.5	13,962	1.40	39.5	4.0
	123	124	3,601	7,935	825	2,881	230	39.7	62.7	4.4	12.7	1.3	2.1	0.2	1.0	0.1	29.2	15,625	1.56	42.8	4.7
	124	125	3,284	7,186	744	2,589	208	35.2	61.9	5.1	14.7	1.6	2.4	0.2	1.1	0.2	36.8	14,170	1.42	48.8	3.6
	125	126	3,425	7,432	777	2,764	239	41.0	68.7	5.0	14.2	1.6	2.4	0.2	1.0	0.2	36.8	14,808	1.48	54.5	3.8
	126	127	4,046	9,336	986	3,511	290	47.6	80.6	5.8	17.5	2.0	3.5	0.4	2.1	0.3	48.3	18,377	1.84	56.2	5.6
	127	128	5,090	11,080	1,238	3,954	308	53.2	87.0	6.3	17.6	1.9	2.9	0.3	1.4	0.2	44.5	21,886	2.19	63.8	4.6
	128	129	5,207	11,215	1,238	4,012	302	49.2	77.5	5.2	14.7	1.6	2.4	0.2	0.9	0.1	34.3	22,161	2.22	50.0	2.9
	129	130	6,040	12,837	1,402	4,339	311	49.6	75.7	4.8	12.9	1.4	2.1	0.2	1.0	0.2	30.5	25,106	2.51	39.1	3.2
	130	131	6,321	13,205	1,383	4,549	330	52.7	87.3	6.2	16.9	1.8	2.4	0.2	1.1	0.2	35.6	25,994	2.60	62.6	4.5
	131	132	3,718	7,641	822	2,706	208	32.9	55.4	4.0	11.7	1.2	1.9	0.2	1.0	0.1	26.7	15,229	1.52	35.8	3.8
	132	133	4,574	9,655	1,057	3,511	271	45.4	74.7	5.3	15.3	1.7	2.7	0.2	1.1	0.2	36.8	19,252	1.93	49.8	5.5
	133	134	3,436	7,579	837	2,834	219	35.1	57.6	3.7	10.9	1.3	2.2	0.2	1.0	0.2	27.9	15,046	1.50	33.2	7.7
	134	135	2,815	5,884	631	2,111	167	27.9	48.2	3.7	11.4	1.4	2.6	0.3	1.3	0.1	31.8	11,736	1.17	30.4	5.4
	135	136	4,715	10,196	1,120	3,744	299	51.2	87.5	6.2	18.3	2.1	3.4	0.3	1.6	0.2	45.7	20,290	2.03	43.9	6.1
	136	137	3,800	8,316	938	3,243	285	51.2	88.9	6.4	20.0	2.6	4.8	0.5	3.1	0.4	62.2	16,822	1.68	61.9	8.8
	137	138	3,131	7,076	808	2,776	214	34.4	54.6	3.6	10.3	1.2	2.5	0.3	1.6	0.2	29.2	14,143	1.41	38.0	4.1
	138	139	3,905	8,758	1,008	3,488	289	45.9	75.6	4.9	13.0	1.6	2.6	0.3	1.3	0.2	34.3	17,627	1.76	44.4	5.4
	139	140	4,621	10,208	1,135	3,919	344	59.3	95.0	5.9	16.3	1.8	2.9	0.3	1.4	0.1	41.9	20,452	2.05	58.7	5.1
	140	141	4,468	9,754	1,025	3,674	306	50.5	79.3	5.1	14.9	1.7	3.0	0.3	1.3	0.2	39.4	19,422	1.94	41.0	5.0
	141	142	3,495	7,899	852	3,114	276	46.8	75.5	5.2	15.4	1.9	3.1	0.4	1.8	0.3	44.5	15,830	1.58	51.1	6.3
	142	143	3,882	8,574	924	3,324	288	47.8	77.6	5.2	15.0	1.8	3.0	0.3	1.9	0.3	44.5	17,190	1.72	49.7	6.2
	143	144	4,152	9,176	993	3,604	318	51.6	85.6	5.7	17.6	2.0	3.4	0.4	2.1	0.4	49.5	18,461	1.85	54.2	5.8
	144	145	3,577	7,825	889	3,079	254	42.6	71.1	4.9	15.2	2.0	4.2	0.5	2.9	0.3	49.5	15,818	1.58	36.6	6.2
	145	146	3,976	8,685	963	3,266	256	40.8	62.0	3.8	10.8	1.2	2.1	0.2	1.4	0.2	26.7	17,295	1.73	33.4	5.3
	146	147	5,184	11,117	1,244	4,187	325	52.5	83.5	5.3	14.0	1.6	2.6	0.3	1.6	0.3	34.3	22,253	2.23	46.7	5.7
	147	148	4,234	9,066	1,009	3,383	269	45.2	71.6	4.4	13.1	1.5	2.9	0.3	1.8	0.2	34.3	18,135	1.81	40.7	5.7
	148	149	3,190	6,990	796	2,799	260	46.1	78.7	5.3	14.0	1.5	2.9	0.3	1.6	0.3	34.3	14,220	1.42	58.2	4.9
	149	150	4,515	9,876	1,087	3,709	296	46.4	79.1	5.0	14.7	1.9	3.7	0.4	2.3	0.3	43.2	19,681	1.97	49.5	6.6
	150	151	5,325	11,719	1,281	4,397	387	66.5	119.9	8.4	25.1	3.1	5.7	0.6	3.1	0.5	72.4	23,414	2.34	80.7	6.8

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	151	152	3,483	7,444	818	2,846	275	49.3	90.9	7.2	22.0	2.4	4.6	0.5	2.9	0.4	62.2	15,109	1.51	77.6	5.5
	152	153	3,307	7,886	927	3,476	363	63.5	114.8	7.9	23.1	2.7	4.8	0.5	2.9	0.5	64.8	16,244	1.62	84.4	7.1
	153	154	3,143	7,149	809	2,881	279	50.6	97.3	8.3	28.2	3.6	8.0	0.9	5.5	0.7	97.8	14,563	1.46	75.4	5.7
	154	155	4,140	8,746	941	3,173	268	44.5	83.6	6.4	21.5	2.7	5.6	0.6	3.5	0.5	68.6	17,505	1.75	66.9	4.5
	155	156	3,213	6,891	735	2,449	188	30.8	52.6	3.7	10.3	1.2	1.9	0.2	1.1	0.2	26.7	13,606	1.36	31.1	3.3
	156	157	2,815	6,167	685	2,379	208	35.7	63.9	4.3	13.8	1.9	3.4	0.4	2.1	0.3	41.9	12,421	1.24	30.6	4.4
	157	158	4,140	8,685	922	3,033	232	37.6	67.8	4.8	14.6	1.7	3.3	0.4	2.1	0.2	39.4	17,183	1.72	46.7	5.4
	158	159	3,296	6,572	684	2,234	164	27.1	47.1	3.7	13.2	1.7	4.0	0.5	2.6	0.4	43.2	13,093	1.31	23.9	5.2
	159	160	4,023	7,935	799	2,554	191	31.8	60.2	5.1	18.4	2.8	6.1	0.6	4.0	0.7	69.8	15,701	1.57	32.2	4.2
	160	161	3,683	6,805	690	2,292	186	33.9	63.3	5.7	24.0	3.5	7.3	0.8	4.3	0.6	100.3	13,900	1.39	43.9	4.2
	161	162	3,964	7,334	745	2,496	226	42.6	82.1	8.4	37.2	6.4	14.8	1.7	8.2	1.1	186.7	15,154	1.52	41.9	5.3
	162	163	3,671	7,186	771	2,753	270	51.1	99.0	8.4	29.5	3.5	7.2	0.8	4.6	0.6	101.6	14,957	1.50	78.2	4.9
	163	164	2,838	6,265	692	2,566	273	49.6	94.9	7.5	25.7	3.2	6.8	0.8	4.9	0.7	88.9	12,917	1.29	73.2	4.3
	164	165	2,093	4,864	542	2,030	227	43.5	82.9	6.8	26.5	3.6	8.1	0.9	5.9	0.8	110.5	10,046	1.00	51.2	4.5
	165	166	3,155	6,351	681	2,449	256	47.0	87.7	7.3	28.4	4.4	10.9	1.3	7.6	1.0	138.4	13,227	1.32	72.6	5.7
	166	167	2,322	5,270	609	2,356	281	54.4	103.3	9.9	39.9	6.1	13.2	1.5	9.1	1.3	174.0	11,250	1.13	93.8	5.2
	167	168	1,994	4,643	539	2,070	240	48.2	92.0	7.1	24.1	3.0	6.6	0.7	4.4	0.7	86.4	9,760	0.98	49.2	2.9
	168	169	3,401	7,100	801	2,998	311	58.8	108.3	8.8	30.3	4.0	8.4	1.0	5.0	0.7	106.7	14,943	1.49	58.5	5.5
	169	170	5,583	10,269	1,062	3,476	247	41.5	69.2	5.0	17.2	2.5	5.2	0.6	2.6	0.4	57.2	20,838	2.08	33.1	6.6
	170	171	5,782	10,073	1,000	3,219	226	37.3	64.4	4.7	14.9	1.9	3.5	0.4	2.2	0.3	47.0	20,477	2.05	34.0	4.3
	171	172	4,187	7,800	843	2,741	219	39.8	72.0	5.5	17.5	2.0	3.4	0.3	1.8	0.2	45.7	15,978	1.60	37.1	5.3
	172	173	3,448	6,879	806	2,823	293	56.7	106.2	8.4	27.2	3.1	6.3	0.5	3.3	0.4	74.9	14,536	1.45	68.7	6.1
	173	174	3,413	6,916	812	2,869	282	53.2	96.1	7.1	23.1	2.5	4.9	0.5	3.0	0.4	61.0	14,544	1.45	65.9	4.3
	174	175	3,284	7,051	837	2,963	286	53.8	99.4	7.9	27.4	3.3	7.0	0.8	4.4	0.6	81.3	14,707	1.47	62.9	5.9
	175	176	3,319	6,633	772	2,683	282	55.1	110.7	10.1	38.5	4.9	11.4	1.2	6.5	0.8	127.0	14,055	1.41	94.6	6.0
	176	177	3,108	6,019	669	2,333	253	50.8	104.3	9.8	39.4	5.3	11.6	1.1	7.7	0.8	141.0	12,754	1.28	65	6.2
	177	178	6,685	14,127	1,764	6,509	711	133.7	240.9	17.1	51.0	5.4	9.5	0.9	4.9	0.8	127.0	30,386	3.04	177	4.7
	178	179	10,063	19,347	2,326	7,908	842	159.8	291.6	21.2	66.3	7.4	15.3	1.6	9.5	1.3	198.1	41,258	4.13	233	7.6
	179	180	2,176	4,361	471	1,586	171	36.8	83.0	8.6	38.2	5.1	12.6	1.2	7.5	1.0	142.2	9,101	0.91	53.1	5.3
	180	181	1,753	3,661	411	1,400	153	34.0	80.1	8.9	38.7	5.3	12.1	1.3	7.4	0.9	144.8	7,711	0.77	50.7	4.9
	181	182	1,730	3,587	385	1,289	131	28.8	65.9	7.3	31.9	4.4	9.2	1.0	5.9	0.8	114.3	7,392	0.74	37.2	3.7
	182	183	3,718	6,768	709	2,263	202	40.5	85.4	8.1	34.4	4.5	9.8	0.9	5.4	0.7	118.1	13,968	1.40	46.1	4.4
	183	184	141	279	33	125	18	5.0	13.1	1.7	8.2	1.3	3.4	0.4	2.2	0.3	36.8	668	0.07	5.2	0.9
	184	185	281	548	62	207	23	5.3	13.8	1.6	8.4	1.3	3.1	0.4	2.6	0.3	34.3	1,192	0.12	4.2	1.0
	185	186	158	322	37	135	19	4.6	12.7	1.7	7.9	1.3	3.1	0.4	2.4	0.3	35.6	741	0.07	3.8	0.9
	186	187	88	177	22	86	15	4.2	12.0	1.6	7.6	1.3	3.3	0.4	2.3	0.3	35.6	456	0.05	4.5	1.2
	187	188	68	139	18	73	13	3.6	11.0	1.5	7.6	1.2	3.2	0.4	2.4	0.3	34.3	376	0.04	4.0	1.1
	188	189	387	717	79	267	28	5.9	15.0	1.7	7.7	1.3	3.2	0.4	2.3	0.3	34.3	1,551	0.16	4.8	0.8
	189	190	264	484	54	184	23	5.3	14.0	1.6	7.7	1.3	3.7	0.4	2.4	0.3	35.6	1,080	0.11	4.9	0.7
	190	191	114	235	28	110	16	4.2	10.7	1.3	7.2	1.2	3.0	0.4	2.4	0.2	33.0	566	0.06	3.8	0.9
	191	192	55	115	15	61	12	3.5	9.7	1.3	7.1	1.2	3.1	0.4	2.4	0.3	31.8	319	0.03	3.8	1.1
	192	193	52	109	15	60	13	3.5	9.8	1.4	7.2	1.2	3.2	0.3	2.4	0.3	33.0	311	0.03	3.6	0.8
	193	194	68	141	18	75	13	3.9	10.8	1.4	7.5	1.3	3.1	0.4	2.2	0.3	33.0	380	0.04	4.0	0.9
	194	195	72	149	19	76	13	3.9	11.0	1.3	7.8	1.2	3.3	0.4	2.4	0.3	33.0	393	0.04	4.1	1.1

Hole ID	From m	To m	La_2O_3 ppm	CeO_2 ppm	Pr_2O_3 ppm	Nd_2O_3 ppm	Sm_2O_3 ppm	Eu_2O_3 ppm	Gd_2O_3 ppm	Tb_2O_3 ppm	Dy_2O_3 ppm	Ho_2O_3 ppm	Er_2O_3 ppm	Tm_2O_3 ppm	Yb_2O_3 ppm	Lu_2O_3 ppm	Y_2O_3 ppm	TREO ppm	TREO %	Th ppm	U ppm
	195	196	62	129	16	65	13	3.4	9.9	1.4	7.2	1.2	3.0	0.4	2.4	0.2	30.5	345	0.03	4.3	1.3
	196	197	299	580	65	225	23	5.2	13.8	1.6	7.8	1.2	3.1	0.4	2.3	0.3	31.8	1,260	0.13	4.1	0.8
	197	198	74	152	19	75	14	3.9	10.5	1.3	7.4	1.2	3.1	0.3	2.2	0.3	33.0	397	0.04	3.0	0.8
	198	199	240	529	67	253	33	7.1	18.0	2.0	9.8	1.5	3.9	0.4	2.7	0.3	38.1	1,206	0.12	6.3	0.7
	199	200	7,342	13,512	1,450	4,654	373	65.8	121.0	9.2	31.5	3.6	6.9	0.7	4.3	0.5	86.4	27,661	2.77	90	4.9
	200	201	5,618	10,024	1,073	3,453	284	52.1	95.1	7.5	24.2	2.6	4.9	0.5	3.1	0.5	61.0	20,702	2.07	73.3	4.1
	201	202	4,398	7,813	761	2,403	180	28.6	52.8	3.5	10.3	1.0	1.9	0.2	1.3	0.2	25.4	15,680	1.57	30.2	5.6
	202	203	3,577	6,953	683	2,251	190	31.8	59.5	3.9	10.9	1.1	1.8	0.2	0.9	0.2	25.4	13,789	1.38	39.8	3.7
	203	204	4,234	7,886	758	2,391	187	32.0	58.8	4.1	12.9	1.4	2.3	0.2	1.0	0.2	29.2	15,598	1.56	40.8	4.6
	204	205	4,820	9,250	907	2,998	271	49.2	94.9	7.0	19.9	1.9	3.1	0.3	1.5	0.2	40.6	18,465	1.85	71.6	1.6
	205	206	8,397	16,276	1,601	5,167	436	78.3	153.9	11.6	35.4	3.5	5.7	0.5	2.6	0.3	81.3	32,250	3.23	123.5	4.0
	206	207	4,023	8,537	924	3,301	339	60.6	119.9	8.3	23.5	2.4	4.0	0.4	2.7	0.4	57.2	17,403	1.74	87.2	3.0
	207	208	3,601	6,818	678	2,286	237	49.7	114.2	9.8	28.7	2.7	4.6	0.4	2.7	0.4	66.0	13,898	1.39	155.5	3.6
	208	209	2,164	4,570	478	1,668	170	31.8	68.4	5.3	15.7	1.7	3.2	0.3	1.9	0.3	43.2	9,222	0.92	91.4	1.8

LINDIAN RESOURCES LTD.

JORC Code, 2012 Edition – Table 1 report

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.*	Reverse circulation drilling sampled on 1 metre intervals. Riffle split sample mass averaging 1.5kg crushed, pulverized using standard laboratory procedures with subsample assayed using appropriate methods for rare earth element total digestion and analysis.
Drilling techniques	• *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	Standard reverse circulation drilling using 5 ¼ inch face sampling hammer
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.*	Samples collected on a 1 drilled metre interval. Rock cuttings collected in large plastic bags marked with hole ID and interval from-to via a standard sample collection cyclone.

Criteria	JORC Code explanation	Commentary
	• *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	All 1 metre interval bags are weighed in the field after removal from the sample collection cyclone. Collected sample mass is measured on a tared digital scale and recorded in drill hole data files. Sample recovery is maximized by: • Installing PVC collar pipe in the upper fractured rock zone of the hole to a depth where air loss is minimised and sample return is consistent. • Sample cyclone is sealed to plastic sample collection bags do not leak Sample return was variable with: • Occasional natural voids of up to 7 metres having <10%, often 0% return • Intervals of rock fracturing and loss of air circulation having recoveries averaging 30-60% • Competent rock proved good sample recovery averaging >90%
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	All RC chips have been geologically logged by the onsite geologist at 1 m intervals and chip trays have been retained and photographed Logging is qualitative with fields including shade, colour, weathering, grainsize, texture, lithology, veining, mineralisation and alteration. Additional non-geological qualitative logging includes comments for sample recovery, moisture, and hardness for each logged interval.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field*	Plastic sample collection bags have been split using a 2-tier riffle splitter to achieve a ¼ sub sample of the original mass. This split is then halved in a single tier splitter to give 2 equal samples of approximately 1kg to 2kg in mass. These are denoted split A and split B Each interval is provided with a unique sample number which is written on the subsample bags and corresponding numbered sample tickets are placed within the sub sample bags and stapled into the rolled top of each bag. Both split A and split B samples are weighed with mass recorded in the drill hole file for database upload. Split A samples are dispatched for laboratory analysis. Split B samples are retained in storage at Kangankunde for future reference as required.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr>
<td></td>
<td>duplicate/second-half sampling.
Whether sample sizes are appropriate to the grain size of the material being sampled.</td>
<td>Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled.</td>
</tr>
<tr>
<td>Quality of assay data and laboratory tests</td>
<td>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.
Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</td>
<td>Assay and Laboratory Procedures – All Samples

Samples were dispatched by air freight direct to ALS laboratory Johannesburg South Africa for sample preparation.

<table>
<tr><th>ALS Code</th><th>Description</th></tr>
<tr><td>WEI-21</td><td>Received sample weight</td></tr>
<tr><td>LOG-22</td><td>Sample Login w/o Barcode</td></tr>
<tr><td>DRY-21</td><td>High temperature drying</td></tr>
<tr><td>CRU-31</td><td>Fine crushing – 70% <2mm</td></tr>
<tr><td>SPL-21</td><td>Split sample – Riffle splitter</td></tr>
<tr><td>PUL-31</td><td>Pulverise 250g to 85% passing 75 micron</td></tr>
<tr><td>CRU-QC</td><td>Crushing QC Test</td></tr>
<tr><td>PUL-QC</td><td>Pulverising QC test</td></tr>
<tr><td>LOG-24</td><td>Pulp Login w/o Barcode</td></tr>
</table>
Following sample preparation, a 30 gram pulverized subsample is shipped by airfreight to ALS Perth for analysis

The assay technique used for REE was Lithium Borate Fusion ICP-MS (ALS code ME-MS81h). This is a recognised industry standard analysis technique for REE suite and associated elements. Elements analysed at ppm levels:

<table>
<tr><td>Ce</td><td>Dy</td><td>Er</td><td>Eu</td><td>Gd</td><td>Hf</td><td>Ho</td><td>La</td></tr>
<tr><td>Lu</td><td>Nb</td><td>Nd</td><td>Pr</td><td>Rb</td><td>Sm</td><td>Sn</td><td>Ta</td></tr>
<tr><td>Tb</td><td>Th</td><td>Tm</td><td>U</td><td>W</td><td>Y</td><td>Yb</td><td>Zr</td></tr>
</table>
Analysis for other metals is conducted by four acid digest and ICP-MS (ALS code ME-4ACD81). The elements analysed using this technique are:

<table>
<tr><td>Ag</td><td>As</td><td>Cd</td><td>Co</td><td>Cu</td><td>Li</td><td>Mo</td><td>Ni</td></tr>
<tr><td>Pb</td><td>Sc</td><td>Tl</td><td>Zn</td><td></td><td></td><td></td><td></td></tr>
</table>
</td>
</tr>
</table>

Criteria	JORC Code explanation	Commentary
		The sample preparation and assay techniques used are industry standard and provide a total analysis. All laboratories used are ISO 17025 accredited. **QAQC** ***Analytical Standards*** CRM AMIS0356 and GRE-02 were included in sample batches at a ratio of 1:20 to drill samples submitted. This is an acceptable ratio. The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident. ***Blanks*** CRM blank OREAS C26d and a blank sourced from local barren rock was included in sample batches at a ratio of 1:20 to drill samples submitted for analysis. This is an acceptable ratio. Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results. ***Duplicates*** Field duplicate sampling was conducted at a ratio of 1:20 samples. Duplicates were created by replicating the sampling process from the primary sample. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident. ***Alternative Analysis Technique*** No alternative analytical method analysis has been undertaken.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.*	No independent verification of significant intersection undertaken. No twinning of drill holes was undertaken.

Criteria	JORC Code explanation	Commentary
	• *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	Sampling protocols for sampling and QAQC were documented and held on site by the responsible geologist. No procedures for data storage and management have been compiled yet. Data collected in the field by hand and entered into Excel spreadsheet. Data are then compiled with assay results compiled and stored in a secure database managed by Geobase Australia a professional provider of database services. Data verification is conducted on data entry including hole depths, sample intervals and sample numbers. Sample numbers from assay data are verified prior to entry into the database. Assay data was received in digital format from the laboratory and merged with the sampling data in the database. Data validation of assay data and sampling data have been conducted to ensure data entry is correct. All assay data received from the laboratory in element form is unadjusted for data entry. Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.(Source:https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors)

Element ppm	Conversion Factor	Oxide Form
Ce	1.2284	CeO_2
Dy	1.1477	Dy_2O_3
Er	1.1435	Er_2O_3
Eu	1.1579	Eu_2O_3
Gd	1.1526	Gd_2O_3
Ho	1.1455	Ho_2O_3
La	1.1728	La_2O_3
Lu	1.1371	Lu_2O_3
Nd	1.1664	Nd_2O_3

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Pr</td><td>1.2082</td><td>Pr_6O_{11}</td></tr>
<tr><td>Sm</td><td>1.1596</td><td>Sm_2O_3</td></tr>
<tr><td>Tb</td><td>1.1762</td><td>Tb_4O_7</td></tr>
<tr><td>Tm</td><td>1.1421</td><td>Tm_2O_3</td></tr>
<tr><td>Y</td><td>1.2699</td><td>Y_2O_3</td></tr>
<tr><td>Yb</td><td>1.1387</td><td>Yb_2O_3</td></tr>
</table>
Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations are used for compiling REO into their reporting and evaluation groups:
Note that Y_2O_3 is included in the TREO calculation.
TREO (Total Rare Earth Oxide) = $La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3 + Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Y_2O_3 + Lu_2O_3$.
HREO (Heavy Rare Earth Oxide) = $Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3$, $+ Y_2O_3 + Lu_2O_3$
LREO (Light Rare Earth Oxide) = $La_2O_3 + CeO2 + Pr_6O_{11} + Nd_2O_3$
NdPrO% = $Nd_2O_3 + Pr_6O_{11}$
NdPrO% of TREO= NdPrO%/TREO x 100
</td></tr>
<tr><td>Location of data points</td><td>

Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.
Specification of the grid system used.
Quality and adequacy of topographic control.

</td><td>
Drill hole collar locations reported have been surveyed by Differential GPS and are considered accurate to 0.2m.
Datum WGS84 Zone 36 South was used for location data planning, collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.
Downhole surveys are planned dip and azimuth pending finalisation of downhole surveys.
Topography is derived from SRTM 30 metre digital elevation database.
</td></tr>
</table>

Criteria	JORC Code explanation	Commentary
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* • *Whether sample compositing has been applied.*	Drill spacing for this phase of drilling is a nominal 50 metre hole spacing on 50 metre line spacing. Topography limitations have necessitated drilling some holes off section. Evaluation of hole spacing for suitability to determine geology and grade estimation will be undertaken following this phase of drilling. No mineral resource estimation has been undertaken. No sample compositing has been used.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	The relationship between mineralisation and drill orientation is not known.
Sample security	• *The measures taken to ensure sample security.*	After collection, the samples were transported by Company representatives via road to Lilongwe and dispatched via airfreight to ALS Johannesburg South Africa. Sample shipments are managed by a professional cargo freight company and remain secure during transport. Following sample preparation subsamples are shipped to Perth Australia by ALS using DHL. Samples are received in Australia and subject to customs inspection and quarantine treatment. Samples were subsequently transported from Australian customs to ALS Perth via road freight and inspected on arrival by a Company representative.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	No audits or reviews have been undertaken

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	The Kangankunde Project comprising granted Exploration Licence EPL0514/18R and Mining Licence MML0290/22 is 100% owned by Rift Valley Resource Developments (RVRD) a Malawian registered company. Lindian Resources currently holds 33% of RVRD with a binding share purchase agreement to progressively acquire 100 % of RVRD.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	Previous exploration includes: 1952-1958: Eight trenches excavated. No data records known to exist. 1959: Geological mapping, ten trenches excavated, seven drill holes drilled below main trenches. Data not sighted. 1972-1981: Trench mapping and sampling, adit driven 300 metres north to south with several crosscuts. Diamond drilling from crosscuts. Pilot plant operated producing strontianite and monazite concentrate. Limited data available in hard copy only. 1987- 1990: Feasibility study activities including surface core drilling, processing studies, geotechnical and groundwater studies, estimation of "geological reserves" (Not JORC compliant). Limited data available in hard copy reports. Historical data is largely not available or not readily validated and is currently not reported.
Geology	• *Deposit type, geological setting and style of mineralisation.*	Intrusive carbonatite containing monazite as the main rare earth bearing mineral. The Kangankunde carbonatite complex is characterized by an elliptic structure centring Kangankunde Hill. The diameters in N-S and E-W directions are 900m and 700m, respectively. In the ellipse, the following rocks are zonally arranged from the centre to the outer part; carbonatites, carbonatized breccias, wall rock / carbonatite breccias and basement rocks.

Criteria	JORC Code explanation	Commentary
		The carbonatites are dolomitic, sideritic and ankeritic and at surface are distributed widely on the northern and western slopes of the Kangankunde Hill. Manganese carbonatite is found at the top and on the eastern slope of the hill. Monazite is found in all carbonatite types in varying quantities. Other associated minerals are strontianite, barite and apatite.
Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar* ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *down hole length and interception depth* ○ *hole length.* • *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*	The material information for drill holes relating to this announcement are contained in Appendix 1.
Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	Reported intersections are length weighted averages. No maximum or minimum grade cutting has been applied. All reported intercepts are drilled within the orebody and are rare earth mineralised with the lowest grade of 0.35%TREO reported. No geological natural cut-off has been observed and an economic cut-off is not appropriate at this stage of the project. Mineralised zones of higher grade within a fully mineralised hole have been highlighted using a threshold of 2% TREO with a maximum of 5 metres of contiguous internal waste used in the calculation. This cut-off is consistent with other similar deposits. No metal equivalents values are used.

Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	Down hole lengths reported, true widths are not known.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	Refer to diagrams in body of text.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	Multi element analysis has been conducted including potential radionuclides uranium (U) and thorium (Th) which are both reported in Appendix 2
Further work	• *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	Future work programs are intended to evaluate the economic opportunity of the project including extraction optimization, and resource definition.