7 August 2023

Koppamurra Rare Earths Project, South Australia-Victoria

Strong final assays substantially extend mineralisation area

- **Final assays received from H1 2023 drill program**
- **Strong results show mineralisation extends up to 6km north beyond the current boundary of the existing Koppamurra Indicated Resource**
- **Assays will form part of upcoming Resource and Exploration Target update**
- **Drilling planned to resume in Q4 2023**

Australian Rare Earths Limited (ASX: AR3) is pleased to announce strong final assays from the recently completed drilling program at its Koppamurra ionic clay-hosted rare earths project.

The drilling program, which was conducted from February to June 2023, consisted of over 1300 holes for ~16,000m targeting strike extensions of the Resource and regional prospectivity of AR3's Victorian tenure (Figure 1).

The most recently received assays were obtained from drilling conducted north of the main resource shown in Figure 2 and Sections 1-3. These results are highly encouraging, confirming mineralisation extends up to 6km north of the currently defined Indicated Koppamurra resource.

Significant Intercepts include:

- **KM4804, 3m @ 1,811 ppm TREO from 10m, with 22.5% combined Neodymium/Praseodymium (Nd/Pr) and 2.4% Dysprosium (Dy) – Section 1**
- **KM4727, 4m @ 1,669 ppm TREO from 8m, with 19.2% combined Nd/Pr and 2.2% Dy**
- **KM4820, 4m @ 2,015 ppm TREO from 2m, with 25.2% combined Nd/Pr and 2.1% Dy – Section 2**
- **KM4767, 2m @ 2,029 ppm TREO from 4m, with 30.3% combined Nd/Pr and 2.0% Dy – Section 3**
- **KM4697, 2m @ 2,882 ppm TREO from 10m, with 20.4% combined Nd/Pr and 1.8% Dy**

AR3 Chief Executive Travis Beinke said: *"These results show the strong potential for further growth in the Koppamurra Resource and therefore support our strategy to establish a world-scale ionic clay-hosted rare earths province.*

"Our existing Resource already stands at a very substantial 101Mt with a significant Exploration Target of 330 million to 1.4 billion tonnes.

"We are confident that this will continue to grow with the latest assays to form part of the next Resource update later this year. Drilling will resume in the December 2023 quarter".

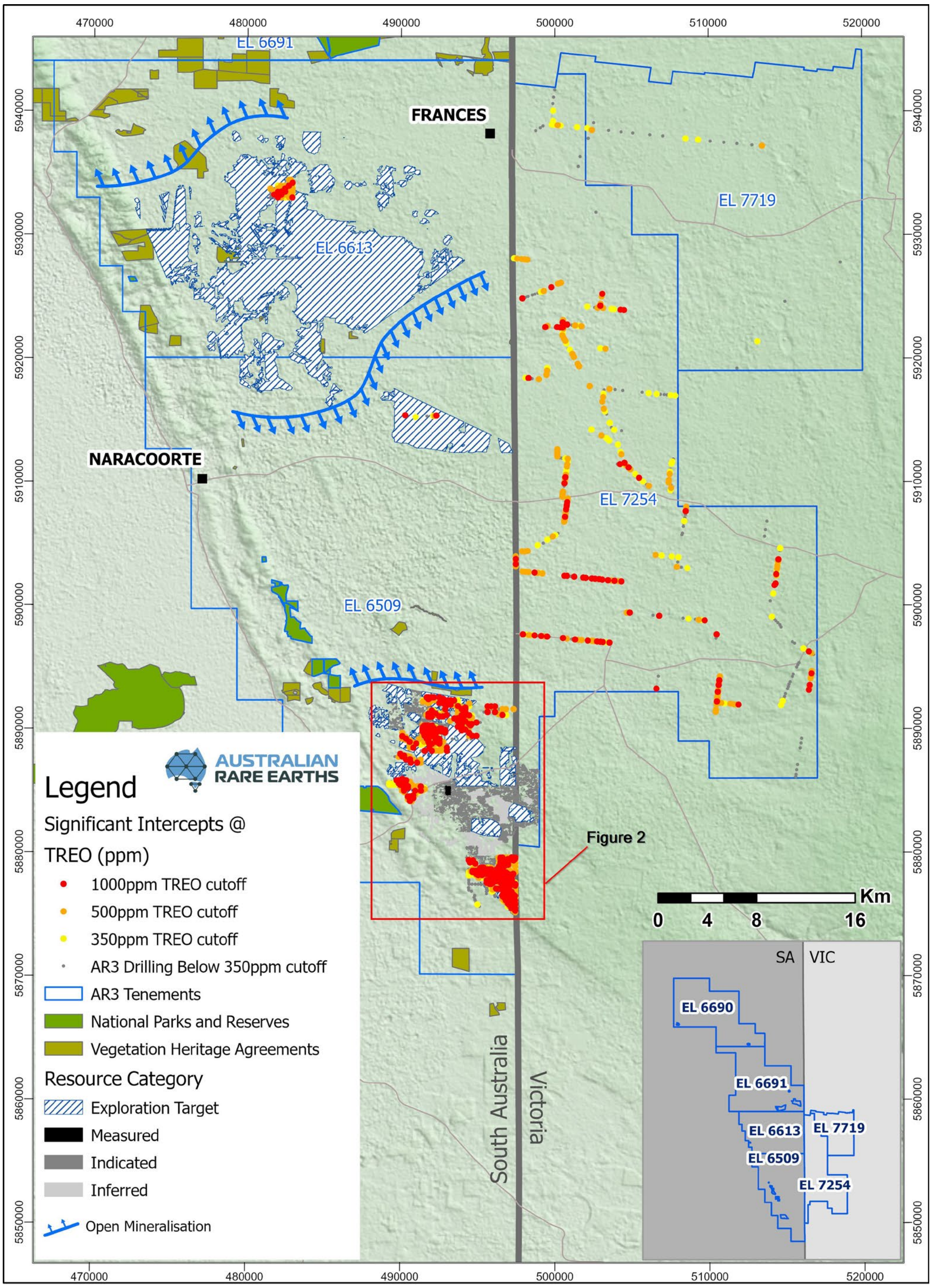


***Figure 1** – Regional drilling showing significant intersections from recently completed drilling program. Holes shown will inform the upcoming revised MRE.*

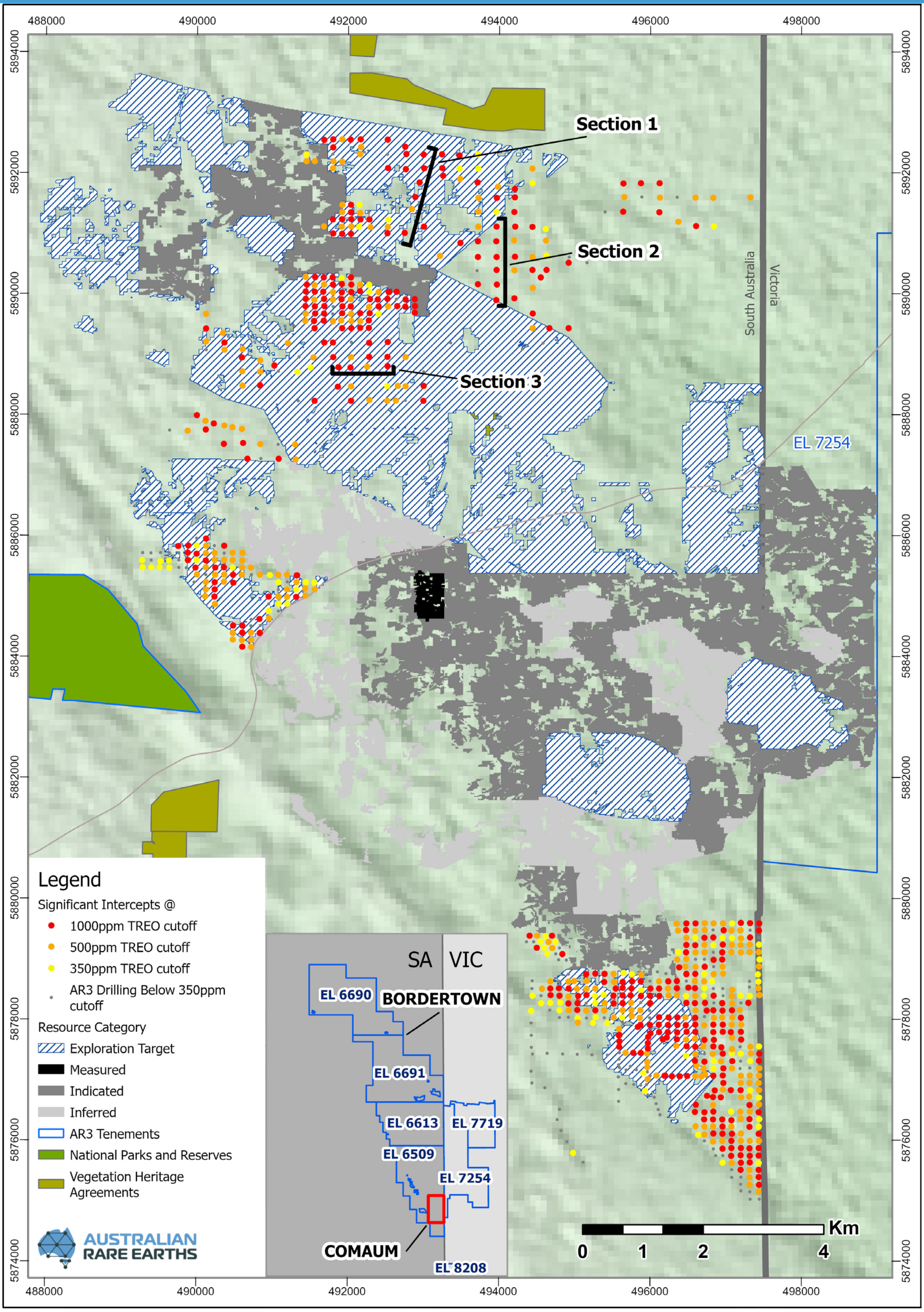
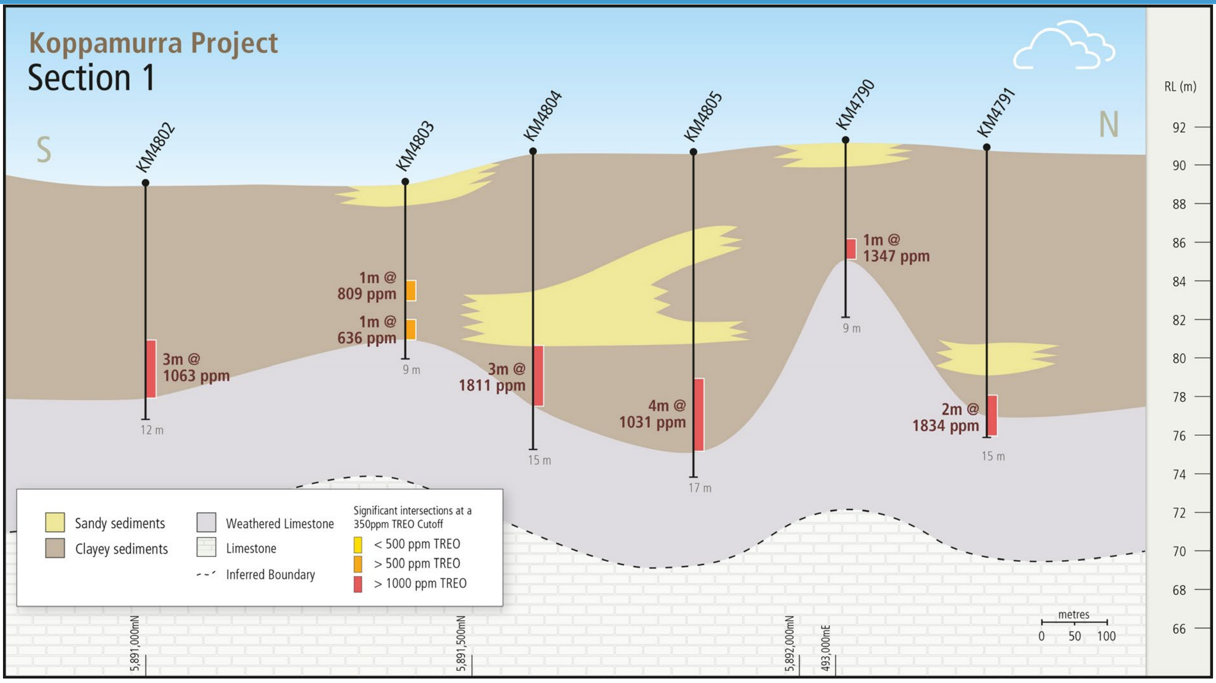
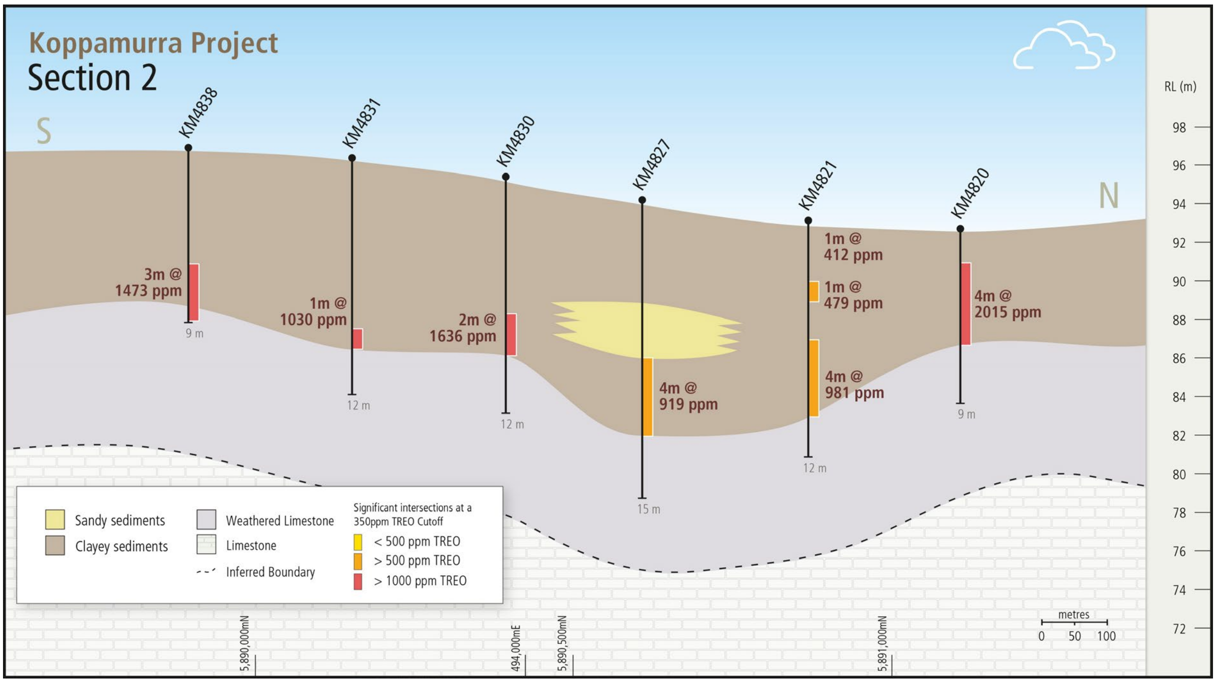


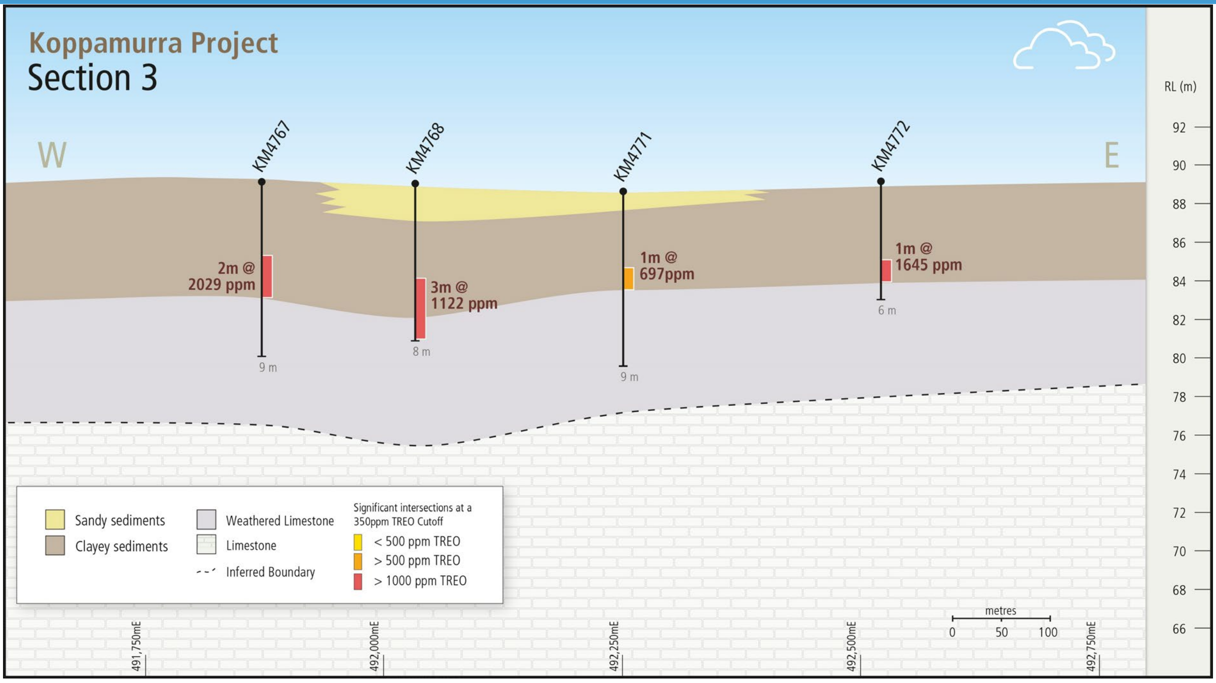
Figure 2 –Significant intersections and section locations. Sections detail most recently received assays.



Section 1



Section 2



Section 3

The announcement has been authorised for release the by the Board of AR3 Limited.

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Competent Person Statement

The information in this report that relates to Exploration results is based on information compiled by Australian Rare Earths Limited and reviewed by Mr Rick Pobjoy who is the Technical Director of the Company and a member of the Australian Institute of Mining and Metallurgy (AusIMM). Mr Pobjoy has sufficient experience that is relevant to the style of mineralisation, the type of deposit under consideration and to the activities 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". Mr Pobjoy consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

About Australian Rare Earths Limited

Australian Rare Earths is committed to the timely exploration and development of its 100% owned, flagship Koppamurra Project, located in South Australia and Victoria. Koppamurra is a prospective ionic clay hosted rare earth deposit, uniquely rich in all the elements required in the manufacture of rare earth permanent magnets which are essential components in electric vehicles, wind turbines and domestic appliances.
The Company is focused on executing a growth strategy that will ensure AR3 is positioned to become an independent and sustainable source of rare earths, playing a pivotal role in the global transition to a green economy.

Appendix 1 – JORC Tables

Section 1 Sampling Techniques and Data		
Criteria	**Explanation**	**Comment**
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.,*	*RC Aircore drilling methods were used obtain samples from the October-December 2021, February-April 2022, September-December 2022, & February-June 2023 drilling programmes.* *The following information covers the sampling process:* • *All air core samples were collected from the rotary splitter mounted at the bottom of the cyclone using a pre-numbered calico bag and plastic UV sample bag. The samples were geologically logged at 1 m intervals using the marked calico sample which averaged ~1.5 kg in mass.* • *A handheld Olympus Vanta XFR Analyser was used to assess the geochemistry of the air core samples in the field. The XRF analysis provided a full suite of mineral elements for characterising the lithological units.* • *XRF readings were downloaded from the XRF Analyser at the end of each day and uploaded to the Australian Rare Earths Azure Data Studio database.* • *Field duplicates were taken at a rate of 1:36 and inserted blindly into the sample batches.* • *At the laboratory, the samples were oven dried at 105 degrees for a minimum of 24 hours and secondary crushed to 3 mm fraction and then pulverised to 90% passing 75 µm. Excess residue was maintained for storage while the rest of the sample placed in 8x4 packets and sent to the central weighing laboratory. The samples were submitted for analysis using XRF-ICP-MS method.* • *A laboratory repeat was taken at ~ 1 in 21 samples;* • *Commercially obtained standards were inserted by the laboratory at a rate of ~ 1*

	submarine nodules) may warrant disclosure of detailed information.	*in 9 into the sample sequence.*
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).*	• *McLeod Drilling used a Toyota Land air core rig and support vehicle for the aircore drilling.* • *Aircore drilling is a form of reverse circulation drilling where the sample is collected at the face and returned inside the inner tube. The drill cuttings are removed by injection of compressed air into the hole via the annular area between the inner tube and the drill rod.* • *Aircore drill rods used were 3 m long.* • *NQ diameter (76 mm) drill bits and rods were used.* • *All aircore drill holes were vertical with depths varying between 2 m and 36 m.*
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.*	• *Drill sample recovery for aircore is monitored by recording sample condition descriptions where 'Poor' to 'Very Poor' were used to identify any samples recovered which were potentially not representative of the interval drilled.* • *A comment was included where water injection was required to recover the sample from a particular interval. The use of water injection can potentially bias a sample and very little water injection was required during this drilling programme.* • *No significant loses of samples were observed due to the shallow drilling depths (<36 m).* • *The rotary splitter was set to an approximate 20% split, which produced approximately 1.5 kg sample for each meter interval.* • *The 1.5 kg sample was collected in a pre-numbered calico bags and the remaining 80% (5 kg to 8 kg) was collected in plastic UV bags labelled with the hole number and sample interval.* • *At the end of each drill rod, the drill string is cleaned by blowing down with air to remove any clay and silt potentially built up in the sample pipes and cyclone.*

		• *No relationship exists 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 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 aircore samples collected in calico bags were logged for lithology, colour, cement type, hardness, percentage rock estimate, sorting, and any relevant comments such as moisture, sample condition, or vegetation.* • *Geological logging data for all drill holes was qualitatively logged onto Microsoft Excel spreadsheet using a Panasonic Toughbook with validation rules built into the spreadsheet including specific drop-down menus for each variable. The data was uploaded to the Australian Rare Earths Azure Data Studio database.* • *Every drill hole was logged in full and logging was undertaken with reference to a drilling template with codes prescribed and guidance to ensure consistent and systematic data collection*
Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all cores 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/second-half*	• *1 m aircore sample interval were homogenised within the cyclone and the rotary splitter was set to an approximate 20% split producing around 1.5 kg sample for each metre interval.* • *The 1.5 kg sample was collected in a pre-numbered calico bag and the 80% (5 kg to 8 kg) portion was collected in plastic UV bags labelled with hole identity and interval.* • *Duplicates were generally taken within the clay lithologies above the basement as this is the likely zone of REE enrichment. These duplicate samples were normally collected by using a second calico bag and placing it under the rotary splitter collecting a 20% split but due to the difficulties of placing a second calico bag under the rotary splitter during sample collection, some duplicates were collected by hand from the plastic UV bags which captured the other 80% of the material recovered from any particular interval.* • *The material in the plastic UV bags was mixed up and every attempt to take as*

	sampling. *Whether sample sizes are appropriate to the grain size of the material being sampled.*	*representative sample of the material as possible by hand was made and then placed in a pre-numbered calico bag.* • *The 1.5 kg sample collected in the calico bag was logged by the geologist onsite. The logged samples were placed in polyweave bags and sent to Naracoorte base at the end of each day. The polyweave bags where then placed on pallets and dispatched to Bureau Veritas laboratory in Adelaide in Bulka Bags.* • *The remaining 80% split from the aircore interval was stored for future reference.* • *Field duplicates of all the samples were completed at a frequency of 1 in 38 samples. Field standards were inserted into the sample sequence at a frequency of 1:59. Standard reference Material (SRM) samples were inserted into the sample batches at a frequency rate of 1 per 10 samples by the laboratory and a repeat sample was taken at a rate of 1 per 21 samples.* • *A rig geologist oversaw the sampling and logging process while a second geologist selected samples for analysis based on the logging descriptions and Pxrf analysis. Clay rich sample and those adjacent to the limestone basement contact were selected for assay. REEs are known to be contained within the clay component of the sediment package based on analysis of XRF data and previous exploration work.*
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.*	• *The detailed geological logging of samples provides lithology (clay component) and proximity to the limestone basement which is sufficient for the purpose of determining the mineralised zone.* • *The 1.5 kg aircore samples were assayed by Bureau Veritas laboratory in Wingfield, Adelaide, South Australia, which is considered the Primary laboratory.* • *The samples were initially oven dried at 105 degrees Celsius for 24 hours. Samples were secondary crushed to 3 mm fraction and the weight recorded. The sample was then pulverised to 90% passing 75 µm. Excess residue was maintained for storage while the rest of the sample placed in 8x4 packets*

	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.	*and sent to the central weighing laboratory.* • *All weighed samples were then analysed using the Multiple Elements Fusion/Mixed Acid Digest analytical method;* • *ICP Scan (Mixed Acid Digest – Lithium Borate Fusion) Samples are digested using a mixed acid digest and also fused with Lithium Borate to ensure all elements are brought into solution. The digests are then analysed for the following elements (detection Limits shown): Al (100) As (1) Ba (1) Be (0.5) Ca(100) Ce (0.1) Co (1) Cr (10) Dy (0.05) Er (0.05) Eu(0.05) Fe(100) Gd (0.2) Ho (0.02) K (100) La (0.5) Lu (0.02) Mg (100) Mn (2) Na (100) Nd (0.05) Ni (2) Pr (0.2) S (50) Sc (1) Si (100) Sm(0.05) Sr (0.5) Th (0.1) Ti (50) Tm (0.2) U (0.1) V (5) Y (0.1) Yb (0.05) Zr (1)* • *Field duplicates were collected and submitted at a frequency of 1 per 36 samples.* • *Bureau Veritas completed its own internal QA/QC checks that included a Laboratory repeat every 21st sample and a standard reference sample every 9th sample prior to the results being released.* • *Analysis of QA/QC samples show the laboratory data to be of acceptable accuracy and precision;* • Australian Rare Earths submitted field standards at a frequency of 1:59 samples. • Australian Rare Earths requested BV insert blank washes at a frequency of 1:40 samples. These blank washes were inserted in the sample sequence behind samples which were thought to be mineralized to ensure that no contamination from higher grade samples was occurring. Frequency of blank samples totaled 1 in 24 samples. *The adopted QA/QC protocols are acceptable for this stage of test work. The sample preparation and assay techniques used are industry standard and provide a total analysis.*
Verification of sampling and assaying	*The verification of significant intersections by either independent or*	• *All results are checked by the company's Technical Director.* • *Field based geological logging for drill*

	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.*	*holes was entered directly into an Excel spreadsheet format with validation rules built into the spreadsheet including specific drop-down menus for each variable. This digital data was then uploaded to the Australian Rare Earths Azure Data Studio database.* • *Assay data was received in digital format from the laboratory and was uploaded Australian Rare Earths Azure Data Studio database.* • *Field and laboratory duplicate data pairs of each batch are plotted to identify potential quality control issues.* • *Standard Reference Material sample results are checked from each sample batch to ensure they are within tolerance (<3SD) and that there is no bias.* • *The field and laboratory data was exported and imported into Datamine by IHC Robbins which is appropriate for this stage in the program. Data validation criteria are included to check for overlapping sample intervals, end of hole match between 'Lithology', 'Sample', 'Survey' files and other common errors.* • *Assay data yielding elemental concentrations for rare earths (REE) within the sample are converted to their stoichiometric oxides (REO) in a calculation performed within the database using the conversion factors in the below table.* • *Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations have been used for reporting throughout this report:* • *Note that Y2O3 is included in the TREO, HREO and CREO calculation.* ***TREO** = La2O3 + CeO2 + Pr6O11 + Nd2O3 + Sm2O3+ Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Lu2O3+ Y2O3* ***CREO** = Nd2O3 + Eu2O3 + Tb4O7 + Dy2O3 + Y2O3* ***LREO** = La2O3 + CeO2 + Pr6O11 + Nd2O3*

		HREO *= 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+ Lu_2O_3 + Y_2O_3 NdPr = Nd_2O_3 + Pr_6O_{11}* ***TREO-Ce*** *= TREO - CeO_2* ***NdPr*** *= Nd + Pr*

Element Oxide	Oxide Factor
CeO2	1.2284
Dy2O3	1.1477
Er2O3	1.1435
Eu2O3	1.1579
Gd2O3	1.1526
Ho2O3	1.1455
La2O3	1.1728
Lu2O3	1.1371
Nd2O3	1.1664
Pr6O11	1.2082
Sc2O3	1.5338
Sm2O3	1.1596
Tb4O7	1.1762
ThO2	1.1379
Tm2O3	1.1421
U3O8	1.1793
Y2O3	1.2699
Yb2O3	1.1387

Location of data points	*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.*	• *Down hole surveys for shallow vertical aircore drill holes are not required.* • *The drill hole collars were located using a GPS unit to identify the positions of the drill holes in the field. The handheld GPS has an accuracy of +/-5m in the horizontal.* • *The datum used is GDA2020/MGA Zone 54.* • *Topographic data over the southern area of the resource (including all Inferred/Indicated/Measured resource areas) is derived from a fixed wing LiDAR survey flown in May 2022 by Aerometrex using their RIEGL VQ-780ii sensor. The LiDAR survey data was captured at a minimum 25 points per meter and flown at a height of 591m to ensure ~10cm vertical*

		accuracy. • *Topographic DTM surface over the northern area of the resource (Frances Exploration Target area) is derived from DGPS drill collar positions at this stage of exploration and the RL has been corrected using An Australian wide SRTM. The 1 second SRTM Level 2 Derived Smoothed Digital Elevation Model (DEM-S) is derived from the 2000 SRTM. The DEM-S has a ~30m grid which has been adaptively smoothed to improve the representation of the surface shape and is the preferred method for shape and vertical accuracy from STRM products.The smoothing process estimated typical improvements in the order of 2-3 m. This would make the DEM-S accuracy to be of approximately 5 m.* • *The accuracy of the locations is sufficient for this stage of exploration.*
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 holes were largely drilled at between 100 m and 400 m spacings along accessible road verges.* • *Drill spacing within paddocks and forested areas was largely completed at 100 m to 120 m spacings, with a small portion of holes drilled at 60 m spacings.* • *The drilling of aircore holes was conducted to determine the regional prospectivity of the wider Koppamurra Project area and for the purposes of generating a mineral resource estimate.* • *No sample compositing has been applied.*
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*	• *The Koppamurra mineralisation is interpreted to be hosted in flay lying clays that are horizontal.* • *All drill holes are vertical which is appropriate for horizontal bedding and regolith profile.* • *The Koppamurra drilling was oriented perpendicular to the strike of mineralisation defined by previous exploration and current geological interpretation.*

	considered to have introduced a sampling bias, this should be assessed and reported if material.	• *The strike of the mineralisation is north south, and the high grades follow a northwest-southeast trend.* • *All drill holes were vertical, and the orientation of the mineralisation is relatively horizontal.* • *The orientation of the drilling is considered appropriate for testing the lateral and vertical extent of mineralisation without any bias.*
Sample security	*The measures taken to ensure sample security.*	• *After logging, the samples in calico bags were tied and placed into polyweave bags, labelled with the drill hole and sample numbers contained within the polyweave and transported to the base of operations, Naracoorte, at the end of each day.* • *The samples were then placed on pallets ready for transport and remained in a secure compound until transport had been arranged. Pallets were labelled and then 'shrink-wrapped' by the transport contractor prior to departure from the Naracoorte base to the analytical laboratory.* • *Samples for analysis were logged against pallet identifiers and a chain of custody form created.* • *Transport to the analytical laboratory was undertaken by an agent for the TOLL Logistics Group, and consignment numbers were logged against the chain of custody forms.* • *The laboratory inspected the packages and did not report tampering of the samples and provided a sample reconciliation report for each sample dispatch.*
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	• *Internal reviews were undertaken by AR3's Exploration Manager and Technical Director during the drilling, sampling, and geological logging process and throughout the sample collection and dispatch process to ensure AR3's protocols were followed.* • *A review of the database was also undertaken by Wallbridge Gilbert Aztec (WGA) – Consulting Engineers.*

Section 2 Reporting of Exploration Results		
Criteria	**Explanation**	**Comment**
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.*	*Koppamurra Project comprises of a granted South Australian Exploration Licences (EL), EL6509, EL6613, EL6690 and EL6691, along with Victorian EL007254 and EL7719 covering a combined area of ~4,000 km2 which is in good standing.* *EL6509 is within 100m of a Glen Roy Conservation Park and the Naracoorte Caves National Park, the latter of which is excised from the tenement. The License area contains several small Extractive Mineral Leases (EML) held by others, Native Vegetation Heritage Agreement areas, as well as the Deadman's Swamp Wetlands which are wetlands of national importance.* *A Native Title Claim by the First Nations of the South East #1 has been registered but is yet to be determined. The claim area includes the areas covered by EL's 6509, 6613, 6690 and 6691.* *The exploration work was completed on the tenements (EL 6509 and EL6613) in South Australia and EL007254 and EL7719 which are 100% owned by the company Australian Rare Earths Ltd.* *The Exploration License EL6509 original date of grant was 15/09/2020 with an expiry date of 14/09/2028.* *The Exploration License EL6613 original date of grant was 07/07/2021 with an expiry date of 05/07/2027.* *The Exploration License EL007254 original date of grant was 29/04/2021 with an expiry date of 28/04/2028.* *The Exploration License EL007719 original date of grant was 29/08/2022 with an expiry date of 29/08/2027.* *Details regarding royalties are discussed in chapter 3.4 of Australian Rare Earths Prospectus dated 7 May 2021.*

Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	*Exploration activities by other exploration companies in the area have not previously targeted or identified REE mineralisation.* *Historical exploration activities in the vicinity of Koppamurra include investigations for coal, gold and base metals, uranium, and heavy mineral sands.* *Historical exploration by other parties is detailed in Chapter 7 of Australian Rare Earths Prospectus dated 7 May 2021.*
Geology	*Deposit type, geological setting and style of mineralisation.*	*The ionic clay hosted REE mineralisation at Koppamurra is hosted by clayey sediments interpreted to have been deposited onto a limestone base (Gambier Limestone) and accumulated in an interdunal, lagoonal or estuarine environment which has been extensively mapped east of the Kanawinka fault in SE SA. A dedicated post-doctoral research program investigating the source of the REE at Koppamurra is ongoing, with no definitive source of the REE confirmed to date although preliminary results of this study have ruled out the alkali volcanics in south-eastern Australia which was originally considered. Mineralogical test work conducted on clay samples from the project area established that the dominant clay minerals are smectite and kaolin, and that the few REE-rich minerals detected during the scanning electron microscope (SEM) investigation were not considered inconsistent with the suggestion that a significant proportion of REE are distributed in the material as adsorbed elements on clay and iron oxide surfaces.*
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 –*	*The material information for drill holes relating to this report are contained within Appendices of this release.*

	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.*	
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg 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.*	*No metal equivalents have been used.* *Significant intercepts are calculated using downhole sample length weighted averages and a lower cut-off grade of 325 ppm TREO.* *A full list of drill holes with significant intercepts >325 ppm TREO can be found in the appendices of this release.*
Relationship between mineralisatio	*These relationships are particularly important in the reporting of*	*All intercepts reported are down hole lengths.*

n widths and intercept lengths	*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').*	*The mineralisation is interpreted to be flat lying. Morphology of the mineralised unit is influenced by the morphology of the undulating limestone basement below. Drilling is vertical perpendicular to mineralisation. Any internal variations to REE distribution within the horizontal layering was not defined, therefore the true width is considered 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.*	*Diagrams are included in the body of this release.*
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 release 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*	*All known relevant exploration data has been reported in this release.*

	characteristics; potential deleterious or contaminating substances.	
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.*	*AR3 intend to continue to define the Koppamurra resource during 2023. This will include (but not limited to) drilling, assay, ground based geophysical surveys and further metallurgical testwork.*

Hole ID	From (m)	To (m)	Width (m)	TREO (ppm)	Pr_6O_{11} ppm	Pr_6O_{11} TREO %	Nd_2O_3 ppm	Nd_2O_3 TREO %	Tb_4O_7 ppm	Tb_4O_7 TREO %	Dy_2O_3 ppm	Dy_2O_3 TREO %
KM4680	11	12	1	678	29	4.3	114	16.8	3	0.4	17	2.5
KM4681	10	12	2	1077	42	3.9	176	16.3	6	0.5	33	3
KM4683	9	12	3	716	33	4.6	128	17.9	3	0.4	16	2.2
KM4685	9	11	2	1473	66	4.5	262	17.8	7	0.5	38	2.6
KM4686	10	13	3	1207	52	4.3	217	18	5	0.4	29	2.4
KM4687	9	12	3	782	36	4.7	146	18.7	3	0.4	18	2.3
KM4688	8	10	2	476	16	3.3	64	13.4	2	0.4	10	2.2
KM4689	9	12	3	615	23	3.8	95	15.4	3	0.4	16	2.7
KM4690	11	12	1	595	21	3.5	85	14.3	2	0.4	13	2.2
KM4691	24	25	1	423	12	2.9	53	12.5	2	0.5	13	3.1
KM4692	9	10	1	700	30	4.4	118	16.8	3	0.4	15	2.2
KM4693	7	8	1	915	40	4.4	155	17	3	0.4	19	2.1
KM4694	7	9	2	559	22	4	87	15.6	3	0.5	15	2.7
KM4695	7	9	2	545	21	3.9	89	16.3	3	0.6	20	3.7
KM4696	4	5	1	484	20	4.2	79	16.3	3	0.5	14	2.8
KM4697	10	12	2	2882	127	4.4	463	16	10	0.3	53	1.8
KM4698	6	8	2	393	17	4.3	64	16.3	2	0.4	8	2.1
KM4699	7	9	2	714	36	5	132	18.4	2	0.3	12	1.7
KM4699	1	2	1	387	16	4.2	61	15.8	1	0.4	8	2.1
KM4700	8	10	2	440	17	3.8	68	15.5	2	0.5	13	3
KM4701	9	10	1	617	23	3.8	94	15.2	3	0.4	16	2.5
KM4703	14	17	3	558	25	4.5	89	16	2	0.3	10	1.8
KM4704	8	9	1	847	33	3.9	133	15.7	3	0.4	17	2
KM4705	10	11	1	352	16	4.5	58	16.5	1	0.3	6	1.6
KM4706	12	14	2	682	31	4.5	127	18.6	3	0.4	16	2.3
KM4707	11	12	1	722	29	4	112	15.5	3	0.4	16	2.2
KM4708	9	12	3	907	42	4.7	168	18.5	4	0.5	22	2.5
KM4709	10	11	1	573	24	4.2	88	15.4	2	0.4	14	2.4
KM4710	21	22	1	1124	59	5.3	225	20	4	0.3	17	1.5
KM4711	8	10	2	524	22	4.1	81	15.5	2	0.4	12	2.2
KM4712	8	9	1	792	38	4.8	145	18.3	3	0.4	18	2.2
KM4713	8	10	2	1242	53	4.2	205	16.5	5	0.4	29	2.3
KM4714	11	13	2	742	33	4.4	126	17	3	0.4	17	2.3
KM4715	7	8	1	1456	75	5.2	271	18.6	5	0.4	30	2
KM4716	2	5	3	609	23	3.8	85	14	2	0.4	16	2.6
KM4717	3	6	3	739	35	4.7	127	17.1	3	0.4	17	2.3
KM4718	5	9	4	404	17	4.2	63	15.6	2	0.4	10	2.5
KM4719	4	6	2	610	32	5.3	116	19	2	0.4	15	2.5
KM4720	4	6	2	472	21	4.4	80	16.9	2	0.4	13	2.7
KM4721	1	5	4	786	36	4.6	138	17.5	3	0.4	20	2.6
KM4723	2	4	2	628	28	4.4	103	16.4	3	0.4	18	2.9
KM4725	4	6	2	751	31	4.2	114	15.2	2	0.3	15	2
KM4726	6	7	1	1006	57	5.7	216	21.5	4	0.4	22	2.1
KM4727	13	14	1	574	23	4.1	90	15.7	2	0.4	13	2.3
KM4727	8	12	4	1669	65	3.9	255	15.3	6	0.4	37	2.2
KM4728	7	8	1	1291	56	4.4	203	15.7	4	0.3	25	1.9
KM4729	3	4	1	611	19	3.2	77	12.5	3	0.4	17	2.9
KM4731	3	5	2	592	27	4.6	97	16.3	3	0.4	16	2.7
KM4732	10	12	2	751	34	4.5	134	17.8	3	0.4	17	2.3
KM4733	3	5	2	578	18	3.1	75	13	3	0.5	16	2.8
KM4733	1	2	1	412	13	3.1	56	13.6	2	0.5	13	3.2
KM4734	4	6	2	1061	49	4.6	199	18.7	5	0.4	27	2.5
KM4736	6	10	4	1450	68	4.7	264	18.2	6	0.4	33	2.2
KM4737	4	6	2	970	42	4.3	158	16.3	4	0.4	21	2.2
KM4739	6	9	3	642	24	3.7	95	14.8	3	0.4	15	2.4
KM4740	13	14	1	450	18	4.1	76	16.9	2	0.4	9	2
KM4740	7	11	4	654	24	3.7	96	14.7	3	0.4	14	2.1
KM4740	5	6	1	388	12	3.1	54	13.8	2	0.6	13	3.3
KM4741	3	4	1	457	20	4.3	81	17.8	2	0.5	13	2.9
KM4742	3	4	1	637	21	3.3	87	13.7	3	0.5	18	2.8
KM4742	1	2	1	540	18	3.4	71	13.2	2	0.4	11	2.1
KM4743	1	4	3	639	24	3.7	95	15	3	0.4	14	2.2
KM4745	1	3	2	659	30	4.6	119	18.1	3	0.5	17	2.6
KM4746	5	7	2	1147	50	4.3	196	17.1	5	0.4	28	2.5
KM4747	3	4	1	1719	67	3.9	260	15.1	8	0.4	42	2.5
KM4749	5	9	4	555	29	5.1	99	17.9	2	0.4	11	2
KM4750	2	5	3	1330	64	4.8	229	17.2	5	0.4	26	2
KM4751	5	6	1	1244	47	3.8	167	13.4	5	0.4	29	2.4

KM4752	7	10	3	1346	60	4.5	220	16.3	6	0.4	31	2.3
KM4753	5	6	1	2120	104	4.9	367	17.3	7	0.3	37	1.7
KM4755	4	6	2	498	20	4.1	76	15.2	3	0.5	14	2.8
KM4756	4	7	3	897	34	3.8	133	14.9	4	0.5	25	2.8
KM4757	4	6	2	1215	64	5.3	235	19.3	6	0.5	31	2.5
KM4758	3	5	2	594	30	5	102	17.2	2	0.4	12	2
KM4759	6	8	2	842	30	3.6	112	13.3	3	0.4	20	2.3
KM4760	3	5	2	1024	38	3.7	140	13.7	5	0.5	28	2.7
KM4762	2	4	2	572	23	4	86	15	3	0.4	15	2.6
KM4763	3	4	1	566	20	3.6	79	14	3	0.5	19	3.3
KM4764	5	6	1	1234	65	5.3	232	18.8	5	0.4	23	1.9
KM4765	4	5	1	468	23	4.8	83	17.6	2	0.4	11	2.4
KM4766	7	8	1	376	20	5.2	73	19.4	2	0.4	8	2.1
KM4767	4	6	2	2029	134	6.6	481	23.7	8	0.4	40	2
KM4768	5	8	3	1122	51	4.6	195	17.4	5	0.5	29	2.6
KM4769	5	7	2	576	22	3.9	91	15.7	3	0.5	18	3.1
KM4770	4	6	2	2066	94	4.6	360	17.4	9	0.5	52	2.5
KM4771	4	5	1	697	26	3.7	103	14.8	3	0.5	20	2.8
KM4772	4	5	1	1645	73	4.4	271	16.4	7	0.4	40	2.4
KM4773	7	8	1	3001	141	4.7	530	17.6	11	0.4	60	2
KM4774	8	9	1	849	38	4.5	150	17.7	4	0.4	19	2.3
KM4776	7	8	1	608	28	4.7	104	17.1	3	0.4	14	2.3
KM4777	4	6	2	931	42	4.5	157	16.9	4	0.4	21	2.3
KM4778	2	5	3	576	25	4.3	93	16.1	3	0.5	15	2.7
KM4779	3	5	2	519	22	4.2	81	15.7	2	0.4	11	2.2
KM4780	3	5	2	798	41	5.1	147	18.5	3	0.4	17	2.2
KM4781	5	7	2	581	27	4.6	97	16.7	2	0.4	14	2.3
KM4782	12	13	1	360	13	3.7	51	14	2	0.5	10	2.7
KM4783	10	12	2	650	26	4	101	15.5	3	0.5	19	2.9
KM4784	7	8	1	381	14	3.7	57	15.1	3	0.7	17	4.4
KM4784	5	6	1	363	16	4.5	63	17.5	2	0.6	13	3.5
KM4785	12	14	2	419	12	2.8	46	10.9	2	0.4	10	2.5
KM4786	10	11	1	450	9	2	38	8.5	2	0.4	11	2.4
KM4787	11	12	1	1382	49	3.5	183	13.3	5	0.3	27	1.9
KM4788	12	13	1	1972	84	4.2	314	15.9	8	0.4	46	2.3
KM4789	10	12	2	805	30	3.8	118	14.6	4	0.5	24	2.9
KM4790	5	6	1	1347	54	4	208	15.4	7	0.5	39	2.9
KM4791	13	15	2	1834	74	4.1	268	14.6	6	0.3	33	1.8
KM4792	13	16	3	1044	40	3.8	164	15.7	5	0.5	33	3.1
KM4793	14	15	1	1258	49	3.9	197	15.7	6	0.4	31	2.4
KM4794	12	14	2	949	40	4.2	157	16.5	4	0.4	22	2.3
KM4796	12	16	4	1256	46	3.7	180	14.3	6	0.5	34	2.7
KM4797	8	11	3	932	34	3.7	132	14.2	4	0.4	23	2.4
KM4798	8	9	1	456	18	4	71	15.6	2	0.5	12	2.6
KM4799	4	6	2	640	27	4.2	102	16	3	0.5	19	2.9
KM4800	1	4	3	662	24	3.7	88	13.3	3	0.4	14	2.1
KM4801	6	7	1	660	22	3.4	85	12.9	3	0.5	19	2.9
KM4802	8	11	3	1063	42	3.9	160	15.1	5	0.4	28	2.6
KM4803	7	8	1	809	36	4.4	122	15.1	2	0.3	13	1.6
KM4803	5	6	1	636	25	4	61	9.6	1	0.1	3	0.5
KM4804	10	13	3	1811	84	4.6	325	17.9	8	0.5	44	2.4
KM4805	12	16	4	1031	39	3.8	156	15.2	5	0.5	33	3.2
KM4806	11	14	3	1083	52	4.8	198	18.3	5	0.5	29	2.7
KM4807	9	12	3	623	31	5	115	18.5	3	0.5	16	2.6
KM4808	8	10	2	2813	184	6.5	707	25.1	13	0.5	64	2.3
KM4809	2	4	2	446	20	4.5	76	17	2	0.4	10	2.3
KM4810	10	12	2	1049	58	5.5	229	21.8	6	0.6	34	3.2
KM4811	10	13	3	1180	59	5	219	18.6	5	0.4	27	2.3
KM4812	11	13	2	1150	54	4.7	202	17.5	4	0.4	23	2
KM4813	6	7	1	370	11	2.9	41	11	1	0.4	9	2.5
KM4814	6	8	2	1416	100	7.1	349	24.7	5	0.4	25	1.8
KM4814	4	5	1	431	17	4	62	14.4	1	0.3	7	1.5
KM4815	6	8	2	449	14	3.1	57	12.8	2	0.5	13	2.9
KM4816	7	8	1	502	20	3.9	79	15.7	2	0.4	13	2.6
KM4817	15	17	2	1121	52	4.6	195	17.4	5	0.4	27	2.4
KM4818	4	6	2	468	17	3.6	66	14.1	2	0.4	11	2.4
KM4819	11	14	3	970	39	4	149	15.4	5	0.5	26	2.7
KM4820	2	6	4	2015	106	5.3	401	19.9	8	0.4	41	2.1
KM4821	6	10	4	981	48	4.9	176	18	4	0.4	19	1.9

KM4821	3	4	1	479	27	5.7	106	22.1	2	0.5	11	2.4
KM4821	0	1	1	412	18	4.5	70	17.1	2	0.4	9	2.2
KM4822	7	9	2	1126	43	3.9	171	15.2	6	0.5	32	2.8
KM4823	11	12	1	761	28	3.6	118	15.5	3	0.4	20	2.7
KM4824	8	9	1	2586	135	5.2	565	21.8	12	0.5	72	2.8
KM4825	10	11	1	512	24	4.6	98	19.2	2	0.5	14	2.8
KM4826	8	11	3	871	33	3.7	140	16.1	4	0.4	25	2.8
KM4827	8	12	4	919	35	3.8	144	15.6	4	0.4	23	2.5
KM4829	8	10	2	1840	70	3.8	282	15.4	7	0.4	45	2.4
KM4830	7	9	2	1636	78	4.8	318	19.5	7	0.4	43	2.6
KM4831	9	10	1	1030	40	3.8	153	14.8	4	0.4	23	2.3
KM4832	15	16	1	570	23	4	94	16.4	3	0.5	18	3.1
KM4832	12	13	1	641	27	4.2	103	16.1	3	0.4	18	2.8
KM4832	9	11	2	441	20	4.5	62	14	1	0.3	8	1.7
KM4833	8	9	1	698	37	5.3	152	21.7	4	0.6	24	3.5
KM4833	4	7	3	1039	54	5.2	214	20.5	5	0.4	27	2.6
KM4834	6	9	3	895	30	3.3	123	13.7	3	0.4	22	2.5
KM4835	10	15	5	570	25	4.5	104	18.2	2	0.4	15	2.7
KM4836	8	9	1	712	32	4.5	122	17.2	3	0.4	16	2.3
KM4836	6	7	1	2390	115	4.8	421	17.6	10	0.4	50	2.1
KM4837	8	9	1	436	19	4.3	73	16.7	2	0.4	9	2
KM4837	4	6	2	1427	70	4.9	256	17.9	6	0.4	32	2.2
KM4838	6	9	3	1473	60	4.1	228	15.5	6	0.4	34	2.3
KM4839	4	6	2	628	20	3.1	77	12.2	2	0.4	13	2.1
KM4840	9	14	5	808	34	4.2	130	16.1	4	0.5	21	2.6
KM4841	2	4	2	1022	24	2.4	98	9.5	3	0.3	19	1.9
KM4842	7	9	2	1171	44	3.8	171	14.6	5	0.4	25	2.2
KM4843	4	6	2	944	44	4.7	168	17.8	5	0.5	26	2.7
KM4846	15	17	2	643	30	4.6	111	17.3	2	0.4	12	1.9
KM4846	13	14	1	395	11	2.8	47	11.8	2	0.4	10	2.6
KM4847	10	13	3	1208	62	5.1	235	19.5	6	0.5	32	2.7
KM4848	7	8	1	406	16	4	65	16	2	0.5	10	2.6
KM4849	12	15	3	730	35	4.8	135	18.5	3	0.4	17	2.4
KM4850	6	8	2	398	14	3.5	53	13.4	2	0.4	10	2.5
KM4851	6	8	2	1678	59	3.5	255	15.2	7	0.4	41	2.5
KM4869	7	11	4	740	33	4.4	129	17.4	3	0.4	19	2.5
KM4870	8	9	1	782	33	4.2	127	16.3	3	0.4	18	2.2
KM4871	9	12	3	923	43	4.7	172	18.7	4	0.4	23	2.5
KM4873	9	11	2	707	36	5.1	138	19.5	3	0.4	17	2.5
KM4874	12	15	3	624	32	5.2	120	19.1	2	0.4	15	2.5
KM4876	14	17	3	667	33	4.9	127	19	3	0.4	15	2.3
KM4877	14	15	1	769	32	4.1	124	16.1	3	0.3	14	1.9
KM4878	11	13	2	375	16	4.3	59	15.8	1	0.3	8	2
KM4879	12	16	4	1208	57	4.8	218	18	5	0.4	32	2.7
KM4880	12	17	5	549	23	4.1	85	15.5	2	0.4	13	2.3
KM4881	2	3	1	1391	32	2.3	125	9	4	0.3	28	2
KM4883	4	6	2	2051	90	4.4	353	17.2	8	0.4	44	2.1
KM4883	2	3	1	1035	47	4.6	187	18	5	0.5	30	2.9
KM4884	17	18	1	643	34	5.3	122	19	2	0.3	11	1.7
KM4884	0	1	1	619	28	4.5	110	17.7	2	0.4	13	2.2
KM4893	10	11	1	1029	68	6.6	250	24.3	4	0.4	18	1.8
KM4893	2	3	1	406	14	3.5	53	13.1	1	0.3	8	2.1
KM4894	6	7	1	359	13	3.6	52	14.5	2	0.5	12	3.3
KM4896	1	2	1	409	15	3.7	55	13.5	2	0.4	8	2
KM4897	13	15	2	461	16	3.6	63	13.7	2	0.4	10	2.2
KM4898	19	21	2	1778	97	5.5	356	20	6	0.4	34	1.9
KM4898	0	2	2	392	19	4.9	70	18	2	0.4	9	2.3

Hole ID	East (m)	North (m)	RL (m ASL)	Drill Method	Down Hole Width (mm)	Total Depth EOH (m)	Azimuth	Dip Direction
KM4677	481484	5932988	96.2	Aircore	76	18	0	-90
KM4678	481492	5933231	89.1	Aircore	76	27	0	-90
KM4679	481485	5933470	93.8	Aircore	76	24	0	-90
KM4680	481717	5933472	93.2	Aircore	76	12	0	-90
KM4681	481714	5933232	92.3	Aircore	76	15	0	-90
KM4682	481716	5932994	90.7	Aircore	76	27	0	-90
KM4683	481960	5932988	95.4	Aircore	76	15	0	-90
KM4684	481966	5933211	93.4	Aircore	76	12	0	-90
KM4685	481959	5933468	92.9	Aircore	76	12	0	-90
KM4686	482201	5933473	93.1	Aircore	76	15	0	-90
KM4687	482199	5933229	94.1	Aircore	76	12	0	-90
KM4688	482197	5932985	94.6	Aircore	76	12	0	-90
KM4689	482441	5933464	94.3	Aircore	76	12	0	-90
KM4690	482441	5933232	96.6	Aircore	76	15	0	-90
KM4691	482435	5932992	99	Aircore	76	27	0	-90
KM4692	482692	5932992	95.9	Aircore	76	12	0	-90
KM4693	482670	5933235	95.2	Aircore	76	12	0	-90
KM4694	482676	5933473	93.7	Aircore	76	12	0	-90
KM4695	482919	5933469	96.5	Aircore	76	12	0	-90
KM4696	482912	5933193	96.2	Aircore	76	9	0	-90
KM4697	482912	5932992	96.1	Aircore	76	15	0	-90
KM4698	482179	5933705	94.7	Aircore	76	9	0	-90
KM4699	482165	5933955	95.7	Aircore	76	12	0	-90
KM4700	481970	5933941	93.9	Aircore	76	12	0	-90
KM4701	481950	5933707	95.4	Aircore	76	12	0	-90
KM4702	481719	5933709	91.4	Aircore	76	27	0	-90
KM4703	481479	5933709	92.3	Aircore	76	18	0	-90
KM4704	482916	5933713	95.2	Aircore	76	12	0	-90
KM4705	482919	5933949	95.7	Aircore	76	12	0	-90
KM4706	482680	5933951	94.2	Aircore	76	15	0	-90
KM4707	482671	5933711	91.9	Aircore	76	15	0	-90
KM4708	482444	5933707	90.5	Aircore	76	15	0	-90
KM4709	482440	5933951	93.1	Aircore	76	12	0	-90
KM4710	482926	5934191	94.4	Aircore	76	27	0	-90
KM4711	482797	5934433	96.5	Aircore	76	12	0	-90
KM4712	482681	5934424	91.3	Aircore	76	12	0	-90
KM4713	489997	5887985	81.2	Aircore	76	11	0	-90
KM4714	490113	5887890	81.9	Aircore	76	13	0	-90
KM4715	490225	5887851	82.4	Aircore	76	10	0	-90
KM4716	490363	5887817	83.7	Aircore	76	6	0	-90
KM4717	490468	5887789	84.5	Aircore	76	9	0	-90
KM4718	490594	5887758	84.6	Aircore	76	9	0	-90
KM4719	491298	5887504	87.6	Aircore	76	6	0	-90
KM4720	491305	5887260	85.5	Aircore	76	6	0	-90
KM4721	491083	5887265	85.3	Aircore	76	6	0	-90
KM4722	491073	5887503	86	Aircore	76	18	0	-90
KM4723	490839	5887510	85.6	Aircore	76	6	0	-90
KM4724	490847	5887271	83.6	Aircore	76	18	0	-90
KM4725	490668	5887267	84	Aircore	76	9	0	-90
KM4726	490612	5887530	84.8	Aircore	76	9	0	-90
KM4727	490357	5887513	83	Aircore	76	15	0	-90
KM4728	490116	5887752	81.9	Aircore	76	9	0	-90
KM4729	489879	5887731	83.5	Aircore	76	6	0	-90
KM4730	489637	5887738	81.2	Aircore	76	18	0	-90
KM4731	490604	5888478	84.6	Aircore	76	6	0	-90
KM4732	490596	5888716	83.8	Aircore	76	18	0	-90

KM4733	490834	5888709	85.5	Aircore	76	7	0	-90
KM4734	490834	5888481	85.3	Aircore	76	8	0	-90
KM4735	491078	5888716	84.2	Aircore	76	18	0	-90
KM4736	492040	5888227	88.9	Aircore	76	12	0	-90
KM4737	491556	5888228	86	Aircore	76	7	0	-90
KM4738	491340	5888225	86.9	Aircore	76	12	0	-90
KM4739	492281	5888240	88.2	Aircore	76	10	0	-90
KM4740	492518	5888229	90.1	Aircore	76	18	0	-90
KM4741	492518	5888471	89.8	Aircore	76	6	0	-90
KM4742	492658	5888475	90.8	Aircore	76	6	0	-90
KM4743	492631	5888231	90	Aircore	76	9	0	-90
KM4744	492758	5888232	91.2	Aircore	76	14	0	-90
KM4745	492759	5888472	92.2	Aircore	76	6	0	-90
KM4746	492996	5888228	92	Aircore	76	9	0	-90
KM4747	492998	5888472	92	Aircore	76	6	0	-90
KM4748	492998	5888707	91.8	Aircore	76	18	0	-90
KM4749	492758	5888949	90.7	Aircore	76	12	0	-90
KM4750	492523	5889198	89.8	Aircore	76	6	0	-90
KM4751	492520	5888953	89.8	Aircore	76	6	0	-90
KM4752	492278	5888954	88.9	Aircore	76	12	0	-90
KM4753	492277	5889184	89.2	Aircore	76	9	0	-90
KM4754	492040	5889193	87.9	Aircore	76	18	0	-90
KM4755	492039	5888949	88.5	Aircore	76	9	0	-90
KM4756	491800	5888948	89.1	Aircore	76	9	0	-90
KM4757	491798	5889188	87.9	Aircore	76	8	0	-90
KM4758	491538	5888943	85.9	Aircore	76	5	0	-90
KM4759	491683	5889191	88	Aircore	76	9	0	-90
KM4760	491555	5889426	87.4	Aircore	76	6	0	-90
KM4761	491351	5888952	85.4	Aircore	76	6	0	-90
KM4762	491201	5889181	84.1	Aircore	76	6	0	-90
KM4763	490837	5888896	84.8	Aircore	76	6	0	-90
KM4764	491023	5888809	83.6	Aircore	76	11	0	-90
KM4765	491326	5888707	85.8	Aircore	76	7	0	-90
KM4766	491507	5888777	86.5	Aircore	76	9	0	-90
KM4767	491870	5888780	89.3	Aircore	76	9	0	-90
KM4768	492031	5888778	89	Aircore	76	8	0	-90
KM4769	492036	5888465	89.4	Aircore	76	9	0	-90
KM4770	491862	5888458	87.9	Aircore	76	9	0	-90
KM4771	492251	5888791	88.6	Aircore	76	9	0	-90
KM4772	492520	5888800	89	Aircore	76	6	0	-90
KM4773	490595	5888943	84.2	Aircore	76	12	0	-90
KM4774	490362	5889071	83.1	Aircore	76	11	0	-90
KM4775	490124	5889071	82.4	Aircore	76	9	0	-90
KM4776	490119	5889209	81.7	Aircore	76	9	0	-90
KM4777	490362	5889188	82.4	Aircore	76	9	0	-90
KM4778	490600	5889081	84	Aircore	76	6	0	-90
KM4779	490341	5889345	81.5	Aircore	76	6	0	-90
KM4780	490119	5889419	81.6	Aircore	76	6	0	-90
KM4781	490120	5889661	81.2	Aircore	76	9	0	-90
KM4782	494438	5891827	97.8	Aircore	76	15	0	-90
KM4783	494438	5892067	97.4	Aircore	76	15	0	-90
KM4784	493720	5892069	94	Aircore	76	9	0	-90
KM4785	493719	5892305	93.6	Aircore	76	18	0	-90
KM4786	493473	5892069	92.9	Aircore	76	15	0	-90
KM4787	493470	5892286	92.5	Aircore	76	14	0	-90
KM4788	493238	5892305	91.5	Aircore	76	15	0	-90
KM4789	493244	5892077	91.9	Aircore	76	15	0	-90

KM4790	493003	5892071	91.2	Aircore	76	9	0	-90
KM4791	492998	5892301	91	Aircore	76	15	0	-90
KM4792	492768	5892307	90.7	Aircore	76	18	0	-90
KM4793	492754	5892427	89.9	Aircore	76	18	0	-90
KM4794	492521	5892544	88	Aircore	76	15	0	-90
KM4795	492518	5892304	87.2	Aircore	76	18	0	-90
KM4796	492524	5892074	88.1	Aircore	76	18	0	-90
KM4797	492762	5892058	90.4	Aircore	76	12	0	-90
KM4798	492528	5891224	85.9	Aircore	76	12	0	-90
KM4799	492523	5891104	87.2	Aircore	76	9	0	-90
KM4800	492520	5890997	87.9	Aircore	76	6	0	-90
KM4801	492294	5891099	85.8	Aircore	76	9	0	-90
KM4802	492748	5891004	88.9	Aircore	76	12	0	-90
KM4803	492841	5891399	89	Aircore	76	9	0	-90
KM4804	492888	5891597	90.6	Aircore	76	15	0	-90
KM4805	492942	5891841	90.9	Aircore	76	17	0	-90
KM4806	493255	5891947	91.8	Aircore	76	14	0	-90
KM4807	493477	5891896	92.8	Aircore	76	12	0	-90
KM4808	493712	5891842	93.7	Aircore	76	12	0	-90
KM4809	493980	5891769	96.1	Aircore	76	6	0	-90
KM4810	494207	5891729	96.6	Aircore	76	12	0	-90
KM4811	494207	5891593	97	Aircore	76	15	0	-90
KM4812	494197	5891350	95.2	Aircore	76	15	0	-90
KM4813	493957	5891355	94	Aircore	76	12	0	-90
KM4814	493967	5891586	95.8	Aircore	76	12	0	-90
KM4815	493721	5891586	94	Aircore	76	12	0	-90
KM4816	493720	5891354	93.9	Aircore	76	9	0	-90
KM4817	494439	5891106	96.6	Aircore	76	18	0	-90
KM4818	494195	5890883	94.9	Aircore	76	9	0	-90
KM4819	494209	5891112	94.3	Aircore	76	15	0	-90
KM4820	493963	5891110	92.9	Aircore	76	9	0	-90
KM4821	493958	5890869	93	Aircore	76	12	0	-90
KM4822	493716	5890867	92.4	Aircore	76	12	0	-90
KM4823	493719	5891107	92.2	Aircore	76	15	0	-90
KM4824	493482	5890838	92.2	Aircore	76	12	0	-90
KM4825	493215	5890622	92.4	Aircore	76	12	0	-90
KM4826	493715	5890608	93.2	Aircore	76	12	0	-90
KM4827	493962	5890606	94.1	Aircore	76	15	0	-90
KM4828	493705	5890376	94.4	Aircore	76	12	0	-90
KM4829	493716	5890153	94.1	Aircore	76	12	0	-90
KM4830	493962	5890394	95.4	Aircore	76	12	0	-90
KM4831	493967	5890151	96.6	Aircore	76	12	0	-90
KM4832	494198	5890390	96.5	Aircore	76	18	0	-90
KM4833	494438	5890392	97.6	Aircore	76	12	0	-90
KM4834	494549	5890269	98.9	Aircore	76	14	0	-90
KM4835	494441	5890095	99.6	Aircore	76	18	0	-90
KM4836	494441	5889674	101.5	Aircore	76	9	0	-90
KM4837	494199	5889921	99.1	Aircore	76	9	0	-90
KM4838	493960	5889892	97	Aircore	76	9	0	-90
KM4839	494442	5889431	102.5	Aircore	76	6	0	-90
KM4840	494662	5889431	104.8	Aircore	76	15	0	-90
KM4841	494917	5889431	106.1	Aircore	76	9	0	-90
KM4842	494623	5890395	99.8	Aircore	76	12	0	-90
KM4843	494918	5890511	100.4	Aircore	76	9	0	-90
KM4844	495158	5890513	102	Aircore	76	12	0	-90
KM4845	494923	5890609	100.2	Aircore	76	18	0	-90
KM4846	494437	5890609	96.6	Aircore	76	18	0	-90

KM4847	494206	5890609	95.5	Aircore	76	15	0	-90
KM4848	494625	5890632	97.7	Aircore	76	12	0	-90
KM4849	494617	5890879	97.9	Aircore	76	18	0	-90
KM4850	494614	5891069	98.2	Aircore	76	12	0	-90
KM4851	492999	5891110	89.9	Aircore	76	9	0	-90
KM4852	493986	5883117	100.1	Aircore	76	6	0	-90
KM4853	493893	5883119	100.5	Aircore	76	6	0	-90
KM4854	493781	5883117	97.6	Aircore	76	18.5	0	-90
KM4855	493681	5883115	101.3	Aircore	76	6	0	-90
KM4856	493487	5883121	100.1	Aircore	76	6	0	-90
KM4857	493589	5884320	97.9	Aircore	76	8	0	-90
KM4858	493391	5884337	94.5	Aircore	76	6	0	-90
KM4859	493795	5884519	97.3	Aircore	76	9	0	-90
KM4860	493990	5884519	101.7	Aircore	76	6	0	-90
KM4861	494184	5884516	105.5	Aircore	76	9	0	-90
KM4862	494388	5884307	101	Aircore	76	6	0	-90
KM4863	496209	5878758	107.4	Aircore	76	13	0	-90
KM4864	496095	5878784	104.1	Aircore	76	9	0	-90
KM4865	496006	5878784	105.5	Aircore	76	9	0	-90
KM4866	495702	5878873	105.8	Aircore	76	12	0	-90
KM4867	495448	5878896	105.5	Aircore	76	6	0	-90
KM4868	495202	5878876	101.2	Aircore	76	9	0	-90
KM4869	495640	5891824	108.3	Aircore	76	18	0	-90
KM4870	495653	5891597	106.3	Aircore	76	12	0	-90
KM4871	495638	5891356	105.6	Aircore	76	15	0	-90
KM4872	495400	5891350	105.5	Aircore	76	17	0	-90
KM4873	496120	5891826	103.8	Aircore	76	12	0	-90
KM4874	496123	5891588	105.9	Aircore	76	18	0	-90
KM4875	496351	5891595	105.6	Aircore	76	15	0	-90
KM4876	496831	5891586	104.9	Aircore	76	17	0	-90
KM4877	497323	5891594	106.7	Aircore	76	18	0	-90
KM4878	496839	5891118	107.3	Aircore	76	15	0	-90
KM4879	496602	5891120	106.7	Aircore	76	18	0	-90
KM4880	496366	5891190	108.3	Aircore	76	18	0	-90
KM4881	496116	5891347	109.5	Aircore	76	6	0	-90
KM4882	495886	5891599	106.1	Aircore	76	18	0	-90
KM4883	495873	5891827	106.4	Aircore	76	6	0	-90
KM4884	496596	5891588	105.3	Aircore	76	18	0	-90
KM4885	494579	5889184	103.4	Aircore	76	12	0	-90
KM4886	494304	5889084	100	Aircore	76	12	0	-90
KM4887	495946	5884903	110	Aircore	76	3	0	-90
KM4888	496146	5884921	109.4	Aircore	76	6	0	-90
KM4889	496256	5884921	111.1	Aircore	76	6	0	-90
KM4890	496548	5884915	109.2	Aircore	76	3	0	-90
KM4891	496742	5884916	106.1	Aircore	76	7	0	-90
KM4892	496948	5885317	111.5	Aircore	76	14	0	-90
KM4893	490285	5915369	94.5	Aircore	76	15	0	-90
KM4894	490954	5915234	88.5	Aircore	76	9	0	-90
KM4895	491686	5915296	100.6	Aircore	76	12	0	-90
KM4896	492084	5915326	102	Aircore	76	18	0	-90
KM4897	492185	5915335	102.4	Aircore	76	15	0	-90
KM4898	492297	5915348	108.7	Aircore	76	22	0	-90
KM4899	494300	5880364	100	Aircore	76	28	0	-90
KM4900	494481	5880375	101.7	Aircore	76	9	0	-90
KM4901	496947	5885314	111.4	Aircore	76	21	0	-90
KM4902	497251	5885316	114.2	Aircore	76	12	0	-90
KM4903	496647	5885315	109.6	Aircore	76	9	0	-90

KM4904	496552	5885320	107.1	Aircore	76	14	0	-90
KM4905	496519	5882212	110.1	Aircore	76	12	0	-90
KM4906	496730	5882221	110.1	Aircore	76	12	0	-90
KM4907	496917	5882214	111.6	Aircore	76	15	0	-90
KM4908	497113	5882219	114.7	Aircore	76	12	0	-90
KM4909	493354	5889188	94.9	Aircore	76	6	0	-90
KM4910	491276	5889469	84.3	Aircore	76	5	0	-90
KM4911	491078	5889290	84.1	Aircore	76	9	0	-90