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Australian Securities Exchange
20 Bridge Street
Sydney NSW 2000

ASX RELEASE

Quarterly Activities Report for period ended 30 June 2024

Australian Mines Limited ("Australian Mines" or "the Company") is pleased to provide its Quarterly Activities Report for the period ending 30 June 2024.

During the period the Company continued its diversification into Brazil. This strategy provides shareholders exposure to the potential discovery of further Tier 1 assets, within the battery metals sector. The Company implemented this strategy to counterbalance its exposure to the nickel and cobalt markets, which are currently experiencing a downturn.

Key Activities during the Quarter.

- Completed 2 exploration programmes at the Resende Lithium project resulting in the discovery of Rare Earths, Tin, Tantalum and Lithium prospective basins.[1]
- Completed a 3rd exploration program of soil and rock chip sampling at Jequie North and Jequie South Rare Earth/ Niobium projects resulting in the identification of 2 priority targets for follow up Auger drilling[2]
- Provided a market update on AUZ Hydrogen Storage project, the new metal hydride developed by AUZ which shows significant improvements which may allow the development of hydrogen storage systems that exceed the energy storage capabilities of both hydrogen compressed to 700bar and liquid hydrogen.[3]

[1] See ASX announcements dated 22 May 2024 and 11 June 2024
[2] The results thereof are contained within this Quarterly Report
[3] See ASX announcements dated 13 May 2024

The Company ended the quarter with a cash balance of $4,491,872.

Rare Earth/ Niobium Exploration - Brazil

The Jequie North and South Project Areas and associated targets have been prioritised based on enhanced measured outcrop radioactivity associated with favourable host lithologies (charnockites, leucogranite and monazites). These rocks are coincident with elevated airborne Thorium anomalies. The radioactivity data is supported by both preliminary multi-element geochemical results which report high background REE results consistent with crustal abundances for REE associated with these favourable protolithologies and their coincidence with remote sensing targets which cluster over and near the same areas.

AUZ embarked on its Brazilian Rare Earth strategy in December 2023, and since then through a reconnaissance programme has evaluated over 1,330 km^2 of terrain prospective for rare earth mineralization within the state of Bahia resulting in the identification of 2 primary targets namely Jequie North, Jequie South and 3 secondary target areas. These 5 targets are based on the following criteria.

- Elevated TREO soil sampling results. For detailed Jequie North and Jequie South sampling results please refer to Assay Section
- Co-incidence with the thorium airborne geophysical anomaly[4]
- Co-incident with remote sensing anomalies identified by AUZ and as announced by AUZ[5]
- The presence of a geological setting consisting of outcrops potentially hosting rare earth mineralization (Charnockites, Leucogranites and Monazites) and weathering profiles of clays/ saprolites for the potential of primary REE mineralization or weathering to form secondary REE deposits.
- On or east of the Rocha da Rocha[6] rare earth trend

Of the 45 Licenses located in the state of Bahia and subject to the acquisition terms as per ASX Release, 6 December 2023, 43 licenses have been transferred to AUZ, with 2 remaining in progress.

[4] Thorium anomaly as provided by CPRM-CBPM, Ipira-Ilheus Geophysical Survey, 2011
[5] ASX announcement 8 April 2024
[6] BRE Expands Control Over Rocha da Rocha Rare Earth Province, ASX January 2024

Jequie North Rare Earth/ Niobium Target

The Jequie North Project area is defined by a NW-SE trending sigmoid shaped Thorium anomaly extending some 7 km along strike and a width of 2 km. During the quarter AUZ completed soil (244 samples) and rock chip (18 samples) sampling over the target area as per Figure 1. Based on a soil anomaly demarcated by Total Rare Earth Oxide grade of > 500 < 1430ppm, AUZ has identified a high priority area of approximately 1.5 x 3 km, now earmarked for auger drilling.

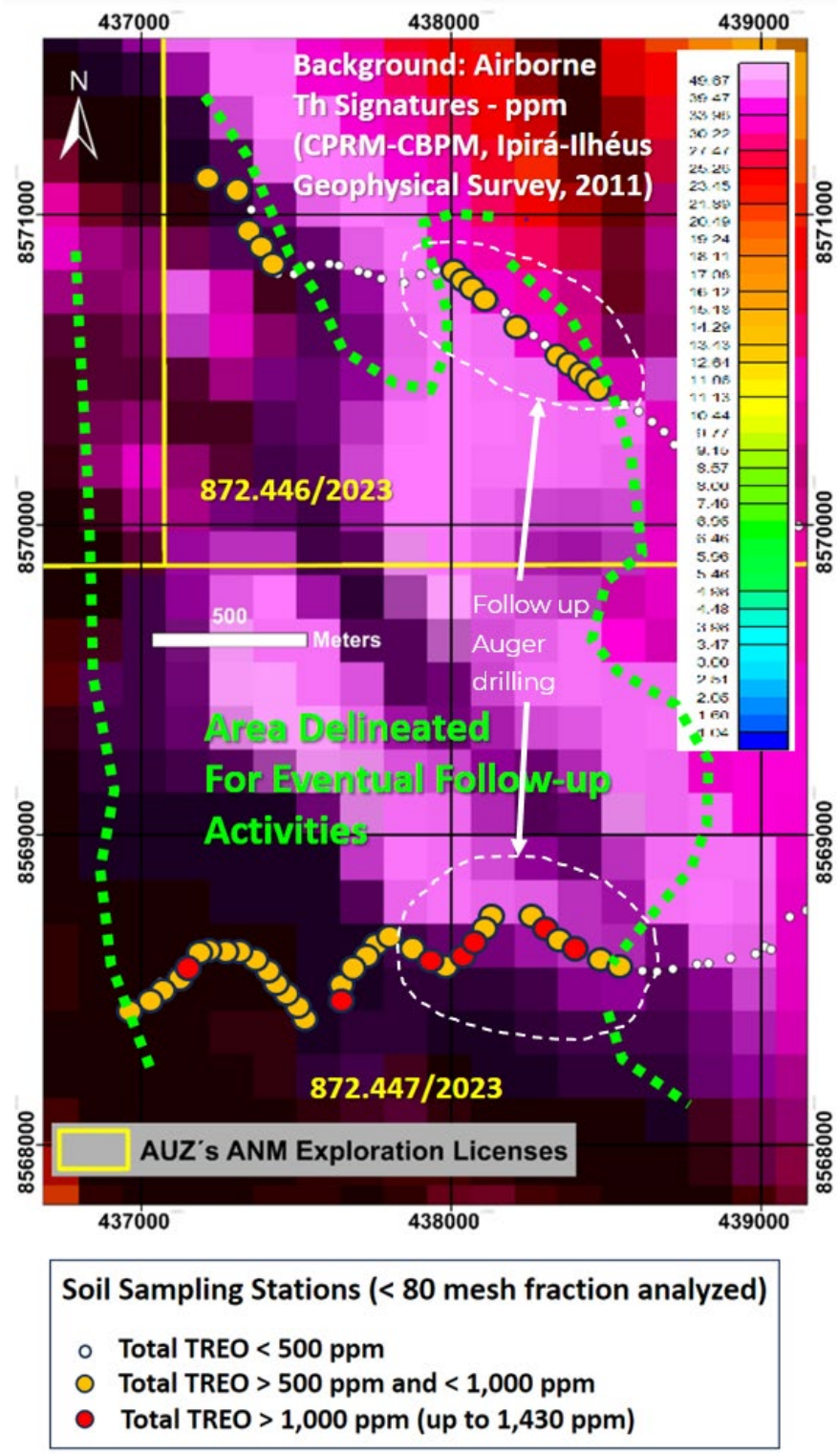


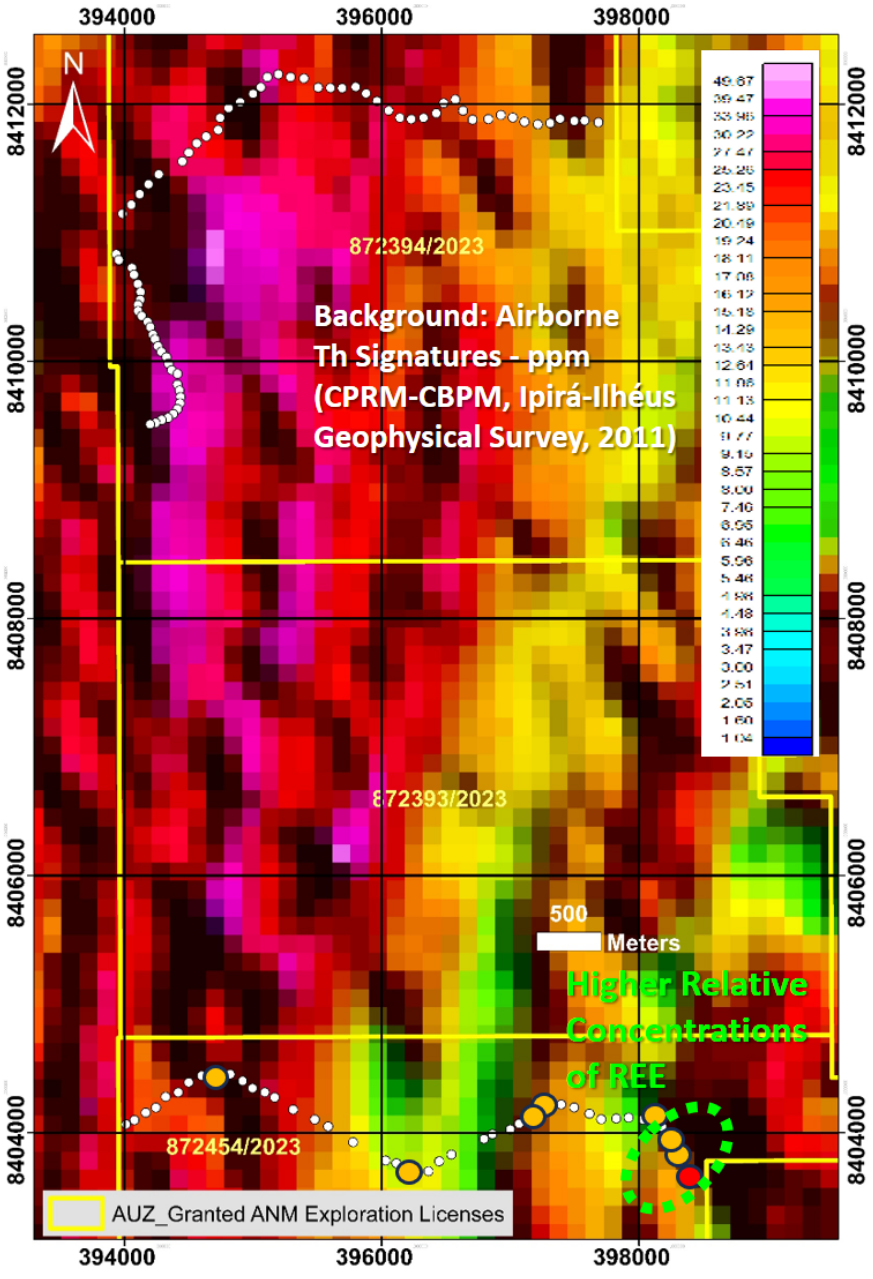
Figure 1: Soil Sampling Analysis

AUZ intends to carry out an Auger drilling program of approximately 1000m to test the weathered saprolite /clay horizons within the Jequie North priority target for TREO mineralization.

Jequie South Rare Earth/ Niobium Target

The Jequie South Project area is defined by a N-S trending linear shaped Thorium anomaly extending some 25 km along strike and a width of 1.5 km. Reconnaissance traverses over this area have identified radioactive charnockite with high background REE levels consistent with crustal abundances for this rock type. This again highlights the potential for these rocks to host primary REE mineralization or weathering to form secondary REE deposits.

During the quarter AUZ completed a sampling programme of 124 samples and 21 rock chip samples. See Figure 2. Overall, the results are considered somewhat disappointing except for an area along the southern traverse line towards the east (please refer to Figure 2), where a cluster of elevated assay results (> 500ppm TREO), including an assay result of 3107 ppm has been identified. It is noted that chemical analysis of this sample and adjacent proximal samples indicates a different genesis when compared to samples located distally and the former represents what appears to be a new type of REE mineralised occurrence, hosted in a diamictite derived reddish clay and apparently related to fault-controlled flow of aqueous solutions along the margins of a graben-like basin of Cenozoic age.



Soil Sampling Stations (< 80 mesh fraction analyzed)

- Total TREO < 500 ppm
- Total TREO > 500 ppm and < 1,000 ppm
- Total TREO > 1,000 ppm (up to 3,107 ppm)

Figure 2: Soil Sampling Analysis. The green encircled area indicates the potential presence of new type of REE mineralization

AUZ intends to carry out a detailed geological mapping programme to determine the potential of the high-grade TREO results within the Jequie South target.

Lithium Exploration – Brazil

Resende Lithium Project[7]

During the quarter AUZ reported

- The discovery of Tin ("Sn"), Tantalum ("Ta") and Lithium ("Li") anomalies where the highest assay results returned Sn, Ta and Li of 1180, 56, 38 ppm and 769, 65, 51 ppm respectively which compares favourably to regional results, resulting in the demarcation of seven drainage basins prospective for Sn, Ta and Li[8] (see Figure 3 and 4).
- These metals are strongly associated and consistent with the targeted pegmatite – greisen related mineralization systems being exploited along strike and to the southwest at AMG's Mibra Mine[9], which produces Sn, Ta, Li and feldspar concentrates, and north of the historical Paiol Mine which recovered tin, tantalum and coarse gold from extensive historical eluvial workings[10].
- Anomalous Total Rare Earth Oxides ("TREO") values (>1000ppm) were reported from 7 drainage basins. The highest assay results returned on a TREO basis, 2893 ppm and 1999 ppm[11]. (See Figure 5)
- The locations of these REE anomalies are proximal to, but mostly separate from the drainage basins anomalous in tin, tantalum and lithium drainage basins
- Australian Mines has since, embarked on and completed a further soil and stream sediment programme over the Sn, Ta and Li and REE prospective basins.

[7] The Resende Lithium project is subject to acquisition terms as per ASX Release, 6 December 2023, subsequently the exploration licenses have been granted to RTB Geologia E Mineracao LTDA and are now subject the completion of transfer to AUZ. In addition.
[8] See ASX announcement dated 22 May 20244
[9] https://amglithium.com/solutions/resources
[10] Rolff, P.A.M.A., 1951. "Cassiterita aluvionar do Paiol no município de São João d' el Rey -- Minas Gerais", in Revista da Escola de Minas, Ano XVI, Maio de 1951, page 35-47
[11] See ASX announcements dated 11 June 2024

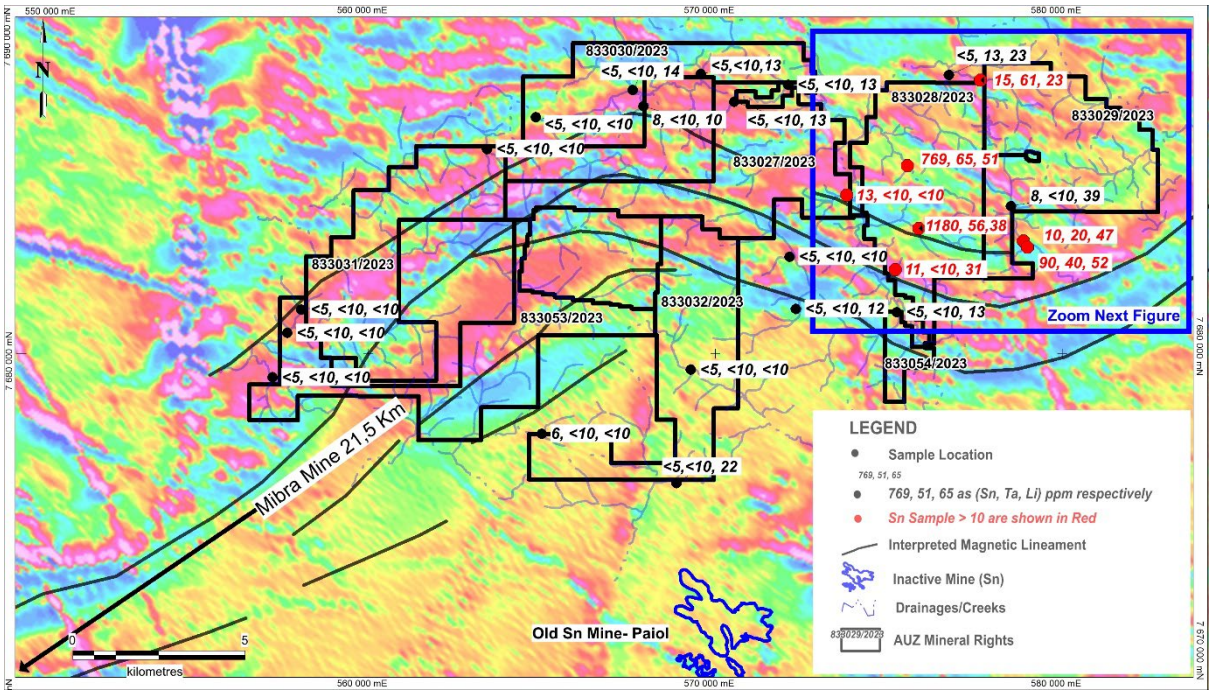


Figure 3: Location of regional assay results at the Resende Lithium Project[12]

[12] Figure 3 shows where appropriate half assay detection limits of <2.5, <5, <5 ppm for Sn, Ta and Li, respectively.

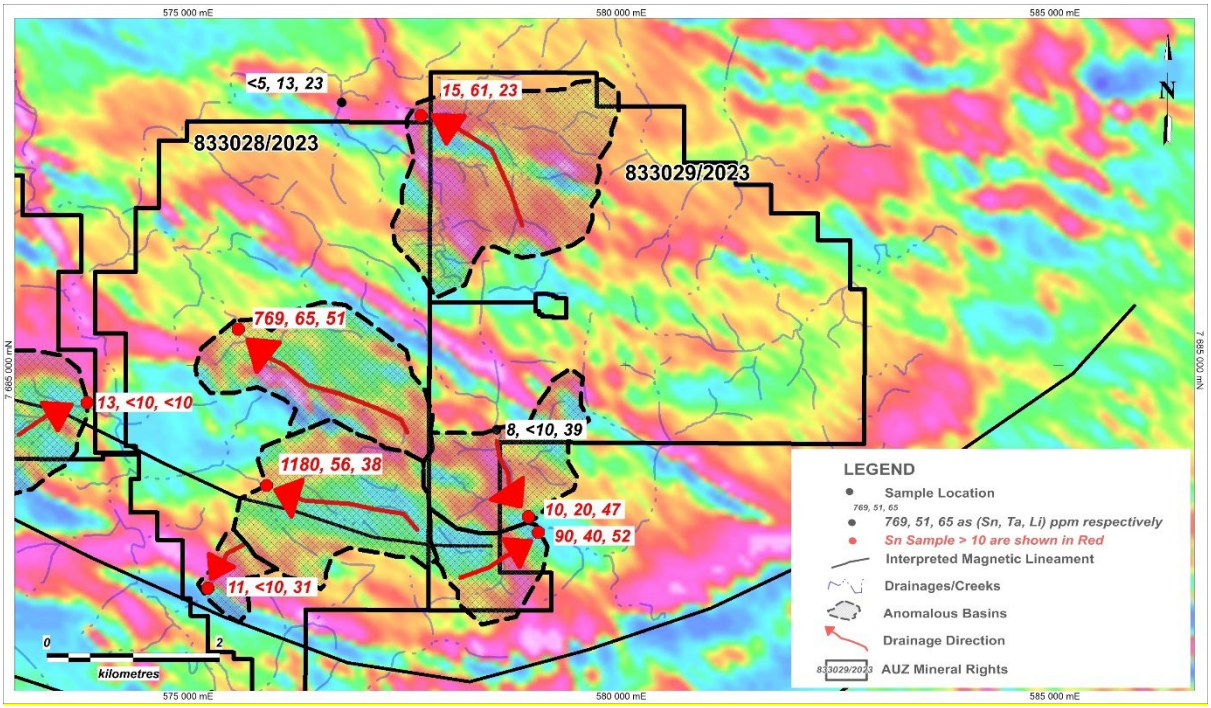


Figure 4: Defined basins prospective for tin, tantalum, and lithium

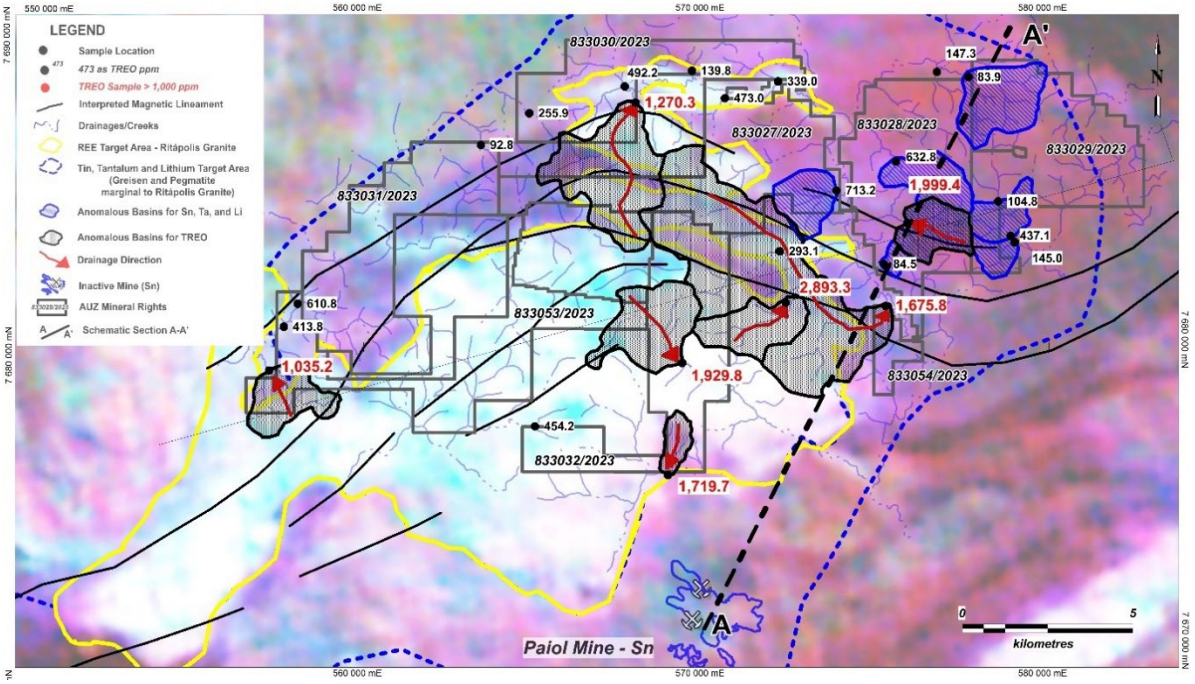


Figure 5: Regional Radiometrics (Ternary Image) with the location of anomalous TREO stream sediment samples, anomalous drainage basins and the respective, separate target areas for REE and Sn, Ta and Li.

Sconi Battery Minerals Project

Key Competitive Advantages

The Sconi Project is a strategic long-life Nickel and Cobalt asset. Under the current Nickel and Cobalt commodity prices the board is of the opinion that securing financing for an FID decision would be difficult. The Sconi Project has 3 main competitive advantages, namely its Australian location, the mining licences have been issued and, as the Sconi project is a brownfields project certain technical and mining risks are well understood. Given these advantages the time frame to production, from FID, is clearly defined placing the company in a good position to produce ethical Nickel and Cobalt within a low-risk domicile using low risk technical mining and processing techniques. The board has taken the decision to enhance these key competitive advantages of the Sconi Project by

- Engaging with the Department of Resources (Queensland) to streamline required expenditures so that mandated expenditures are focused on progressing environmental studies required for the Environmental Impact Statement ("EIS") and the approval of the mining licences extension applications[13].
- Engaging with the Queensland Government to access funds allocated to critical minerals development with the intention to progress the EIS and fund potential break-through metallurgical processing techniques with regards to Nickel and Cobalt extraction within laterites.
- Engaging with potential JV partners and battery manufactures with the intention to form beneficial partnerships.

In news concerning Nickel projects AUZ notes that in April 2024 Ardea Resources Limited ("Ardea") executed a 50:50 JV with Sumitomo Metal Mining (SMM)[14] and Mitsubishi Corporation (MC), whereby SMM and MC will fund 100% of the definitive feasibility study for approximately $98.5m to earn a 50% interest in Ardea's Kalgoorlie Nickel Project (KNP). Given the similarities between Ardea's KNP project and Sconi, AUZ is encouraged with the prospect of identifying potential JV partners to develop the Sconi Project.

[13] ASX announcement 20 October 2023
[14] Ardea Announcement, April 2024

Monetising Secondary Assets

As part of the previously announced strategy to monetise other assets within the company, Australian Mines has discontinued working with intermediary bodies, but remains committed to identify potential partners capable of providing exploration funding for the Flemington deposits and Broken Hill tenements.

Advancing Solid State Hydrogen Storage Metal Hydride project

Metal hydrides serve as a promising potential solution for safe, efficient, and high-density hydrogen storage. Modifications of AUZ's MH-Oct22 metal hydride (ASX, 10 October 2022), has resulted in a new metal hydride, hereafter called MH-May24[15]. MH-May24 demonstrates significant improvement in the absorption and desorption rates of hydrogen at lower temperatures. Subject to the risk factors and discussion below, the energy density of MH-May24 may allow the development of hydrogen storage systems that exceed the energy storage capabilities of both hydrogen compressed to 700bar and liquid hydrogen.

The Company has strategies it intends to implement that may further improve the reaction kinetics and operating temperatures and pressures of MH-May24 and has submitted applicable applications to patent both MH-Oct 22 and MH-May24.

Corporate and Capital Structure

AGM / EGM

On 26 February 2024 Australian Mines announced the relinquishment of the Share Subscription Agreements ("Agreement") entered on 22 November 2022. The Company agreed separately with Lind Global Fund II, LP ("Lind") and SBC to pay a total of $1.34 million ("Payment") to do so.

To fund the Payment the Company issued 176,470,599 Shares at $0.017 per share on 5 March 2024. As part of the Placement the Company agreed to issue one listed three-year options exercisable at $0.032 for each two new shares subscribed for, subject to shareholder approval.

On 17 April 2024 the Company held a General Meeting of shareholders which approved the issue of options, ratified the placement and approved the issue of

[15] Please refer to ASX announcement 13 May 2024

20,000,000 options to the lead manager of the placement. As a result, the Company issued 108,235,314 listed options on 6 May 2024.

On 7 May 2024 and 23 May 2024, the Company processed conversion of 237 $0.14 options by the issue of 237 shares.

Acquisition Of Brazil Rare Earth/ Niobium & Lithium Projects and Associated Capital Raising

On 19 April 2024 the Company issued 90,000,000 shares as the final consideration for the acquisition of the Brazil projects as announced on 6 December 2023. These securities were issued in line with the terms of the agreement as set out in the announcement.

ENDS

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Authorised for release by the Board of Directors of Australian Mines

Australian Mines supports the vision of a world where the mining industry respects the human rights and aspirations of affected communities, provides safe, healthy, and supportive workplaces, minimises harm to the environment, and leaves positive legacies.

Appendix 1: Summary of Expenditure

	Total as per Cashflow Appendix 5B	Sconi Project	Flemington Project	Broken Hill Project	Brazil Projects
Exploration & Evaluation	182,328	-	30,710	4,031	147,587
Development	333,267	333,267	-	-	-
Total	**515,595**	**333,267**	**30,710**	**4,031**	**147,587**

Table A1-1: Project development, exploration, and evaluation expenditure (in Australian dollars) by Australian Mines for the quarterly period ended 30 June 2024.

The aggregate payments to related parties and their associates for the reporting period under item 6.1 of the Company's accompanying Appendix 5B (Quarterly Cashflow Report) was $61,250 which constitutes director fees, salaries, superannuation and business expense reimbursement.

No consulting fees were paid to any related parties or their associates during the quarter.

Similarly, no payments in any form (except for the standard director fees, salaries, superannuation, and business expense reimbursement) were paid to any related party of Australian Mines or their associates during this reporting period.

Appendix 2: Forward-Looking Statements

This announcement contains forward-looking statements. Forward-looking statements can generally be identified by the use of forward-looking words such as, 'expect', 'anticipate', 'likely', 'intend', 'should', 'could', 'may', 'predict', 'plan', 'propose', 'will', 'believe', 'forecast', 'estimate', 'target' 'outlook', 'guidance', 'potential' and other similar expressions within the meaning of securities laws of applicable jurisdictions.

Any forward-looking statements in this document relating to the outcomes of the Sconi Project Feasibility Studies and ongoing refinement work as outlined in this report. Actual results and developments of projects and the market development may differ materially from those expressed or implied by these forward-looking statements. These, and all other forward-looking statements contained in this announcement are subject to uncertainties, risks and contingencies and other factors, including risk factors associated with exploration, mining, and production businesses. It is believed that the expectations represented in the forward-looking statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, drilling and productions results, resource estimations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

Any forward-looking statement is included as a general guide only and speak only as of the date of this document. No reliance can be placed for any purpose whatsoever on the information contained in this document or its completeness. No representation or warranty, express or implied, is made as to the accuracy, likelihood or achievement or reasonableness of any forecasts, prospects, returns or statements in relation to future matters contained in this document. Australian Mines does not undertake to update or revised forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this announcement, except where required by applicable law and stock exchange listing requirements.

To the maximum extent permitted by law, Australian Mines and its Associates disclaim all responsibility and liability for the forward-looking statements, including, without limitation, any liability arising from negligence. Recipients of this document must make their own investigations and inquiries regarding all assumptions, risks, uncertainties, and contingencies which may affect the future operations of Australian Mines or Australian Mines' securities.

Appendix 3: Tenement Information

Mining tenements held at end of the quarter:

AUSTRALIA

Location	Project	Tenement	Status	Interest
AUSTRALIA				
Queensland	Sconi	ML 10366	Granted	100%
Queensland	Sconi	ML 10342	Granted	100%
Queensland	Sconi	ML 10324	Granted	100%
Queensland	Sconi	ML 10332	Granted	100%
Queensland	Sconi	ML 20549	Granted	100%
Queensland	Sconi	ML 10368	Granted	100%
Queensland	Sconi	MDL 515	Granted	100%
Queensland	Sconi	MDL 387	Granted	100%
Queensland	Sconi	EPM 25834	Granted	100%
Queensland	Sconi	EPM 25865	Granted	100%
Queensland	Sconi	EPM 25833	Granted	100%
Queensland	Sconi	EPM 26575	Granted	100%
Queensland	Sconi	EPM 26577	Granted	100%
Queensland	Sconi	EPM 26578	Granted	100%
Queensland	Sconi	EPM 26579	Granted	100%
Queensland	Sconi	EPM 26559	Granted	100%
Queensland	Sconi	EPM 26857	Granted	100%
Queensland	Sconi	EPM 26918	Granted	100%
Queensland	Sconi	EPM 27529	Granted	100%
New South Wales	Flemington	EL 7805	Granted	100%
New South Wales	Flemington	EL 8546	Granted	100%
New South Wales	Flemington	EL 8478	Granted	100%
New South Wales	Flemington	EL 8855	Granted	100%
New South Wales	Flemington	EL 9321	Granted	100%
New South Wales	Flemington	EL 9562	Granted	100%
New South Wales	Broken Hill	EL 8477	Granted	100%
New South Wales	Broken Hill	EL 9300	Granted	100%
New South Wales	Broken Hill	EL 9326	Granted	100%

BRAZIL

Jequie Rare Earth/ Niobium Projects and Resende Lithium Project ("Projects")

A. Jequie Rare Earth/ Niobium Project[16]

#	Exploration Licence ID	Area (ha)	Project	Substance	State
1	872.461/2023	1964.49	Jequie	REE	BAHIA
2	872.460/2023	1927.98	Jequie	REE	BAHIA
3	872.459/2023	1975.67	Jequie	REE	BAHIA
4	872.458/2023	1982.5	Jequie	REE	BAHIA
5	872.456/2023	1985.69	Jequie	REE	BAHIA
6	872.455/2023	1928.55	Jequie	REE	BAHIA
7	872.454/2023	1987.4	Jequie	REE	BAHIA
8	872.453/2023	809.54	Jequie	REE	BAHIA
9	872.451/2023	1938.18	Jequie	REE	BAHIA
10	872.450/2023	1973.2	Jequie	REE	BAHIA
11	872.449/2023	1841.09	Jequie	REE	BAHIA
12	872.448/2023	1986.3	Jequie	REE	BAHIA
13	872.447/2023	1981.77	Jequie	REE	BAHIA
14	872.446/2023	1982.06	Jequie	REE	BAHIA
15	872.445/2023	1788.28	Jequie	REE	BAHIA
16	872.444/2023	1928.76	Jequie	REE	BAHIA
17	872.443/2023	1948.65	Jequie	REE	BAHIA
18	872.442/2023	1953.23	Jequie	REE	BAHIA
19	872.441/2023	1861.72	Jequie	REE	BAHIA
20	872.440/2023	1970.88	Jequie	REE	BAHIA
21	872.437/2023	1975.9	Jequie	REE	BAHIA
22	872.436/2023	1984.87	Jequie	REE	BAHIA
23	872.435/2023	1963.99	Jequie	REE	BAHIA
24	872.434/2023	1982.33	Jequie	REE	BAHIA
25	872.433/2023	1948.09	Jequie	REE	BAHIA
26	872.409/2023	693.04	Jequie	REE	BAHIA
27	872.408/2023	1978.04	Jequie	REE	BAHIA
28	872.407/2023	1260.72	Jequie	REE	BAHIA
29	872.406/2023	1277.81	Jequie	REE	BAHIA
30	872.405/2023	1983.41	Jequie	REE	BAHIA

[16] The Jequie REE/ Niobium project is subject to acquisition terms as per ASX Release, 6 December 2023, subsequently the exploration licenses have been granted to RTB Geologia E Mineracao LTDA and are now subject the completion of transfer to AUZ. In addition, please refer to ASX announcement, 19 February 2024.

#	Exploration Licence ID	Area (ha)	Project	Substance	State
31	872.404/2023	1986.43	Jequie	REE	BAHIA
32	872.403/2023	1844.54	Jequie	REE	BAHIA
33	872.402/2023	1817.42	Jequie	REE	BAHIA
34	872.401/2023	1875.13	Jequie	REE	BAHIA
35	872.400/2023	1864.77	Jequie	REE	BAHIA
36	872.399/2023	1930.85	Jequie	REE	BAHIA
37	872.397/2023	1979.39	Jequie	REE	BAHIA
38	872.396/2023	1983.6	Jequie	REE	BAHIA
39	872.395/2023	1986.22	Jequie	REE	BAHIA
40	872.394/2023	1986.81	Jequie	REE	BAHIA
41	872.393/2023	1986.48	Jequie	REE	BAHIA
42	872.392/2023	1417.55	Jequie	REE	BAHIA
43	872.391/2023	1326.29	Jequie	REE	BAHIA
44	872.390/2023	1852.88	Jequie	REE	BAHIA
45	872.389/2023	1984.03	Jequie	REE	BAHIA
	Total:	**82,586.53**			

#	Exploration Licence ID	Area (ha)	Project	Substance	State
Second Batch[17]					
1	870.090/2024	1963.46	Jequie	REE	BAHIA
2	870.089/2024	1964.05	Jequie	REE	BAHIA
3	870.088/2024	1019.77	Jequie	REE	BAHIA
4	870.087/2024	1675.73	Jequie	REE	BAHIA
5	870.085/2024	1963.07	Jequie	REE	BAHIA
6	870.084/2024	1920.44	Jequie	REE	BAHIA
7	870.083/2024	1954.36	Jequie	REE	BAHIA
8	870.082/2024	1983.63	Jequie	REE	BAHIA
9	870.081/2024	1879.42	Jequie	REE	BAHIA
10	870.080/2024	1887.99	Jequie	REE	BAHIA
11	870.079/2024	1984.66	Jequie	REE	BAHIA
12	870.078/2024	1828.39	Jequie	REE	BAHIA
13	870.077/2024	1986.32	Jequie	REE	BAHIA
14	870.076/2024	1968.98	Jequie	REE	BAHIA
15	870.075/2024	1922.32	Jequie	REE	BAHIA
16	870.074/2024	1963.7	Jequie	REE	BAHIA

[17] Subject to ASX announcement 19 February 2024

#	Exploration Licence ID	Area (ha)	Project	Substance	State
Second Batch					
17	870.073/2024	1868.66	Jequie	REE	BAHIA
18	870.072/2024	1732.04	Jequie	REE	BAHIA
19	870.071/2024	1904.37	Jequie	REE	BAHIA
20	870.070/2024	1981.91	Jequie	REE	BAHIA
21	870.069/2024	1899.53	Jequie	REE	BAHIA
22	870.068/2024	1970.46	Jequie	REE	BAHIA
23	870.067/2024	1957.87	Jequie	REE	BAHIA
24	870.066/2024	1979.16	Jequie	REE	BAHIA
25	870.065/2024	1876.52	Jequie	REE	BAHIA
26	870.064/2024	1971.18	Jequie	REE	BAHIA
27	870.063/2024	1978.8	Jequie	REE	BAHIA
	Total:	**50,986.79**			

B. Resende Lithium Project[18]

#	Exploration Licence ID	Area (ha)	Project	Substance	State
1	833027/2023	1923.98	Resende	Lithium	MG
2	833028/2023	1989.79	Resende	Lithium	MG
3	833029/2023	1974.24	Resende	Lithium	MG
4	833030/2023	1423.63	Resende	Lithium	MG
5	833031/2023	1931.35	Resende	Lithium	MG
6	833032/2023	1876.37	Resende	Lithium	MG
7	833053/2023	1986.76	Resende	Lithium	MG
8	833054/2023	208.46	Resende	Lithium	MG
	Total:	**13,314.58**			

[18] The Resende Lithium project is subject to acquisition terms as per ASX Release, 6 December 2023, subsequently the exploration licenses have been granted to RTB Geologia E Mineracao LTDA and are now subject the completion of transfer to AUZ.

Mining tenements acquired and disposed of during the quarter:

Acquired

Location	Project	Tenement	Status	Interest	Comments
-	-	-	-	-	-

Disposed

Location	Project	Tenement	Status	Interest	Comments
-	-	-	-	-	-

Beneficial percentage interests held in farm-in or farm-out agreements at end of the quarter:

Location	Project	Agreement	Parties	Interest	Comments
-	-	-	-	-	-

Beneficial percentage interests in farm-in or farm-out agreements acquired or disposed of during the quarter:

Location	Project	Agreement	Parties	Interest	Comments
-	-	-	-	-	-

Appendix 4: Assay Results

Jequie North - Soil Sampling

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
S-1-SO-001	436735	8568030	222.3	4.05	2.4	1.51	5.59	0.76	136.5	0.45	65.8	20.91	9.3	0.7	0.36	20.05	2.8	493.48	**580.0**
S-1-SO-002	436764	8568024	421.2	7.17	3.55	2.16	11.35	1.26	228.5	0.63	133.5	39.29	17.8	1.32	0.5	33.75	3.7	905.68	**1064.2**
S-1-SO-003	436816	8568018	286.6	6.22	3.19	2.27	8.55	1.13	161	0.5	89.4	26.56	12.7	1.05	0.48	30.22	3.5	633.37	**744.7**
S-1-SO-004	436959	8568435	422.4	4.79	2.1	1.88	9.32	0.77	221.4	0.35	135.3	40.61	18	1	0.29	20.64	2.2	881.05	**1034.3**
S-1-SO-005	437012	8568478	241	2.81	1.23	1.58	6.12	0.48	133	0.2	83.8	24.31	11.3	0.63	0.18	12.78	1.4	520.82	**611.4**
S-1-SO-006	437062	8568525	274.3	3.17	1.39	1.19	7.04	0.33	141.5	0.09	90.9	25.33	13	0.52	0	15.1	1.5	575.36	**675.5**
S-1-SO-007	437111	8568541	276.3	3.42	1.56	1.63	7.73	0.57	151.2	0.28	98	28.58	13.6	0.74	0.23	15.34	1.7	600.88	**705.5**
S-1-SO-008	437132	8568559	204.7	2.57	1.16	1.57	5.62	0.42	112.9	0.18	73	21.01	10.6	0.54	0.16	11.46	1	446.89	**524.7**
S-1-SO-009	437179	8568606	182.8	2.29	1.1	1.49	4.74	0.39	104.7	0.17	62.8	18.49	8.7	0.46	0.15	10.31	1	399.59	**469.1**
S-1-SO-010	437213	8568623	342.6	2.57	0.98	1.72	7.8	0.43	185	0.18	116.6	34.41	16	0.63	0.15	9.82	1	719.89	**844.5**
S-1-SO-011	437261	8568631	472.9	3.9	1.72	1.87	10.54	0.6	253.1	0.31	159.7	46.51	20.6	0.9	0.22	16.01	1.7	990.58	**1162.2**
S-1-SO-012	437303	8568624	282.6	5.06	2.79	1.9	8.55	0.94	155.9	0.42	98.5	28.32	14.1	0.95	0.39	25.92	2.8	629.14	**739.4**
S-1-SO-013	437366	8568598	315.7	3.55	1.7	1.7	7.52	0.55	174	0.29	102.7	30.38	14.3	0.77	0.22	15.08	1.6	670.06	**786.5**
S-1-SO-014	437394	8568573	379.5	3.33	1.5	1.55	8.08	0.53	205	0.28	121.7	36.68	16.2	0.74	0.23	14.2	1.6	791.12	**928.4**
S-1-SO-015	437413	8568538	277.2	2.96	1.4	1.43	6.69	0.5	157.5	0.23	95	27.38	12.8	0.64	0.21	13.45	1.5	598.89	**703.0**
S-1-SO-016	437453	8568486	395.8	3.72	1.69	1.48	9.03	0.61	209.4	0.32	129.4	38.61	17.4	0.84	0.27	15.85	1.9	826.32	**969.7**
S-1-SO-017	437487	8568456	365.8	4.91	2.27	1.69	10.1	0.83	197.5	0.4	121.6	36.09	17.3	1.03	0.35	23.67	2.4	785.94	**923.0**
S-1-SO-018	437515	8568431	298	2.14	0.82	1.1	5.91	0.15	160.8	0	94.8	26.81	12.5	0.36	0	9.84	0.9	614.13	**720.5**
S-1-SO-019	437652	8568457	512.4	4.01	1.62	1.66	11.1	0.59	271.3	0.34	171.4	51.01	22.8	0.94	0.23	16.15	1.7	1067.25	**1252.1**
S-1-SO-020	437639	8568521	361.5	2.96	1.25	1.31	7.52	0.44	198.1	0.17	113.2	34.05	14.7	0.71	0.16	11.91	1.1	749.08	**878.9**
S-1-SO-021	437701	8568573	403.8	3.45	1.64	2.09	7.75	0.58	220.1	0.3	127.3	38.62	16.5	0.75	0.22	15.96	1.7	840.76	**986.7**
S-1-SO-022	437737	8568610	580.1	5.15	2.48	2.01	11.83	0.78	311	0.49	188.1	56.04	23.9	1.11	0.36	21.64	2.7	1207.69	**1417.2**
S-1-SO-023	437752	8568646	319.1	2.95	1.39	1.47	6.81	0.49	173.9	0.21	100	30.16	12.2	0.64	0.21	12.96	1.4	663.89	**779.1**
S-1-SO-024	437825	8568647	401.7	3.41	1.52	1.6	8.21	0.55	222.9	0.27	126.9	38	16.6	0.79	0.21	15.3	1.6	839.56	**985.2**
S-1-SO-025	437890	8568620	262.8	3.57	1.83	1.17	6.8	0.61	148.3	0.33	91.4	27.05	11.6	0.7	0.25	17.02	1.9	575.33	**675.7**

[19] TREO = La_2O_3+Ce_2O_3+Pr_6O_{11}+Nd_2O+Sm_2O_2+Eu_3O_3+Gd_2O_3+Tb_4O_3+Dy_2O_3+Ho_2O_3+Er_2O_3+Tm_2O_3+Yb_2O_3+Lu_2O_3+Y_2O_2

CONTINUED

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-1-SO-026	437923	8568601	415.2	5.98	3.23	2.15	10.98	1.1	219.5	0.52	143.4	40.78	19.1	1.15	0.48	30.57	3.4	897.54	**1054.4**
S-1-SO-027	437965	8568590	372.2	5.39	2.96	2.19	9.78	0.96	201.5	0.46	126.8	36.62	17.6	1.06	0.42	27.31	2.8	808.05	**949.2**
S-1-SO-028	438009	8568607	574.1	7.02	3.42	2.6	14.32	1.17	305.1	0.48	190.2	56.14	25	1.46	0.48	33.32	3.1	1217.91	**1430.1**
S-1-SO-029	438094	8568701	397.3	3.48	1.61	1.82	7.27	0.58	222.3	0.28	122.2	37.77	14.3	0.74	0.24	15.87	1.7	827.46	**971.2**
S-1-SO-030	438117	8568727	276.6	2.54	1.1	1.97	5.58	0.43	163.2	0.18	91.7	27.77	10.8	0.58	0.17	11.87	1	595.49	**698.9**
S-1-SO-031	438266	8568736	337.7	3.33	1.21	2.37	6.93	0.55	180.2	0.14	106.2	31.58	13	0.69	0.15	13.32	0.9	698.27	**819.5**
S-1-SO-032	438307	8568709	534.9	6.1	2.33	3.84	12.41	1	303.1	0.28	176.7	53.08	22.2	1.26	0.3	24.84	1.7	1144.04	**1342.9**
S-1-SO-033	438359	8568652	387.4	5.36	2.49	2.76	10.24	0.92	204.3	0.3	134	38.63	18.4	1.1	0.31	23.29	2	831.5	**976.4**
S-1-SO-034	438414	8568632	568	4.54	1.74	3.4	11.56	0.77	310	0.34	194	56.19	23.3	1.11	0.29	17.54	1.4	1194.18	**1401.0**
S-1-SO-035	438484	8568620	366.4	2.25	0.99	0.91	5.55	0.18	206.1	0	111.7	32.3	13.2	0.32	0	10.62	1.2	751.72	**881.9**
S-1-SO-036	438549	8568587	261.8	2.23	1.01	1.18	5.13	0.35	147.1	0.17	84.3	25.29	10.2	0.51	0.16	9.64	0.9	549.97	**645.4**
S-1-SO-037	438617	8568561	192.7	1.87	0.86	0.88	3.95	0.3	107.5	0.18	62.3	18.77	7.9	0.39	0.13	8.42	0.9	407.05	**477.8**
S-1-SO-038	438664	8568559	210.9	1.84	0.92	0.87	4.43	0.34	116.5	0.2	68.3	20.3	8.9	0.44	0.15	8.34	1.1	443.53	**520.5**
S-1-SO-039	438715	8568567	159.9	2.07	1.19	0.82	3.88	0.36	89.7	0.24	53.3	16.02	7.4	0.41	0.18	9.57	1.2	346.24	**406.6**
S-1-SO-040	438793	8568582	134.4	2.07	1.1	0.77	4.03	0.36	77.9	0.21	47	13.72	7	0.44	0.16	10	1.2	300.36	**352.8**
S-1-SO-041	438830	8568585	135.4	2.16	1.25	0.58	3.63	0.38	78.2	0.22	46.2	13.91	6.6	0.4	0.19	10.33	1.4	300.85	**353.4**
S-1-SO-042	438901	8568602	115.4	2.1	1.13	0.46	3.37	0.36	66.4	0.21	40.4	11.94	5.9	0.37	0.17	10.19	1.3	259.7	**305.2**
S-1-SO-043	438982	8568616	89.6	1.67	0.81	0.61	2.89	0.29	51.3	0.18	31.1	9.15	4.9	0.32	0.14	7.77	1	201.73	**237.0**
S-1-SO-044	439011	8568639	83.1	1.5	0.87	0.52	2.3	0.26	48.7	0.16	28.3	8.68	4	0.27	0.14	7.34	1	187.14	**219.9**
S-1-SO-045	439032	8568630	87.7	1.53	1	0.49	2.57	0.27	51.5	0.19	30.7	9	4.7	0.3	0.14	7.93	1	199.02	**233.9**
S-1-SO-046	439092	8568735	131.5	1.88	1.04	0.51	3.57	0.33	74.1	0.21	46.2	13.58	6.6	0.37	0.17	9.16	1.3	290.52	**341.2**
S-1-SO-047	439146	8568756	117.9	1.65	0.91	0.47	3.04	0.29	66.3	0.17	40.4	12.09	6	0.31	0.14	7.99	1.1	258.76	**303.9**
S-1-SO-048	439203	8568777	106.1	1.52	0.88	0.56	2.87	0.3	59.6	0.19	35.3	10.72	4.9	0.29	0.14	7.86	1	232.23	**272.8**
S-1-SO-049	439251	8568788	126.7	2.07	1.13	0.63	3.75	0.35	72.4	0.18	44.1	12.89	6.4	0.39	0.15	10.02	1.1	282.26	**331.6**
S-1-SO-050	439306	8568799	94.9	1.5	0.69	0.21	2.47	0.06	40.7	0	32.5	6.22	4.8	0.07	0	8.03	0.8	192.95	**226.7**
S-1-SO-051	439350	8568811	72.9	1.49	0.94	0.38	2.55	0.33	43	0.22	25.3	8.21	3.7	0.31	0.16	9.02	1.2	169.71	**199.7**
S-1-SO-052	439402	8568822	59.5	1.44	1.17	0.43	2.31	0.38	35.4	0.25	20.4	6.9	3	0.33	0.24	9.53	1.4	142.68	**168.0**
S-1-SO-053	439447	8568835	104.7	1.92	1.17	0.5	2.83	0.39	58.6	0.24	3.9	10.25	4.3	0.31	0.18	9.98	1.4	200.67	**236.2**
S-1-SO-054	439516	8568853	59.3	1.52	0.9	0.3	2.12	0.31	36.6	0.21	20.1	6.56	3.1	0.28	0.16	9.3	1.1	141.86	**167.1**
S-1-SO-055	439564	8568863	137.1	3.89	2.04	1.01	5.47	0.75	73.2	0.39	49.1	13.56	7.7	0.62	0.32	21.62	2.5	319.27	**375.9**
S-1-SO-056	439613	8568875	84.6	1.51	0.96	0.27	2.78	0.3	49.5	0.21	29.1	8.79	4.5	0.33	0.16	8.91	1.2	193.12	**227.1**

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-1-SO-057	439657	8568884	62.3	1.54	0.77	0.22	2.27	0.32	37.9	0.2	21.9	6.74	3.3	0.25	0.15	8.98	1.1	147.94	**174.1**
S-1-SO-058	439718	8568907	124.9	1.95	1.15	0.61	3.95	0.42	70.6	0.26	42.7	13.01	6	0.43	0.2	11.84	1.5	279.52	**328.6**
S-1-SO-059	439770	8568913	101.5	2.39	1.5	0.79	3.67	0.45	56.9	0.26	36.4	11.45	5.8	0.45	0.26	13.67	1.6	237.09	**279.0**
S-1-SO-060	439830	8568926	59.8	1.22	0.78	0.22	2.21	0.23	34.7	0.15	20.7	6.51	3.2	0.27	0.11	7.38	1	138.48	**162.9**
S-1-SO-061	439886	8568981	104.1	1.94	0.97	0.44	3.54	0.36	57.5	0.23	34.9	11.08	5.6	0.39	0.2	11.24	1.2	233.69	**274.8**
S-1-SO-062	439925	8569014	91.2	1.51	0.68	0.38	3.21	0.24	51.9	0.16	31.2	9.63	4.8	0.34	0.13	8.04	0.9	204.32	**240.1**
S-1-SO-063	439950	8569063	145.8	4.12	2.11	1.33	6.31	0.69	79.1	0.29	55.5	16.15	9.1	0.8	0.27	20.53	2	344.1	**404.9**
S-1-SO-064	439999	8569164	94	2.03	1.3	0.53	3.52	0.42	51.9	0.21	32.1	10.05	5.1	0.45	0.19	13.64	1.4	216.84	**255.3**
S-1-SO-065	440070	8569163	139.7	2.9	1.64	0.68	5.59	0.53	77.3	0.31	49	15.3	7.3	0.59	0.26	16.44	1.8	319.34	**375.6**
S-1-SO-066	440075	8569144	79.9	1.45	0.86	0.26	2.91	0.28	45.6	0.18	28.2	8.83	4.1	0.39	0.16	8.91	1.1	183.13	**215.4**
S-1-SO-067	440263	8569129	118.3	2.01	1.03	0.38	4.23	0.4	67	0.22	39.8	12.5	6.6	0.47	0.15	11.33	1.2	265.62	**312.2**
S-1-SO-068	440306	8569127	115.5	1.89	1.02	0.41	3.85	0.38	64.9	0.21	38.9	11.88	5.8	0.43	0.19	11.55	1.3	258.21	**303.6**
S-1-SO-069	440329	8569105	99.1	1.71	1	0.36	3.33	0.37	56.6	0.24	32.4	10.17	4.8	0.37	0.15	10.32	1.2	222.12	**261.2**
S-1-SO-070	440342	8569076	163.5	3.15	1.8	0.8	6	0.58	89.3	0.29	55.5	16.87	8.2	0.65	0.23	17.16	1.8	365.83	**430.2**
S-1-SO-071	440397	8569005	160.2	4.06	2.33	1.32	6.46	0.78	91.7	0.3	56.3	17.12	8.6	0.8	0.31	23.06	1.9	375.24	**441.7**
S-1-SO-072	440439	8568954	129.9	2.23	1.23	0.3	4.5	0.4	73.7	0.22	44	13.76	7.3	0.49	0.16	11.9	1.3	291.39	**342.5**
S-1-SO-073	440472	8568875	63	1.57	0.93	0.3	2.51	0.29	38	0.18	21.2	7.1	3.6	0.28	0.13	8.31	1.1	148.5	**174.7**
S-1-SO-074	440477	8568830	90.8	2.02	0.94	0.27	3.26	0.36	51.6	0.22	30.2	9.44	4.7	0.4	0.17	9.71	1.4	205.49	**241.6**
S-1-SO-075	440494	8568790	83.3	1.59	0.94	0.39	3.05	0.34	50.1	0.22	27.9	8.84	4.5	0.36	0.19	9.16	1.3	192.18	**226.0**
S-1-SO-076	440516	8568752	60.8	1.38	1.01	0.19	2.19	0.27	34.8	0.19	20.5	6.13	3.5	0.24	0.16	7.43	1.1	139.89	**164.5**
S-1-SO-077	440552	8568747	92.4	1.77	1.02	0.43	3.45	0.38	50.7	0.27	30.3	9.26	4.6	0.49	0.22	9.01	1.3	205.6	**241.7**
S-1-SO-078	440596	8568757	77.9	1.77	0.88	0.31	2.71	0.35	45.1	0.21	26	8.39	4.2	0.35	0.16	9.22	1.3	178.85	**210.4**
S-1-SO-079	440700	8568807	224.4	3.26	1.27	0.58	6.95	0.54	127.6	0.22	73.1	23.49	11.6	0.76	0.17	14.54	1.2	489.68	**575.1**
S-1-SO-080	440737	8568821	143.7	2.46	1.03	0.52	4.75	0.41	82.1	0.21	47.8	14.77	7.4	0.54	0.15	11.7	1.1	318.64	**374.4**
S-1-SO-081	440797	8568846	161.5	2.84	1.21	0.57	5.24	0.5	91.7	0.26	52.6	16.94	8.3	0.57	0.21	13.15	1.3	356.89	**419.4**
S-1-SO-082	440858	8568864	230.9	4.78	2.57	1.18	8.13	0.89	122.9	0.47	76.8	23.79	11.7	0.97	0.38	24.79	2.6	512.85	**603.1**
S-1-SO-083	440984	8568910	83.9	1.83	1.02	0.37	2.98	0.37	47.3	0.22	28.1	9	4.5	0.37	0.17	10.21	1.3	191.64	**225.4**
S-1-SO-084	441034	8568940	52.1	1.27	0.9	0.26	2.09	0.29	30	0.21	17.7	5.69	2.8	0.23	0.15	8.67	1.2	123.56	**145.5**
S-1-SO-085	441067	8568977	50.9	1.56	0.92	0.27	2.24	0.34	29.4	0.23	18.4	5.55	3.2	0.26	0.17	10.05	1.2	124.69	**147.0**
S-1-SO-086	441134	8569001	59.5	1.92	1.11	0.36	2.63	0.39	33	0.25	20.7	6.39	3.8	0.33	0.2	11.27	1.2	143.05	**168.6**
S-1-SO-087	441219	8569093	91.1	2.32	1.33	0.49	3.79	0.38	51.3	0.25	33.9	10.17	4.9	0.47	0.19	13.03	1.5	215.12	**253.2**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-1-SO-088	441256	8569145	40.5	1.45	0.81	0.2	1.73	0.29	24.3	0.22	13.9	4.55	2.5	0.27	0.16	8.2	1.2	100.28	**118.2**
S-1-SO-089	441303	8569198	31	1.26	0.78	0.16	1.43	0.26	19.2	0.19	11.4	3.37	2.3	0.21	0.14	7.74	1.2	80.64	**95.1**
S-1-SO-090	441337	8569234	50.8	1.96	1.43	0.47	2.26	0.41	30.1	0.25	18.3	5.2	3	0.33	0.2	12.47	1.7	128.88	**152.1**
S-1-SO-091	441409	8569278	32.9	1.33	0.87	0.15	1.74	0.26	20.6	0.18	11.7	3.79	1.8	0.23	0.13	8.55	1.2	85.43	**100.8**
S-1-SO-092	441462	8569307	43.6	1.45	1.12	0.33	2.17	0.34	27.4	0.22	15.2	4.77	2.4	0.29	0.17	10.02	1.1	110.58	**130.4**
S-1-SO-093	441509	8569324	136.8	3.2	1.78	1.14	5.1	0.61	75.9	0.32	47.3	15.07	7.6	0.64	0.26	18.04	1.8	315.56	**371.3**
S-1-SO-094	441596	8569360	48.9	1.45	0.77	0.28	2.15	0.3	28.6	0.18	16.1	5.24	3.4	0.25	0.12	8.05	1	116.79	**137.5**
S-1-SO-095	441658	8569380	46.4	1.13	0.8	0.21	2.09	0.26	27	0.17	15.7	5.06	2.6	0.26	0.13	7.85	1	110.66	**130.3**
S-1-SO-096	441725	8569404	26.4	1.05	0.66	0.12	1.45	0.22	17.3	0.18	8.6	2.77	1.7	0.19	0.12	6.35	0.9	68.01	**80.2**
S-1-SO-097	441776	8569436	24.8	0.91	0.74	0.2	1.45	0.27	16.3	0.15	10	2.84	1.7	0.21	0.11	7.36	1	68.04	**80.4**
S-1-SO-098	441836	8569490	30.4	1.16	0.88	0.23	1.4	0.22	18.2	0.19	10.3	2.83	1.8	0.17	0.13	7.4	1.2	76.51	**90.3**
S-1-SO-099	441842	8569552	32.8	1.66	1.19	0.23	1.59	0.37	21.8	0.34	11.9	3.63	1.9	0.25	0.21	11.18	1.6	90.65	**107.2**
S-1-SO-100	441849	8569617	23.3	1.16	0.82	0.19	1.31	0.27	14.9	0.24	8.7	2.57	1.6	0.18	0.17	8.9	1.2	65.51	**77.5**
S-1-SO-101	441833	8569741	24.3	1.37	0.97	0.22	1.28	0.27	18	0.24	8.7	2.51	1.7	0.19	0.16	7.9	1.3	69.11	**81.6**
S-2-SO-001	443180	8567952	48.1	1.93	1.32	0.24	2.44	0.37	31.2	0.31	16.2	4.82	2.9	0.32	0.22	10.43	1.7	122.5	**144.4**
S-2-SO-002	443147	8567909	51.5	1.8	1.06	0.22	2.09	0.36	31.3	0.26	16.8	5.04	2.7	0.29	0.18	9.26	1.6	124.46	**146.6**
S-2-SO-003	443089	8567893	73.1	2.3	1.35	0.28	2.88	0.41	46.7	0.27	23.9	7.52	3.9	0.37	0.17	11.25	1.5	175.9	**207.1**
S-2-SO-004	443025	8567884	69.5	2.17	1.26	0.33	3.01	0.41	43	0.33	23.4	7.08	3.8	0.39	0.22	11.18	1.7	167.78	**197.5**
S-2-SO-005	442966	8567847	49.2	1.7	1.18	0.24	1.84	0.35	31.9	0.25	15.7	4.82	2.3	0.23	0.2	9.9	1.5	121.31	**143.0**
S-2-SO-006	442939	8567802	48.6	1.61	1.18	0.24	1.99	0.33	32.3	0.25	15.8	5.01	2.5	0.27	0.18	9.63	1.3	121.19	**142.8**
S-2-SO-007	442925	8567780	40.3	1.5	1.01	0.21	1.74	0.3	27.8	0.21	13	4.14	2.2	0.2	0.15	8.38	1.2	102.34	**120.6**
S-2-SO-008	442906	8567737	43	1.67	1.22	0.27	1.87	0.32	28.8	0.24	14.6	4.36	2.3	0.25	0.19	9.84	1.5	110.43	**130.2**
S-2-SO-009	442883	8567703	57.4	1.51	1.02	0.19	1.89	0.3	35	0.22	18.6	5.87	2.9	0.23	0.16	8.48	1.1	134.87	**158.8**
S-2-SO-010	442860	8567654	46.6	1.68	1.12	0.26	1.88	0.32	29	0.29	15.4	4.74	2.2	0.24	0.2	9.69	1.6	115.22	**135.8**
S-2-SO-011	442845	8567613	47.8	1.54	1	0.3	1.86	0.33	30.2	0.2	16	4.86	2.4	0.24	0.17	8.41	1.2	116.51	**137.2**
S-2-SO-012	442831	8567588	50.3	1.75	1.36	0.31	1.99	0.38	31.9	0.26	16.8	4.99	2.7	0.27	0.23	10.54	1.7	125.48	**147.9**
S-2-SO-013	442796	8567558	57.2	1.56	0.92	0.31	2.24	0.28	36.9	0.2	18.3	5.72	3	0.27	0.13	8.08	1.1	136.21	**160.3**
S-2-SO-014	442764	8567534	57.5	1.53	1.04	0.33	1.97	0.31	37.4	0.22	19.5	5.98	3.1	0.26	0.16	7.86	1.2	138.36	**162.8**
S-2-SO-015	442729	8567508	79.4	1.81	1.03	0.39	2.51	0.34	53	0.21	26.1	8.27	4	0.33	0.16	8.99	1.2	187.74	**220.8**
S-2-SO-016	442699	8567496	82.7	1.88	1.14	0.46	2.73	0.36	52.3	0.22	27.1	8.29	4.2	0.34	0.17	9.43	1.2	192.52	**226.4**
S-2-SO-017	442665	8567487	92.2	1.77	0.98	0.6	2.7	0.32	51.3	0.2	28.2	8.93	4.5	0.31	0.14	7.74	1	200.89	**236.1**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-2-SO-018	442623	8567457	139.7	1.96	0.93	0.55	3.38	0.34	70	0.18	36.3	11.4	5.3	0.37	0.14	8.25	1.1	279.9	**328.7**
S-2-SO-019	442579	8567427	143.1	2.19	0.84	0.8	3.99	0.35	80.1	0.15	41.2	13.21	6.1	0.42	0.13	7.87	0.9	301.35	**353.8**
S-2-SO-020	442543	8567402	126.3	1.6	0.73	0.81	3.18	0.27	79.1	0.11	34.1	11.12	4.6	0.34	0.11	6.92	0.7	269.99	**317.0**
S-2-SO-021	442497	8567377	111.2	1.71	0.71	0.67	2.78	0.29	59.5	0.13	29.5	9.24	4.4	0.31	0.11	6.79	0.7	228.04	**267.8**
S-2-SO-022	442459	8567363	150.4	2.08	0.76	0.65	3.67	0.34	85.8	0.13	42.2	13.25	5.9	0.41	0.09	7.88	0.5	314.06	**368.7**
S-2-SO-023	442409	8567328	159.9	2.5	1.17	0.86	4.72	0.41	103.1	0.14	45	14.38	6.8	0.52	0.13	11.9	1	352.53	**414.1**
S-2-SO-024	442384	8567296	154.7	2.6	1.3	0.79	5	0.44	94.5	0.23	45.8	14.37	7.2	0.55	0.18	12.17	1.3	341.13	**400.8**
S-2-SO-025	442364	8567268	150.3	3	1.62	0.74	5.05	0.52	89.7	0.31	46.2	14.08	7.4	0.57	0.24	14.62	1.7	336.05	**395.0**
S-2-SO-026	442348	8567234	137.1	3.27	1.68	0.77	4.68	0.55	80.2	0.3	45.1	13.67	7.3	0.62	0.25	14.8	1.6	311.89	**366.7**
S-2-SO-027	442328	8567189	127.9	2.58	1.27	0.58	4.15	0.41	76.2	0.24	43.3	13.1	7	0.5	0.18	11.83	1.5	290.74	**341.7**
S-2-SO-028	442318	8567145	114.4	2.13	1.17	0.51	4.04	0.39	68.2	0.21	36.3	11.33	6	0.44	0.17	10.44	1.1	256.83	**301.8**
S-2-SO-029	442259	8567150	139.3	2.3	1.16	0.43	4.43	0.37	76.9	0.19	44.5	13.71	6.7	0.45	0.16	9.65	1.2	301.45	**354.1**
S-2-SO-030	442188	8567142	130.9	2.38	1.36	0.5	4.44	0.43	77.3	0.23	43.9	13.32	6.8	0.48	0.19	11.56	1.5	295.29	**347.0**
S-2-SO-031	442093	8567148	105	2.74	1.55	0.7	4.1	0.51	59.2	0.28	33.8	10.26	5.4	0.5	0.25	13.81	1.5	239.6	**281.9**
S-2-SO-032	442056	8567161	102.1	2.02	1.28	0.55	2.88	0.36	51.6	0.19	29.7	8.9	4.6	0.37	0.16	9.82	1.4	215.93	**253.8**
S-2-SO-033	442030	8567182	58.2	1.52	0.81	0.43	1.97	0.28	30.6	0.17	17.7	5.29	3.2	0.24	0.14	7.39	1	128.94	**151.7**
S-2-SO-034	441985	8567207	62.5	1.6	0.96	0.32	2.35	0.34	36.9	0.19	19.7	6.15	3.3	0.28	0.17	8.59	1.2	144.55	**170.1**
S-2-SO-035	441927	8567235	55.2	1.3	0.86	0.3	2.04	0.27	35.3	0.18	18.6	5.79	3	0.25	0.13	7.33	1	131.55	**154.8**
S-2-SO-036	441869	8567255	48.4	1.44	1.05	0.28	1.8	0.26	32.2	0.21	16.3	4.97	2.5	0.2	0.15	8.14	1.1	119	**140.1**
S-2-SO-037	441812	8567279	69.6	1.78	1.13	0.4	2.56	0.36	43.7	0.24	23.3	7.15	3.8	0.34	0.18	9.91	1.4	165.85	**195.2**
S-2-SO-038	441783	8567322	59.5	1.58	0.99	0.29	2.11	0.3	36.7	0.18	19.2	6.18	3.3	0.29	0.16	7.8	1.3	139.88	**164.6**
S-2-SO-039	441764	8567366	62.1	1.67	1.05	0.34	2.1	0.33	41.2	0.21	21.2	6.45	3.1	0.29	0.17	9.08	1.4	150.69	**177.3**
S-2-SO-040	441751	8567405	45.1	1.41	0.97	0.31	1.83	0.27	32.8	0.21	15.4	4.77	2.3	0.25	0.17	8.48	1.1	115.37	**135.9**
S-2-SO-041	441712	8567415	51	1.46	1.07	0.29	1.83	0.3	33.5	0.21	16.5	5.23	2.7	0.23	0.14	8.04	1.2	123.7	**145.6**
S-2-SO-042	441655	8567445	42.8	1.28	0.94	0.29	1.71	0.31	29.9	0.19	14.3	4.49	2.3	0.22	0.15	7.48	1.1	107.46	**126.5**
S-2-SO-043	441611	8567470	70.8	1.5	1.19	0.33	2.31	0.31	45.2	0.24	23.1	7.14	3.1	0.27	0.19	8.8	1.4	165.88	**195.1**
S-2-SO-044	441567	8567467	50.2	1.22	0.84	0.27	1.79	0.26	33.6	0.17	16.6	5.22	2.6	0.21	0.13	7.32	1.1	121.53	**143.0**
S-2-SO-045	441522	8567464	59	1.35	1.01	0.36	1.94	0.3	38.3	0.22	19	5.89	2.8	0.26	0.16	7.46	1.2	139.25	**163.8**
S-2-SO-046	441469	8567463	76.3	2.11	1.34	0.51	2.74	0.42	47.8	0.28	25.7	7.88	4.2	0.36	0.19	11.43	1.5	182.76	**215.1**
S-2-SO-047	441433	8567462	65.3	2.04	1.37	0.54	2.46	0.43	43.1	0.26	22.5	7	3.6	0.32	0.24	11.73	1.6	162.49	**191.4**
S-2-SO-048	441372	8567448	38.5	1.18	0.88	0.25	1.58	0.24	26.3	0.18	12.3	3.99	1.8	0.2	0.13	6.5	1.2	95.23	**112.1**

CONTINUED

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-2-SO-049	441332	8567424	86	2.85	1.59	0.84	3.81	0.52	54.6	0.32	31.7	9.32	4.7	0.47	0.26	13.59	1.8	212.37	**250.0**
S-3-SO-001	437207	8571111	266.6	3.73	1.82	0.87	7.44	0.67	144.5	0.37	88.4	25.75	13	0.81	0.28	17.33	1.9	573.47	**673.5**
S-3-SO-002	437318	8571059	230.6	3.27	1.67	0.82	6.68	0.6	127.1	0.32	76.5	22.28	11.3	0.75	0.26	15.93	1.7	499.78	**587.0**
S-3-SO-003	437355	8571016	133.6	1.9	0.85	0.88	3.79	0.34	81.9	0.14	41.7	12.74	6.1	0.45	0.13	8.93	0.7	294.15	**345.5**
S-3-SO-004	437359	8570949	207.5	4.02	2.06	0.94	6.14	0.77	112.6	0.41	66.8	19.52	9.8	0.8	0.33	20.95	2.1	454.74	**534.7**
S-3-SO-005	437367	8570916	193.5	2.96	1.59	0.71	5.6	0.57	105.8	0.34	63	18.32	9	0.64	0.26	15.75	1.9	419.94	**493.4**
S-3-SO-006	437395	8570868	260.8	3.67	1.78	0.74	7.15	0.68	145.2	0.39	83.2	24.55	11.9	0.81	0.3	18.03	2	561.2	**659.2**
S-3-SO-007	437440	8570810	205	2.6	1.1	0.64	5.38	0.44	104.9	0.21	59	17.72	8.7	0.6	0.16	11.72	1.2	419.37	**492.4**
S-3-SO-008	437493	8570808	122.4	2.45	1.35	0.43	4.05	0.51	66.9	0.28	40.1	11.65	6.4	0.49	0.23	13.35	1.6	272.19	**320.1**
S-3-SO-009	437546	8570837	112.4	1.49	0.75	0.4	2.86	0.28	51.3	0.16	29.4	8.72	4.5	0.32	0.12	6.91	0.9	220.51	**259.0**
S-3-SO-010	437607	8570841	110.1	1.49	0.88	0.42	2.67	0.31	48.8	0.21	28.1	8.13	4.1	0.35	0.16	8.07	1.1	214.89	**252.5**
S-3-SO-011	437638	8570836	99.4	1.52	0.81	0.33	2.64	0.29	46.1	0.17	27.3	8.05	4.3	0.33	0.13	7.33	1	199.7	**234.6**
S-3-SO-012	437701	8570818	94.6	1.6	0.9	0.38	2.82	0.31	45.4	0.19	27.2	8.05	4.4	0.33	0.15	7.93	1.1	195.36	**229.6**
S-3-SO-013	437731	8570809	86.5	1.89	1.08	0.44	2.88	0.34	45.3	0.22	27.3	7.86	4.3	0.37	0.18	10.22	1.2	190.08	**223.6**
S-3-SO-014	437775	8570794	116.7	1.96	1.03	0.42	3.49	0.37	57.8	0.23	38.2	11.05	5.9	0.44	0.19	9.63	1.2	248.61	**292.1**
S-3-SO-015	437848	8570781	128.7	2.22	1.13	1.04	3.62	0.44	65.8	0.22	36.4	10.92	5.4	0.46	0.18	10.56	1.3	268.39	**315.4**
S-3-SO-016	437902	8570807	288.2	4.97	2.35	2.44	7.62	0.92	115.5	0.28	72.7	20.73	11.3	1.02	0.32	20.87	2	551.22	**647.6**
S-3-SO-017	437952	8570822	332.6	8.61	4.12	3.83	11.88	1.63	174.7	0.45	117.1	33.5	17.8	1.65	0.52	42.55	3	753.94	**887.1**
S-3-SO-018	438016	8570809	197.9	6.3	2.98	2.92	9.34	1.18	122.8	0.36	81.3	22.39	12.6	1.25	0.4	28.55	2.4	492.67	**579.7**
S-3-SO-019	438055	8570774	304.1	6.74	2.97	3.14	10.3	1.16	181.4	0.33	108.3	31.44	15.6	1.35	0.39	30.21	2.3	699.73	**822.5**
S-3-SO-020	438095	8570750	203.8	3.83	2.06	1.87	5.9	0.76	115.6	0.38	64	18.94	8.8	0.76	0.32	20.41	2.2	449.63	**528.6**
S-3-SO-021	438139	8570719	202.7	3.88	1.98	1.98	5.72	0.75	106.7	0.33	60.1	17.86	8.4	0.81	0.31	18.45	1.9	431.87	**507.6**
S-3-SO-022	438175	8570684	200.6	4.59	2.94	1.82	6.29	0.97	108.7	0.59	64.8	18.87	9.2	0.83	0.48	26.29	3.4	450.37	**529.9**
S-3-SO-023	438224	8570647	184.9	4	2.41	1.45	5.69	0.8	105.3	0.55	61	17.68	8.7	0.74	0.41	21.76	3.1	418.49	**492.2**
S-3-SO-024	438266	8570610	159	3.19	1.88	1.14	4.7	0.65	93	0.44	50.7	15.24	7.3	0.62	0.33	16.66	2.4	357.25	**420.0**
S-3-SO-025	438303	8570580	200.7	3.42	1.82	1.58	5.24	0.65	120.6	0.37	63	19.14	8.6	0.66	0.3	16.95	2.1	445.13	**523.1**
S-3-SO-026	438346	8570553	220.2	4.07	1.93	1.71	6.06	0.76	113.8	0.35	63.3	18.72	8.7	0.82	0.29	18.73	1.9	461.34	**542.2**
S-3-SO-027	438389	8570523	233.6	4.26	2.06	1.53	6.32	0.81	121.7	0.36	66.8	19.82	9.3	0.84	0.31	20.28	2.1	490.09	**576.0**
S-3-SO-028	438427	8570490	286.8	5.02	2.44	1.58	8.26	0.92	158.6	0.51	90.8	26.73	12.7	0.99	0.4	24.01	2.8	622.56	**731.6**
S-3-SO-029	438460	8570455	253.9	4.59	2.45	1.6	7.45	0.89	144.1	0.55	83.5	24.48	11.6	0.9	0.41	22.8	2.9	562.12	**660.6**
S-3-SO-030	438497	8570428	277.2	6.62	2.95	1.98	11.09	1.19	163.7	0.45	104	29.42	16.2	1.38	0.42	32.42	2.7	651.72	**766.4**

CONTINUED

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-3-SO-031	438558	8570389	170.2	3.7	1.98	1.23	6.38	0.69	94.2	0.43	58.4	16.76	9.4	0.77	0.33	19.28	2.4	386.15	**454.1**
S-3-SO-032	438605	8570366	159	3.33	1.62	0.91	6	0.58	87.5	0.3	52.7	15.21	8.4	0.71	0.25	16.51	1.7	354.72	**417.0**
S-3-SO-033	438648	8570332	155.9	3.2	1.41	0.95	5.24	0.56	83.3	0.25	48.3	14.19	8	0.62	0.21	14.35	1.4	337.88	**397.1**
S-3-SO-034	438687	8570300	155	2.97	1.32	0.5	4.98	0.5	77	0.28	44.5	12.99	7.3	0.63	0.21	13.29	1.5	322.97	**379.5**
S-3-SO-035	438720	8570258	78.5	1.77	0.94	0.4	2.93	0.34	44.9	0.23	24.4	7.09	4	0.37	0.15	9	1.1	176.12	**207.1**
S-3-SO-036	438754	8570229	77.2	1.59	0.76	0.36	2.57	0.29	39.3	0.16	20.8	6.19	3.5	0.31	0.12	7.43	0.9	161.48	**189.8**
S-3-SO-037	438793	8570200	63	1.15	0.55	0.26	1.87	0.21	31.9	0.13	15.7	4.6	2.6	0.23	0.09	4.98	0.6	127.87	**150.2**
S-3-SO-038	438835	8570171	83.5	1.47	0.6	0.32	2.86	0.25	43.2	0.11	23.9	7.02	4	0.34	0.09	6.28	0.6	174.54	**205.0**
S-3-SO-039	438879	8570139	54.5	1.3	0.78	0.3	1.89	0.24	30.5	0.19	15.2	4.44	2.5	0.25	0.13	6.86	1	120.08	**141.3**
S-3-SO-040	438922	8570098	44.7	1.31	0.92	0.24	1.85	0.29	27.3	0.25	15	4.19	2.5	0.25	0.15	8.19	1.3	108.44	**127.7**
S-3-SO-041	438967	8570072	69.3	1.82	1.2	0.41	2.87	0.39	39.7	0.32	24.7	6.97	4.1	0.36	0.2	10.7	1.7	164.74	**193.9**
S-3-SO-042	439014	8570052	65.7	1.47	0.92	0.29	2.66	0.3	37.3	0.24	22.2	6.31	3.9	0.32	0.17	8.4	1.3	151.48	**178.2**
S-3-SO-043	439054	8570025	148.7	3.5	1.95	0.43	5.45	0.72	77.5	0.4	49.6	14.1	8	0.72	0.32	19.46	2.4	333.25	**392.1**
S-3-SO-044	439121	8569995	226.8	3.44	1.26	0.89	7.59	0.57	124.6	0.26	74.4	21.47	11.9	0.84	0.2	13.95	1.7	489.87	**575.2**
S-3-SO-045	439176	8569974	115.4	2.29	1.27	0.47	3.88	0.51	62.7	0.35	37.9	11.12	5.8	0.55	0.26	10.94	1.7	255.14	**299.9**
S-3-SO-046	439232	8569982	138.3	2.08	1.03	0.42	3.97	0.41	75.3	0.24	42.5	12.76	6.4	0.52	0.2	9.71	1.2	295.04	**346.5**
S-3-SO-047	439222	8569982	119.7	1.99	0.99	0.43	3.87	0.36	63.2	0.24	37.6	10.88	5.8	0.48	0.18	9.68	1.2	256.6	**301.5**
S-3-SO-048	439268	8569994	96.3	1.65	0.76	0.37	3.13	0.3	52	0.17	28.4	8.5	4.8	0.37	0.13	7.52	0.9	205.3	**241.2**
S-3-SO-049	439318	8569997	109.5	2.14	0.96	0.37	3.9	0.36	61.1	0.22	35.5	10.38	5.7	0.48	0.17	9.82	1.3	241.9	**284.3**
S-3-SO-050	439370	8570001	142	2.59	1.13	0.42	4.96	0.5	75	0.23	47.8	13.49	7.8	0.63	0.21	11.6	1.2	309.56	**363.7**
S-3-SO-051	439411	8569969	87.7	1.9	0.97	0.32	3.34	0.34	48.4	0.23	29.9	8.65	4.9	0.42	0.17	9.21	1.3	197.75	**232.5**
S-3-SO-052	439418	8569920	68.3	1.49	0.87	0.25	2.37	0.27	37.7	0.19	22.3	6.51	3.5	0.3	0.15	7.03	1	152.23	**179.0**
S-3-SO-053	439427	8569869	58.4	1.33	0.84	0.26	2.03	0.27	33.4	0.19	20.2	5.65	3.1	0.27	0.14	7.3	1.1	134.48	**158.2**
S-3-SO-054	439431	8569814	68.4	1.6	0.94	0.27	2.42	0.33	40.3	0.21	23.4	6.74	3.5	0.32	0.17	8.28	1.2	158.08	**185.9**
S-3-SO-055	439435	8569772	40.5	1.1	0.76	0.2	1.53	0.25	23	0.17	13.6	3.96	2.1	0.22	0.15	6.3	1	94.84	**111.6**
S-3-SO-056	439445	8569726	34.7	1.09	0.73	0.21	1.41	0.25	20.5	0.18	11.8	3.36	1.9	0.18	0.13	6.3	1	83.74	**98.6**
S-3-SO-057	439481	8569692	34.9	1.14	0.77	0.2	1.29	0.22	20.6	0.18	11.4	3.27	1.8	0.2	0.13	6.08	0.9	83.08	**97.8**
S-3-SO-058	439525	8569666	36.3	1.07	0.79	0.25	1.37	0.25	20.5	0.18	11.8	3.34	1.9	0.21	0.13	6.42	1.1	85.61	**100.8**
S-3-SO-059	439570	8569643	32.3	0.97	0.69	0.27	1.4	0.21	17.8	0.16	10.8	3.03	1.8	0.18	0.11	5.92	0.8	76.44	**90.1**
S-3-SO-060	439613	8569618	26.6	1.08	0.72	0.18	1.28	0.23	15	0.17	9	2.57	1.7	0.19	0.13	6.02	1	65.87	**77.7**
S-3-SO-061	439660	8569601	29.4	1.03	0.81	0.21	1.26	0.25	17.5	0.19	9.7	2.8	1.6	0.18	0.13	6.76	1.1	72.92	**86.0**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-3-SO-062	439704	8569573	34.9	1.04	0.76	0.23	1.32	0.22	21.1	0.16	11.3	3.38	1.8	0.18	0.13	6.21	0.9	83.63	**98.5**
S-3-SO-063	439752	8569560	26.7	1.07	0.79	0.19	1.25	0.26	17.1	0.19	8.9	2.48	1.4	0.18	0.14	7.16	1	68.81	**81.2**
S-3-SO-064	439796	8569545	29.8	0.97	0.75	0.18	1.27	0.23	19	0.17	9.9	2.82	1.6	0.18	0.12	6.74	0.9	74.63	**88.0**
S-3-SO-065	439846	8569530	31.6	1.22	0.89	0.28	1.39	0.28	18.6	0.22	11	3.1	1.8	0.2	0.15	7.78	1.2	79.71	**94.0**
S-3-SO-066	439893	8569514	30.5	1.22	0.9	0.25	1.35	0.28	18.7	0.2	10.3	2.98	1.6	0.2	0.15	7.9	1.2	77.73	**91.7**
S-3-SO-067	439946	8569517	22.3	1.06	0.84	0.19	1.12	0.25	13.5	0.21	7.8	2.2	1.3	0.17	0.16	6.84	1.2	59.14	**69.9**
S-3-SO-068	439994	8569505	42.9	1.63	1.17	0.31	1.89	0.39	25.5	0.29	14.7	4.15	2.3	0.27	0.2	10.49	1.6	107.79	**127.2**
S-3-SO-069	440037	8569478	33.7	1.37	1.06	0.3	1.54	0.33	20.4	0.25	12.4	3.41	2	0.24	0.2	8.85	1.3	87.35	**103.1**
S-3-SO-070	440088	8569450	33.4	1.29	1.09	0.28	1.35	0.31	19.8	0.23	12	3.35	2.1	0.21	0.19	8.12	1.3	85.02	**100.3**
S-3-SO-071	440123	8569414	27.8	1.19	0.89	0.23	1.26	0.26	17.4	0.24	9.3	2.75	1.6	0.19	0.16	7.35	1.2	71.82	**84.8**
S-3-SO-072	440174	8569370	44	1.43	1.03	0.3	1.63	0.34	27	0.24	14.6	4.23	2.3	0.24	0.19	9.2	1.3	108.03	**127.4**
S-3-SO-073	440192	8569317	42.1	1.33	0.91	0.24	1.59	0.29	25.7	0.23	14.4	4.14	2.3	0.24	0.17	8.12	1.1	102.86	**121.2**
S-3-SO-074	440214	8569273	69.5	1.52	0.97	0.28	2.33	0.32	39.7	0.21	23.5	6.76	3.6	0.32	0.16	8.75	1.2	159.12	**187.2**
S-3-SO-075	440237	8569220	66.6	1.76	1.04	0.41	2.57	0.36	40	0.2	22.7	6.69	3.6	0.34	0.17	9.64	1.2	157.28	**185.1**
S-3-SO-076	440245	8569170	89.4	1.51	0.91	0.27	2.62	0.3	52.2	0.19	29.6	8.73	4	0.3	0.15	8.05	1.1	199.33	**234.3**
S-3-SO-077	440263	8569128	89.9	1.83	0.96	0.3	2.89	0.33	51.3	0.2	30.5	8.81	4.5	0.35	0.15	8.82	1.2	202.04	**237.5**
S-4-SO-001	439731	8568887	68.4	1.33	0.82	0.29	2.18	0.27	40.8	0.17	23	6.7	3.4	0.27	0.14	7.49	1.1	156.36	**183.9**
S-4-SO-002	439696	8568850	59.9	1.11	0.75	0.25	1.95	0.24	35.9	0.17	20.3	5.92	2.9	0.23	0.13	6.85	0.9	137.5	**161.7**
S-4-SO-003	439651	8568825	71.2	1.58	0.96	0.32	2.35	0.31	41.6	0.2	24.7	7.11	3.6	0.31	0.16	8.68	1.1	164.18	**193.1**
S-4-SO-004	439608	8568793	99.4	2.3	1.27	0.71	3.47	0.46	53.4	0.24	34.7	9.73	5.2	0.45	0.22	12.61	1.5	225.66	**265.5**
S-4-SO-005	439560	8568771	71.9	2.14	1.34	0.43	2.77	0.47	42.3	0.24	25.5	7.12	3.8	0.39	0.21	13.03	1.4	173.04	**203.9**
S-4-SO-006	439510	8568742	105.9	2.66	1.49	0.69	4.09	0.55	59.2	0.25	38.4	10.83	5.8	0.55	0.23	15.05	1.5	247.19	**290.9**
S-4-SO-007	439487	8568690	52.7	1.43	1.01	0.34	1.96	0.31	31.8	0.21	18.7	5.26	2.8	0.27	0.17	8.85	1.2	127.01	**149.6**
S-4-SO-008	439500	8568646	51.7	1.6	0.99	0.34	2.01	0.33	30.9	0.21	18	5.24	2.7	0.27	0.16	9.31	1.2	124.96	**147.2**
S-4-SO-009	439506	8568596	52.9	1.43	1.01	0.28	1.78	0.32	32	0.21	17.9	5.16	2.6	0.24	0.17	9.12	1.3	126.42	**148.9**
S-4-SO-010	439513	8568545	37	0.99	0.76	0.2	1.33	0.23	23.5	0.17	12.5	3.65	1.8	0.19	0.12	6.04	1	89.48	**105.4**
S-4-SO-011	439523	8568486	51.2	1.42	0.95	0.3	1.92	0.3	31.9	0.18	17.7	5.08	2.8	0.27	0.17	8.35	1	123.54	**145.5**
S-4-SO-012	439535	8568435	59.6	1.46	0.94	0.32	2.03	0.32	34.1	0.21	20.3	5.83	3	0.26	0.16	8.65	1.1	138.28	**162.8**
S-4-SO-013	439533	8568381	52.2	1.22	0.8	0.31	1.75	0.27	29.6	0.17	17.6	5.07	2.6	0.22	0.12	6.93	0.9	119.76	**140.9**
S-4-SO-014	439535	8568327	39.8	1.08	0.72	0.24	1.32	0.24	24.7	0.17	12.9	3.86	2	0.18	0.13	6.31	0.9	94.55	**111.3**
S-4-SO-015	439533	8568275	59.6	1.12	0.71	0.27	1.75	0.24	35.3	0.14	19.9	5.77	2.9	0.21	0.11	6.13	0.9	135.05	**158.8**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO[19]
S-4-SO-016	439545	8568221	60.3	1.36	0.73	0.4	2.02	0.29	35.1	0.18	20.9	6.02	3	0.31	0.16	6.8	1	138.57	**162.9**
S-4-SO-017	439570	8568158	47.7	1.02	0.67	0.32	1.48	0.24	27.6	0.16	15.8	4.58	2.5	0.22	0.13	5.86	0.9	109.18	**128.4**

Jequie North - Rock Chip Sampling

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	**ppm**
ROCK 6	437018	8568491	99.4	0.92	0.32	0.96	2.4	0.13	55	0.05	33.3	10.4	4.5	0.23	0.05	3.35	0.2	211.2	**247.8**
ROCK 7	437248	8568636	88.2	1.04	0.35	1.42	2.25	0.17	51.6	0.05	29	9.13	4.3	0.24	0.05	4.2	0.3	192.3	**225.7**
ROCK 15	444006	8568201	41.2	1.28	0.99	0.48	1.12	0.34	30.1	0.12	9.9	3.82	1.5	0.18	0.15	8.91	1	101.1	**119.2**
S-3-RO-001	439296	8570019	86.3	1.07	0.33	0.64	3.08	0.18	48	0.05	28.1	8.43	4.5	0.33	0	4.1	0.3	185.4	**217.6**
S-3-RO-002	439296	8570019	73.2	2.79	1.23	0.59	3.76	0.51	40.4	0.22	24.8	7.36	4.4	0.57	0.21	13.33	1.9	175.3	**206.5**
S-3-RO-003	437339	8571068	84.3	1	0.45	0.75	2.66	0.21	49.4	0.05	27.8	8.24	4.1	0.29	0	5.1	0.3	184.7	**216.8**
S-3-RO-004	437390	8570891	184.1	2.62	1.42	1.06	4.37	0.55	55.3	0.16	34.5	9.55	5.3	0.55	0.18	15.81	1.1	316.6	**372.2**
S-3-RO-005	437594	8570844	80.9	0.84	0.47	1.01	1.9	0.18	51.7	0.09	25.2	7.74	3	0.22	0.07	4.96	0.4	178.7	**209.8**
S-3-RO-006	438020	8570767	230.2	8.11	4.38	2.77	11.29	1.67	118.5	0.59	90.5	24.82	14.3	1.59	0.64	42.19	3.8	555.4	**654.3**
S-3-RO-007	438594	8570374	124.8	1.74	0.72	1	3.54	0.32	66.5	0.1	42.8	12.54	5.7	0.42	0.09	8.07	0.5	268.8	**315.7**
S-3-RO-008	438878	8570155	63	0.69	0.33	0.68	2.16	0.19	37.9	0.1	21.4	6.35	3.2	0.28	0.1	2.84	0.2	139.4	**163.6**
S-3-RO-009	439302	8570020	54.2	0.92	0.48	0.18	2.15	0.18	30.2	0.08	17.7	5.25	2.8	0.25	0.06	3.95	0.5	118.9	**139.6**
S-3-RO-010	439307	8570028	51.1	0.93	0.41	0.19	2.14	0.18	30.5	0.08	17.6	5.22	3	0.24	0.07	4.37	0.4	116.4	**136.8**
AMA-RO-001	439276	8564434	29.2	2.4	1.76	0.36	1.46	0.59	16.3	0.26	9.1	2.88	1.3	0.33	0.29	17.74	1.9	85.9	**102.2**
AMA-RO-002	438420	8565787	52.1	0.9	0.5	1.04	1.99	0.2	29.4	0.06	18.8	5.31	2.9	0.24	0.06	5.05	0.3	118.9	**139.7**
AMA-RO-003	439195	8562318	74	3.19	1.73	1.45	4.7	0.67	36.3	0.22	32.5	8.31	5.5	0.65	0.25	16.72	1.4	187.6	**221.2**
AMA-RO-004	439195	8562318	77.3	3.23	1.64	1.48	4.58	0.64	40.9	0.21	32.4	8.28	5.5	0.62	0.24	16.85	1.3	195.2	**230.1**
AMA-RO-005	439258	8562303	58.5	2.58	1.35	1.03	2.98	0.53	30.8	0.17	20.4	5.8	3.4	0.49	0.2	13.17	1.1	142.5	**168.1**

Jequie South - Soil Sampling

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Ppm	ppm
ACA-SO-026	397578	8411858	24.4	4.04	3.53	0.23	2.35	1.05	12.1	0.66	7	2.04	1.6	0.54	0.59	28.94	4.1	93.2	**111.6**
ACA-SO-027	397498	8411872	74.1	1.76	1.17	0.28	1.71	0.4	20.6	0.29	10.1	2.96	1.9	0.3	0.21	9.59	1.6	127.0	**149.5**
ACA-SO-028	397387	8411869	105.1	6.78	4.66	0.45	4.34	1.55	47	0.73	16.3	5.02	3.6	0.92	0.7	42.53	4.6	244.3	**289.8**
ACA-SO-029	397310	8411886	52.6	1	0.7	0.11	0.71	0.21	4.8	0.18	2.8	0.89	0.7	0.15	0.12	5.11	1	71.1	**83.7**
ACA-SO-030	397214	8411852	8.9	0.82	0.61	0.14	0.57	0.2	4.7	0.13	2.3	0.75	0.6	0.12	0.11	4.39	0.8	25.1	**29.8**
ACA-SO-031	397110	8411842	11.4	1.4	1.17	0.16	0.97	0.35	7.5	0.21	3.4	1.15	0.8	0.2	0.2	9.61	1.2	39.7	**47.3**
ACA-SO-032	397020	8411863	25.8	1.22	0.89	0.27	1.06	0.27	25.6	0.21	7	2.54	1.2	0.2	0.15	7	1.1	74.5	**87.9**
ACA-SO-033	396927	8411896	41.3	1.18	0.74	0.28	1.32	0.25	26	0.14	8.6	2.88	1.5	0.22	0.11	5.91	0.8	91.2	**107.4**
ACA-SO-034	396830	8411915	40.2	1.41	0.96	0.38	1.59	0.33	22.6	0.2	10.7	3.36	1.9	0.23	0.16	8.24	1.1	93.4	**110.1**
ACA-SO-035	396706	8411884	36.2	1.72	1.22	0.24	1.73	0.37	27	0.25	13	4.07	2.3	0.28	0.2	10.06	1.4	100.0	**118.1**
ACA-SO-036	396632	8411879	98.8	2.02	1.09	0.59	2.69	0.37	46.9	0.19	22.6	7.01	3.7	0.39	0.16	8.83	1.1	196.4	**230.9**
ACA-SO-037	396573	8411949	73.7	1.6	0.9	0.51	2.46	0.31	43.7	0.19	23.9	7.31	3.8	0.31	0.13	8.01	0.9	167.7	**197.2**
ACA-SO-038	396482	8412036	105.6	2.44	1.28	0.51	3.23	0.48	67.1	0.25	33.3	10.35	5	0.45	0.2	12.44	1.3	243.9	**286.9**
ACA-SO-039	396425	8412008	40	1.24	0.63	0.33	1.57	0.22	39	0.14	12.7	4.17	2	0.23	0.1	5.72	0.8	108.9	**128.0**
ACA-SO-040	396326	8411929	34.5	1.32	0.74	0.25	1.62	0.28	31.7	0.14	11.4	3.72	2	0.24	0.12	6.32	0.8	95.2	**112.0**
ACA-SO-041	396230	8411893	52	1.21	0.69	0.35	1.83	0.25	27.6	0.14	14.3	4.42	2.3	0.24	0.12	6.69	0.9	113.0	**133.0**
ACA-SO-042	396141	8411883	67.1	1.39	0.78	0.26	2.09	0.27	34.5	0.13	19.7	6.06	3	0.28	0.11	7.1	0.8	143.6	**168.8**
ACA-SO-043	396055	8411894	24.4	1	0.66	0.25	1.2	0.21	18.3	0.16	9.3	2.83	1.5	0.18	0.12	5.6	0.9	66.6	**78.5**
ACA-SO-044	395963	8411950	25.3	0.96	0.65	0.14	1.04	0.21	15.6	0.14	8.7	2.61	1.5	0.17	0.11	5.59	0.9	63.6	**75.0**
ACA-SO-045	395879	8412023	9.3	0.54	0.43	0.11	0.56	0.12	8.1	0.1	3.4	1.19	0.6	0.1	0.07	3.38	0.5	28.5	**33.7**
ACA-SO-046	395798	8412083	13.6	0.75	0.57	0.13	0.82	0.19	9.6	0.14	4.9	1.56	1	0.13	0.1	4.82	0.8	39.1	**46.2**
ACA-SO-047	395693	8412134	16.4	0.87	0.57	0.23	0.89	0.24	9.7	0.2	5.5	1.82	1.1	0.2	0.16	4.65	0.8	43.3	**51.1**
ACA-SO-048	395602	8412124	64.2	1.68	1	0.21	2.39	0.38	29.1	0.22	19.6	5.72	3.4	0.33	0.18	9.28	1.1	138.8	**163.4**
ACA-SO-049	395507	8412126	17.4	0.82	0.56	0.16	0.95	0.2	8.9	0.15	5.9	1.86	1.2	0.15	0.11	4.99	0.7	44.1	**52.0**
ACA-SO-050	395395	8412129	12	0.93	0.59	0.23	0.76	0.18	3.4	0.14	2.7	0.87	0.8	0.15	0.11	3.93	0.7	27.5	**32.5**

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
ACA-SO-051	395291	8412200	75.9	1.24	0.68	0.27	2.39	0.24	40.2	0.15	26.5	7.72	3.8	0.28	0.12	6.26	0.8	166.6	**195.7**
ACA-SO-052	395197	8412210	21.5	0.89	0.65	0.18	0.94	0.2	10.1	0.15	6.8	2.09	1.3	0.14	0.1	4.89	0.8	50.7	**59.8**
ACA-SO-053	395111	8412232	83.8	1.13	0.64	0.2	1.89	0.22	27.1	0.11	17.4	5.01	2.6	0.23	0.09	5.71	0.7	146.8	**172.5**
ACA-SO-054	395060	8412210	94.2	1.91	0.85	0.29	3.18	0.35	43.4	0.11	27.6	8.1	4.8	0.41	0.12	8.95	0.7	195.0	**229.2**
ACA-SO-055	395000	8412131	73.1	1.29	0.7	0.19	1.92	0.26	26.4	0.14	16	4.81	2.6	0.27	0.11	6.93	0.8	135.5	**159.4**
ACA-SO-056	394900	8412080	94.2	2.82	1.53	0.53	4.35	0.55	51	0.3	35.2	9.98	5.7	0.55	0.23	14.89	1.7	223.5	**263.2**
ACA-SO-057	394810	8412015	84.8	2.88	1.53	0.91	3.71	0.54	44.8	0.26	27.1	8.03	5	0.48	0.23	12.74	1.6	194.6	**229.1**
ACA-SO-058	394744	8411970	17.2	0.74	0.61	0.14	0.69	0.16	10.2	0.1	4.5	1.63	0.7	0.1	0.09	3.38	0.7	40.9	**48.2**
ACA-SO-059	394729	8411893	14.8	0.63	0.55	0.06	0.52	0.15	8.2	0.11	2.4	0.97	0.5	0.08	0.09	3.29	0.6	33.0	**38.9**
ACA-SO-060	394636	8411800	19.2	0.66	0.54	0.13	0.54	0.16	9.4	0.09	4.2	1.31	0.7	0.1	0.07	3.21	0.6	40.9	**48.2**
ACA-SO-061	394562	8411748	46.7	0.74	0.5	0.18	0.81	0.15	11.8	0.11	5.5	1.71	0.8	0.12	0.1	3.42	0.6	73.2	**86.1**
ACA-SO-062	394500	8411696	11.8	0.66	0.49	0.09	0.39	0.16	7.6	0.12	2.5	0.87	0.5	0.09	0.1	2.69	0.6	28.7	**33.8**
ACA-SO-063	394450	8411623	17.8	1.13	0.84	0.1	0.74	0.23	10.7	0.14	5	1.52	0.7	0.12	0.12	6.07	0.9	46.1	**54.5**
ACA-SO-064	394268	8411554	49.8	1.31	0.79	0.18	1.78	0.28	29.8	0.15	15.9	4.85	2.2	0.2	0.12	6.46	0.9	114.7	**135.0**
ACA-SO-065	394188	8411454	49.4	1.39	0.81	0.26	1.8	0.24	32.4	0.17	16	4.68	2.3	0.23	0.14	6.07	0.9	116.8	**137.3**
ACA-SO-066	394119	8411377	70.2	1.12	0.77	0.18	1.42	0.21	28.3	0.13	14.3	4.39	2.3	0.18	0.12	5.05	0.9	129.6	**152.2**
ACA-SO-067	394054	8411300	59.5	1.39	0.77	0.2	1.44	0.25	26.4	0.18	13.3	3.9	2	0.22	0.15	6.06	0.9	116.7	**137.2**
ACA-SO-068	393985	8411218	32	1.32	0.91	0.2	1.42	0.26	21.4	0.17	9.7	3.07	1.9	0.18	0.14	8.13	1	81.8	**96.5**
ACA-SO-069	393908	8411148	28.8	1.07	0.65	0.17	1.34	0.22	19.5	0.13	9.3	2.86	1.9	0.18	0.11	6.19	0.8	73.2	**86.3**
ACA-SO-070	393796	8411085	29.5	0.85	0.69	0.09	0.9	0.19	16.8	0.15	7.9	2.42	1.4	0.14	0.1	4.09	0.8	66.0	**77.7**
ACA-SO-071	393687	8411027	15.8	0.89	0.72	0.12	0.62	0.2	9	0.17	3	1	0.8	0.11	0.13	4.05	1	37.6	**44.4**
ACA-SO-072	393889	8410990	11.7	0.61	0.51	0.07	0.51	0.11	6.6	0.11	2.6	0.9	0.6	0.09	0.08	2.39	0.6	27.5	**32.4**
ACA-SO-073	393887	8411024	62.2	1.11	0.86	0.12	1.85	0.24	36	0.18	18.3	5.95	3	0.18	0.15	6.28	1.1	137.5	**161.7**
ACA-SO-074	393902	8410974	30.3	0.56	0.42	0.09	0.71	0.13	19.1	0.11	7.5	2.6	1.1	0.1	0.09	2.41	0.6	65.8	**77.3**
ACA-SO-075	393913	8410930	31.2	1.26	0.87	0.11	1.4	0.24	16.3	0.19	9.4	2.93	1.7	0.19	0.13	5.28	1.1	72.3	**85.1**
ACA-SO-076	393937	8410883	33.3	0.83	0.68	0.14	0.87	0.18	15.9	0.15	7.5	2.32	1.2	0.13	0.09	3.8	0.9	68.0	**80.0**
ACA-SO-077	393957	8410833	25.1	0.62	0.44	0.1	0.67	0.12	13.5	0.11	6.3	2.11	1	0.09	0.08	2.28	0.7	53.2	**62.5**
ACA-SO-078	394059	8410788	38.5	0.54	0.32	0.13	0.86	0.1	21.8	0.08	9.9	3.17	1.4	0.09	0	1.74	0.4	79.0	**92.7**
ACA-SO-079	394075	8410726	11.4	0.35	0.23	0.1	0.2	0.05	8.1	0.07	1.6	0.67	0.3	0	0	0.7	0.5	24.3	**28.5**
ACA-SO-080	394104	8410673	59.5	1.36	0.82	0.17	1.97	0.22	33.9	0.16	18.7	5.83	3	0.23	0.13	6	1	133.0	**156.3**
ACA-SO-081	394126	8410601	150.1	2.76	1.36	0.29	4.99	0.46	70.7	0.2	44.3	13.73	7.2	0.54	0.2	11.88	1.3	310.0	**364.3**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
ACA-SO-082	394123	8410539	46.2	1.61	0.96	0.22	1.96	0.29	28	0.24	14.5	4.52	2.8	0.28	0.16	7.59	1.2	110.5	**130.1**
ACA-SO-083	394106	8410479	41.7	1.62	1.01	0.25	1.88	0.32	25.2	0.21	13	4.13	2.4	0.27	0.17	7.29	1.2	100.7	**118.5**
ACA-SO-084	394106	8410439	90.6	2.01	0.96	0.3	3.14	0.34	49.3	0.15	27.4	8.59	4.5	0.38	0.13	8.28	1	197.1	**231.6**
ACA-SO-085	394135	8410392	145.3	2.43	1.09	0.39	3.34	0.4	45.8	0.14	26.6	8.46	4.7	0.48	0.15	9.07	0.9	249.3	**292.8**
ACA-SO-086	394181	8410352	121.3	2.12	0.95	0.36	4.11	0.34	61.7	0.12	35.5	11.07	5.8	0.38	0.14	8.02	1.1	253.0	**297.1**
ACA-SO-087	394201	8410307	54.9	1.46	0.77	0.38	2.33	0.3	35.5	0.15	18.2	5.86	3.1	0.29	0.12	5.65	1.1	130.1	**152.9**
ACA-SO-088	394222	8410266	28	0.74	0.48	0.19	0.73	0.16	14.3	0.11	5.6	1.85	1	0.1	0.08	2.37	0.6	56.3	**66.1**
ACA-SO-089	394238	8410207	19.9	0.81	0.53	0.21	0.94	0.18	12.4	0.09	5.7	1.78	1	0.11	0.08	3.21	0.6	47.5	**56.0**
ACA-SO-090	394260	8410172	78.1	1.72	0.86	0.27	2.91	0.29	40	0.11	23.5	7.42	4.1	0.34	0.13	6.87	0.9	167.5	**196.9**
ACA-SO-091	394287	8410118	70.3	1.96	1.22	0.35	2.28	0.43	25	0.22	14.3	4.57	2.6	0.3	0.22	8.43	1.5	133.7	**157.3**
ACA-SO-092	394327	8410074	108.5	3.11	1.88	0.29	4.45	0.63	58.8	0.33	31.5	9.99	5.8	0.54	0.3	16.11	2	244.2	**287.5**
ACA-SO-093	394343	8410032	143.6	4.34	2.33	0.41	6.3	0.78	91.9	0.39	46.3	14.79	7.9	0.78	0.34	20.06	2.2	342.4	**402.9**
ACA-SO-094	394368	8409982	177.5	3.43	1.77	0.5	4.89	0.6	79.9	0.29	40.8	12.73	6.4	0.59	0.24	14.62	1.7	346.0	**406.6**
ACA-SO-095	394413	8409932	214.7	4.32	1.96	0.64	7.21	0.73	106.1	0.25	58.7	18.28	10.1	0.85	0.26	18.16	1.7	444.0	**521.7**
ACA-SO-096	394412	8409903	170.8	4.15	2.38	0.48	6.22	0.78	96.9	0.39	53.7	16.66	8.5	0.76	0.36	19.98	2.5	384.6	**452.3**
ACA-SO-097	394429	8409819	139.1	3.43	1.78	0.69	5.03	0.63	77.6	0.28	45.1	14.36	7.5	0.63	0.26	15.92	1.8	314.1	**369.4**
ACA-SO-098	394436	8409773	84.5	1.85	1.36	0.19	2.78	0.4	46.4	0.36	26.2	8.22	3.6	0.31	0.24	10.18	2	188.6	**221.8**
ACA-SO-099	394432	8409722	50.8	1.35	0.95	0.14	1.59	0.29	28.9	0.24	14.4	4.78	2.1	0.19	0.17	6.73	1.3	113.9	**134.1**
ACA-SO-100	394412	8409674	38.3	1.16	0.89	0.1	1.32	0.24	21.6	0.18	10.7	3.53	2	0.19	0.13	6.39	1.1	87.8	**103.4**
ACA-SO-101	394380	8409628	37.4	1.32	1.03	0.13	1.4	0.29	20.8	0.2	10.2	3.35	1.6	0.22	0.17	7.12	1.2	86.4	**101.9**
ACA-SO-102	394339	8409590	51.3	1.86	1.22	0.19	2.18	0.33	27.6	0.18	17	4.82	2.9	0.32	0.19	9.55	1.3	120.9	**142.5**
ACA-SO-103	394290	8409560	48.5	1.69	1.26	0.17	1.95	0.34	25.6	0.23	14.3	4.55	2.4	0.28	0.18	8.6	1.6	111.7	**131.5**
ACA-SO-104	394243	8409544	74.7	2.27	1.22	0.19	3.24	0.41	34.5	0.25	20.9	6.82	4.2	0.44	0.23	10.27	1.6	161.2	**189.8**
ACA-SO-105	394200	8409520	54	2.14	1.7	0.15	2.31	0.47	25.4	0.34	14.7	4.33	2.4	0.3	0.27	13.43	2	123.9	**146.3**
ACA-SO-106	394012	8409510	50.4	2.02	1.37	0.12	2.11	0.38	24	0.29	14.3	4.19	2.5	0.3	0.21	10.52	1.7	114.4	**134.9**
DAM-SO-001	394078	8404064	35.1	0.38	0.27	0.1	0.8	0.06	15.3	0	8.7	2.85	1.3	0.06	0	0.53	0.3	65.8	**77.1**
DAM-SO-002	394166	8404097	45.5	1.45	0.93	0.21	1.53	0.27	25.5	0.2	11.8	3.56	1.8	0.21	0.14	6.82	1	100.9	**118.8**
DAM-SO-003	394245	8404155	199.8	0.56	0.37	0.13	0.68	0.1	15.5	0.08	6.1	2.15	0.9	0.1	0.05	2	0.4	228.9	**268.3**
DAM-SO-004	394321	8404195	25	0.65	0.47	0.09	0.72	0.12	12.1	0.08	4.4	1.32	0.6	0.09	0.06	2.5	0.5	48.7	**57.2**
DAM-SO-005	394419	8404279	112.8	0.21	0.2	0.11	0.17	0.05	5.7	0.06	1.9	0.6	0.2	0	0	0.45	0.3	122.8	**143.8**
DAM-SO-006	394500	8404313	156.3	1.7	0.91	0.51	3.09	0.31	68.9	0.16	36.3	11.42	5.2	0.33	0.13	6.55	1.1	292.9	**343.8**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
DAM-SO-007	394601	8404391	147.7	0.86	0.61	0.2	1.27	0.2	22.9	0.13	10.1	3.33	1.8	0.19	0.09	3.98	0.6	194.0	**227.5**
DAM-SO-008	394730	8404443	147.8	6.31	2.53	4.94	12.41	0.95	246.1	0.26	124.9	39.27	18.7	1.2	0.29	25.22	1.9	632.8	**743.9**
DAM-SO-009	394823	8404437	65.3	1.1	0.6	0.42	1.36	0.15	21.2	0.09	11.1	3.59	2.3	0.18	0.09	2.89	0.6	111.0	**130.2**
DAM-SO-010	394919	8404455	163.9	0.78	0.4	1.13	1.78	0.12	55.5	0.08	32.1	10.05	3.8	0.16	0.06	2.23	0.4	272.5	**319.5**
DAM-SO-011	394996	8404403	73.7	0.88	0.55	0.39	1.3	0.17	28.7	0.11	14	4.63	2.3	0.16	0.09	3.4	0.6	131.0	**153.7**
DAM-SO-012	395091	8404345	158	0.76	0.45	0.73	1.6	0.15	40.2	0.07	22.6	7.05	2.8	0.17	0.07	2.39	0.4	237.4	**278.4**
DAM-SO-013	395168	8404314	63.9	1.21	0.68	0.44	1.63	0.22	25.2	0.15	14.1	4.42	2.3	0.22	0.11	4.46	0.9	119.9	**140.9**
DAM-SO-014	395312	8404274	156	1.16	0.62	0.51	1.67	0.18	43	0.09	19.5	6.7	2.5	0.19	0.09	3.75	0.6	236.6	**277.5**
DAM-SO-015	395480	8404179	70.1	0.75	0.38	0.33	1.16	0.13	28.4	0.07	10.6	3.58	1.5	0.14	0	2.72	0.4	120.3	**141.1**
DAM-SO-016	395584	8404102	56.8	2.02	1.18	0.6	2.25	0.38	22.9	0.19	16.3	4.74	3	0.32	0.16	8.63	1.3	120.8	**142.2**
DAM-SO-017	395778	8404048	100.3	3.45	1.9	1.07	4.63	0.63	50.4	0.24	34.8	10.11	6.1	0.57	0.28	16.1	1.7	232.3	**273.5**
DAM-SO-018	396031	8403926	67.1	5.27	4.04	0.43	3.82	1.13	30.7	0.77	18.2	5.45	3.7	0.65	0.65	31.67	4.5	178.1	**211.3**
DAM-SO-019	396115	8403783	40.6	1.25	0.8	0.67	1.71	0.25	20.5	0.12	13.6	3.84	2.4	0.21	0.11	6.54	0.8	93.4	**110.0**
DAM-SO-020	396213	8403762	42.1	2.78	1.9	0.39	2.24	0.59	12.5	0.31	8.1	2.32	2.1	0.37	0.29	15.6	2.1	93.7	**111.0**
DAM-SO-021	396364	8403729	136.4	25.88	17.58	1.17	17.25	5.28	62	1.97	47.6	13.05	12.7	3.39	2.34	150.3	14.5	511.4	**611.8**
DAM-SO-022	396447	8403700	81.2	4.62	2.86	0.62	3.67	0.91	24.6	0.36	15.5	4.69	3.6	0.64	0.42	25.3	2.8	171.8	**203.4**
DAM-SO-023	396542	8403777	162.6	1.84	1.06	0.22	2.45	0.35	27	0.15	16.5	5.07	3	0.33	0.15	8.39	1.1	230.2	**270.3**
DAM-SO-024	396796	8403830	122.6	1.28	0.67	0.53	1.82	0.23	19.3	0.11	12.6	3.84	2.6	0.24	0.08	4.73	0.7	171.3	**201.1**
DAM-SO-025	396861	8403951	68.4	3.77	2.2	1.19	4.81	0.67	56.2	0.26	36	10.68	6.4	0.57	0.29	17.6	1.9	210.9	**248.6**
DAM-SO-026	397000	8403988	308.3	1.47	0.98	0.32	1.56	0.28	20.9	0.14	9.9	3.02	1.8	0.26	0.14	6.38	1.1	356.6	**418.1**
DAM-SO-027	397069	8404025	109.5	3.75	2.04	1.82	4.41	0.69	41.2	0.33	25.8	7.59	5	0.62	0.31	17.2	2.1	222.4	**261.9**
DAM-SO-028	397229	8404070	124.4	2.59	1.38	2.14	3.96	0.48	55.6	0.2	36.3	10.55	5.5	0.42	0.21	11.49	1.4	256.6	**301.6**
DAM-SO-029	397264	8404118	178.5	9.74	5.38	2.12	10.86	1.74	90.4	0.65	70.4	20.25	13.6	1.5	0.75	41.63	5.1	452.6	**533.7**
DAM-SO-030	397396	8404192	308.3	10.57	6.1	2.17	12.75	2.04	148.1	0.77	92.3	27.39	16	1.8	0.87	52.61	5.2	687.0	**809.3**
DAM-SO-031	397496	8404219	102.9	5.4	3.22	1.35	6.12	1	59.1	0.37	39.3	11.5	7.7	0.89	0.44	26.5	2.8	268.6	**316.9**
DAM-SO-032	397616	8404196	134.2	3.37	2.14	0.84	3.5	0.65	35.2	0.43	19.6	5.74	3.6	0.52	0.35	17.57	2.6	230.3	**271.2**
DAM-SO-033	397707	8404147	137.4	3.46	2.09	0.64	4.08	0.63	59.9	0.4	34	10.42	5.7	0.56	0.33	17.09	2.4	279.1	**328.4**
DAM-SO-034	397824	8404104	31.3	2.06	1.88	0.21	1.41	0.46	16.4	0.56	8.7	2.77	1.4	0.24	0.32	12.99	2.9	83.6	**99.0**
DAM-SO-035	397920	8404110	126.4	4.1	2.68	1.11	4.16	0.75	48.5	0.44	27	8.42	4.9	0.57	0.39	20.47	2.9	252.8	**297.8**
DAM-SO-036	398030	8404117	130.4	2.52	1.44	0.63	2.45	0.46	41.6	0.17	17	5.52	2.6	0.38	0.18	13.2	1.2	219.8	**258.6**
DAM-SO-037	398111	8404102	82.2	3.27	1.74	1.11	3.81	0.56	43.7	0.23	27.8	8.16	5	0.54	0.24	13.04	1.5	192.9	**227.1**

-C-O-N-T-I-N-U-E-D

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	REE	TREO
DAM-SO-038	398183	8404084	218.7	8.24	5.44	2.14	9.3	1.65	119.5	0.7	64.7	20.18	11.2	1.25	0.71	42.87	5.2	511.8	**603.2**
DAM-SO-039	398232	8404042	61.1	3.36	2.33	0.8	3.11	0.71	23.8	0.38	16.9	4.7	3.3	0.48	0.33	17.48	2.5	141.3	**166.9**
DAM-SO-040	398271	8403988	228.8	11.03	6.21	4	13.56	2.02	91.4	0.8	89	23.46	17.1	1.81	0.87	47.65	5.7	543.4	**640.4**
DAM-SO-041	398296	8403893	327.7	10.28	5.94	3	11.6	1.87	102.1	0.8	78.4	21.84	14.1	1.59	0.8	50.8	5.5	636.3	**749.7**
DAM-SO-042	398357	8403806	376.7	87.53	48.25	24.29	105.9	16.28	657.5	5.52	513.1	140.64	104.2	14.26	6.41	476.54	39.9	2617.0	**3,106.7**
DAM-SO-043	398357	8403699	138.3	10.9	6.4	2.12	11.68	2.06	84.8	0.86	61.1	17.65	12.7	1.7	0.92	55.85	5.9	412.9	**488.5**

Jequie South – Rock Chip Sampling

Sample ID	X Co-ord	Y Co-ord	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	Tb	Tm	Y	Yb	RRE	TREO
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	**ppm**
ACA-RO-001	394100	8410585	138.9	4.13	3.02	0.77	5.17	1	70.7	0.42	47.9	14.08	7.2	0.73	0.46	26.43	2.8	323.7	**381.6**
ACA-RO-002	394100	8410585	127.1	1.88	0.64	0.94	4.41	0.31	65.3	0.08	44.5	12.94	6.8	0.51	0.07	7.9	0.4	273.8	**321.5**
ACA-RO-003	394339	8410010	94.5	3.66	1.7	1.2	5.06	0.68	58.3	0.17	35.9	10.51	5.7	0.71	0.19	18.12	1.1	237.5	**279.8**
ACA-RO-004	394044	8410465	163.9	2.48	1	0.31	5.43	0.45	81.7	0.15	55.1	16.13	8.6	0.62	0.13	10.9	0.8	347.7	**408.4**
ACA-RO-005	395395	8412200	115.8	3.06	1.68	0.9	4.69	0.64	60	0.27	39.9	11.74	6.1	0.63	0.25	16.93	1.7	264.3	**311.1**
ACA-RO-006	395140	8412242	134.8	3.52	1.24	0.76	6.76	0.59	68.8	0.13	48.3	13.67	8.5	0.82	0.14	15.06	0.8	303.9	**357.3**
ACA-RO-007	394450	8411554	441.7	1.98	0.51	1.2	9.08	0.27	241.9	0	148.1	44.17	18.3	0.72	0	6.77	0.3	915.0	**1073.0**
ACA-RO-008	394989	8412060	83.7	3.77	1.93	0.61	5.26	0.75	42.4	0.27	31.5	8.74	5.9	0.77	0.27	20.24	1.7	207.8	**245.2**
ACA-RO-009	394989	8412060	54.5	2.79	2.18	0.72	3.39	0.68	28.4	0.4	21	5.87	3.7	0.51	0.36	19.4	2.4	146.3	**173.0**
ACA-RO-009	394989	8412060	58.5	2.93	2.28	0.68	3.66	0.74	30.4	0.41	23	6.32	4.1	0.54	0.39	20.4	2.6	157.0	**185.6**
ACA-RO-010	394248	8410104	43.1	3.05	1.65	1.07	3.82	0.61	22.5	0.21	19.9	4.91	4	0.58	0.23	16.02	1.3	123.0	**145.4**
ACA-RO-011	394331	8409950	94.9	1.71	0.75	0.77	3.17	0.33	53.3	0.07	29.1	8.95	4.4	0.4	0.08	8.46	0.5	206.9	**243.2**
DAM-RO-001	396759	8403868	46.4	0.85	0.44	0.35	1.51	0.19	19.5	0.07	12.1	3.65	1.8	0.19	0.06	4.46	0.3	91.9	**108.0**
DAM-RO-002	397229	8404118	152.7	2.24	0.86	1.06	4.75	0.38	75.4	0.09	49.1	14.46	6.9	0.54	0.1	9.05	0.6	318.2	**373.7**
DAM-RO-003	397977	8404090	75.9	2.51	1.27	0.54	3.42	0.5	38.7	0.11	27.1	7.72	4.1	0.49	0.16	11.33	0.9	174.8	**205.7**
DAM-RO-005	396231	8399775	25.7	1.06	0.73	0.53	1.39	0.26	13.4	0.12	10.3	2.8	1.6	0.22	0.11	6.76	0.7	65.7	**77.5**
DAM-RO-006	396231	8399775	58	3.89	2.25	1.49	4.66	0.85	36.1	0.32	28	7.46	5.1	0.69	0.34	21.11	2.1	172.4	**203.7**
DAM-RO-007	393319	8398621	65.6	0.8	0.43	0.99	2.15	0.17	75.1	0.06	35.6	11.41	3.7	0.23	0	4.22	0.3	200.8	**235.7**
DAM-RO-008	393127	8398650	95	2.73	1.52	1.33	4.47	0.59	58	0.18	33.1	9.52	4.5	0.57	0.2	15.02	1.1	227.8	**268.2**
DAM-RO-009	394613	8399090	48.9	1.71	1.05	1.34	2.31	0.46	26.8	0.24	18	5.31	2.8	0.45	0.25	8.68	0.9	119.2	**140.4**
DAM-RO-010	394948	8407602	75.3	1.6	0.8	1.03	2.83	0.33	42.4	0.1	25.7	7.44	3.7	0.35	0.11	8.52	0.6	170.8	**200.9**

COMPETENT PERSONS STATEMENT

"The information in this report is based on and fairly represents information and supporting documentation reviewed by Jonathan Victor Hill, who is an advisor to Australian Mines Ltd. Mr. Hill is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Hill consents to the inclusion in this report of the matters based on his information in the form and context in which they appear."

Appendix 5 – JORC Code, 2012 Edition

The purpose of Table 1 below is to comply with Question 36 of the ASX "Mining Reporting Rules for Mining Entities: Frequently Asked Questions".

Section 1: Sampling Techniques and Data Jequie North and Jequie South

Criteria	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*	• In this release results are reported from reconnaissance soil and rock chip sampling completed at Jequie North and South. • Soil sample collection was undertaken by a trained field technician overseen by a geologist, this sampling was undertaken as a series of sampling traverses which crossed the respective target areas with soil samples selected from the B-Horizon below the organic layer at depths of 20-50cm. 1kg of soil was collected and the entire sample collected was submitted to the laboratory. • The samples were collected using plastic shovel. All samples were labelled in the field, both with internal ID cards within plastic bags and using marker pens on the outside of the sample bags. The sample bags are heavy duty

	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.	clear plastic and were sealed using plastic ties. • Rock Chip samples were either grab samples comprising rock chips broken from outcrop with a geological hammer or channel samples taken over geologically constrained width from regolith – outcrop profiles exposed in road cuttings, or surface borrow pits used for collection of road fill material. 2-3 kg of sample was collected from outcrop or channel samples and the whole sample was bagged. • The sample for analysis is sent to the laboratory and its GPS location and sampling conditions recorded, • A radioactivity detector was used to investigate the possible association of radioactivity and REE mineralization. Samples, with above background results will be sent to a commercial laboratory for analysis. • Two regional Airborne geophysical surveys were used, planned, and completed by Brazilian governmental agencies, and obtained from public sources from the state and federal government. The Brazilian Geological Survey in association with the Geological Survey of Bahia (CPRM/CBPM) executed the survey for the areas at the Jequié project. The two surveys are namely, 1. "Levantamento aerogeofísico da área Ruy Barbosa-Vitória da Conquista" - flown in 2006, Mag and Gamma survey, flown at a 500 m line-spacing. 2. "Levantamento aerogeofísico da área Ipira-Ilheus" - flown in 2010-2011, Mag and Gamma survey, flown at a 500 m linespacing. 3. Digital products (geotiff files) available for download from the official website of the Bahia State

		Geological Survey (Companhia Baiana de Pesquisa Mineral - CBPM). •
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).*	• Not applicable as no drilling is reported nor has known drilling taken place on the project
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.*	• Not applicable as no drilling is reported nor has known drilling taken place on the project
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.*	• Not applicable as no drilling is reported nor has known drilling taken place on the project Not applicable as no drilling was performed at the project
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*	• For Soil Samples, at the laboratory the sample is dried, sieved and **the fraction less than 80 mesh** is split using a jones riffle splitter and the sample analysed by the ICP Muti-Element Method. • For Rock Chip samples the whole sample is dried, crushed, and pulverised and an aliquot is selected for analysis by ICP Multi-Element Method.

	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 sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	
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 samples in this release were analysed by SGS Laboratory, Belo Horizonte, Brazil. • METHOD ICM90A: determination by fusion with sodium peroxide – ICP OES/ICP MS. • This is considered a total analysis for the 55 elements determined by this ICP method.
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.*	• Not applicable, as no drilling or known drilling nor assay results are reported.
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*	• Not applicable, as no drilling or known drilling nor assay results are reported. A handheld GPS was used for sample location

	estimation. • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	
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.*	• Not applicable as no mineral resource estimation is reported
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.*	• Not applicable as only rock-chip and stream sediment sampling for exploratory purposes was performed
Sample security	• *The measures taken to ensure sample security.*	• The samples were securely bagged and remained in the possession of the exploration geologist
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No previous reviews following the JORC code are known to this CP

Section 2 Reporting of Exploration Results

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

Criteria	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*	• The details concerning the mineral tenement are described in the ASX announcement by Australian Mines Ltd of December 6th, 2023 ASX Announcement 6

	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.*	December 2023 • The surface area belongs to third parties (usually, small farmers) and have no interference with any known protected area
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• Nothing to report, the company is not aware of any previous reported exploration
Geology	• *Deposit type, geological setting and style of mineralisation.*	• Refer to the information presented in the text above and in this announcement.

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.*
		• Not applicable as no drilling was reported, nor has any known drilling taken place on the project in the past

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*	• Not applicable to results reported in this release.

	values should be clearly stated.	
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').*	• Not applicable as no drilling has been undertaken on the project to date.
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.*	• All relevant information is presented in the 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.*	• Not applicable as no drilling nor assay results are reported nor available at this stage. • All sample analytical results presented in the report.
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.*	• All relevant information regarding geophysical and geological interpretation is presented in this announcement.
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*	• Further follow-up geochemical sampling (potentially including soil, stream and rock chip sampling) and geological mapping is planned for the next phase of work. • *Targets generated to date in both North and South Jequie will be further*

	sensitive.	*investigated by means of Auger Drilling and geological mapping with some 1000m of Auger Drilling planned initially at the Jequie North Target Area.*

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

AUSTRALIAN MINES LIMITED - AUZ

ABN	Quarter ended ("current quarter")
68 073 914 191	**30 June 2024**

Consolidated statement of cash flows		**Current quarter $A'000**	**Year to date (12 months) $A'000**
1.	**Cash flows from operating activities**		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	(149)	(243)
	(b) development	(333)	(1,961)
	(c) production	-	-
	(d) staff costs	(214)	(782)
	(e) administration and corporate costs	(87)	(744)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	1	8
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	119	119
1.8	Other (Tenement Rent Refund & Reimbursement)	-	153
1.9	**Net cash from / (used in) operating activities**	**(663)**	**(3450)**

2.	**Cash flows from investing activities**		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	(197)
	(c) property, plant and equipment	-	(1)
	(d) exploration & evaluation	(33)	(225)
	(e) investments	-	-
	(f) other non-current assets	(2)	(25)

Consolidated statement of cash flows		Current quarter $A'000	Year to date (12 months) $A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	**Net cash from / (used in) investing activities**	**(35)**	**(448)**

3.	**Cash flows from financing activities**		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	4,199
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(20)	(442)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	**Net cash from / (used in) financing activities**	**(20)**	**3,757**

4.	**Net increase / (decrease) in cash and cash equivalents for the period**		
4.1	Cash and cash equivalents at beginning of period	5,210	4,633
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(663)	(3,450)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(35)	(448)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(20)	3,757

Consolidated statement of cash flows		Current quarter $A'000	Year to date (12 months) $A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	**Cash and cash equivalents at end of period**	**4,492**	**4,492**

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter $A'000	Previous quarter $A'000
5.1	Bank balances	4,492	5,210
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	**Cash and cash equivalents at end of quarter (should equal item 4.6 above)**	**4,492**	**5,210**

6.	Payments to related parties of the entity and their associates	Current quarter $A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	(61)
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.

Directors' wages, superannuation and reimbursement of business expenses (6.1).

7.	**Financing facilities** *Note: the term "facility' includes all forms of financing arrangements available to the entity.* *Add notes as necessary for an understanding of the sources of finance available to the entity.*	**Total facility amount at quarter end $A'000**	**Amount drawn at quarter end $A'000**
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	**Total financing facilities**	-	-

7.5	**Unused financing facilities available at quarter end**	-

7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.

8.	**Estimated cash available for future operating activities**	**$A'000**
8.1	Net cash from / (used in) operating activities (item 1.9)	(663)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(33)
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(696)
8.4	Cash and cash equivalents at quarter end (item 4.6)	4,492
8.5	Unused finance facilities available at quarter end (item 7.5)	-
8.6	Total available funding (item 8.4 + item 8.5)	4,492
8.7	**Estimated quarters of funding available (item 8.6 divided by item 8.3)**	6.46 Quarters

Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.

8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:

8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer: N/A

8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer: N/A

8.8.3	Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?
Answer: N/A	
Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.	

Compliance statement

1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.

2 This statement gives a true and fair view of the matters disclosed.

Date: 30 July 2024

Authorised by the Board of Australian Mines Limited
(see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.

2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.

3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.

4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [*name of board committee – eg Audit and Risk Committee*]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".

5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.