

ASX / Media Announcement 6 February 2024

Tardiff returns further high-grade results up to 7.9% TREO, underlining resource growth potential

Highlights

- Tardiff shallow high-grade drilling demonstrates multiple areas open to the west, east and on the southern margins from latest 10 drill hole results from the 2023 drilling program (74 holes totaling 6,664m)
- Results reinforce expansion potential of shallow higher-grade areas of rare earth mineralised altered syenite, providing focus for future drill targeting to improve the grade potential and de-risk the mineral resource
- This 10-hole batch of results comprises part of the resource conversion program at Tardiff. Highlight results include:
 - **18.90m at 2.40% TREO** from 12.10m including
 - 1.9m at 7.9% TREO from 12.1m and
 - **1.4m at 3.8% TREO** from 19.2m;
 - **18.00m at 2.10% TREO** from 72.00m;
 - **12.90m at 2.40% TREO** from 56.05m;
 - 43.50m at 1.80% TREO from 38.50m; and
 - **46.25m at 1.70% TREO** from 24.00m
- Assay results from the remaining 24 holes are expected within ~3 months
- Mineral Resource Estimate update due Q1 CY24
- Tardiff Scoping Study works continues
- Vital's focus remains on developing the large-scale Tardiff deposit, which represents
 one of the largest single rare earths systems in the western world, estimated to
 contain 416,000 tonnes of neodymium and praseodymium (NdPr)¹
- NdPr offers the largest value market within the lanthanide series of rare earths and provides essential components in the production of high strength magnets.

Vital Metals Limited (ASX: **VML**) ("**Vital**", "**Vital Metals**" or "the **Company**") is pleased to announce high-grade results from 10 drill holes completed as part of its 2023 resource definition drilling program on the Tardiff deposit at its Nechalacho Rare Earth Project in NWT, Canada.

Vital Managing Director Geordie Mark said: "These results continue to support an evolving narrative around grade and continuity of shallow higher-grade zones across the 2023 drill pattern that remain open for future drill-testing. Shallow higher grade drill results across several areas of the 2023 drill pattern foster our aim to add in-ground value potential that could facilitate project de-risking by

¹ VML ASX Announcement 14/02/2023 – Vital Achieves 26% Increase in Tardiff Mineral Resource



expanding areas of higher grade and conversion to higher confidence resource categories. Several areas of higher grade remain open for expansion – particularly along the northwest where drilling has identified a target zone with a 300-metre-plus strike length – more drilling is warranted to examine the extent of mineralisation, with results incorporated into a resource update for use in our ongoing scoping study, due for release later this year."

Vital's Tardiff deposit has an existing resource estimate of 119 million tonnes at 1.4% TREO¹ in the Measured, Indicated and Inferred JORC 2012 categories completed to 31 December 2022. Vital aims to deliver a resource estimate update on the Tardiff deposit later this quarter. Results from this batch of 10 drillholes (Figure 2) build onto continuity of grade in several areas (e.g. L23-631, L23-661 and L-23-680 in the northwest, south, east, respectively). These holes tend to confirm results from earlier reported intersections from 2023 and highlight the potential for further expansion of shallow higher grade mineralisation beyond the 2023 drill-program footprint. Overall, these data are expected to aid the interpretation of the geological model and the grade model for the distribution of rare earth mineralisation.

Vital's 2023 program aimed to improve the definition and increase the Measured and Indicated components of the 2023 Mineral Resource Estimate, focusing on the Tardiff Upper Mineralised Zone above the 150 RL. Vital's 2023 resource definition drilling program was drilled on a nominal 50m by 50m grid to infill areas previously drilled on nominal 100m to 200m drill spacing. A subsequent update coupled with the scoping study on the Tardiff resource is planned to incorporate results from the 2023 drilling program and potentially other follow-up drilling that tests expansion potential of shallow high grades.

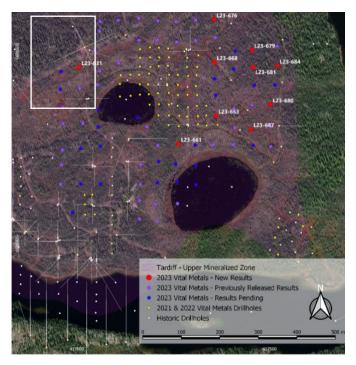


Figure 1: Plan view of 2023 Tardiff drill program and locations of 2021- 2022 drilling and historical drillholes.

Top Left Insert box: see Figure 3.





Figure 2: Projected drill strings highlighting (in colour) down-hole assays of the 10 drillholes released in this parcel of results from the 2023 drill program with a simplified geological underlay of the Blachford Lake Complex. Assay results: Yellow 1-2% TREO, Red 2-3% TREO and Fuchsia >3% TREO.

These new drill data reinforce the differentiated grade potential of the system and highlight high grades, with grades of or above 3.0% TREO at multiple locations on the 2023 drill grid, adding to areas uncovered in earlier released results from the 2023 drill program. Shallow higher-grade mineralisation (mainly starting <40 metres depth) is hosted within biotite altered syenite and as well as altered aegirine, K-feldspar syenite, indicating potential lateral continuity in several areas on the grid pattern: Hole 631 returned particular interesting results with an intersection **grading up to 7.95% TREO.** A number of proximal holes have been completed with results pending.



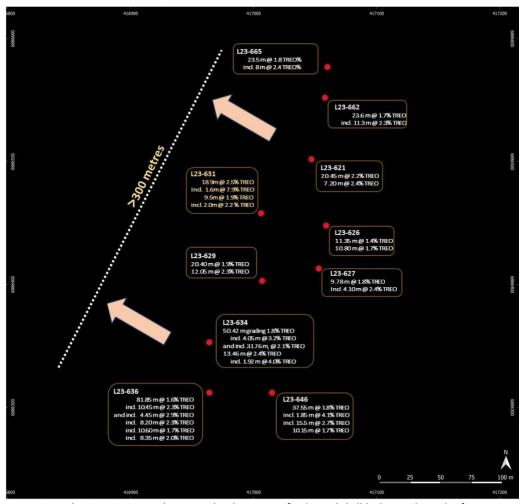


Figure 3: Insert box in Figure 1. Showing plan location of selected drill holes and results from 2023 drill program in the northwest corner of the gride pattern. Drill collar locations: red circle. The arrows indicate the direction of open mineralization. Future drilling programs will prioritize testing the lateral continuity of this mineralisation.

Drill Result Summary

Northwest area (see Figures 1-3):

L23-631: 18.90m at 2.48% TREO from 12.10m, Incl. 1.90m at 7.95% TREO from 12.40m; And incl. 1.40m at 3.85% TREO from 19.20m, And 11.00m at 1.57% TREO from 79.00m.

Hole L23-631 builds onto the results of earlier reported 2023 drilling (e.g., L23-627 L23-629, L23-665, and L23-662, see previously reported intersections immediately below), and shows the potential of building continuity of higher-grade mineralisation that could be expanded with additional drilling to the northwest (and north). Results included:

L23-662: 23.60m at 1.7% TREO from 8.40m; L23-629: 20.40m at 1.9% TREO from 60.80m; L23-665: 23.05m at 1.8% TREO from 7.20m;



L23-627: 9.80m at 1.8% TREO from 31.41m.

Southern area (see Figures 1-2):

L23-661: 12.90 m at 2.35% TREO from 56.05m, Incl. 3.65m at 3.82% TREO from 61.35m; And 9.50m at 2.41% TREO from 78.65m.

Furthermore, drill testing along the southern portion of the drill pattern furnished additional shallow rare earth mineralisation within mafic altered syenite that are materially higher than the resource average, and add to recently released results of proximal holes (e.g., L23-630 and L23-657; see previously report results below) building a picture of continuity of higher grades in this area: assays from several holes remain to be reported in this area (see Figure 1).

L23-630: **33.33m at 1.8% TREO** from 44.00m; Incl. **10.70m at 2.8% TREO** from 65.85m Incl. **1.88m at 3.8% TREO** from 67.62m L23-657: 79.70m at 1.5% TREO from 13.30m; Incl. 9.00m at 2.2% TREO from 17.50m

Eastern area (see Figures 1-2)

L23-680: 43.50m at 1.82% TREO from 38.50m; Incl. 1.80m at 3.84% TREO from 69.20m And incl. 1.50m at 3.00% TREO from 77.50m

Encouragingly, the latest drilling results (e.g., L23-680) on the east margin of the 2023 grid pattern (Figure 1) is building a picture of continuity (see L23-678, previously released results below) of higher-grade rare-earth mineralization that remains open to the east for future testing.

L23-678: 16.00m at 1.70% TREO from 55.00m; Incl. 2.00m at 2.30% TREO from 62.00m.



Summary Intersections from the 10 drill holes are listed in **Table 1**.

Hole ID		From (m)	To (m)	Length (m)	TREO %
L23-631		12.1	31.0	18.9	2.5
L23-631	incluḍing	12.1	14.0	1.9	7.9
L23-631	and including	19.2	20.6	1.4	3.8
L23-631		50.0	57.0	7.0	1.3
L23-631		59.0	68.5	9.5	1.9
L23-631	including	61.0	63.0	2.0	2.2
L23-631		79.0	90.0	11.0	1.6
L23-661		10.7	14.4	3.7	1.6
L23-661		56.1	69.0	12.9	2.4
L23-661	including	61.4	65.0	3.7	3.8
L23-661		78.7	88.2	9.5	2.4
L23-663		24.0	70.3	46.3	1.7
	including	36.0	45.5	9.5	2.1
	and including	48.4	49.4	1.0	3.2
L23-663		78.0	87.2	9.2	1.7
L23-668		9.1	13.0	3.9	1.3
L23-668		19.0	23.0	4.0	1.7
L23-668		37.2	45.0	7.8	2.0
L23-668		49.0	55.0	6.0	1.8
L23-668		72.0	90.0	18.0	2.1
L23-668	including	73.8	77.3	3.5	3.2
L23-668		81.0	85.0	4.0	2.6
L23-676		No sig	nificant resu	ılts	
L23-679		37.9	46.1	8.2	1.4
L23-679		60.0	62.8	2.8	1.5
L23-680		7.0	23.2	16.2	1.3
L23-680		27.5	32.3	4.8	1.8
L23-680		38.5	82.0	43.5	1.8
L23-680	including and	69.2	71.0	1.8	3.8
L23-680	including	77.5	79.0	1.5	3.1
L23-681		3.9	6.8	3.0	1.0
L23-681		23.1	32.5	9.4	1.5
L23-681		80.1	84.2	4.1	1.1



Hole ID		From (m)	To (m)	Length (m)	TREO %
L23-681		86.7	89.0	2.3	1.5
L23-684		1.9	43.5	41.7	1.1
L23-684	including	33.3	39.8	6.5	1.7
L23-687		3.9	9.0	5.1	2.4
L23-687	including	3.9	5.0	1.1	3.7
L23-687		67.8	74.9	7.1	1.4
L23-687		84.5	86.1	1.6	1.5

Table 1: Summary intersections for the latest parcel of 10 drill-holes of the 2023 resource definition drilling.

Assay results for the remaining 24 drillholes in Vital's 2023 resource definition drilling are expected in the next three to four months.

ENDS

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This announcement has been approved by the Board of Vital Metals Limited.

About Vital Metals

Vital Metals Limited (ASX: VML) is developing the large Nechalacho Rare Earth Project in Canada's Northwest Territories. Nechalacho has the potential to underpin a significant rare earths supply chain for North America and Europe with responsibly sourced critical minerals for the green economy transformation.



Qualified/Competent Persons Statement

Nechalacho Rare Earth Project

The information in this report relating to Exploration Results at the Nechalacho Rare Earths Project is based on, and fairly represents, information and supporting documentation prepared for Vital Metals Limited by Dr. Natalie Pietrzak-Renaud. Dr. Pietrzak-Renaud is a Competent Person and a member of the Association of Professional Geoscientists of Ontario, Canada and a contract consultant for the Company. Dr. Pietrzak-Renaud has sufficient experience that is 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 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr. Natalie Pietrzak-Renaud consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

ASX Listing Rule Information

This announcement contains information relating to Mineral Resource Estimates in respect of the Nechalacho Project extracted from ASX market announcements reported previously and published on the ASX platform on 14 February 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the original market announcements continue to apply and have not materially changed. The Mineral Resource estimate of 119.0Mt @ 1.4% TREO comprises 108.1Mt @ 1.39% TREO Inferred, 6.3Mt @ 1.45% TREO Indicated and 4.6Mt @ 1.59% TREO Measured.

This announcement contains information relating to Exploration Results extracted from ASX market announcements reported previously in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("2012 JORC Code") and published on the ASX platform on 26 May 2021, 9 March 2022 9 June 2022, 22 July 2022, 30 May 2023 and 21 November 2023. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

Appendix 1 - JORC Code, 2012 Edition – Table 1 report – Nechalacho Upper Zone Section 1 Sampling Techniques and Data

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

	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (eg 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 (eg '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 (eg submarine nodules) may warrant disclosure of detailed information. 	 Sampling of 2023 diamond drill core are half splits of drill core using a core splitter. Samples were collected from the bastnaesite mineralisation with lengths ranging 0.35 to 2.45 metres. The typical sample length was 1.0 to 2.0 metres. The sampling lengths were dictated by the lithology of the core. All drill core samples were crushed to 90% <2 mm, then 1 kg was riffle split. The 1 kg splits from the samples were then pulverized to 85% <75 μm. The samples were assayed using ICP-MS for the REE. The accuracy of the assaying has been validated through a combination of using standards with a known grade and inserting field blanks.
Drilling techniques	 Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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). 	 HQ diameter core using standard tube was used for the 2023 drill program. As the holes were short and vertical no orientation was carried out on the core.
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. 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. 	 Good core recovery was observed for the 2023 drill program. The geological nature of the mineralization in the Upper Zone (coarse bastnaesite), in many cases, is such that the risk of biased sampling is somewhat reduced. No relationship has been identified between sample recovery and grade.
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource 	 Geological drill logs completed by an experienced professional geoscientist were produced to a standard to support a mineral resource estimation.

	JORC Code explanation	Commentary
	 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. 	 For the 2023 drill program, core photographs are available. All the half splits from the 2021 and 2022 drilling programs were retained with the drill core stored on site, as half core, and can be viewed. Total length of the core for the first 17 holes of the 2023 program is 1431.4 m and the core was 100% logged.
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 duplicate/secondhalf sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 Half core splits were sampled for the 2023 drill program. For each sampled interval the entire interval was half split to ensure a representative sample of the interval. The sampled core was crushed before assaying to ensure the material from the entire interval was analysed during the assaying process. Duplicates of both the coarse-crushed (<2 mm) rejects and of the assay pulps were analysed and showed good reproducibility of the REE assays, indicating that both materials are sufficiently homogeneous. The core sample intervals honour the contacts of the mineralization zones, thus providing adequate sample coverage.
Quality of assay data and laboratory tests	 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 (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	 The assay methods for the REE include lithium borate fusion followed by ICP-MS and are thus considered total. External REE standards supplied by Avalon Advanced Materials Inc. and inserted in the field, and external REE standards inserted by the laboratory (ALS) were analysed with each batch of assays to ensure the assaying procedures gave accurate results. Field blanks were inserted to monitor contamination; results were acceptable.
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 The assay data was collated by Mercedes Rich of Cheetah Resources. The entire data set was received by email from ALS and converted to oxides. No assay data was manually inserted reducing the likelihood of human data entry errors. Assay data for rare earth elements was converted to rare earth oxides. Geology tables distinguishing host rock syenite were created from the original drill logs.

	JORC Code explanation	Commentary
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 The 10 drill holes samples have been received for have been surveyed using a handheld GPS by the supervising geologist. It is expected all the 2023 drill holes will by professional surveyor using more accurate surveying methods before any resource modelling is carried out. The grid system used is UTM NAD83 Zone 12 N, currently the standard system used in the area.
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. 	 The drill hole spacing is approximately 50 by 50 m. The drill hole spacing is considered to be adequate for the indicated resource confidence category. Sample compositing will be applied when using the data for resource estimation.
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. 	 All 2023 drill-holes were drilled at -90 to intersect the horizontally layered REO mineralisation at 90 degrees to achieve unbiassed sampling.
Sample security	The measures taken to ensure sample security.	 All assay samples were sealed using zip locks, and multiple samples were placed in rice bags sealed with zip locks. Independent lab verified sealed sample integrity upon receipt. Analyses for elements such as rare earths, niobium and zircon are unlikely to be altered as a result of insecurity of samples such as contamination.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	As the drilling is only recent no audits have been carried out on the sampling techniques and data.

Section 2 Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section.)

	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 Upper Zone is located on Mining Lease NT-3178 registered to Avalon Advanced Materials Inc. and expires 21 May 2027. On June 24, 2019, Avalon Advanced Materials Inc. announced that it has entered into a definitive agreement with Cheetah Resources Pty Ltd. to transfer ownership of the near-surface mineral resources on the Property, which includes the Upper Zone (see Avalon News Release NR 19-04). On October 30, 2019, it was announced that Avalon received the full payment from Cheetah Resources Pty Ltd. for the near-surface resources on the Nechalacho rare earth elements property at Thor Lake (see Avalon News Release NR 19-04). On February 6, 2020, the completion of a co-ownership agreement was announced, under which Cheetah Resources Pty Ltd. acquired ownership of the near-surface resources on the property, including the Upper Zone, and a jointly-owned special purpose vehicle to hold and manage the permits and authorizations to operate at the site was created (see Avalon News Release NR 20-01). Operating licenses in the Northwest Territories are subject to the approvals by provincial and environmental regulators and require consultation with local communities.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	 The historic resource development drilling was carried out by Avalon Materials Inc with the bulk of this drilling carried out between 2007 and 2013. The geologist who supervised the historic work, J.C. Pedersen, P. Geo, is an experienced geologist in the rare earths field and is well known as a reliable geoscientist to the present parties. He also supervised the 2021 and 2022 drilling programs and some of the 2023 drilling program.
Geology	Deposit type, geological setting and style of mineralisation.	 The Upper Zone is a polymetallic (REE, Nb, Zr) deposit hosted by the Thor Lake Syenite. It is a large layered magmatic deposit. REO mineralization in the Lake Zone is layered in separate zones of light rare

	JORC Code explanation	Commentary
		earths at the top of the deposit (Upper Zone) and a mixture of light and heavy REO mineralisation in the lower part of the deposit (Basal Zone).
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 historic data set for the Lake Zone includes 582 diamond drill holes with many of them in fans from the surface utilising a small number of drill pads to target the basal zone which begins approximately 80 metres below the surface. The historic drill hole data gave poor representation of the Upper Zone as the fans resulted in many holes close together in clusters and wide spaces between the clusters. The historic drill holes ranged from 1.5 to 1070 m in length with the bulk of the drill holes between 150 and 300 m long for a total length of 120,062 m. See Appendix 2 and Table 1 for the details of each of the holes and the assay intervals in the latest parcel of results from the 2023 drilling program.
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. 	 Where there was more than 1 assay for an interval a weighted average was used for the grade of the interval. The weighted average was calculated by using the following formula. Interval grade= (Sum of (Assay length X assay grade))/(total interval length) No capping was applied as no outliers were observed. Nd2O3 and Pr2O3 has been reported as 24.5% of the total REO. This was calculated by summing the Nd2O3 and PR6O11 assay grades and dividing by the sum of the Total REO grades.
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 (eg 'down hole length, true width not known'). 	 For the 2023 drilling the intervals reported closely approximate the true width of the mineralisation as most holes intersect at right angles to the dip of the mineralisation. The sample intervals are suitable for the mineralisation. The drill holes intersect the deposit at approximately right angles to the orientation of the orebody which is the ideal orientation. The orientation of the holes to the mineralization is well established.
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should 	See figures in this ASX release for map of collars and a 3D sectional view.

JORC Code explanation		Commentary		
	include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.			
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. 	 All intervals greater than and equal to 4 metres in length and 1% TREO are reported in Table 1. 		
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. 	 Not applicable as no other exploration data is available. Deleterious and contaminating materials are not present except for some thorium as is commonly present in rare earth deposits and well established with respect to levels. 		
Further work	 The nature and scale of planned further work (eg 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. 	• The 2023 drilling program should outline enough resources in the Measured and Indicated categories to allow mining and processing studies to be carried for a pre-feasibility study. If the mining and processing studies successfully show that mining is economically viable then further close space drilling will be carried out to further expand the Measured and Indicated resources in the Tardiff Zone where there are currently Inferred mineral resources and indicated mineral resources.		



Appendix 2: List of the latest parcel of drill-holes for the 2023 resource definition drilling. Note all holes were drilling vertically.

Hole ID	UTM: NAD 83, Zone 12		Elevation	Length	Azimuth	Dip
	mEasting	mNorthing	(m)	(m)	<u></u>	- 4
L23-631	417006	6886458	239	90	0	-90
L23-661	417264	6886259	232	90	0	-90
L23-663	417361	6886332	233	90	0	-90
L23-668	417357	6886471	239	90	0	-90
L23-676	417356	6886582	243	90	0	-90
L23-679	417454	6886503	235	90	0	-90
L23-680	417502	6886361	239	90	0	-90
L23-681	417457	6886458	237	89	0	-90
L23-684	417520	6886462	243	90	0	-90
L23-687	417452	6886297	236	89	0	-90