Gold Mountain Limited
(ASX: GMN)

24/589 Stirling Highway
Cottesloe WA 6011
Australia

Projects

Lithium Projects (Brazil)
Cococi region
Custodia
Iguatu region
Jacurici
Juremal region
Salinas region
Salitre
Serido Belt

Copper Projects (Brazil)
Ararenda region
Sao Juliao region
Iguatu region

REE Projects (Brazil)
Jequie

Copper Projects (PNG)
Wabag region
Green River region

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ASX Announcement/Press Release | 10 September 2026

Gold Mountain Limited (ASX:GMN)

Anomalies in Niobium, Magnet REE and Phosphate present in Carbonatite complexes

Gold Mountain Limited (ASX: GMN) ("Gold Mountain" or "the Company" or "GMN") is excited to announce it has received very good results for an additional 327 stream sediment samples from the Araxá Project area for a total of 515 samples[1]. The results from these samples show substantial multielement anomalies coincident with magnetic and structural anomalies confirming target areas for Niobium, Magnet Rare Earths and Phosphate.

Work Undertaken

- Assays have been received from regional stream sediment sampling, revealing strongly clustered multielement anomalies showing large niobium (Nb) anomalies Phosphate (P) anomalies and Magnet Rare Earths (MREE) anomalies.
- Magnetic and structural anomalies are coincident with the geochemical anomalies
- Targets for soil sampling and high resolution magnetics are present which will lead to drill targets for niobium, magnet REE and phosphate.

Director's Statement

"The Araxá Project is extraordinarily prospective for three strategic commodities—niobium, rare earth elements and phosphorus, each of which is experiencing increasing global demand and is currently produced from nearby carbonatite complexes.

The combined exploration results are very encouraging, with geochemical, magnetic and structural data supporting the presence of several carbonatite complexes and associated TREO, phosphorus and niobium anomalies across all four of GMN's prospect areas. These outcomes exceed our highest expectations at this stage of exploration.

Follow-up exploration programs aimed at refining and prioritising drill targets will commence as soon as practical, as we advance this highly prospective project toward drilling.

Carbonatites in the Araxa region are very highly prospective, with every major carbonatite known to contain a mine or resources of a range of important commodities."

David Evans
Executive Director
Gold Mountain Limited

Future Workplan

- Niobium anomalies will have drone magnetics and grid soil sampling carried out over the highest ranked anomalies.

[1] *GMN ASX Release 23 January 2026 Araxá Initial Results Confirms Carbonatites Present*

- Magnet REE and phosphate anomalies will have grid soil sampling carried out over the highest ranked anomalies.
- Stream sediment sampling will be completed over one group of properties once landowner access agreements are reached.
- Environmental approval for drilling will be sought from the local municipal authorities.

Selected analyses are included in Table 1 at the end of this report

Details

GMN has four clusters of granted exploration licences in the Araxá region, over ground demonstrated to be prospective for carbonatite hosted niobium, rare earths elements (REE) and phosphorus[2] [3].

Interpretation of stream sediment sample results, together with regional magnetics and radiometric data was undertaken to assess the extent of carbonatites and their associated alteration zones and to define the extent of niobium, magnet REE and phosphorus anomalies.

Carbonatites in the Araxá region also have specific structural features, including domal structures modified in part by hydrothermal alteration of host rock types. An interpretation of major structural features was undertaken and assessed in relation to regional magnetic and radiometric surveys[3] [4] [5].

These carbonatites are unusual in that **all of them host mines and/or defined resources, making them 100% prospective**, compared with the global average, where only approximately **20% of carbonatites are associated with mines or resources**.

Images & Maps

Figure 1 shows the regional location of the carbonatites and related extrusives in the Alto Parnaiba Igneous Province, which includes the Araxá Project tenements.

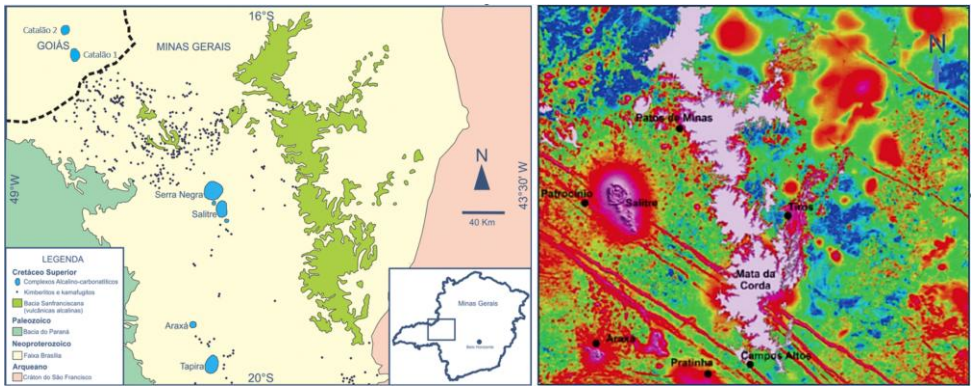

Figure 1. Distribution of carbonatites (blue) and co-magmatic extrusives (green) in the Alto Paranaiba Igneous Province (APIP). Note the strong magnetic signature over carbonatites at Araxá and Salitre, common to all carbonatite complexes in the APIP.

Figure 2 shows the regional location of the Araxá tenements over carbonatite complexes in the APIP in eastern Brazil.

[2] *GMN ASX Release 23 January 2026 Araxá Initial Results Confirms Carbonatites Present*
[3] *GMN ASX Release 23 February 2024 GMN secures ground near world's largest Niobium Producer*
[4] *GMN ASX Release 11 August 2025 Presentation – Brazilian Critical Minerals for Clean Energy*
[5] *GMN ASX Release 12 July 2024 Technical Presentation Brazil and PNG*

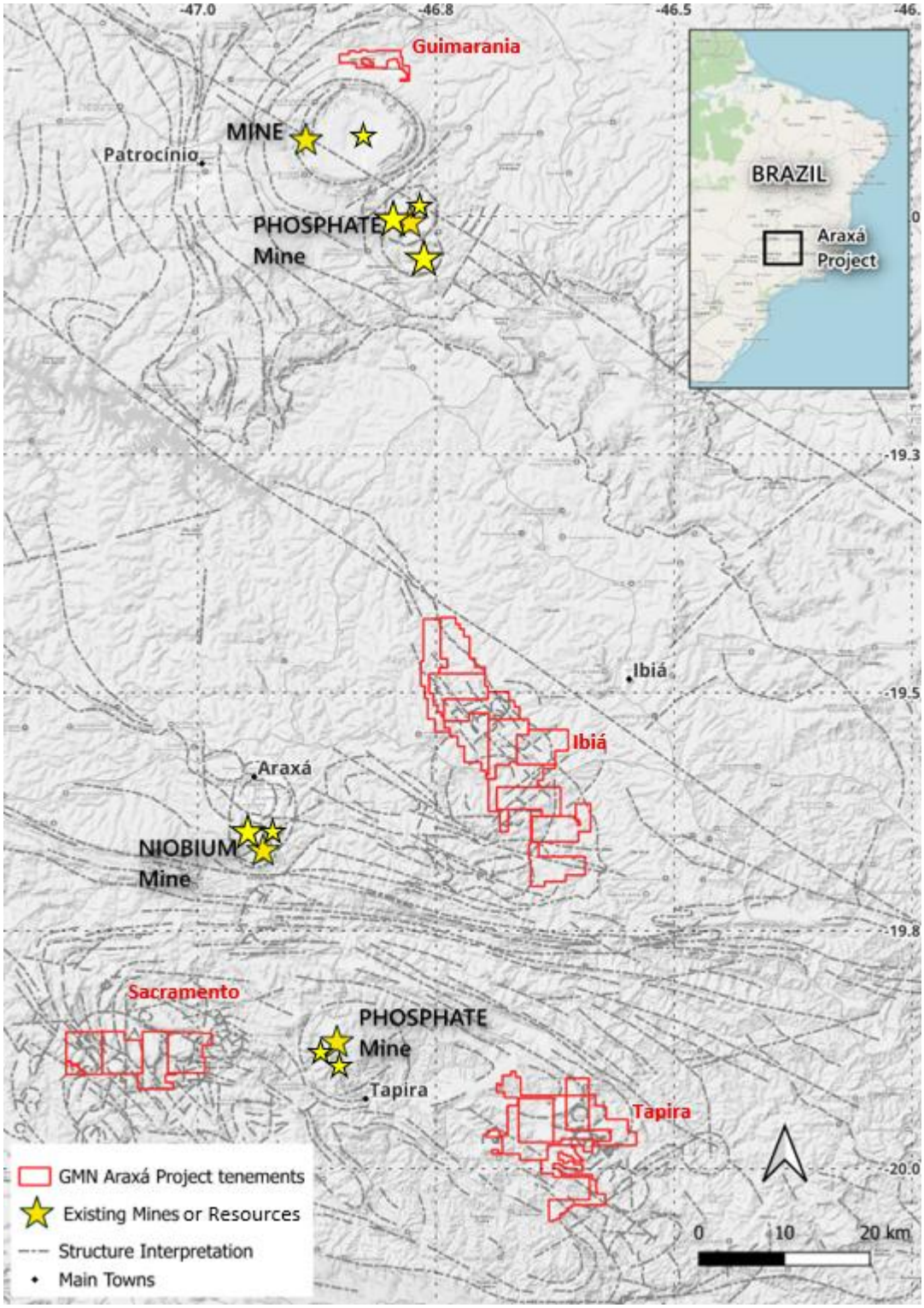

Figure 2. Location of the Araxá Project and major operating mines, approximately 300 kilometres west of Belo Horizonte in Eastern Brazil. Resources of various commodities shown as small stars. These commodities include rare earths, niobium, phosphorus, barite and vermiculite.

Figure 3 shows the Ibiá prospect tenements over a magnetic image showing the strong dipole anomalies that characterise the carbonatite intrusive complexes in the APIP.

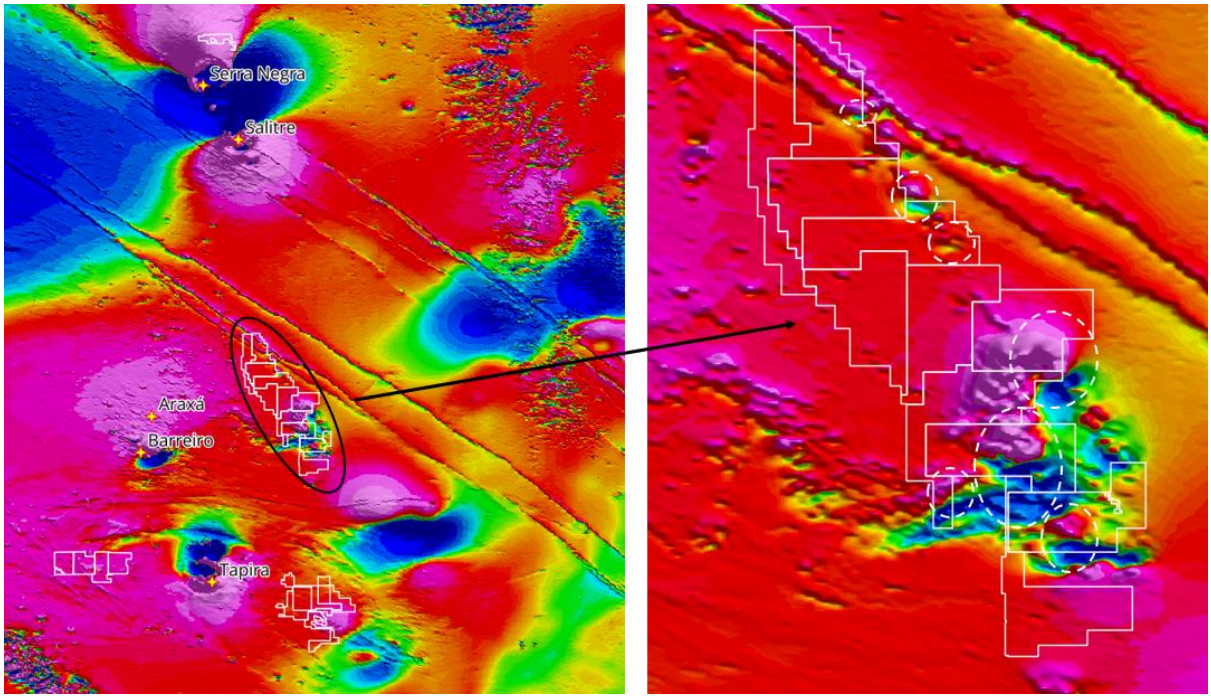

Figure 3. Strong dipole type anomalies related to carbonatite complex intrusives within the over 2000 km long "125 degree lineament", defined regionally by the linear magnetic anomalies caused by dyke like intrusives and a variety of other geophysical characteristics.

Interpretation of the 515 stream sediment samples[6], which included 10 orientation samples on known mineralisation[1], was undertaken with a focus on Niobium, Magnet REE and Phosphorus mineralisation. A suite of rock forming elements that can indicate the more mafic portions of the complexes where Nb mineralisation is more likely to be hosted was also interpreted. A combination of the rock forming elements and the mineralisation elements was used to define anomalous areas for the highest priority follow up programs.

Figure 4 shows the summary of the most significant niobium, magnet rare earth and phosphorus anomalies located in the GMN tenements.

[6] *GMN ASX Release 23 January 2026 Araxá Initial Results Confirms Carbonatites Present*

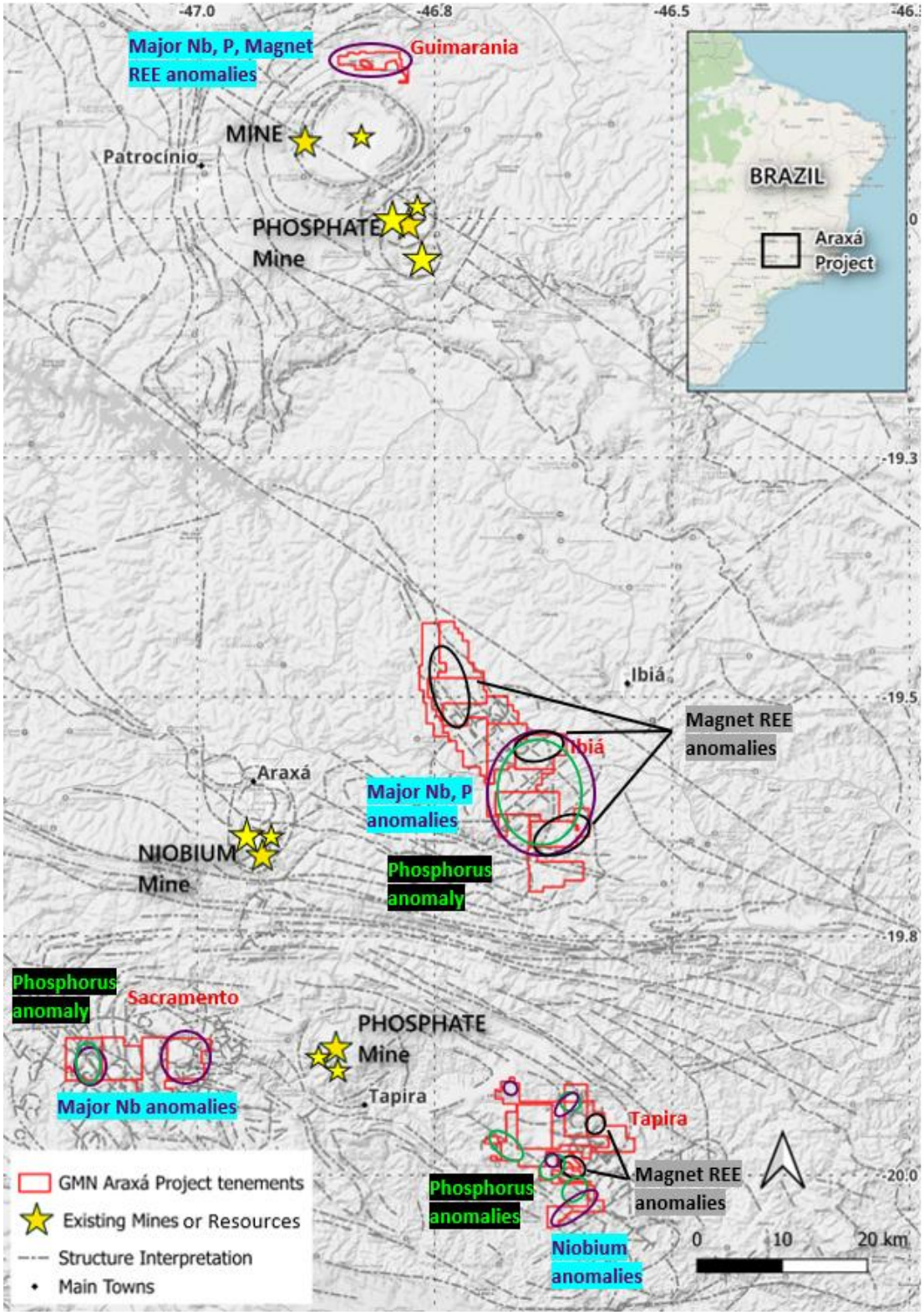

Figure 4. Summary map of the most significant Niobium, Magnet REE and Phosphorus anomalies interpreted in the GMN tenements in its Araxá Project area.

Detailed maps of anomalies in each prospect area follow.

Guimarania Prospect.

This prospect lies within the northern part of the major magnetic anomaly that covers the Serra Negra carbonatite complex and also the Salitre 1, 2 and 3 complexes[27].

Strong coincident niobium, magnet REE and phosphorus anomalies are present in the eastern three quarters of the tenement. A source for the anomalies is thought to be contained within the tenement.

A soil sample grid has been planned over a 5 x 1.8 km area to assist in defining drill targets.

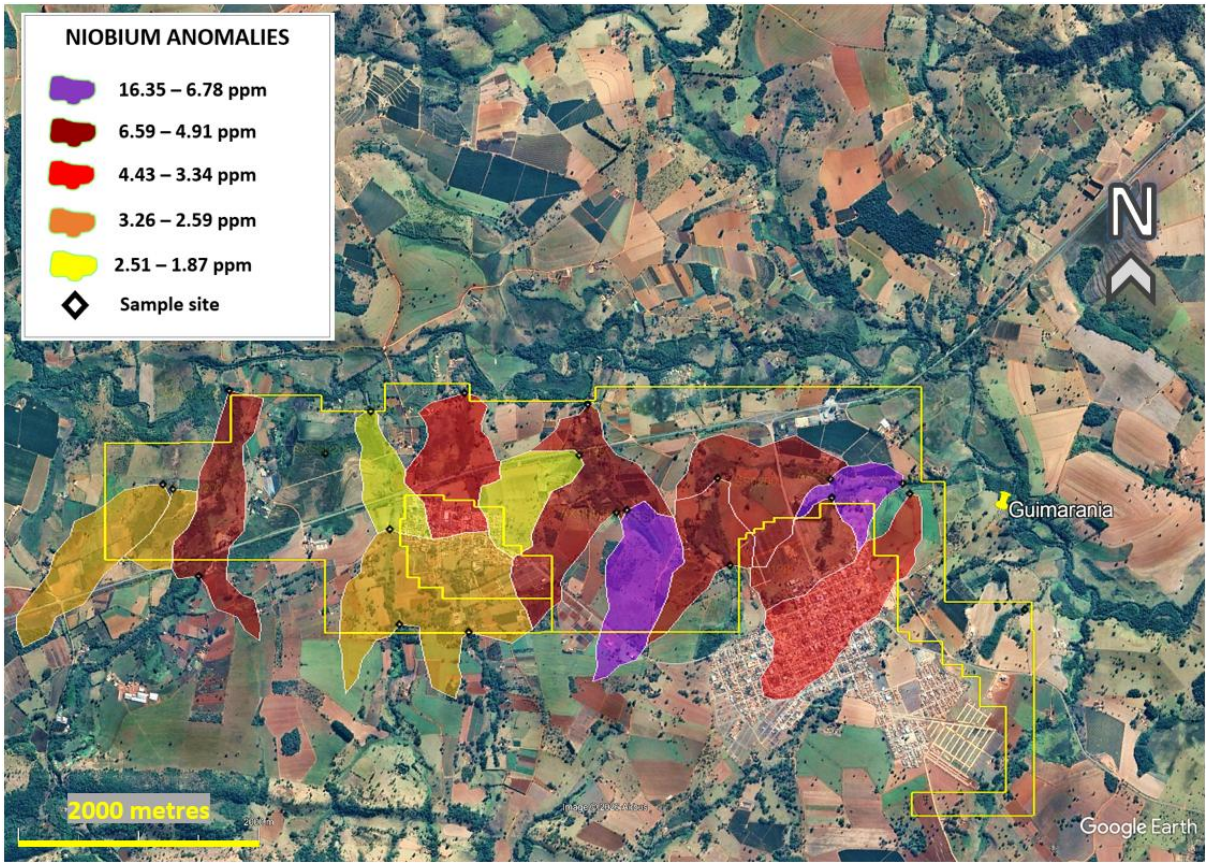

Figure 5. Guimarania Prospect niobium anomalies.

[7] *GMN ASX Release 11 August 2025 Presentation – Brazilian Critical Minerals for Clean Energy*

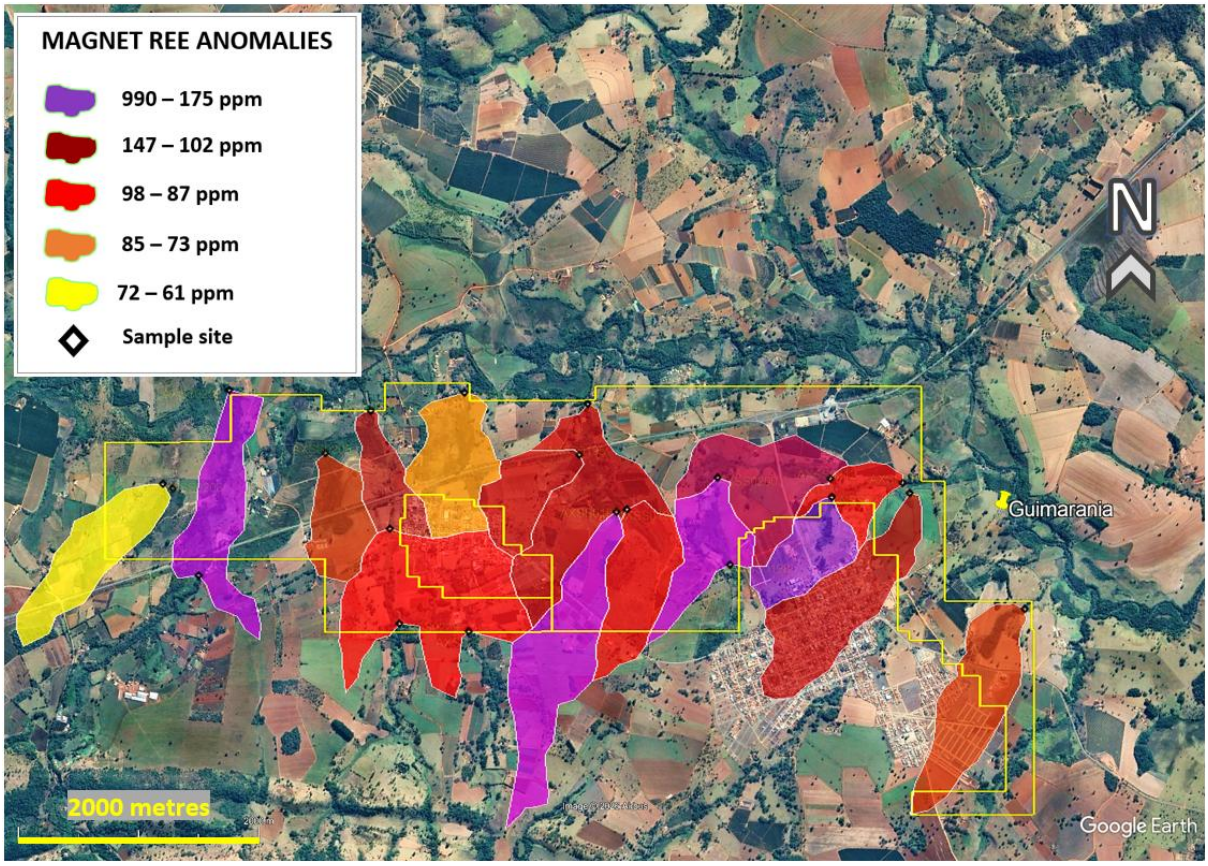

Figure 6. Guimarania Prospect magnet rare earth anomalies.

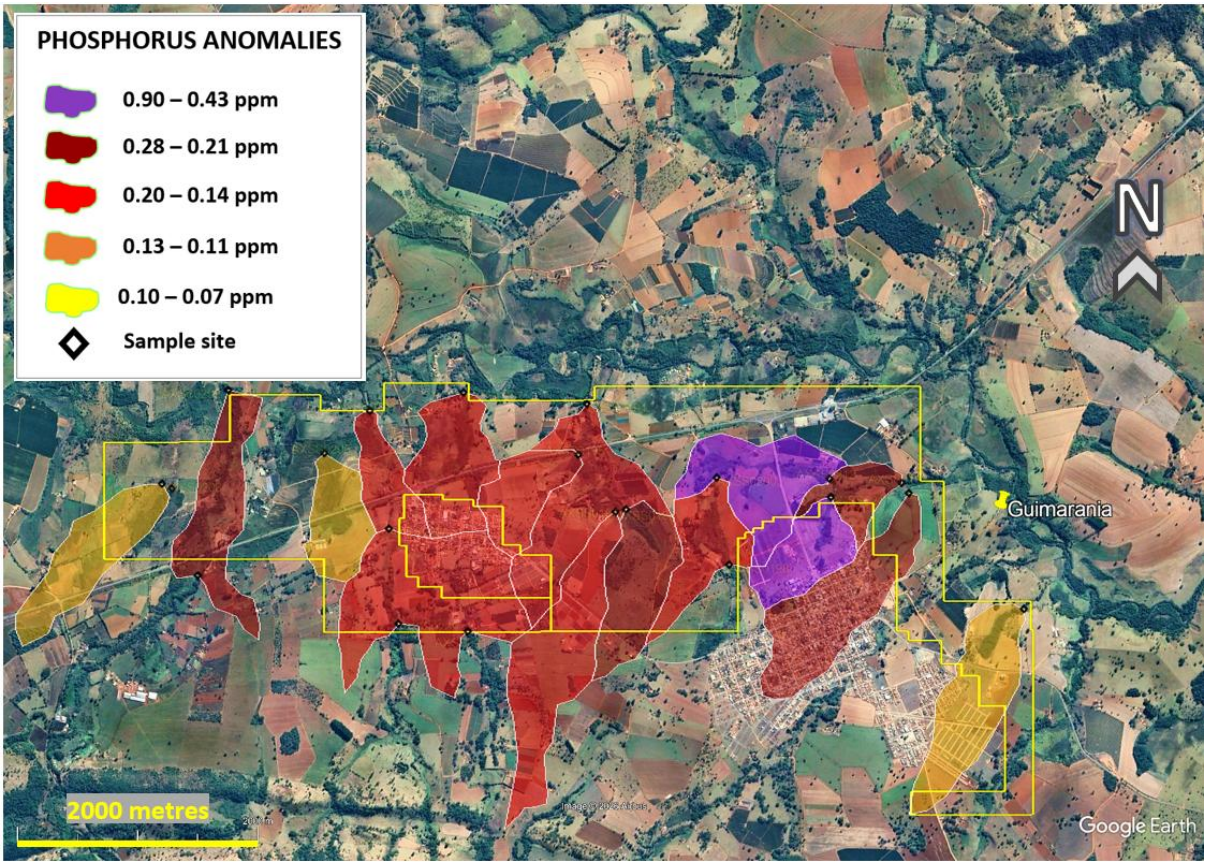

Figure 7. Guimarania Prospect phosphorus anomalies.

Ibiá Prospect.

The Ibiá Prospect contains much of a large composite magnetic signal[8] and a series of smaller signals that relate to a dyke like structure oblique to the regional "125 degree lineament" direction. The oblique trend is also associated with a series of subparallel structures that link all the magnetic anomalies present.

Strongly coincident niobium and phosphorus anomalies are present, particularly associated with the large composite magnetic anomaly.

These Nb–P anomalies are surrounded by, and locally overlap with, magnet REE anomalies, which generally appear to occur peripheral to the niobium and phosphorus anomalies.

The magnet REE anomalies also display a NNW trend, flanking the structural orientation of the dyke-like magnetic anomalies while remaining within the broader NNW-trending structural corridor.

Rock-forming elements are predominantly associated with the magnetic anomalies and also form a parallel NNW-trending zone of anomalies, spatially coincident with the magnet REE anomalies.

The combined **magnetic, structural and geochemical datasets** define the extent and architecture of the carbonatite complex and identify priority target areas for **niobium, phosphorus and magnet rare earth element mineralisation**.

Soil sample grids are being planned over a central 5 x 3 km area as well as over additional selected areas to assist in defining drill targets.

[8] *GMN ASX Release 11 August 2025 Presentation – Brazilian Critical Minerals for Clean Energy*

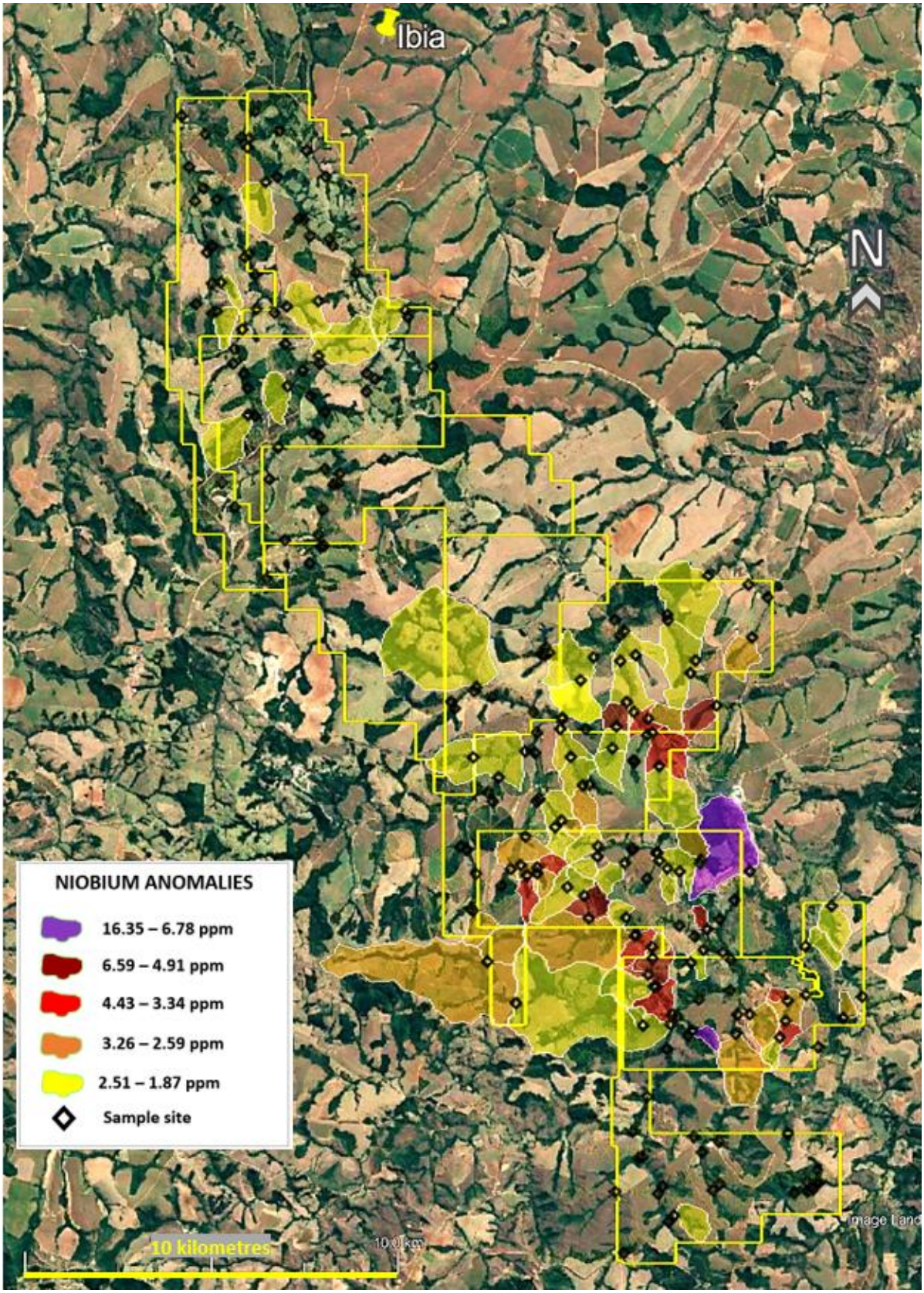

Figure 8. Ibiá Prospect niobium anomalies.

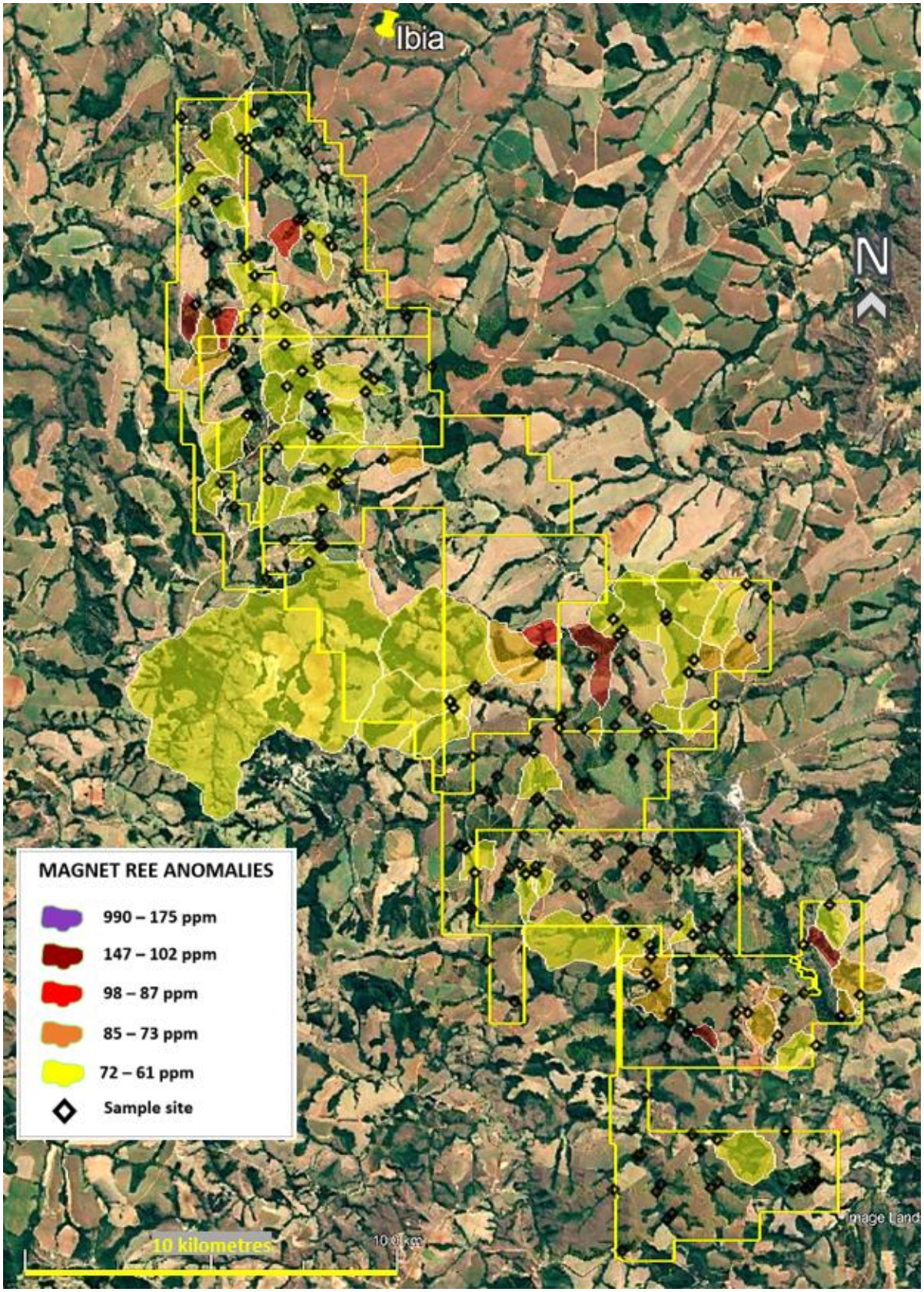

Figure 9. Ibiá Prospect magnet rare earth anomalies.

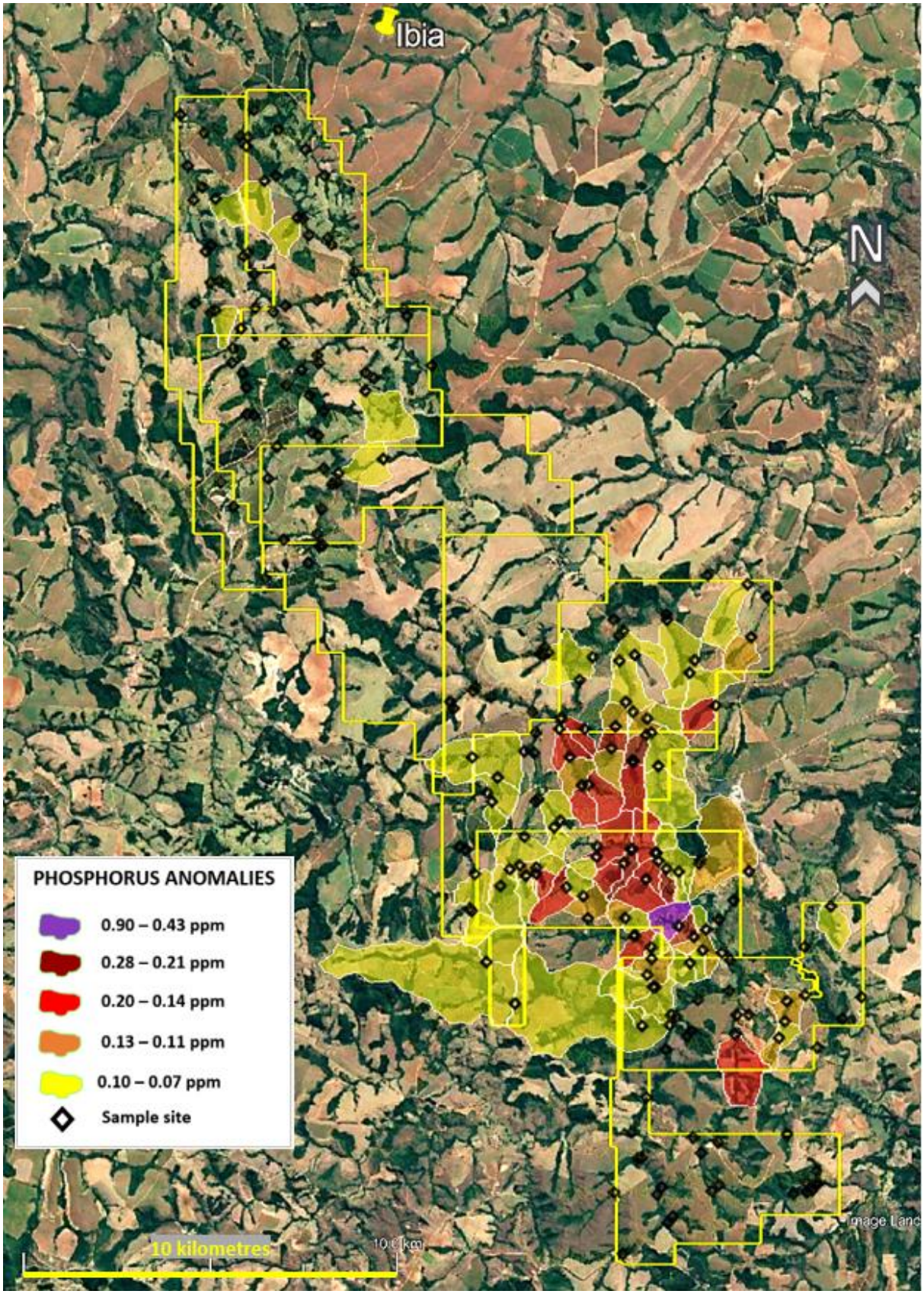

Figure 10. Ibiá Prospect phosphorus anomalies.

Sacramento Prospect.

One major and one smaller magnetic anomaly[9] are present in the Sacramento prospect, which lies within the NW part of a regional scale domal structure that includes the Sacramento Prospect, the Tapira phosphate mine and carbonatite complex and the GMN Tapira Prospect in the SE part of the domal structure.

Coincident clusters of **niobium and phosphorus anomalies** occur in two areas within the Sacramento Prospect, one of which also contains coincident **magnet REE anomalies**. The eastern anomaly cluster is located at the southeastern end of the prospect and lies along strike from one of the magnetic anomalies. In contrast, the second anomaly cluster is not associated with a corresponding magnetic anomaly. Both anomalies are associated with a suite of **carbonatite-related rock-forming elements**, suggesting that the carbonatite complex may be considerably more extensive than indicated by the magnetic anomalies alone.

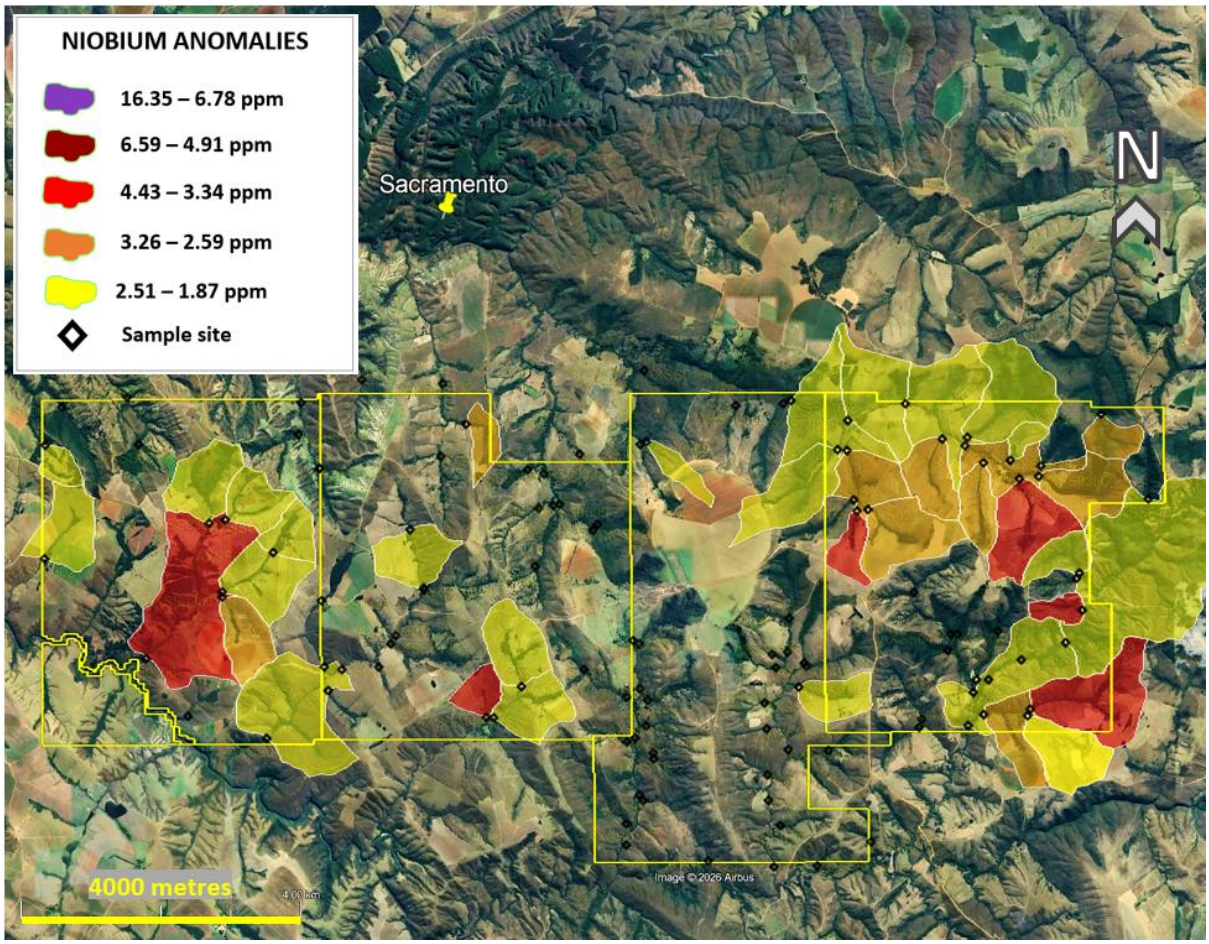

Figure 11. Sacramento Prospect niobium anomalies.

[9] *GMN ASX Release 11 August 2025 Presentation – Brazilian Critical Minerals for Clean Energy*

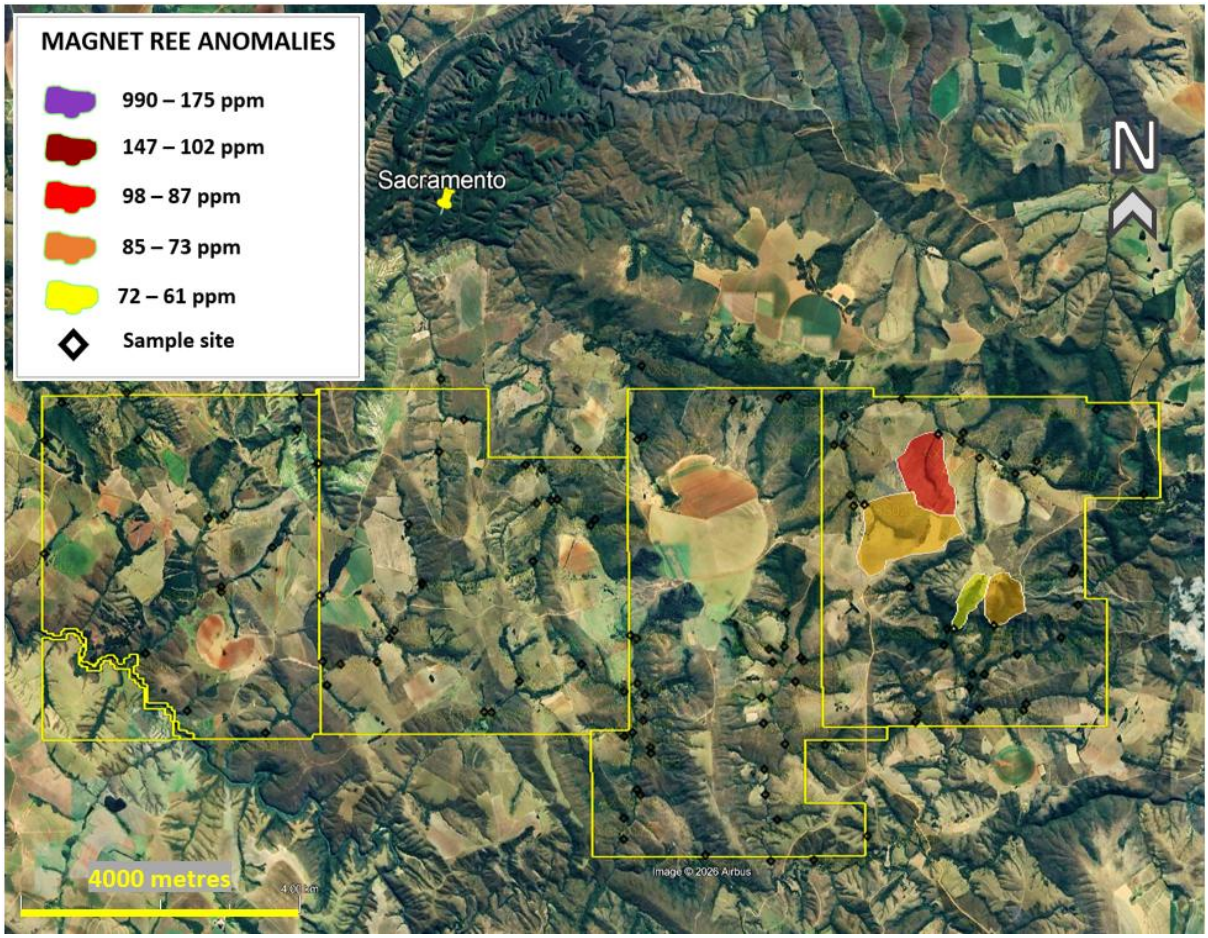

Figure 12. Sacramento Prospect magnet rare earth anomalies.

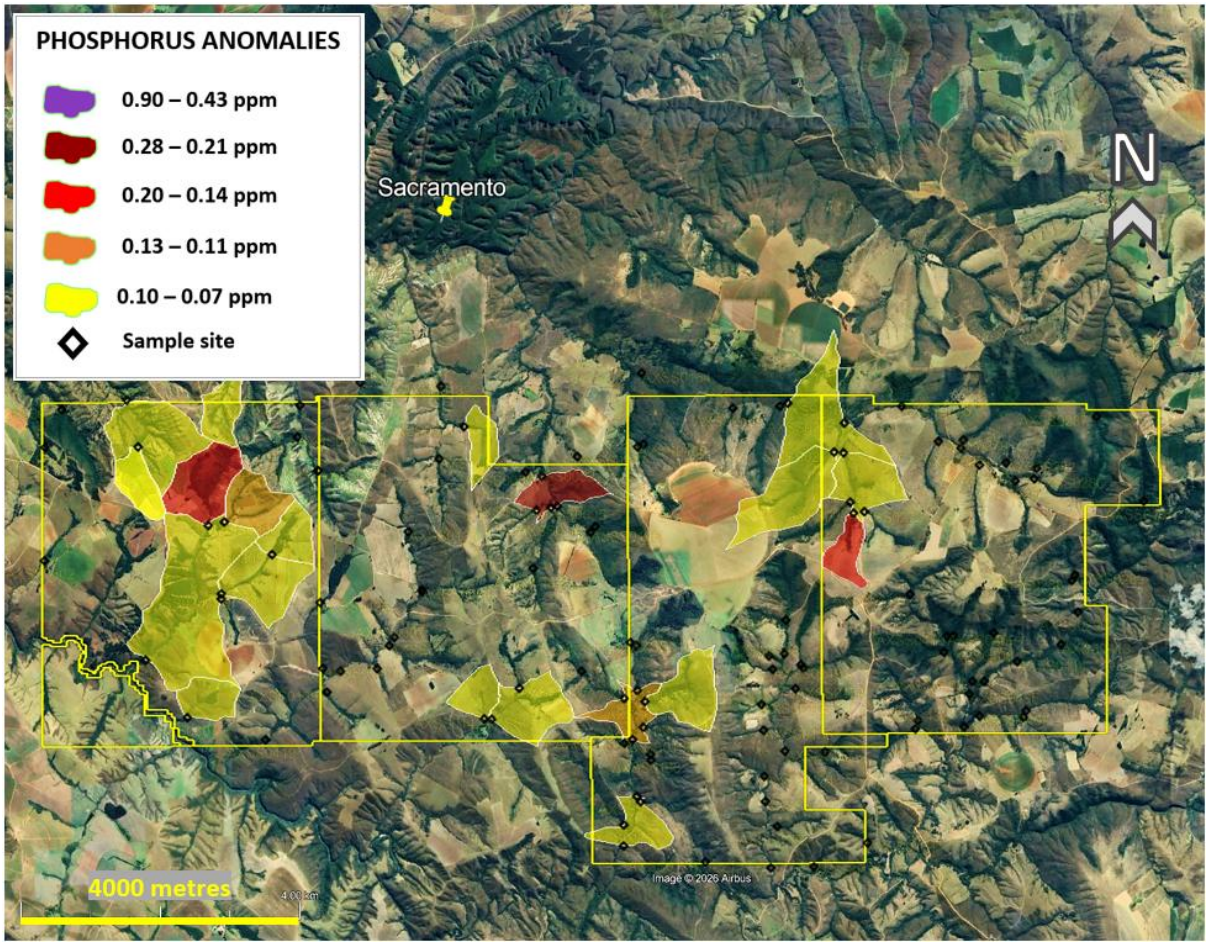

Figure 13. Sacramento Prospect phosphorus anomalies.

Tapira Prospect.

The **Tapira Prospect** partly overlaps a large magnetic anomaly[10] in the southeastern portion of the tenement area. This anomaly lies within the northwestern part of a regional scale domal structure that encompasses the **Sacramento Prospect**, the **Tapira phosphate mine and carbonatite complex**, and the **GMN Tapira Prospect**, which is located in the southeastern part of the domal structure.

Anomalous **niobium and phosphorus** occur in four areas, supported by associated anomalies in **magnesium, nickel and iron**, rock forming element anomalies suggesting the presence of favourable host rocks for niobium mineralisation. Magnet REE anomalies are associated with three of the four Nb-P anomalous areas.

[10] *GMN ASX Release 11 August 2025 Presentation – Brazilian Critical Minerals for Clean Energy*

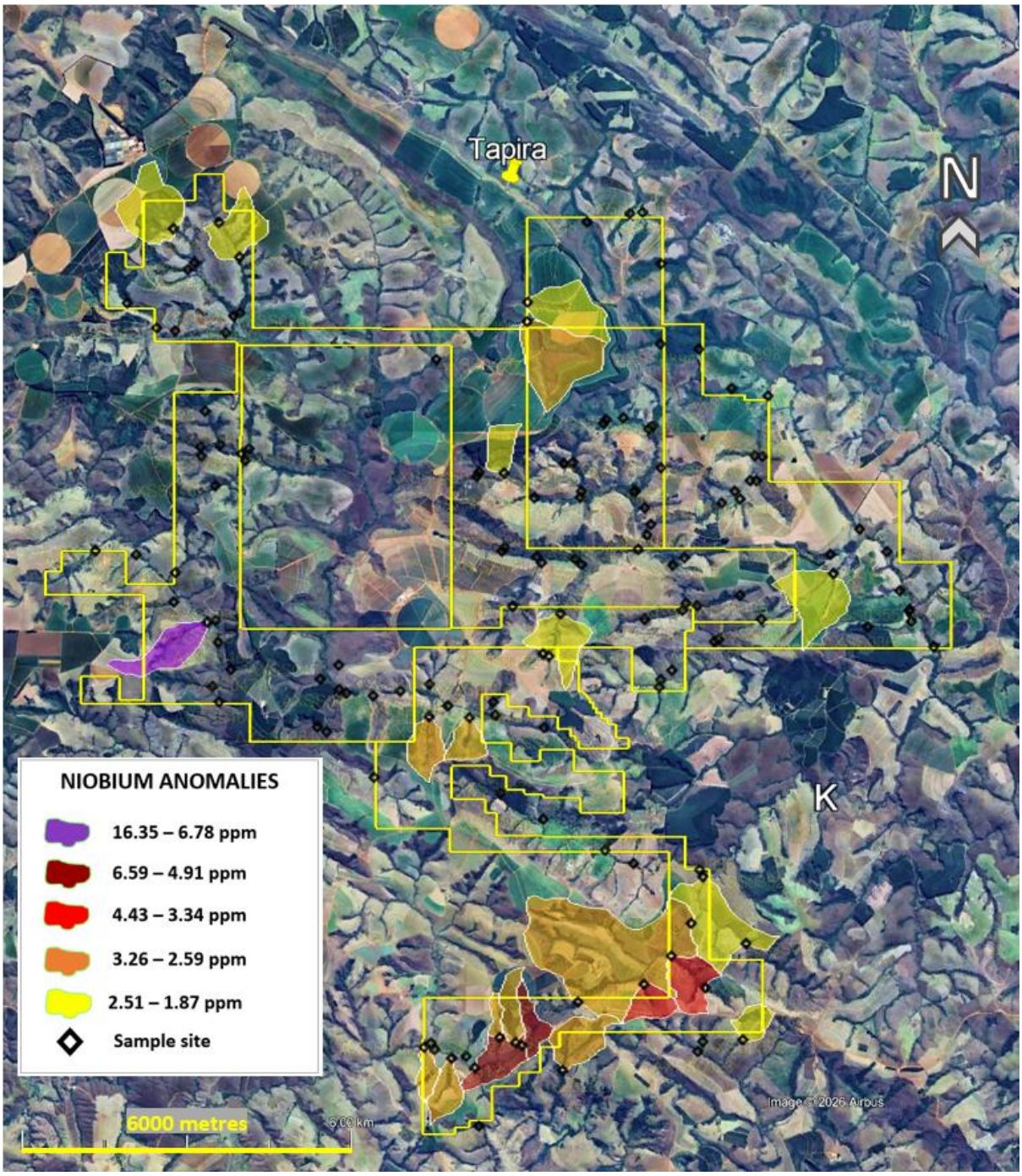

Figure 14. Tapira Prospect niobium anomalies.

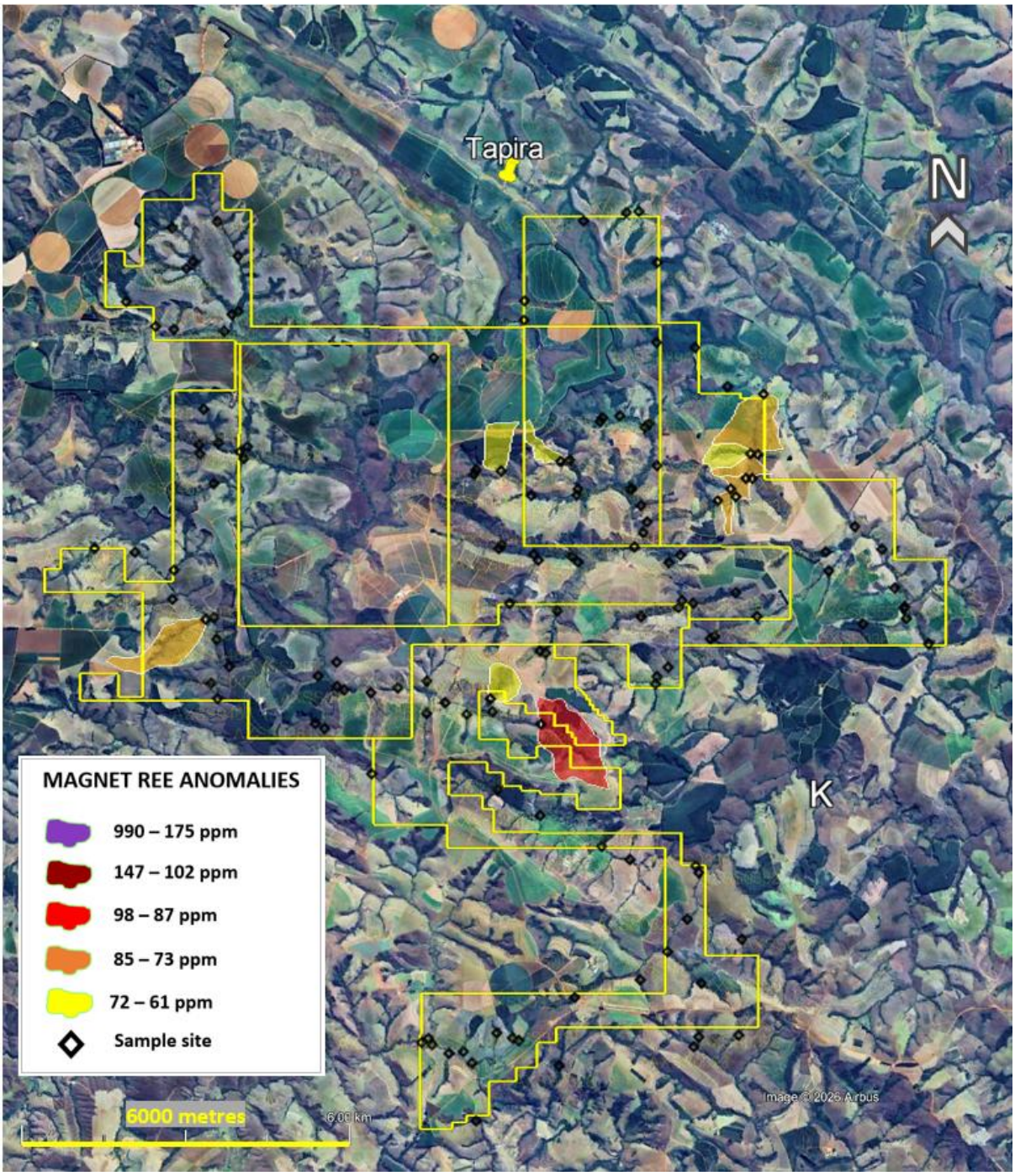

Figure 15. Tapira Prospect magnet rare earth anomalies.

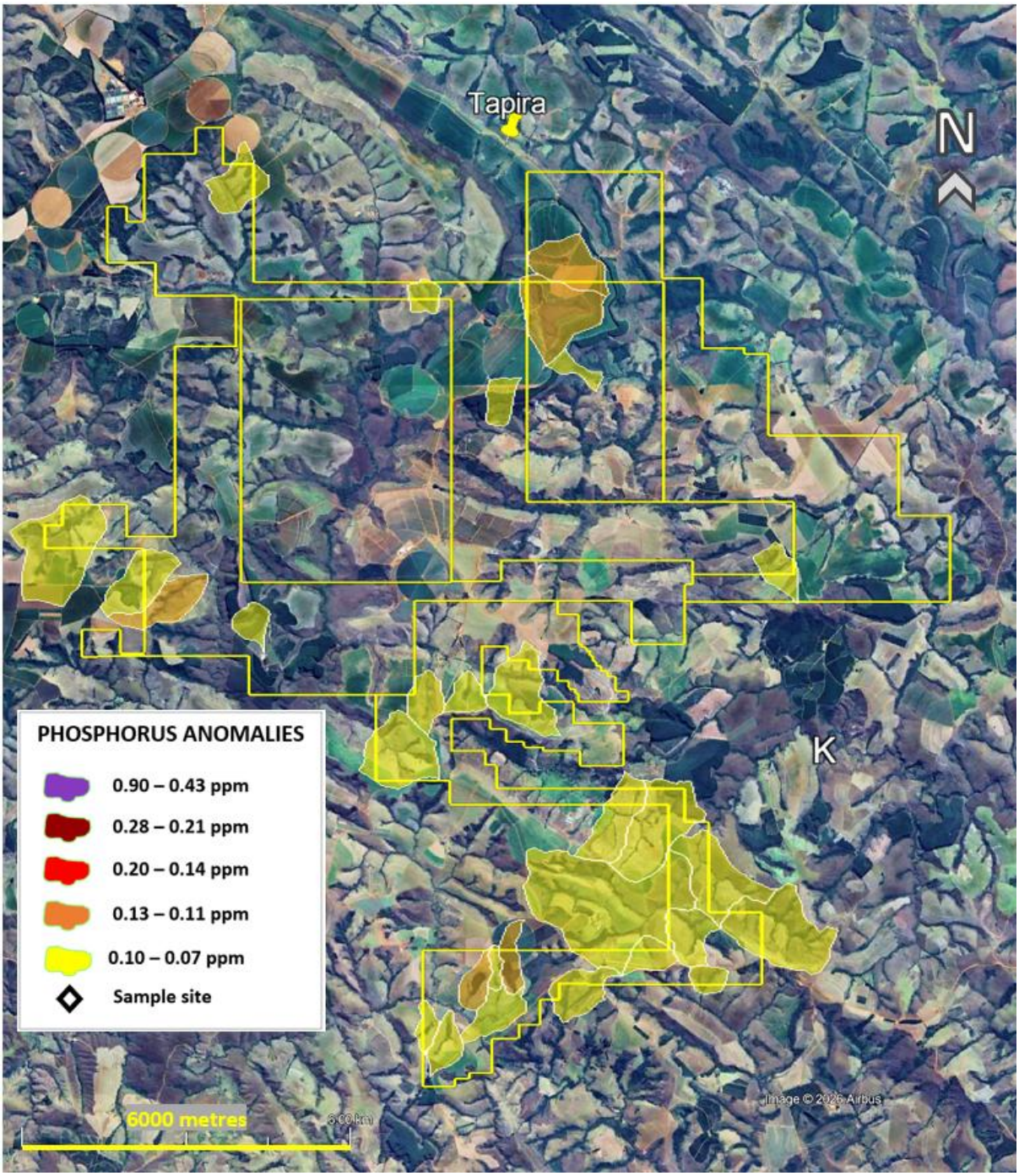

Figure 16. Tapira Prospect phosphorus anomalies.

Competent Persons Statement

The information in this ASX release is based on information compiled by Peter Temby, a Competent Person who is a Member of Australian Institute of Geoscientists. Exploration results have been compiled and interpreted by Peter Temby who is an independent consultant working currently for Gold Mountain Ltd. Peter Temby confirms there is no potential for a conflict of interest in acting as the Competent Person. Peter Temby has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Peter Temby consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

- END –

This ASX announcement has been authorised by the Board of Gold Mountain Limited

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About Us

Gold Mountain (ASX:GMN) is a mineral exploration company focused on rare earth elements (REE) with projects in Brazil. While its assets are primarily centred around REE and niobium, the company is also exploring a diverse range of tenements for lithium, nickel, copper, tungsten and gold.

Gold Mountain has expanded its portfolio in Brazil, holding large areas of highly prospective REE and REE-niobium licenses in Bahia and in Minas Gerais. Gold Mountain holds 100% interest in all its tenements.

The flagship project for REE is the Capivara prospect where an ionic clay type of REE mineralisation has been confirmed in initial desorption tests in auger drill hole samples.

Additional tenement areas include lithium projects in the eastern Brazilian lithium belt, particularly in Salinas, Minas Gerais, and parts of the Borborema Province and São Francisco Craton in northeastern Brazil, as well as tungsten, copper and copper-nickel projects in the northeast of Brazil.

Table 1. Selected analytical results

		ALS Method	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L				
SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+Pr6O11	Dy2O3+Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0011	330496	7837216	107	0.19	106	5.15	120	50.4	4.31	0.11	41.4	0.08	133.5	3.19	21.9	0.122	0.003	0.001	22.8	0.009	0.012	0.034	39.5	64.1	9.66	338	66.77	10.35	77.12
AXSS0012	330900	7838290	70.7	0.04	85.4	9.64	100	49.6	6.04	0.09	24.2	0.05	191.5	1.03	19.85	0.057	0.0005	0.002	15.8	0.009	0.023	0.012	28.6	40.2	26.9	236	38.39	6.83	45.21
AXSS0013	330385	7838623	101	0.07	82.8	23.2	90.6	49.1	7.24	0.09	30.8	0.08	647	0.882	30.5	0.095	0.005	0.002	14.8	0.01	0.02	0.021	32.1	79.2	14.2	268	53.68	8.55	62.23
AXSS0014	329307	7838853	133.5	0.1	121.5	16.2	42.4	29.4	4.69	0.23	45	0.15	551	2.2	12.8	0.05	0.0005	0.001	65.5	0.01	0.04	0.028	17.75	52.2	4.99	314	63.79	5.05	68.84
AXSS0015	328215	7837794	106.5	0.1	111	14.05	42.6	28.6	4.64	0.21	38.3	0.14	532	1.67	11.7	0.05	0.0005	0.001	57.8	0.01	0.04	0.028	15.1	47.7	5.82	280	56.87	4.46	61.33
AXSS0016	328231	7837655	119	0.05	136	6.02	78.4	40.9	4.16	0.09	38.6	0.05	131.5	2.01	16.15	0.08	0.0005	0.001	20.6	0.009	0.02	0.085	27.2	32.6	6.56	343	62.42	7.51	69.93
AXSS0017	327061	7837352	92.2	0.13	117	7.72	51.6	34.4	5.08	0.18	31.5	0.12	311	2.21	10.8	0.092	0.0005	0.001	46	0.01	0.035	0.039	11.8	46	7.66	262	47.31	3.50	50.81
AXSS0018	326944	7837226	60.4	0.01	53.3	3.83	26.6	12.15	3.64	0.18	83.6	0.02	230	0.22	7.82	0.011	0.0005	0.001	14.55	0.017	0.017	0.008	93.8	25.6	9.21	486	112.41	21.04	133.45
AXSS0019	326810	7837649	113	0.06	76.4	5.22	25.6	14.55	2.96	0.22	37.5	0.06	107	0.447	7.05	0.026	0.0005	0.001	46.8	0.008	0.006	0.006	21.3	27.1	4.98	249	56.57	5.65	62.22
AXSS0020	325906	7836028	109.5	0.12	108	9	48.2	34	4.66	0.21	37.3	0.14	327	1.995	12.4	0.067	0.001	0.001	51.7	0.0025	0.03	0.028	15.1	48.1	5.6	267	50.77	3.90	54.67
AXSS0021	326252	7836643	105	0.14	112	10.1	59.5	37.3	5.59	0.17	33.6	0.11	397	2.33	12.8	0.099	0.0005	0.001	41.1	0.0025	0.028	0.042	14.55	47.7	7.59	260	45.33	3.59	48.92
AXSS0022	326967	7836551	62.3	0.09	112	4.82	83.6	35.6	6.43	0.09	17.45	0.07	291	2.51	17.65	0.079	0.001	0.001	30.1	0.009	0.057	0.047	6.43	37	13.5	202	23.84	2.42	26.25
AXSS0023	327376	7836710	41.8	0.04	70.6	2.82	69	30.3	4.43	0.08	19.1	0.06	76.4	1.105	12.35	0.039	0.0005	0.001	18.1	0.008	0.016	0.042	11.85	22	20.1	174	31.87	3.66	35.53
AXSS0024	327722	7835020	58.8	0.08	99.7	11.25	79.7	48.9	8.9	0.05	29	0.06	215	2.96	30	0.104	0.0005	0.001	10.05	0.01	0.121	0.014	21.4	67.6	4.43	269	55.25	6.20	61.45
AXSS0025	327343	7835199	135	0.08	102.5	18.05	71.6	34.4	11.1	0.12	32.9	0.11	318	3.94	21.6	0.119	0.003	0.001	40.2	0.01	0.06	0.039	15.1	55.7	5.13	252	46.77	4.45	51.22
AXSS0026	327150	7835458	129.5	0.08	135.5	18.45	119.5	43.3	9.8	0.09	30.8	0.07	376	6.39	23.5	0.129	0.001	0.002	29.2	0.013	0.075	0.028	14.95	48.2	7.54	292	48.41	4.52	52.93
AXSS0027	325422	7835029	98.6	0.07	111	9.13	48.2	31.8	5.37	0.17	32.7	0.09	307	1.975	12.4	0.057	0.0005	0.001	46.3	0.01	0.033	0.032	15.85	43.7	6.04	267	49.99	4.38	54.36
AXSS0028	325419	7834982	101.5	0.11	113	9.93	51.8	34.7	4.98	0.19	33.8	0.12	385	1.83	12.6	0.076	0.0005	0.001	49.8	0.01	0.034	0.03	13.45	49	6.26	267	50.86	4.04	54.90
AXSS0029	328850	7836247	131.5	0.15	102	3.13	63.6	26.4	2.99	0.09	28.4	0.06	108	1.74	10.2	0.083	0.0005	0.001	21.7	0.009	0.013	0.084	17.95	26.6	5.24	250	44.72	5.25	49.97
AXSS0030	328981	7836586	120	0.08	65.8	9.5	48.1	31.8	1.48	0.12	47.7	0.08	143	0.501	22.6	0.058	0.0005	0.001	27.3	0.009	0.008	0.041	41.2	75.8	2.5	302	69.42	10.72	80.14
AXSS0031	329556	7835386	195.5	0.37	100.5	7.19	60.5	25.1	1.23	0.03	30.4	0.06	119.5	5.7	16.9	0.149	0.0005	0.001	6.54	0.015	0.011	0.36	33.2	31	2.13	297	57.76	8.62	66.38
AXSS0032	323532	7835552	100	0.09	105.5	8.89	49.8	34.2	3.92	0.19	33.3	0.14	293	1.605	12.8	0.043	0.0005	0.001	56.2	0.008	0.027	0.027	14.85	47.3	6.7	262	51.78	4.43	56.21
AXSS0033	323113	7835817	95.5	0.03	119	8.96	44.9	32.6	4.06	0.23	37.4	0.23	296	1.955	13.05	0.043	0.0005	0.001	61.5	0.009	0.034	0.026	13.35	54.6	3.51	286	57.19	4.16	61.35
AXSS0034	323057	7835713	103.5	0.03	115.5	4.67	35.1	27.9	1.81	0.17	45.5	0.08	72.7	1.165	8.69	0.029	0.0005	0.001	48	0.009	0.019	0.024	14.8	39.2	5.04	306	67.08	4.48	71.56
AXSS0035	322534	7835240	121.5	0.11	119	5.14	58	34.5	2.51	0.16	40.5	0.1	128.5	1.7	12.35	0.048	0.0005	0.001	53.4	0.008	0.032	0.051	20.3	52.5	8.06	313	63.90	5.94	69.83
AXSS0036	322439	7835421	89	0.04	109.5	5.11	31.7	24	2.6	0.15	41.5	0.07	94.5	1.125	7.36	0.03	0.001	0.001	45.7	0.008	0.023	0.029	11.65	38.2	5.2	280	61.44	3.66	65.09
AXSS0037	324655	7835174	105	0.08	101.5	11.1	50.3	32.5	4.51	0.21	35.2	0.15	517	1.335	13.25	0.042	0.0005	0.001	56.4	0.0025	0.033	0.086	14.6	49.1	4.51	258	51.32	4.27	55.59
AXSS0038	324943	7836699	105.5	0.07	128.5	6.56	64.9	32.7	2.99	0.18	40.9	0.14	203	1.63	13.85	0.058	0.0005	0.001	46.7	0.0025	0.034	0.219	20.4	46.2	4.93	329	67.14	6.17	73.31
AXSS0039	325048	7836744	91.8	0.04	203	17.4	19.5	14.8	4.68	0.25	119	0.16	477	1.285	11	0.045	0.0005	0.001	66	0.0025	0.044	0.024	25.9	43.2	6.39	589	130.61	6.45	137.06
AXSS0040	324845	7836717	82.4	0.04	117.5	13.55	46.5	31.8	4.61	0.15	46.7	0.08	337	1.74	13.6	0.046	0.0005	0.001	38.1	0.0025	0.033	0.366	19.7	44.5	3.96	333	78.35	5.61	83.95
AXSS0041	324957	7836894	104	0.09	136	15.05	41.4	22.5	6.8	0.13	57.5	0.08	1055	0.761	9.32	0.041	0.0005	0.001	34.3	0.0025	0.059	0.081	22.7	41.2	5.59	376	81.42	5.86	87.28
AXSS0042	333032	7827087	167	0.25	140.5	7.86	18.05	7.55	2.38	0.2	66.1	0.16	235	2.83	7.87	0.057	0.0005	0.001	77	0.0025	0.033	0.023	16.8	43.3	2.08	364	69.75	4.34	74.09
AXSS0043	333537	7827663	147	0.1	113	14.6	37.5	26.1	4.16	0.26	61.4	0.2	355	1.58	17.55	0.058	0.0005	0.001	60.2	0.0025	0.023	0.03	25.4	72.9	2.78	349	75.50	5.94	81.45
AXSS0044	332004	7828986	230	0.25	180.5	9.33	11.55	4.41	2.77	0.45	110.5	0.31	885	2.34	7.9	0.047	0.0005	0.001	138	0.0025	0.038	0.049	23.6	52.9	2.26	513	102.66	5.43	108.09
AXSS0045	332696	7830074	153.5	0.21	103	18.5	51.4	28.4	4.72	0.22	41.4	0.24	289	1.98	20.2	0.087	0.0005	0.001	59.5	0.0025	0.058	0.053	17.45	62.8	2.46	284	62.79	4.33	67.12
AXSS0046	322733	7831556	213	0.25	85	7.47	58.2	33.7	1.91	0.17	29.8	0.16	150.5	0.973	22.9	0.06	0.0005	0.001	61.8	0.0025	0.015	0.091	18.35	72.4	1.94	230	44.71	4.62	49.33
AXSS0047	322890	7831486	114.5	0.11	105.5	14.1	68.8	36.2	4.64	0.12	35.9	0.09	419	1.155	15.8	0.053	0.0005	0.001	29.5	0.0025	0.032	0.088	21.1	44.5	2.82	285	59.20	5.59	64.78
AXSS0048	323145	7830836	111	0.13	92.8	19.2	59.7	37.7	6.75	0.12	31.2	0.11	587	1.34	18.9	0.074	0.0005	0.001	24.9	0.013	0.037	0.179	14.65	48.3	2.15	232	42.38	4.11	46.49
AXSS0049	323733	7833417	101.5	0.09	96.4	13.15	49.7	32.2	7.4	0.2	30	0.13	462	1.465	11.8	0.078	0.001	0.001	38.8	0.017	0.035	0.248	12.8	49.7	6.16	227	39.23	3.48	42.71
AXSS0050	281803	7802206	87.2	0.02	60.4	6.77	30.4	28.4	4.2	0.08	23.7	0.03	94.9	1.11	22.4	0.063	0.0005	0.001	17.85	0.0025	0.014	0.095	13	40.3	1.25	168	32.76	3.40	36.16
AXSS0051	282154	7802668	236	0.08	91.6	21.6	81.4	34.1	4.42	0.2	36.6	0.23	340	2.72	78.7	0.08	0.0005	0.001	34.9	0.0025	0.11	0.086	15.95	55.5	15	248	52.70	3.60	56.31
AXSS0052	283045	7802030	86.5	0.08	98.5	8.26	35.6	31.3	4.52	0.12	26.9	0.04	122	1.625	17.15	0.046	0.0005	0.001	24	0.0025	0.015	0.135	15.35	40.6	5.06	233	41.63	3.45	45.07
AXSS0053	283282	7801972	93.8	0.29	78.5	6.51	33.6	26.8	3.01	0.1	25.6	0.06	107.5	1.15	15.9	0.044	0.0005	0.001	19.5	0.0025	0.015	0.116	11.6	37.3	4.22	196	37.79	3.08	40.87
AXSS0054	281578	7800336	85.1	0.04	112	10.95	36.5	32.7	4.53	0.11	31.3	0.03	143	1.96	17.05	0.065	0.0005	0.001	23.2	0.0025	0.015	0.159	10.5	47.3	3.66	253	46.71	3.09	49.81
AXSS0055	324347	7831085	185.5	0.24	102	23.2	71.2	51.6	6.47	0.2	32.3	0.2	453	3.18	25.7	0.127	0.0005	0.002	35.5	0.0025	0.114	0.267	31.1	85.9	3.59	299	60.30	7.71	68.01
AXSS0056	330004	7828612	99.8	0.1	98.4	15.6	58.7	32.8	4.94	0.16	31.9	0.12	440	1.51	19.45	0.06	0.0005	0.001	26.1	0.0025	0.036	0.1	20.5	51.2	2.83	257	48.11	5.01	53.12
AXSS0057	329789	7828811	117.5	0.02	105	6.65	61.9	38.9	4.78	0.14	35.4	0.06	69.1	1.82	16.1	0.119	0.0005	0.001	28.4	0.0025	0.021	0.152	24.3	49.7	2.47	284	54.57	5.85	60.42
AXSS0058	329273	7828874	154.5	0.17	64.6	18.55	60.3	35.6	4.89	0.08	21.2	0.1	367	1.9	27.1	0.087	0.0005	0.001	19.75	0.0025	0.06	0.168	17.15	57.8	1.46	178	32.45	4.25	36.69
AXSS0059	329030	7829227	260	0.53	105	42.4	60.2	44.9	9.37	0.35	35.2	0.54	1840	1.315	21.5	0.246	0.003	0.001	25.7	0.014	0.198	0.143	24.6	103	2.77	295	60.43	6.87	67.29

Gold Mountain Limited

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+Pr6O11	Dy2O3+Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0060	329358	7829420	235	0.35	94.2	10.5	37.6	27.4	2.53	0.31	41.7	0.25	416	3.35	13	0.069	0.002	0.001	87.1	0.013	0.05	0.311	14.25	50	1.55	241	41.07	3.64	44.70
AXSS0061	329701	7829688	65.5	0.03	79.1	6.23	35	21	2.64	0.12	34.3	0.07	118.5	0.869	10.9	0.026	0.0005	0.007	24.3	0.011	0.028	0.111	14.15	32.6	0.95	219	43.51	3.99	47.50
AXSS0062	330091	7830205	77.1	0.07	78.8	13.6	45.2	28.9	3.85	0.12	30.2	0.09	380	1.005	14.8	0.043	0.003	0.001	23.1	0.011	0.03	0.132	17.05	42.3	2	215	40.03	4.33	44.37
AXSS0063	328064	7831241	76.5	0.11	99.6	23.3	49.3	35	12.1	0.04	23.2	0.05	784	1.195	16.45	0.155	0.0005	0.001	9.46	0.0025	0.193	0.017	18.85	44	2.53	248	47.04	5.42	52.46
AXSS0064	328281	7831031	140	0.58	65.4	12.65	53.6	33.8	7.6	0.05	13.8	0.09	405	1.925	14.2	0.264	0.0005	0.001	9.92	0.006	0.048	0.19	8.44	47.9	2.6	144	23.50	2.63	26.14
AXSS0065	328608	7830956	123.5	0.08	90.4	8.67	65.6	46.3	9.74	0.08	20.1	0.07	90.9	1.585	17.3	0.076	0.0005	0.001	13.75	0.0025	0.103	0.206	13.5	42.3	9.42	209	36.10	4.39	40.50
AXSS0066	329178	7831271	216	0.4	115	3.13	12.9	13.05	0.92	0.16	51.4	0.11	141.5	2.61	4.39	0.055	0.0005	0.001	58.5	0.0025	0.026	0.044	13.55	39	1.01	292	55.55	3.35	58.90
AXSS0067	329153	7831177	137.5	0.18	85	21.4	68.2	31.2	7.27	0.08	21.4	0.09	917	2	17.8	0.103	0.0005	0.001	23.5	0.0025	0.129	0.072	11.75	41.5	2.34	194	32.20	3.64	35.84
AXSS0068	330495	7830979	99.1	0.16	114	8.39	43.2	17.1	4.97	0.13	29.9	0.09	698	7.1	10.6	0.114	0.0005	0.001	38.7	0.005	0.061	0.07	17.05	41.2	3.59	251	36.35	3.78	40.13
AXSS0069	326186	7829687	47.1	0.04	103	6.64	81.5	35.5	9.47	0.04	20.9	0.02	176	5.14	16	0.131	0.002	0.001	8.16	0.014	0.062	0.322	6.87	54.1	7.46	206	32.42	2.56	34.98
AXSS0070	326056	7830277	37.8	0.14	72.8	3.64	112	58	10.35	0.03	12.1	0.03	193.5	2.2	11.45	0.107	0.0005	0.001	4.91	0.0025	0.114	0.077	4.55	49.4	9.85	136	18.24	1.75	19.99
AXSS0071	325370	7834723	134.5	0.2	101.5	19.7	73.5	35	8.98	0.1	28.6	0.07	307	2.09	22.5	0.138	0.0005	0.001	25.9	0.0025	0.053	0.152	26.8	60.6	4.27	271	48.50	6.47	54.96
AXSS0072	324743	7834616	94.3	0.08	99.8	8.71	44.9	25.8	4.08	0.16	36.1	0.09	375	1.245	9.65	0.05	0.001	0.001	37.3	0.0025	0.032	0.109	13.85	37.6	4.1	257	53.95	3.59	57.54
AXSS0073	323477	7828497	37.3	0.02	125	4.3	65.3	38.1	6.51	0.03	29	0.02	89.5	2.79	12.05	0.07	0.006	0.001	4.38	0.012	0.076	0.812	28.8	46.1	5.9	299	43.52	7.37	50.89
AXSS0074	324253	7827397	58.5	0.07	108.5	29.9	113	91.4	10.45	0.05	25.6	0.04	450	2.68	28.8	0.096	0.0005	0.002	10.7	0.0025	0.129	0.551	26.1	56.3	6.21	267	41.18	6.66	47.84
AXSS0075	328037	7833761	151	0.14	110	23.4	43.7	23.2	4.94	0.17	47.2	0.16	840	2.37	18.1	0.074	0.0005	0.001	63.2	0.0025	0.082	0.137	17.75	63.9	2.29	289	53.76	4.48	58.24
AXSS0076	327370	7833864	84.1	0.28	71.3	9	35.1	22.9	9.99	0.03	18.3	0.06	107	1.435	9.87	0.254	0.001	0.001	5.58	0.0025	0.096	0.033	10.95	64	0.45	176	33.87	3.76	37.63
AXSS0077	327703	7834584	272	0.91	32.2	61.3	44	14.65	24.6	0.04	6.33	0.09	4010	1.16	12.55	0.21	0.0005	0.001	3.22	0.009	0.03	0.077	3.04	37.5	1.7	66	10.47	0.98	11.46
AXSS0078	327840	7834645	105	0.2	96.6	10.7	48.7	26.6	5.85	0.1	35.5	0.1	365	4.43	14.75	0.09	0.0005	0.001	33.5	0.006	0.084	0.163	16.1	49.4	2.16	246	44.58	4.16	48.75
AXSS0079	325662	7833980	137	0.18	91.9	11.5	89.4	38.3	5.56	0.11	24.8	0.1	279	2.35	25.1	0.114	0.0005	0.001	27.6	0.0025	0.082	0.156	23.5	58.9	3.73	241	42.40	5.75	48.15
AXSS0080	326877	7834804	208	0.63	59.1	28.6	64.4	15.95	21.4	0.05	11.95	0.08	911	2.01	13.8	0.179	0.001	0.001	3.63	0.021	0.032	0.203	6.03	52.2	3.39	120	16.95	1.73	18.67
AXSS0081	323045	7833944	92.6	0.11	110.5	4.86	69.7	34.2	6.11	0.1	22	0.06	211	2.16	10.75	0.098	0.001	0.001	27.8	0.0025	0.03	0.154	8.57	39	9.58	216	29.97	2.67	32.64
AXSS0082	327994	7831434	176	0.29	75.7	26.6	84	34.7	10.3	0.05	18.7	0.12	842	1.6	21.6	0.163	0.0005	0.001	10.05	0.0025	0.168	0.027	14.05	63.2	3	187	33.79	4.26	38.05
AXSS0083	327995	7831458	147	0.33	89.5	15.45	66	41.2	5.52	0.08	18.15	0.16	278	1.485	22.8	0.107	0.0005	0.001	15.2	0.0025	0.133	0.034	16.05	72.5	4.86	204	31.79	4.38	36.17
AXSS0084	327329	7831546	161	0.56	62.7	15	33.9	23.7	12.95	0.03	15.45	0.1	622	1.395	10.25	0.201	0.0005	0.001	5.18	0.0025	0.053	0.056	9.77	47.3	1.39	153	29.10	3.40	32.49
AXSS0085	327353	7831531	141	0.54	79.8	8.79	40.6	36.4	9.64	0.03	19.55	0.1	254	1.565	10.75	0.221	0.0005	0.001	4.77	0.0025	0.061	0.067	12.85	50.9	1.21	196	37.57	4.36	41.93
AXSS0086	324082	7830973	121.5	0.09	101	6.1	49.1	25.1	3.64	0.11	21.5	0.05	172.5	1.615	10.15	0.07	0.0005	0.001	23	0.0025	0.015	0.155	8.29	32.9	4.38	208	34.21	2.66	36.86
AXSS0087	324467	7831846	129.5	0.13	97.4	11.7	57.9	44.4	6.35	0.09	28.4	0.05	219	2.99	18.05	0.106	0.0005	0.001	28.9	0.0025	0.037	0.22	19.85	43.5	5.84	247	44.71	5.06	49.77
AXSS0088	324442	7834117	95.1	0.18	106	4.06	53.7	26.6	4.64	0.14	28.3	0.08	222	1.94	9.18	0.078	0.002	0.001	30.7	0.0025	0.034	0.152	9.24	49.9	9.51	227	37.23	2.71	39.94
AXSS0089	324696	7834083	82.3	0.07	105	11.8	46.3	30	4.64	0.15	39.3	0.08	382	1.43	10.9	0.046	0.0005	0.001	36.1	0.0025	0.043	0.113	16.9	43.5	4.5	279	59.68	4.47	64.15
AXSS0090	324826	7832847	111	0.07	84.9	7.14	83.5	35.4	4.28	0.07	21.5	0.04	117.5	2.23	19.35	0.075	0.0005	0.001	15.75	0.0025	0.048	0.222	10.55	36.9	2.93	194	34.19	3.50	37.69
AXSS0091	324760	7832786	108.5	0.05	75.4	5.46	45.2	27.7	2.59	0.09	29.7	0.06	139	1.445	11.2	0.059	0.0005	0.001	24.9	0.0025	0.025	0.138	15.8	33.7	1.09	211	42.43	4.31	46.74
AXSS0092	281587	7800306	85.6	0.02	48.9	6.34	34.4	24.3	2.45	0.09	19.4	0.02	50.6	1.05	17.35	0.05	0.0005	0.001	17.35	0.0025	0.012	0.124	9.83	43.3	3.6	134	26.00	2.60	28.59
AXSS0093	283506	7801543	69.8	0.06	60.8	5.96	54.4	30.3	5.33	0.07	16.65	0.04	176	1.81	15.6	0.061	0.003	0.001	13.45	0.0025	0.025	0.205	6.52	34.2	7.42	135	22.72	1.94	24.66
AXSS0094	283416	7801526	111	0.11	92.6	11.2	45.9	32.4	4.72	0.1	29.9	0.08	321	1.58	26.9	0.06	0.0005	0.001	19.5	0.0025	0.024	0.265	15.9	66.3	4.91	231	43.37	3.58	46.95
AXSS0095	283209	7801487	143.5	0.07	114	16	32.7	34.1	4.99	0.14	34.8	0.06	390	1.385	27	0.057	0.0005	0.001	25.1	0.0025	0.013	0.154	10.4	58.5	4.13	263	49.46	3.23	52.69
AXSS0096	280945	7799205	58.7	0.02	77.7	3.63	40.1	28.9	3.81	0.09	20.1	0.02	54.9	1.535	7.7	0.045	0.0005	0.001	19	0.0025	0.023	0.108	8.84	21.1	5.47	175	31.29	2.38	33.67
AXSS0097	281184	7799655	154	0.07	115	16.9	34.5	35.6	4.98	0.14	34.1	0.06	408	1.405	27.8	0.057	0.0005	0.001	27.6	0.0025	0.012	0.15	10.85	58.3	4.13	263	49.22	3.24	52.46
AXSS0098	327209	7820763	92.2	0.1	95	7.16	53.5	21.2	3.29	0.11	30.5	0.07	356	0.435	6.01	0.026	0.0005	0.001	31.6	0.0025	0.017	0.048	17.05	28.2	4.2	236	42.36	4.03	46.38
AXSS0099	329279	7823467	84.2	0.07	81.1	8.3	41.8	14.8	6.04	0.1	28.6	0.07	428	0.708	8.17	0.038	0.0005	0.001	23	0.0025	0.019	0.089	12.45	30.5	2.55	205	38.31	3.52	41.82
AXSS0100	329057	7823885	79.1	0.05	94.1	9.98	57.5	26.6	4.28	0.15	32.6	0.09	285	1.135	13	0.052	0.0005	0.001	32	0.0025	0.029	0.109	11.75	44.8	2.73	233	44.88	3.67	48.55
AXSS0101	329580	7822456	62	0.03	75.5	6.59	79.9	34.9	4.46	0.14	27.6	0.05	98.3	0.748	14.9	0.037	0.0005	0.001	27.2	0.0025	0.008	0.047	5.8	25	1.96	186	40.47	2.17	42.63
AXSS0102	329766	7822626	55.3	0.02	53.5	16.3	106.5	33	4.46	0.11	12.45	0.05	466	0.831	20.1	0.045	0.002	0.001	32.8	0.0025	0.011	0.053	3.55	32	1.98	107	15.76	1.23	16.99
AXSS0103	329731	7823764	96.4	0.04	89	7.2	32.7	18.3	1.83	0.22	46.4	0.18	211	1.015	11.5	0.022	0.0005	0.001	58.4	0.0025	0.042	0.066	19.2	63.9	2.36	279	66.09	4.89	70.98
AXSS0104	332258	7822493	68.4	0.1	78	14.3	47.3	27.6	4.43	0.22	24.9	0.17	607	1.39	11.5	0.043	0.0005	0.001	59.4	0.0025	0.035	0.071	12.65	48.8	2.18	192	34.28	3.45	37.73
AXSS0105	332429	7822692	129	0.14	72.8	15.65	39.6	27.8	3.6	0.21	26	0.19	380	1.265	12.3	0.062	0.0005	0.001	43.8	0.0025	0.034	0.08	16.8	71.7	1.6	197	36.57	3.97	40.53

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0106	332365	7822685	137.5	0.15	68.4	14.7	37.3	26.8	3.4	0.22	24.5	0.22	401	1.35	12.7	0.054	0.0005	0.001	54	0.0025	0.033	0.07	14.75	71.9	1.56	183	34.54	3.53	38.07
AXSS0107	331767	7822406	69	0.03	66.8	10.2	41.5	25.5	3.46	0.12	25.9	0.07	377	0.74	11.85	0.036	0.0005	0.001	20.5	0.0025	0.018	0.062	19.9	37.5	1.91	196	36.98	4.56	41.54
AXSS0108	331581	7823989	88.6	0.07	107.5	11.8	42.8	25.1	4.65	0.12	26.4	0.08	1010	1.405	10.6	0.051	0.0005	0.001	29.9	0.0025	0.028	0.099	7.26	45.7	3.35	224	37.63	2.63	40.26
AXSS0109	331492	7826999	96.2	0.08	138	7.5	41.1	25.4	6.61	0.12	36.5	0.09	265	3.66	7.94	0.079	0.0005	0.001	29.3	0.0025	0.068	0.191	8.82	30.2	6.93	283	43.64	2.73	46.36
AXSS0110	328399	7821597	158	0.1	102.5	28.9	54.6	29.6	4.9	0.16	35	0.13	1160	1.04	15.9	0.042	0.0005	0.001	32.9	0.0025	0.054	0.083	25.7	56.8	2.63	279	50.48	6.00	56.49
AXSS0111	328547	7821769	165.5	0.18	92.6	20.5	69	22.3	4.64	0.35	38.4	0.26	645	2.27	12.4	0.059	0.0005	0.001	90.1	0.0025	0.084	0.045	17.2	66.9	2.42	251	48.38	4.24	52.63
AXSS0112	327585	7823310	83.4	0.06	71.7	9.82	36	24.9	2.75	0.11	26.2	0.07	297	0.946	11	0.04	0.0005	0.001	17.3	0.0025	0.02	0.059	17.4	38.2	2.68	200	39.23	4.03	43.26
AXSS0113	327684	7823327	62.1	0.03	60.2	8.16	32.2	19.15	2.39	0.09	22.7	0.06	186.5	0.57	9.51	0.032	0.0005	0.001	14.7	0.0025	0.017	0.066	14.7	31.9	1.58	170	33.31	3.49	36.80
AXSS0114	328232	7822548	100.5	0.09	72	18.3	112.5	30.4	2.99	0.14	30.4	0.09	209	0.503	41.1	0.022	0.001	0.001	30.6	0.0025	0.021	0.077	13.45	39.6	1.72	201	40.51	3.84	44.35
AXSS0115	328118	7822350	57.1	0.01	59.3	4.84	20.3	20.6	2.97	0.08	18.9	0.01	54	0.859	9.95	0.038	0.0005	0.001	13.05	0.0025	0.011	0.136	6.22	21.1	1.33	143	27.83	2.01	29.84
AXSS0116	326956	7822392	54.2	0.03	70.1	6.41	37.8	23.4	3.09	0.17	23.5	0.12	138.5	0.739	8.78	0.031	0.0005	0.001	41.3	0.0025	0.024	0.068	12.7	38.9	2.77	181	33.05	3.70	36.74
AXSS0117	327426	7829218	82.2	0.04	85.9	18.7	93.1	38.8	7.59	0.1	30.3	0.11	418	2.66	26.9	0.067	0.0005	0.001	15.25	0.0025	0.101	0.275	28.4	62.6	2.38	267	56.89	7.19	64.08
AXSS0118	327455	7829247	133	0.17	70.4	12.2	63.6	28.2	6.93	0.11	20.6	0.16	399	1.785	17.75	0.089	0.0005	0.001	15.75	0.0025	0.147	0.065	13	49.1	2.4	184	36.20	4.16	40.36
AXSS0119	328009	7827871	214	0.11	103	48	189	54.8	9.62	0.43	41	0.34	1265	5.54	98.2	0.11	0.0005	0.001	40.1	0.005	0.233	0.237	29.7	105	5.52	328	77.14	7.72	84.86
AXSS0120	327951	7827882	101.5	0.04	85.3	11.85	71.1	37.4	4.8	0.11	28.9	0.13	205	2.5	24.1	0.075	0.0005	0.001	21.8	0.0025	0.118	0.309	20.3	56.7	0.86	243	51.20	5.46	56.67
AXSS0121	328451	7827142	220	0.12	99.2	30.6	133.5	52.4	8.41	0.4	35.6	0.33	843	4.36	68.8	0.099	0.0005	0.001	41.7	0.005	0.182	0.231	25.9	95.6	4.7	297	66.87	6.77	73.64
AXSS0122	328406	7826870	85	0.11	71.6	21.8	113.5	48	7.38	0.09	22.9	0.1	579	2.19	27.8	0.074	0.0005	0.001	16.85	0.0025	0.111	0.448	17.25	48.1	3.16	194	35.57	4.54	40.12
AXSS0123	328578	7827089	71.1	0.1	72.9	9.73	44	26.9	3.36	0.12	26.3	0.08	309	1.025	12.8	0.042	0.0005	0.001	20	0.0025	0.026	0.13	15.45	38.3	1.92	197	38.17	3.88	42.06
AXSS0124	330523	7827164	54.5	0.01	136.5	6.55	21.7	9.74	3.89	0.29	63.2	0.16	235	3	5.3	0.02	0.0005	0.001	135.5	0.0025	0.053	0.045	14.8	47.4	4.22	352	69.89	3.86	73.75
AXSS0125	330198	7827154	60.3	0.05	74.2	6.52	31.8	17.05	3.46	0.08	24.6	0.06	94.7	1.615	7.23	0.067	0.0005	0.001	26.6	0.0025	0.054	0.079	15.1	32.2	1.24	193	35.02	3.79	38.81
AXSS0126	332027	7827703	190.5	0.15	136.5	14.75	43.9	21.5	12	0.22	40.6	0.17	549	3.12	13.6	0.128	0.0005	0.001	57.7	0.0025	0.065	0.247	11.95	41	5.04	297	48.48	3.33	51.81
AXSS0127	332369	7826303	98	0.06	118	6.67	46.2	26.5	2.75	0.17	47.7	0.09	257	1.515	10.15	0.062	0.0005	0.001	42.4	0.0025	0.028	0.151	17.4	32.1	0.29	308	61.87	4.29	66.16
AXSS0128	329156	7827551	70.8	0.11	76.4	9.6	46.5	28.1	3.89	0.12	25.5	0.08	330	1.445	13.75	0.047	0.0005	0.001	20.2	0.0025	0.029	0.126	13.1	40.4	2.69	196	36.86	3.64	40.50
AXSS0129	329995	7827794	67.3	0.06	66.9	10.05	38.6	23	2.82	0.1	24.9	0.07	261	0.907	12.35	0.039	0.0005	0.001	16.9	0.0025	0.024	0.108	12.45	35.7	1.48	181	36.16	3.48	39.64
AXSS0130	281115	7799537	77.5	0.03	93.1	12.45	56.5	34.4	4.29	0.09	26.2	0.02	152	1.645	15.5	0.056	0.0005	0.001	18.35	0.0025	0.031	0.225	12.9	39.3	3.07	223	42.13	3.59	45.72
AXSS0131	280661	7803286	64.1	0.04	118	25.7	10.9	26.8	6.25	0.06	37.8	0.03	849	0.813	23.8	0.033	0.001	0.001	7.94	0.015	0.023	0.075	5.17	49.9	5.63	266	53.14	2.40	55.54
AXSS0132	281818	7803241	85.6	0.03	65.1	6.94	30.5	27.6	3.1	0.09	26	0.04	82.8	1.225	20.4	0.064	0.0005	0.001	16.75	0.0025	0.016	0.131	13.3	42.4	0.9	180	35.12	3.42	38.54
AXSS0133	280070	7802020	78.5	0.01	55.2	5.98	14.2	13.55	1.01	0.07	22.6	0.02	81.8	0.795	11.45	0.015	0.0005	0.001	15.05	0.0025	0.047	0.092	5.65	47.7	8.25	147	32.75	2.08	34.84
AXSS0134	280070	7802020	74.6	0.03	70.1	8.75	18.5	24.7	2.87	0.08	24.7	0.02	192.5	0.843	17.45	0.032	0.0005	0.001	15	0.0025	0.019	0.112	8.66	50.9	1.15	176	35.23	2.51	37.75
AXSS0135	281373	7801162	39.2	0.01	62.7	3.57	24.2	15.2	3.39	0.07	17.65	0.02	89.2	1.295	8.33	0.02	0.001	0.001	14.6	0.0025	0.023	0.134	9.9	25.4	2.22	147	24.76	2.17	26.93
AXSS0136	280117	7800140	50.8	0.01	65.9	3.84	34.7	24.5	2.87	0.07	22.9	0.02	70.4	1.605	7.84	0.043	0.0005	0.001	16	0.0025	0.037	0.107	13.2	23.5	2.8	182	39.37	3.32	42.70
AXSS0137	282987	7798948	112	0.04	78.7	6.9	46.6	25.8	3.61	0.12	26.1	0.04	116.5	1.89	19.15	0.056	0.001	0.001	26.6	0.0025	0.019	0.225	8.77	37.7	2.48	190	36.69	2.73	39.42
AXSS0138	283878	7799200	98.6	0.04	97.8	15.05	43.3	32.4	3.82	0.1	26.3	0.07	391	1.67	32.6	0.052	0.001	0.001	14.2	0.0025	0.034	0.09	10.5	35.4	1.86	219	38.83	2.83	41.66
AXSS0139	280225	7798865	83.8	0.04	91.7	6.77	45.8	29.5	2.75	0.14	25.2	0.04	112	1.28	11.9	0.049	0.001	0.001	25.5	0.0025	0.014	0.219	5.26	24.6	1.39	199	37.56	2.05	39.62
AXSS0140	280418	7799165	72.9	0.05	62.4	8.8	34.6	24.6	3.86	0.08	20.5	0.03	210	1.45	12.2	0.053	0.0005	0.001	15.3	0.0025	0.022	0.156	7.68	31.2	2.77	151	28.52	2.13	30.65
AXSS0141	280166	7799201	60.4	0.02	64.1	4.84	30.2	24.6	3.52	0.08	18.25	0.02	98.9	1.55	9.19	0.043	0.0005	0.001	15.5	0.0025	0.026	0.104	4.18	25.7	3.07	142	26.50	1.54	28.04
AXSS0142	282592	7798503	91.8	0.08	65.7	6.7	46	22.9	3.94	0.09	24.3	0.12	219	2.49	22.4	0.094	0.001	0.001	16.3	0.0025	0.025	0.265	11.55	40.7	4.21	173	33.38	3.02	36.41
AXSS0143	282487	7798506	61.7	0.04	120.5	3.85	82.8	32.2	7.47	0.09	8.81	0.03	174	3.64	11.2	0.087	0.002	0.001	17.95	0.009	0.05	0.295	3.41	36.1	18.5	180	11.55	1.10	12.65
AXSS0144	283168	7800659	101	0.04	74.7	17.05	24.7	29.6	4.52	0.1	30.2	0.06	416	1.17	20.4	0.048	0.0005	0.001	15.3	0.0025	0.015	0.134	10.2	39.2	1.02	201	43.55	2.99	46.54
AXSS0145	284051	7801265	52.2	0.03	30	6.03	32	18.8	3.58	0.05	13.5	0.02	143.5	1.23	12.6	0.04	0.002	0.001	7.48	0.0025	0.017	0.08	5.01	19.6	2.86	84	17.16	1.52	18.69
AXSS0146	283988	7801180	51.2	0.02	50.9	4.47	52.5	29.1	5.26	0.08	16.3	0.03	86.4	1.825	13.8	0.054	0.002	0.001	12.8	0.0025	0.024	0.183	6.44	26	6.43	121	21.42	1.83	23.25
AXSS0147	283787	7802258	64.2	0.02	62.8	2.04	42.6	28.8	4.96	0.12	17.65	0.03	59.6	1.78	11.05	0.046	0.002	0.002	21.9	0.0025	0.011	0.165	4.14	17.6	5.53	136	23.01	1.72	24.74
AXSS0148	286563	7799444	31.5	0.01	59	2.61	17.85	15.25	2.95	0.08	14.45	0.02	53.9	0.707	6.08	0.017	0.001	0.001	14.65	0.0025	0.016	0.094	5.88	15.2	5.82	131	23.27	1.94	25.21
AXSS0149	286617	7799253	59.7	0.02	41.9	3.91	40.5	28	4.35	0.05	18.9	0.02	85	0.796	13.85	0.036	0.0005	0.001	8.56	0.0025	0.014	0.121	5.76	17.3	5.04	115	24.02	1.77	25.79
AXSS0150	286783	7799477	76.7	0.05	67.8	14.45	41.2	31.3	6.34	0.08	24.7	0.04	437	1.16	17.55	0.062	0.001	0.001	12.3	0.0025	0.02	0.12	10.05	39.1	4.32	172	32.42	2.68	35.11
AXSS0151	286799	7799956	53.8	0.02	41.3	4.79	41.2	25.9	4.95	0.07	17.5	0.02	121	1.095	13.3	0.05	0.003	0.001	9.96	0.0025	0.021	0.092	5.18	25.9	4.34	109	22.08	1.62	23.70
AXSS0152	287022	7799324	73.1	0.04	109	15	39.3	40.8	4.63	0.19	35.1	0.17	342	1.525	19.25	0.047	0.0005	0.001	34.1	0.0025	0.038	0.167	19	70	4.16	273	49.91	4.37	54.28

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+Pr6O11	Dy2O3+Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0153	287054	7799277	59.6	0.02	86.9	16.1	44.1	39	4.57	0.14	25.2	0.08	217	1.3	15.05	0.046	0.0005	0.001	27.2	0.0025	0.024	0.113	13.3	51	3.2	207	35.91	3.42	39.33
AXSS0154	286947	7798980	82.7	0.03	99	17.45	45.2	40.5	5.53	0.15	23.7	0.08	333	1.99	17.3	0.051	0.0005	0.001	30.7	0.0025	0.03	0.16	12	51.2	5.14	214	32.29	3.27	35.56
AXSS0155	286462	7798751	39.5	0.02	39.7	3.42	14.95	13.35	2.31	0.06	12.75	0.02	38.7	0.747	7.3	0.028	0.0005	0.001	9.24	0.0025	0.012	0.094	3.9	14.7	1.76	95	18.38	1.37	19.75
AXSS0156	286497	7798384	66.5	0.01	74.8	7.21	26.3	28.1	4.21	0.11	21.9	0.02	118.5	1.34	11.55	0.05	0.0005	0.001	18.7	0.0025	0.011	0.126	7.62	26.8	2.8	174	32.05	2.48	34.52
AXSS0157	286807	7798088	96.4	0.06	69.6	19.55	43.3	33.9	5.87	0.09	26.7	0.05	674	1.155	20.4	0.055	0.0005	0.002	16.15	0.0025	0.016	0.115	11.35	49.2	3.57	184	36.45	3.08	39.53
AXSS0158	284789	7798776	111	0.03	54.2	12.55	45.6	32.5	5.57	0.09	22.8	0.17	139.5	0.988	62.7	0.079	0.0005	0.002	13	0.0025	0.014	0.145	7.49	48	2.07	148	31.64	2.48	34.11
AXSS0159	284769	7798410	60.5	0.02	43.9	7.03	19.1	29.3	4.19	0.07	16.05	0.02	137	0.823	17.45	0.052	0.0005	0.001	10.7	0.0025	0.006	0.09	6.11	29	1.02	112	21.67	1.98	23.65
AXSS0160	284678	7798934	63.8	0.03	52.6	6.02	57.2	32.6	5.58	0.07	16.9	0.03	159.5	1.375	14.5	0.057	0.001	0.001	11.85	0.0025	0.017	0.199	6.25	31.6	5.24	124	21.91	1.87	23.78
AXSS0161	284575	7799617	44.9	0.02	37.9	2.23	24.3	16.15	2.53	0.06	13.35	0.03	44.8	0.597	7.81	0.024	0.001	0.001	11.85	0.0025	0.009	0.107	4.39	14.6	2.42	95	18.89	1.50	20.39
AXSS0162	284658	7799573	42.7	0.02	30.1	2.86	33.9	20	3.17	0.04	11.3	0.01	54.9	0.917	9.69	0.033	0.0005	0.125	6.61	0.0025	0.014	0.135	4.62	18.3	3.2	78	14.85	1.33	16.18
AXSS0163	287380	7798085	59.2	0.01	86.7	11.9	34.1	32.2	4.4	0.14	24	0.06	241	1.525	12.15	0.032	0.0005	0.001	27.2	0.0025	0.027	0.132	12	33	2.52	199	32.59	3.30	35.89
AXSS0164	284697	7803455	98.9	0.08	64.5	8.62	28.1	32.6	3.18	0.11	24.6	0.06	103	1.085	17.75	0.049	0.0005	0.001	18.85	0.0025	0.012	0.096	11.65	41.7	1.66	175	34.77	3.44	38.21
AXSS0165	284649	7802404	50.8	0.02	56	2.58	29.5	28.2	3.44	0.07	26	0.02	44.6	0.961	11.25	0.045	0.0005	0.001	11.4	0.0025	0.01	0.09	11.2	16.1	1.82	168	37.15	3.48	40.64
AXSS0166	284733	7802442	53.7	0.02	34.5	3.34	37.8	18.9	4.21	0.07	14	0.02	48.5	1.88	12.05	0.042	0.002	0.001	9.37	0.0025	0.019	0.09	4.33	19	3.93	90	17.89	1.44	19.33
AXSS0167	286687	7803005	66.3	0.02	47.2	4.44	26.7	24.1	3.12	0.07	19.25	0.02	87.4	1.04	10.55	0.032	0.0005	0.001	13.65	0.0025	0.008	0.084	10.1	17.2	2.32	139	30.14	3.04	33.18
AXSS0168	286795	7803048	80.4	0.06	75.8	7.33	66	33.6	6.7	0.1	23.2	0.04	180.5	2.33	13.7	0.073	0.002	0.001	17.8	0.0025	0.035	0.183	11.2	41.3	11.35	183	31.87	3.22	35.09
AXSS0169	286009	7802969	62.5	0.06	39.3	4.08	43.8	26.9	5.19	0.09	14.5	0.03	65.4	1.485	15.6	0.051	0.001	0.001	11.8	0.0025	0.012	0.12	4.5	26.3	7.22	98	18.57	1.52	20.09
AXSS0170	284490	7798818	103	0.09	78.6	4.92	44.9	21	1.74	0.08	33.6	0.04	85.6	0.84	18.45	0.025	0.001	0.001	18.55	0.0025	0.034	0.054	11.75	29.4	3.85	222	51.47	3.36	54.83
AXSS0171	288001	7796793	79.6	0.03	102.5	17.4	23.8	36.4	5	0.13	16.6	0.06	247	1.78	14.5	0.049	0.002	0.001	23.1	0.0025	0.02	0.11	9.65	38.8	2.23	194	23.28	2.65	25.93
AXSS0172	286705	7797013	81.5	0.02	76.4	9.75	22.3	30.9	4	0.1	22.5	0.03	151	1.34	14.5	0.047	0.0005	0.001	18.1	0.0025	0.009	0.129	8.61	30.2	1.7	178	32.42	2.60	35.02
AXSS0173	286532	7797368	67.8	0.04	69.5	14.8	38.5	31.3	5.27	0.11	23.1	0.08	329	1.345	17.7	0.055	0.0005	0.001	18.75	0.0025	0.021	0.146	9.59	44.8	3.58	172	32.23	2.74	34.96
AXSS0174	286514	7797728	122	0.11	88.5	20	54.1	26.9	4.15	0.17	37.1	0.14	830	1.1	12.35	0.038	0.0005	0.001	40.5	0.0025	0.049	0.049	21.9	49.8	2.64	257	50.41	5.54	55.94
AXSS0175	286618	7796425	59.2	0.03	52.7	8.52	36.1	27	4.45	0.07	19.5	0.03	224	0.999	13.9	0.043	0.001	0.001	12.7	0.0025	0.016	0.105	7.1	28.7	3.43	134	25.60	2.13	27.73
AXSS0176	287238	7796446	72.1	0.02	92.5	8.78	25	30.9	2.42	0.13	29.3	0.09	90.4	1.425	13.7	0.032	0.001	0.001	28.7	0.0025	0.025	0.081	17.8	45.4	0.98	232	40.59	4.24	44.83
AXSS0177	284503	7797014	95.3	0.03	67.4	9.02	29.6	27	3.62	0.13	23.8	0.04	178	0.886	16.95	0.041	0.001	0.001	19.85	0.0025	0.009	0.197	8.27	33.2	1.81	168	32.27	2.70	34.97
AXSS0178	284504	7796713	78.8	0.08	64.9	7.96	39.8	30.8	7.17	0.09	22	0.06	169	1.225	19.5	0.07	0.003	0.001	16.9	0.0025	0.013	0.212	8.68	46.5	3.81	161	30.88	2.51	33.40
AXSS0179	285680	7796500	77	0.03	58.2	4.91	31.1	28.5	3.3	0.09	17.8	0.04	56.5	0.741	16.5	0.049	0.0005	0.001	17.1	0.0025	0.006	0.157	7.27	30.6	1.22	139	25.23	2.22	27.45
AXSS0180	284741	7797346	67.6	0.02	55.1	8.29	20.2	25.4	3.38	0.08	18.85	0.02	267	1.005	14.05	0.039	0.001	0.001	11.6	0.0025	0.008	0.091	5.07	32.9	1.4	132	24.95	1.86	26.81
AXSS0181	284687	7797425	102.5	0.03	79.7	7.49	38.5	36.1	4.68	0.12	29.6	0.1	130	1.245	26.5	0.053	0.0005	0.001	17.05	0.0025	0.013	0.101	13.6	48.1	2.32	210	40.73	3.72	44.45
AXSS0182	284884	7797940	80	0.03	50.7	4.84	18	27.8	4.15	0.1	21.7	0.04	77.9	0.987	14.35	0.056	0.003	0.002	13.2	0.0025	0.005	0.069	7.22	30	1.38	138	28.10	2.75	30.86
AXSS0183	284877	7798023	88.9	0.03	53	5.32	28.1	35.3	5.87	0.13	22.2	0.04	66.5	1.255	17.7	0.065	0.002	0.001	16.05	0.0025	0.006	0.107	6.22	34.4	2.37	141	29.14	2.39	31.53
AXSS0184	284617	7798233	124.5	0.07	70.1	10.2	43.5	35.9	5.2	0.14	26.6	0.1	231	1.43	26.8	0.07	0.0005	0.001	19.75	0.0025	0.013	0.104	12.85	47.7	2.74	188	36.14	3.61	39.74
AXSS0185	284500	7798179	96.7	0.04	97	8.41	37.7	33.7	5.5	0.19	28.1	0.06	182	1.48	15.05	0.047	0.001	0.001	32.9	0.0025	0.01	0.099	9.21	44.9	5.4	222	39.85	3.20	43.05
AXSS0186	317936	7839691	133	0.08	101.5	7.75	31.4	18.85	2.85	0.17	38.8	0.1	342	1.215	10.3	0.06	0.001	0.002	52.5	0.007	0.015	0.098	12.05	46.7	4.72	249	45.67	3.43	49.09
AXSS0187	318835	7839850	139.5	0.13	113	6.49	23.9	18.25	2.81	0.19	40.3	0.11	260	1.28	7.84	0.055	0.0005	0.003	60	0.007	0.018	0.055	12.75	40.5	4.64	275	52.59	3.77	56.36
AXSS0188	318984	7839544	151.5	0.09	114	6.87	69.3	21.8	3	0.21	38.8	0.13	237	1.01	17.85	0.036	0.0005	0.003	68.3	0.007	0.044	0.023	13.15	45	15.8	279	55.13	4.08	59.21
AXSS0189	318897	7839526	105.5	0.1	111	6.76	35.7	25.4	3.05	0.18	41.8	0.1	235	1.43	9.14	0.048	0.002	0.003	46.6	0.007	0.027	0.095	16.2	40	4.2	288	58.22	4.48	62.70
AXSS0190	318995	7841593	166	0.12	125.5	26.4	46	24.3	4.56	0.18	42.7	0.11	621	1.82	14.4	0.065	0.001	0.003	50.1	0.008	0.044	0.054	16.35	64.8	3.35	304	55.06	4.73	59.80
AXSS0191	319391	7841480	178	0.19	136	19.4	58	18.95	5.65	0.3	45.1	0.23	1035	1.6	14.9	0.069	0.002	0.003	85.2	0.008	0.087	0.021	22	59	6.04	329	54.94	5.62	60.56
AXSS0192	319229	7841190	132	0.14	116	8.93	41.4	27.7	3.62	0.2	44	0.12	401	1.515	10.8	0.053	0.001	0.003	54.9	0.007	0.028	0.083	17.6	47.8	5.03	302	60.10	4.93	65.03
AXSS0193	319354	7841219	102	0.09	103	8.18	45.7	20.3	3.84	0.18	37.4	0.11	321	1.27	10.35	0.038	0.001	0.003	52.7	0.006	0.04	0.029	13	42.3	5.74	258	50.06	4.24	54.30
AXSS0194	308970	7917381	218	0.1	243	66.7	690	87.1	8.28	0.1	67.4	0.13	331	5.68	285	0.187	0.003	0.007	21.9	0.009	0.169	0.026	30.9	76.5	36.9	573	109.92	8.66	118.58
AXSS0195	308904	7916960	200	0.22	124	161.5	687	61.9	7.31	0.07	35.5	0.07	1420	1.88	280	0.18	0.013	0.004	5.33	0.011	0.035	0.103	61.9	69.8	2.23	448	102.68	15.08	117.76
AXSS0196	309217	7916492	32.1	0.03	257	9.85	257	138	1.55	0.01	72.2	0.01	31.7	0.864	68.2	0.162	0.0005	0.004	1.13	0.005	0.007	0.05	299	16.7	0.91	2217	871.37	118.20	989.58
AXSS0197	309304	7916512	224	0.1	278	20.6	443	101	8.12	0.03	65.4	0.04	182	9.12	122.5	0.232	0.008	0.009	5.46	0.012	0.165	0.046	17.45	50.1	47	566	92.98	5.46	98.44
AXSS0198	310166	7916062	419	0.16	409	13.45	1300	121	3.49	0.03	132.5	0.08	80.5	7.49	245	0.232	0.009	0.007	6.01	0.01	0.18	0.035	33.1	61.2	33	952	191.36	10.11	201.47
AXSS0199	311596	7916751	308	0.33	289	21.5	198	95.5	11.65	0.05	66.9	0.1	548	10.85	95.2	0.238	0.007	0.008	13.65	0.013	0.184	0.04	12.05	102	42	563	87.71	4.15	91.86

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+Pr6O11	Dy2O3+Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0200	310056	7916782	385	0.25	326	17.8	617	90.3	4.18	0.04	128.5	0.18	124	6.42	218	0.189	0.006	0.005	7.3	0.011	0.143	0.023	42.8	56.4	16.1	852	181.73	11.13	192.86
AXSS0201	305747	7915933	220	0.21	384	7.4	409	74.9	10.45	0.03	103.5	0.08	239	8.99	120.5	0.192	0.005	0.006	3.25	0.012	0.18	0.037	21.8	39.4	51.9	794	133.81	6.38	140.19
AXSS0202	305985	7917468	425	0.23	327	123.5	942	46.1	9.76	0.03	121.5	0.5	1475	5.8	616	0.219	0.005	0.004	5.84	0.01	0.201	0.07	18.45	144	17.25	779	169.09	5.98	175.07
AXSS0203	305443	7916688	144.5	0.18	145	2.78	461	19.45	2.73	0.03	45.2	0.08	91.4	2.69	111	0.118	0.0005	0.003	3.55	0.014	0.102	0.017	5.05	24.5	4.86	320	65.26	2.26	67.52
AXSS0204	305524	7916650	98.5	0.17	94.8	5.69	488	12.25	4.07	0.02	17.45	0.06	191	3.14	46.6	0.057	0.001	0.002	2.2	0.027	0.131	0.013	2.35	18.4	10.15	174	26.29	1.12	27.41
AXSS0205	306791	7916954	193.5	0.15	209	15.1	378	112.5	2.06	0.02	84.7	0.03	110.5	1.535	69.8	0.122	0.003	0.003	2.94	0.011	0.034	0.016	44.1	21.3	2.91	574	107.30	12.38	119.68
AXSS0206	307166	7917306	285	0.37	99.7	36.3	234	21.2	16.3	0.03	37.6	0.09	1085	2.32	107.5	0.201	0.002	0.004	6.11	0.014	0.047	0.022	5.07	35.5	5.67	231	45.40	1.92	47.32
AXSS0207	307944	7917465	214	0.19	239	18.3	388	65.9	7.96	0.07	60.6	0.07	462	3.6	141.5	0.171	0.004	0.005	16.85	0.008	0.085	0.018	7.53	45.8	16.9	472	76.26	3.17	79.44
AXSS0208	307334	7916334	185	0.12	458	12.6	417	64	12.85	0.02	85.4	0.06	368	2.78	122	0.154	0.005	0.01	2.82	0.0025	0.253	0.012	6.56	37	73	779	87.74	2.86	90.60
AXSS0209	307420	7915550	384	0.24	395	25.3	351	79.5	12.1	0.03	107	0.11	484	6.57	108	0.193	0.005	0.008	8.56	0.005	0.216	0.016	12.9	42.2	39.3	772	114.41	4.77	119.19
AXSS0210	307998	7915492	374	0.34	275	88.8	1450	65	11.5	0.02	74.9	0.15	769	6.78	557	0.187	0.006	0.006	4.26	0.01	0.218	0.036	12.9	103	27	555	88.48	3.88	92.36
AXSS0211	311008	7916630	1175	0.57	148.5	15.35	128.5	509	5.24	0.04	39.7	0.19	368	5.53	86.3	0.432	0.002	0.005	8.5	0.019	0.048	0.075	8.11	1470	6.16	310	53.36	2.81	56.17
AXSS0212	310994	7916782	1365	0.63	284	53.6	245	501	8.16	0.12	87.1	0.2	1695	6.59	154.5	0.902	0.004	0.007	18.4	0.01	0.116	0.038	18.75	1250	13.05	626	114.49	6.06	120.55
AXSS0213	311656	7916668	304	0.42	249	40.9	321	100.5	7.62	0.21	75.2	0.36	445	4.18	121	0.271	0.01	0.007	36.5	0.009	0.191	0.027	17.4	302	15.05	548	99.73	5.47	105.20
AXSS0214	312622	7915719	336	0.13	252	20	394	49	3.29	0.16	102	0.12	375	1.58	115	0.118	0.002	0.005	25	0.007	0.077	0.01	25.4	36	23.9	647	138.95	8.27	147.23
AXSS0215	316648	7850426	139.5	0.04	107.5	7.11	33.6	25.6	2.03	0.21	48.2	0.11	140	1.575	9.82	0.046	0.0005	0.002	60.5	0.006	0.025	0.054	14.85	55.4	1.4	287	57.24	4.35	61.59
AXSS0216	316828	7850164	134.5	0.12	110	6.43	26.1	9.8	1.84	0.19	51.1	0.14	264	1.095	11.25	0.04	0.0005	0.002	51.7	0.006	0.034	0.013	15.3	34.2	3.13	290	54.10	4.21	58.31
AXSS0217	316873	7850408	141.5	0.13	98	6.7	21.8	11.65	2.19	0.2	39.3	0.12	280	1.45	7.49	0.045	0.0005	0.004	54.2	0.006	0.042	0.006	12.5	36.1	3.93	246	45.79	3.58	49.37
AXSS0218	317015	7851130	120.5	0.07	96.5	3.59	15.8	8.38	1.22	0.17	37.9	0.08	93.6	1.205	5.47	0.03	0.0005	0.004	42.4	0.007	0.014	0.009	9.54	31.8	2.57	234	44.01	2.87	46.88
AXSS0219	321104	7845854	166	0.18	102	5.67	65.7	20.5	2.49	0.15	34.1	0.1	186.5	1.89	13.65	0.05	0.0005	0.004	45.2	0.006	0.017	0.013	11.7	35.4	6.1	239	41.43	3.54	44.97
AXSS0220	321187	7845675	134	0.12	92.7	4.71	20.1	6.89	1.37	0.12	31.2	0.07	226	1.235	5.54	0.041	0.0005	0.004	36.5	0.007	0.016	0.008	10.05	24.8	2.27	212	34.66	2.80	37.45
AXSS0221	319758	7846841	174	0.14	122	7.41	18.6	6.79	2.45	0.26	52	0.19	348	1.69	8.79	0.032	0.0005	0.004	69.7	0.007	0.028	0.006	13.15	36.6	2.1	301	54.78	3.56	58.34
AXSS0222	319047	7847736	208	0.2	97.9	6.51	15.95	9.39	1.44	0.2	51	0.12	222	1.17	7.65	0.035	0.0005	0.004	50.6	0.007	0.029	0.005	18.3	35.3	2.58	280	54.83	4.60	59.44
AXSS0223	319138	7847565	151	0.11	109	6.67	32.5	7.62	2.28	0.24	48.1	0.17	221	1.595	15.8	0.04	0.0005	0.003	60.3	0.006	0.041	0.004	13.6	36	2.96	282	54.37	3.85	58.22
AXSS0224	318527	7847809	140	0.18	99.2	5.16	36.7	13.25	2.06	0.12	32.3	0.09	169.5	1.05	7.14	0.047	0.0005	0.005	28.8	0.006	0.027	0.033	16.15	35	4.45	249	46.94	4.64	51.58
AXSS0225	318364	7848246	164.5	0.17	118	7.8	30.8	9.54	2.66	0.29	50.3	0.21	322	1.325	13.25	0.053	0.0005	0.004	62.7	0.007	0.05	0.004	16.8	41.8	3.72	307	59.17	4.58	63.75
AXSS0226	318226	7848267	178	0.15	98.5	8.52	60.2	32.4	2.22	0.14	48.5	0.08	144	1.77	16.65	0.082	0.0005	0.004	39.3	0.007	0.021	0.106	32.9	75.6	2.64	346	82.33	9.50	91.83
AXSS0227	317630	7849382	130.5	0.09	105	5.41	29.2	9.98	1.78	0.19	45	0.12	182	1.325	11.2	0.037	0.0005	0.003	49.7	0.006	0.033	0.005	15.15	33.9	4.57	276	54.22	4.21	58.43
AXSS0228	317325	7849248	129	0.19	85.6	9.45	60	31.2	3.28	0.1	24.6	0.07	164	2.35	17.25	0.078	0.0005	0.004	29.3	0.008	0.018	0.232	14.2	44.2	4.44	214	41.37	4.06	45.43
AXSS0229	317678	7850624	175	0.16	113	7.1	20.3	10.75	2.02	0.2	44.3	0.12	322	1.24	7.41	0.045	0.0005	0.003	54.6	0.006	0.03	0.006	15.05	36.2	4.22	280	50.51	3.97	54.47
AXSS0230	317599	7845755	102.5	0.1	99.9	7.57	33.8	21.2	2.85	0.19	39.4	0.11	286	1.61	8.98	0.041	0.0005	0.004	49.3	0.006	0.032	0.04	13.6	40.4	4.62	267	57.90	4.26	62.16
AXSS0231	315488	7845973	126	0.09	149	4.9	22.9	17.1	1.44	0.27	66.4	0.15	105.5	1.82	8.27	0.032	0.0005	0.003	92.2	0.007	0.026	0.012	17.5	43	4.32	411	96.82	5.53	102.34
AXSS0232	317916	7845927	100	0.08	98.3	13.75	49.1	28.9	4.75	0.11	27.6	0.05	198.5	2.06	12.9	0.059	0.0005	0.004	28.6	0.009	0.029	0.084	12.95	51.4	2.36	236	45.21	4.25	49.46
AXSS0233	317114	7845852	120.5	0.09	103.5	8.47	33.3	17.9	3.29	0.21	36.3	0.11	394	1.655	9.32	0.042	0.0005	0.004	58.4	0.007	0.035	0.031	12.4	44.4	4.64	260	53.76	3.96	57.71
AXSS0234	316497	7844390	91.5	0.05	90.1	9.85	32.4	18.1	3.19	0.17	28.4	0.09	588	1.545	9.38	0.04	0.0005	0.004	42.6	0.009	0.023	0.052	11.25	35.1	4.71	219	43.04	3.51	46.56
AXSS0235	316794	7844116	157.5	0.06	92.5	11.85	33.3	20.7	3.25	0.23	34.7	0.13	441	1.765	10.85	0.066	0.0005	0.005	68.5	0.008	0.027	0.029	14.9	58.8	3.09	248	52.64	4.18	56.82
AXSS0236	318419	7850095	148	0.13	101	5.9	17.1	9.4	1.96	0.17	40.4	0.11	279	1.025	6.43	0.035	0.0005	0.005	48.1	0.0025	0.03	0.007	11.85	28.7	3.59	247	43.60	3.31	46.91
AXSS0237	318938	7849397	183.5	0.19	97.6	7.56	14.7	9.46	1.86	0.27	47.1	0.18	315	1.115	9.04	0.043	0.0005	0.001	68.3	0.0025	0.061	0.003	15.45	39.4	2.8	265	50.06	4.06	54.12
AXSS0238	321863	7844361	118.5	0.15	89.2	4.02	28.5	8.72	1.18	0.15	35.4	0.11	149	1.265	7.88	0.03	0.0005	0.004	37.2	0.008	0.032	0.006	15.15	29.2	3.16	235	44.96	4.29	49.24
AXSS0239	318766	7846078	133.5	0.17	100	3.94	24.6	10.65	1.48	0.09	34	0.07	76.8	1.285	8.08	0.047	0.0005	0.004	25.9	0.007	0.02	0.033	13.9	37.1	2.57	247	46.83	4.03	50.86
AXSS0240	317892	7844923	104	0.09	104.5	8.4	32.3	20	2.78	0.19	41.3	0.11	347	1.63	8.65	0.041	0.0005	0.004	47.1	0.008	0.03	0.055	13.9	39.2	4.52	279	60.98	4.39	65.37
AXSS0241	318373	7844216	109	0.1	103.5	7.77	35.5	22.4	3.02	0.2	39.1	0.11	266	1.64	9.23	0.043	0.0005	0.003	49.9	0.006	0.029	0.041	14.3	40.4	4.89	273	58.78	4.37	63.16
AXSS0242	318786	7844609	169	0.16	97.9	14.3	32.6	14.25	3.37	0.17	35.3	0.1	949	1.995	10.95	0.062	0.0005	0.004	44.2	0.007	0.033	0.014	13.6	47.3	2.19	241	43.68	3.96	47.64
AXSS0243	318826	7844406	97.3	0.06	94.4	16	35.2	30.7	4.24	0.15	40.8	0.07	591	1.465	12.4	0.035	0.0005	0.005	36.6	0.008	0.019	0.026	21.9	45.5	3.68	281	60.27	6.19	66.46
AXSS0244	320087	7844162	154.5	0.16	88.7	5.65	14.65	6.95	1.77	0.12	33.8	0.08	250	1.745	5.39	0.054	0.0005	0.004	36	0.007	0.037	0.008	10.15	29	1.94	209	34.91	2.67	37.58
AXSS0245	320313	7844008	200	0.17	101	5.91	13.35	7.36	1.82	0.13	34.9	0.08	333	1.56	4.83	0.06	0.0005	0.004	44.8	0.007	0.019	0.005	10.7	29.4	2.4	230	37.68	2.82	40.50
AXSS0246	320087	7843675	166.5	0.09	120.5	8.37	36.5	17	3.58	0.12	38.4	0.07	175.5	1.645	10.65	0.081	0.0005	0.004	34	0.007	0.022	0.018	17.35	38.2	3.02	293	54.21	4.89	59.11

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0247	315769	7847351	71	0.05	198.5	3.18	35.2	18.05	1.7	0.14	35.7	0.06	81.9	1.27	7.69	0.047	0.0005	0.004	43	0.007	0.014	0.046	11.55	25.9	2.7	376	56.53	3.48	60.01
AXSS0248	320586	7841864	73.9	0.03	113	6.04	26.3	17.25	1.97	0.23	49.3	0.12	124.5	1.3	7.81	0.025	0.0005	0.004	61	0.006	0.035	0.021	14.45	38.2	3.06	313	72.42	4.66	77.09
AXSS0249	317964	7843800	122	0.11	106.5	8.76	36.1	23	2.97	0.22	41.6	0.12	266	1.905	10.15	0.046	0.0005	0.003	57.2	0.007	0.033	0.04	17.05	46.5	4.73	287	61.09	4.84	65.93
AXSS0250	318590	7843539	119	0.1	64.8	7.37	24.3	13.15	1.93	0.1	25.6	0.06	180.5	1.275	8.16	0.051	0.0005	0.003	30.7	0.007	0.045	0.016	11.75	37.7	1.77	176	34.96	3.50	38.46
AXSS0251	318983	7843128	103.5	0.07	117	6.37	40.9	21.7	2.07	0.17	45	0.08	121	1.61	8.68	0.03	0.0005	0.005	50.3	0.007	0.028	0.027	12.3	41	2.87	300	65.09	4.37	69.46
AXSS0252	318674	7842549	109.5	0.06	98.7	7.17	29.3	19.25	2.56	0.24	38.9	0.14	196	1.33	8.93	0.039	0.0005	0.004	64.4	0.007	0.032	0.024	15.85	44.3	4.19	272	61.02	4.76	65.78
AXSS0253	318834	7842473	94	0.09	101.5	7.6	33	20.1	2.85	0.18	37.6	0.1	267	1.515	8.92	0.04	0.0005	0.003	44.9	0.008	0.028	0.062	12.45	36.1	4.85	263	57.62	3.99	61.61
AXSS0254	318947	7840514	80.5	0.08	94.5	6.17	29.6	18.75	2.6	0.16	36.4	0.08	298	1.3	7.3	0.036	0.0005	0.003	38.7	0.008	0.027	0.056	10.75	31.4	4.82	246	54.51	3.57	58.08
AXSS0255	317448	7838658	123.5	0.07	102	7.14	29	11.65	3.77	0.11	39.6	0.04	373	1.39	5.27	0.042	0.0005	0.003	36.4	0.008	0.008	0.053	9.22	27.9	10.55	245	45.61	2.81	48.42
AXSS0256	318601	7839080	76.1	0.08	91.4	10.65	30.8	25.4	3.45	0.14	35.9	0.06	373	1.365	7.46	0.037	0.0005	0.004	34.5	0.008	0.013	0.069	11.8	32.6	4.7	244	54.07	3.75	57.82
AXSS0257	316893	7843734	130.5	0.12	91.8	7.29	31.2	18.4	1.95	0.24	33.7	0.16	238	1.48	8.74	0.042	0.0005	0.003	71.1	0.007	0.028	0.046	12.25	49.4	2.04	238	50.94	3.62	54.57
AXSS0258	316913	7843022	120	0.1	106	11.2	36.3	21.3	2.57	0.26	40.9	0.16	311	2.05	12.25	0.045	0.0005	0.004	81.8	0.008	0.039	0.042	12.25	66.1	2.85	276	60.92	3.96	64.87
AXSS0259	317106	7842996	141	0.09	93.1	6.7	25.6	21.8	2.65	0.27	33.3	0.17	197.5	1.365	8.73	0.053	0.0005	0.004	72.3	0.008	0.031	0.023	14.05	50.2	3.51	245	51.80	4.23	56.03
AXSS0260	316232	7841196	95.3	0.09	71.9	5.8	57.7	26.7	2.88	0.11	34.1	0.05	113.5	1.555	13.7	0.065	0.0005	0.006	35.6	0.008	0.032	0.199	23.4	46.8	4.5	252	60.89	7.19	68.08
AXSS0261	315042	7850989	109	0.09	100.5	8.44	22.1	11.55	2.46	0.17	44	0.1	345	1.115	7.43	0.036	0.001	0.003	46	0.007	0.024	0.011	13.35	31.7	3.31	268	55.18	4.01	59.19
AXSS0262	315687	7850510	141	0.06	137	5.89	31.8	18.25	1.78	0.2	54.7	0.1	86.4	1.55	11.25	0.046	0.0005	0.004	61.1	0.007	0.017	0.014	18.95	39.2	3	350	67.50	5.14	72.65
AXSS0263	315257	7849628	92.5	0.08	107.5	8.14	32.4	17.9	3.07	0.19	42.2	0.11	333	1.33	8.74	0.038	0.0005	0.003	51.2	0.007	0.028	0.041	12.6	39.6	4.49	283	63.43	4.07	67.50
AXSS0264	316778	7847228	85.2	0.08	102	7.7	30.4	18.5	2.73	0.2	40.2	0.12	264	1.56	8.43	0.037	0.0005	0.005	52.5	0.008	0.036	0.052	12.05	38	4.37	267	58.04	3.89	61.93
AXSS0265	316039	7845787	164	0.23	131	16.5	39.6	24.2	5.65	0.3	59.7	0.22	381	1.975	12.75	0.081	0.0005	0.005	87.2	0.008	0.089	0.016	22.3	66.9	4.52	380	88.21	6.32	94.52
AXSS0266	315924	7845726	143.5	0.2	125	10.75	37	25.5	2.88	0.21	49.3	0.12	293	1.59	10.85	0.061	0.001	0.004	76.4	0.006	0.028	0.03	14.5	48.1	3.24	332	76.23	4.82	81.05
AXSS0267	316150	7846557	132.5	0.12	105	6.07	29.7	19.05	2.25	0.22	41.2	0.13	121.5	2.47	8.78	0.046	0.002	0.004	75.9	0.007	0.039	0.028	9.81	43.8	2.73	264	55.89	3.39	59.28
AXSS0268	315908	7846524	143.5	0.09	90.8	6.06	28.8	23.1	2.17	0.21	32.6	0.09	121.5	1.635	8.79	0.047	0.0005	0.004	75	0.007	0.01	0.038	11.45	35.9	2.66	231	48.36	3.33	51.69
AXSS0269	316578	7840559	127	0.08	73.4	9.55	38.5	32	3.49	0.3	39.5	0.16	306	1.77	13	0.037	0.0005	0.005	152	0.007	0.062	0.475	13.4	45.4	7.34	214	41.77	3.98	45.75
AXSS0270	317505	7841311	138.5	0.09	98.4	2.97	21.2	14.2	1.17	0.15	40.5	0.06	102	0.838	4.52	0.04	0.0005	0.004	41.6	0.007	0.01	0.03	19	25.1	1.62	284	64.77	5.42	70.19
AXSS0271	317731	7842163	108	0.08	95.6	5.55	25.7	17.75	2.56	0.21	36.3	0.12	210	1.04	6.93	0.04	0.001	0.004	60	0.008	0.021	0.019	14.5	35.6	4.19	257	55.80	4.38	60.18
AXSS0272	287757	7801491	83.3	0.12	90.3	4.6	84.9	41.3	8.29	0.11	21.4	0.04	174.5	4.4	12.85	0.141	0.0005	0.005	23	0.014	0.064	0.102	12.45	50.9	17.1	199	31.14	3.20	34.34
AXSS0273	287705	7801647	60	0.01	81	4.44	38.3	31.6	4.04	0.11	24.9	0.02	61.2	1.49	15.15	0.035	0.0005	0.005	22.2	0.008	0.022	0.039	16.35	29.5	7.45	211	39.60	4.39	43.99
AXSS0274	287910	7801513	55.3	0.03	99.9	5.73	71.3	41.5	6.09	0.09	43.2	0.03	98.3	3.03	13.45	0.062	0.0005	0.004	23.6	0.012	0.049	0.07	33.3	40.2	14.45	319	67.30	7.80	75.10
AXSS0275	288432	7803020	59.2	0.03	81.8	9.13	36.9	31	5.29	0.11	22.6	0.03	146.5	1.95	12.9	0.045	0.0005	0.005	19.75	0.009	0.028	0.065	10.8	31.5	5.14	190	33.15	3.26	36.41
AXSS0276	287611	7802773	56.8	0.02	80.5	8.2	39.7	30.5	5.2	0.1	21.1	0.03	131	2.12	13.05	0.05	0.0005	0.005	20.3	0.009	0.027	0.076	10.65	33.1	5.94	184	31.26	3.20	34.46
AXSS0277	287469	7802359	41.9	0.07	59.9	3.45	74.6	20.8	6.56	0.05	20.9	0.02	130	2.27	9.91	0.077	0.0005	0.005	7.57	0.009	0.042	0.076	8.38	27.7	16.3	149	28.26	2.31	30.57
AXSS0278	287602	7802349	60.3	0.04	76.5	5.26	62	33.8	6.41	0.09	21.4	0.03	140	3.09	12.6	0.094	0.001	0.004	19.7	0.013	0.051	0.09	12	40.1	10.7	182	31.62	3.18	34.80
AXSS0279	288962	7802524	67.2	0.03	101	12.6	41	35.9	4.69	0.15	60.6	0.08	193.5	2.8	16.8	0.054	0.004	0.005	36.5	0.01	0.038	0.121	42.8	56.1	3.97	382	87.68	9.74	97.42
AXSS0280	289320	7802551	74.3	0.01	89.3	5.2	32.9	29.9	2.56	0.13	24.7	0.05	50.4	2.07	15.6	0.041	0.0005	0.005	25.6	0.009	0.022	0.102	14.05	37.5	0.85	212	36.23	4.00	40.22
AXSS0281	289289	7802433	56.1	0.04	92.4	9.99	45.3	32.5	5.59	0.11	21.6	0.04	146	2.84	11.3	0.057	0.0005	0.006	20.7	0.011	0.032	0.106	11	31.1	5.56	199	30.85	3.24	34.09
AXSS0282	289938	7802231	98.2	0.02	90.3	6.51	31.8	33.5	3.34	0.12	34.6	0.03	98.4	2.38	14.35	0.042	0.0005	0.005	24	0.009	0.018	0.124	32	44.9	1.6	272	49.30	7.43	56.73
AXSS0283	289555	7802194	82.7	0.03	100	12.4	36.6	35.8	4.87	0.16	27.3	0.06	221	2.76	17.45	0.049	0.0005	0.005	29.7	0.009	0.023	0.097	24	47.9	4.41	250	39.51	5.93	45.44
AXSS0284	290069	7801972	64.5	0.03	105.5	3.82	57.2	31.5	5.76	0.14	13.75	0.03	100.5	3.45	10.45	0.045	0.0005	0.005	32.4	0.008	0.025	0.186	7.16	25.6	19.05	186	20.56	2.11	22.66
AXSS0285	290375	7802157	105	0.02	63.3	9.4	26.6	27.9	2.4	0.1	20.6	0.04	119	1.785	18.05	0.034	0.0005	0.005	30.1	0.007	0.015	0.087	17	56.5	0.59	169	28.07	4.23	32.30
AXSS0286	290345	7802007	93.6	0.04	93.7	8.42	38	34.2	4.11	0.15	25.4	0.05	119	2.74	17.45	0.048	0.0005	0.004	33.1	0.008	0.014	0.186	18.05	43.8	2.35	226	36.95	4.68	41.62
AXSS0287	291228	7802901	119.5	0.08	81.1	15.9	33.6	36.2	5.25	0.11	32.9	0.07	424	2.59	26.3	0.054	0.0005	0.004	21.2	0.01	0.017	0.177	32.5	62.1	1.74	255	45.76	6.90	52.66
AXSS0288	290897	7800562	59.7	0.02	94.4	4.56	23.1	17.4	1.4	0.08	26.5	0.01	52.3	1.175	10.1	0.021	0.0005	0.004	13.9	0.008	0.005	0.182	3.73	19.6	1.4	205	39.81	1.97	41.78
AXSS0289	290942	7800639	112	0.04	112	14.6	26.2	32.6	4.48	0.14	31.1	0.05	246	1.87	20.5	0.048	0.0005	0.005	25.5	0.0025	0.009	0.218	11.75	50.8	3.11	253	45.21	3.49	48.70
AXSS0290	290987	7800111	140	0.07	114	9.91	44.2	34.3	4.04	0.13	38.6	0.04	189.5	3.34	30	0.053	0.0005	0.004	21.3	0.0025	0.018	0.299	7.88	54.3	6.34	271	56.89	2.94	59.83
AXSS0291	315645	7849062	130.5	0.07	77.1	6.32	28	19.95	2	0.16	31.1	0.08	96.6	1.62	8.15	0.061	0.001	0.004	51.5	0.0025	0.016	0.067	8.88	46.8	0.68	198	40.07	3.03	43.09
AXSS0292	315423	7848717	111	0.08	89.9	11.7	26.5	16.1	3.27	0.23	44.1	0.13	651	1.405	8.23	0.064	0.0005	0.004	60.6	0.0025	0.023	0.091	12.7	50.1	0.86	259	59.62	3.91	63.53
AXSS0293	316015	7848758	148	0.07	106.5	6.42	25.3	22.6	2.03	0.17	47	0.08	83.2	1.04	7.27	0.076	0.0005	0.004	54.6	0.0025	0.012	0.064	22.8	39.4	0.47	309	65.13	6.06	71.19

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0294	315907	7847519	81.9	0.08	95	7.29	26.6	16	2.7	0.22	40.6	0.13	258	1.33	7.62	0.035	0.0005	0.003	57.9	0.0025	0.036	0.052	12.5	37.4	2.99	257	56.05	3.81	59.86
AXSS0295	316902	7847324	112.5	0.09	87.6	12.4	41.2	22	2.93	0.2	32.9	0.13	158	1.6	14.1	0.042	0.0005	0.003	51.4	0.0025	0.038	0.068	9.82	56	1.81	224	46.89	3.47	50.36
AXSS0296	317072	7846762	88.3	0.06	88.2	18.45	65.2	35.7	4.34	0.13	33.2	0.08	343	1.565	25.9	0.05	0.0005	0.005	35.6	0.0025	0.038	0.12	17.15	66.2	4.01	244	50.22	5.25	55.47
AXSS0297	316522	7844776	90.9	0.06	110.5	6.66	25.4	14.65	2.33	0.18	48.1	0.1	263	1.185	7.31	0.038	0.0005	0.003	46.2	0.0025	0.029	0.04	12.3	34.9	2.44	300	68.43	4.23	72.66
AXSS0298	316733	7845302	143.5	0.13	91	6.81	39.3	18.85	2.96	0.16	32.4	0.09	264	1.755	10.75	0.055	0.0005	0.004	55.9	0.0025	0.025	0.063	9	41.4	4.47	224	46.04	2.94	48.98
AXSS0299	276144	7802312	78.6	0.03	81	5.24	38.1	20.6	3.12	0.11	21	0.02	120	2.03	9.61	0.045	0.001	0.004	28.5	0.0025	0.021	0.151	5.47	30.1	5.94	179	34.44	2.23	36.67
AXSS0300	278502	7801223	95.7	0.09	62.7	6.56	26.7	34.7	3.99	0.11	33.6	0.04	117	2.21	13.8	0.15	0.001	0.004	15.7	0.0025	0.013	0.139	7.43	63.9	1.99	184	43.43	2.55	45.99
AXSS0301	278731	7801275	90	0.14	69.3	3.23	29.1	33.2	5.22	0.13	23.6	0.04	145	2.16	8.44	0.129	0.001	0.006	20.4	0.0025	0.012	0.114	3.43	38	3.11	158	31.15	1.59	32.74
AXSS0302	276152	7800697	110.5	0.05	89	14.7	45.5	41	5.93	0.14	26.4	0.04	257	2.18	20.9	0.063	0.003	0.005	29.1	0.0025	0.017	0.227	7.71	55.7	3.1	204	38.77	2.71	41.48
AXSS0303	278696	7800178	74.8	0.03	70.7	3.64	48.5	24	4.64	0.13	20.3	0.03	83.3	2.85	9.75	0.062	0.0005	0.004	28.6	0.0025	0.022	0.197	6	32.1	8	158	29.15	1.92	31.07
AXSS0304	278698	7800251	113.5	0.08	64.8	24.2	35.2	20.8	9.97	0.12	18.6	0.03	1145	2.26	13.05	0.091	0.0005	0.005	19.6	0.0025	0.016	0.223	6.71	39.6	3.7	149	27.76	1.96	29.72
AXSS0305	279420	7800819	105.5	0.11	62.7	5.84	35.3	29.6	2.55	0.12	19.95	0.05	114	2.36	12.5	0.104	0.0005	0.003	22.2	0.0025	0.018	0.165	7.61	38.7	2.79	150	28.05	2.19	30.25
AXSS0306	277618	7799291	84.9	0.05	94.1	8.08	65.6	31.7	6.38	0.1	16.65	0.03	212	3.49	13.65	0.079	0.001	0.005	19.45	0.007	0.039	0.152	3.94	40.1	15.45	172	23.62	1.48	25.10
AXSS0307	278225	7798481	131.5	0.03	91.3	13.65	41.7	41.1	7.02	0.16	31.5	0.03	306	1.835	17.8	0.099	0.001	0.006	27.3	0.0025	0.01	0.175	4.85	38.8	4.22	213	43.13	2.42	45.55
AXSS0308	276381	7802854	109	0.11	67.2	20.1	16.95	29.2	4.98	0.09	25.9	0.02	645	0.866	27.8	0.05	0.002	0.006	13.95	0.0025	0.008	0.12	7.85	70	1.53	171	34.57	2.42	36.99
AXSS0309	277312	7803003	107	0.05	67.9	11.6	24.7	32.9	4.61	0.12	31.5	0.03	314	1.395	20.1	0.069	0.001	0.005	16.15	0.0025	0.009	0.146	4.76	46.7	1.64	181	41.66	2.13	43.79
AXSS0310	277481	7802334	170	0.17	63	40.5	22.9	27.5	5.92	0.11	23.9	0.03	1660	1.775	46.1	0.097	0.0005	0.005	18.7	0.0025	0.008	0.183	9.44	120.5	1.62	165	34.23	2.56	36.79
AXSS0311	330437	7781751	80.8	0.03	84.5	6.19	39.3	29.8	5.68	0.13	34.8	0.03	206	1.17	17.55	0.055	0.002	0.004	20.1	0.0025	0.013	0.118	4.4	37	4.03	214	48.20	2.27	50.47
AXSS0312	329553	7783242	59	0.05	83.3	9.47	56.7	32.2	5.28	0.11	31	0.08	265	1.535	19.95	0.053	0.003	0.005	17.95	0.0025	0.029	0.11	7.82	48.5	4.77	207	42.97	2.63	45.60
AXSS0313	329621	7783132	45.7	0.06	41	6.4	47.4	20.7	3.61	0.07	17.6	0.09	274	1.52	11.8	0.06	0.0005	0.004	12.3	0.0025	0.027	0.162	4.73	32.4	2.54	111	24.42	1.61	26.03
AXSS0314	329428	7783167	53.4	0.05	59.4	4.44	56.1	25.9	4.75	0.09	12	0.03	166.5	2.99	13.65	0.097	0.001	0.005	13.4	0.0025	0.042	0.21	3.52	31.2	4.18	116	17.40	1.25	18.65
AXSS0315	329930	7782975	41.4	0.06	39.7	2.3	72.8	20.5	5.33	0.07	14.25	0.02	70.8	2.96	9.12	0.106	0.001	0.004	13.8	0.0025	0.039	0.174	3.75	21.3	10.55	98	20.33	1.33	21.66
AXSS0316	331208	7783221	50.6	0.03	51.7	2.25	119	32.1	7.89	0.07	5.08	0.03	186.5	4.91	9.33	0.064	0.001	0.005	11.9	0.01	0.08	0.153	1.975	25.1	29.2	84	8.02	0.74	8.77
AXSS0317	330192	7783011	56.1	0.12	73.9	10.6	61.1	26	11.55	0.06	34.7	0.03	415	1.71	14.95	0.121	0.005	0.004	7.05	0.0025	0.024	0.215	9.83	60.4	6.59	209	47.71	3.07	50.79
AXSS0318	330353	7782806	68.1	0.06	61.8	2.78	105.5	31.7	6.17	0.09	15.3	0.04	141	5.35	12.9	0.093	0.002	0.004	14.1	0.008	0.055	0.273	5.4	33.7	16.9	130	20.92	1.57	22.49
AXSS0319	330804	7783355	29.2	0.03	42.6	0.936	122.5	21.1	9.23	0.02	11.45	0.01	79.5	2.82	6.06	0.098	0.004	0.005	1.945	0.006	0.06	0.106	2.5	31.4	36	89	14.97	0.85	15.82
AXSS0320	331093	7783268	34.5	0.08	47.1	1.785	113	27	11.5	0.02	16.85	0.02	135.5	3.07	7.52	0.125	0.003	0.005	1.62	0.009	0.064	0.125	4	42.2	38.9	112	21.57	1.32	22.89
AXSS0321	332222	7784015	27.1	0.04	57	1.76	45.5	19.1	2.82	0.04	31.1	0.02	55.5	0.939	9.19	0.045	0.0005	0.004	6.49	0.0025	0.023	0.116	6.2	31.2	2.29	167	39.46	2.19	41.65
AXSS0322	334505	7783319	64.5	0.06	66.4	11.55	42.4	23.8	9.77	0.1	17.6	0.03	403	1.62	16.1	0.07	0.002	0.004	14	0.0025	0.009	0.212	3.68	38.1	3.9	138	22.37	1.51	23.88
AXSS0323	334413	7783143	47.8	0.02	85.1	6.39	31	28.2	4.07	0.1	22.2	0.07	207	1.145	13.25	0.035	0.0005	0.003	13.9	0.0025	0.024	0.122	4.2	40.6	3.87	175	29.13	1.64	30.77
AXSS0324	334541	7784296	76	0.02	60.2	3.95	40.5	23.2	1.89	0.08	19.75	0.02	62.1	1.715	22.3	0.026	0.0005	0.004	19.65	0.0025	0.022	0.107	8.94	58.4	3.48	153	30.34	2.72	33.06
AXSS0325	331558	7787322	71.9	0.06	90.6	5.69	29.8	26.9	3.87	0.09	34.2	0.04	135.5	0.943	13.7	0.047	0.0005	0.007	12	0.0025	0.011	0.064	13.7	34.3	2.36	238	48.56	3.94	52.50
AXSS0326	335232	7783360	72.1	0.02	119.5	7.61	45.4	31.5	6.22	0.11	21.5	0.03	180	2.43	19.15	0.052	0.0005	0.012	22.3	0.0025	0.018	0.118	5.89	43.9	6.25	219	28.07	2.05	30.12
AXSS0327	333915	7784866	89.9	0.08	96.4	7.89	72.9	33.1	5.67	0.12	25.1	0.07	130	3.76	24.3	0.075	0.0005	0.008	23.4	0.0025	0.036	0.113	11.05	43.4	9.24	215	36.71	3.05	39.76
AXSS0328	331950	7782772	82.5	0.08	95.2	13.9	60.2	36.1	6.22	0.18	16.85	0.14	484	2.79	22.6	0.087	0.003	0.01	27.3	0.0025	0.028	0.168	5.85	60.5	5.91	177	23.37	1.69	25.06
AXSS0329	334270	7785461	62.5	0.09	71.7	5.63	70.2	29.3	6.41	0.09	17.85	0.05	157	2.8	13.95	0.073	0.002	0.01	15.35	0.0025	0.035	0.146	5.82	40.3	9.88	152	25.21	1.91	27.12
AXSS0330	333419	7784349	56.7	0.05	64	4.56	99.9	32.8	9.62	0.08	14.6	0.03	146	3.71	13.5	0.093	0.002	0.008	15.9	0.011	0.051	0.163	2.87	38.3	26.1	126	19.65	1.25	20.90
AXSS0331	335274	7785106	59	0.04	65.4	12.05	31	42.8	6.49	0.09	19.15	0.04	245	0.779	17.55	0.072	0.0005	0.01	14.25	0.0025	0.015	0.05	20.7	39.5	3.77	182	31.20	5.10	36.30
AXSS0332	334475	7786309	67.2	0.04	72.1	5.8	71.1	40.5	6.35	0.08	15.7	0.03	144.5	2.39	14.55	0.091	0.001	0.011	13.35	0.0025	0.035	0.171	6.32	48.1	9.44	147	22.12	1.93	24.04
AXSS0333	334415	7786431	59.8	0.05	67.6	6.7	43.7	39.1	5.1	0.09	15.4	0.08	176	1.325	11.35	0.069	0.0005	0.007	11.75	0.0025	0.031	0.092	7.83	36.2	5.25	145	22.39	2.30	24.69
AXSS0334	329798	7789357	40.8	0.05	53.8	4.29	124.5	29.1	10.4	0.04	9.41	0.02	143	1.42	12.5	0.055	0.001	0.009	6.24	0.007	0.046	0.082	3.29	27.7	22.9	99	11.98	1.05	13.03
AXSS0335	329460	7789158	53.1	0.05	69.8	3.89	87.6	29.8	10.4	0.04	13.1	0.01	260	2.66	11.35	0.091	0.002	0.008	5.09	0.012	0.068	0.117	3.18	37.7	24.3	128	16.69	1.13	17.83
AXSS0336	329461	7789745	58.1	0.05	60.6	4.76	64.1	23	6.32	0.1	16.8	0.03	159	1.44	12.5	0.057	0.001	0.007	10.4	0.0025	0.023	0.133	3.75	23.4	8.76	127	20.57	1.34	21.91
AXSS0337	333209	7786537	88.2	0.08	69.9	8.18	33.7	45.3	4.37	0.11	17.35	0.1	275	1.29	12.8	0.093	0.001	0.009	14	0.0025	0.02	0.099	8.8	46.4	2.18	156	25.72	2.59	28.31
AXSS0338	332690	7786770	72.7	0.03	63.5	5.02	27.5	24.8	3.23	0.09	22.7	0.09	132	0.948	11.3	0.042	0.001	0.006	13.3	0.0025	0.013	0.069	8.73	27.4	1.22	162	32.02	2.71	34.73
AXSS0339	331555	7788981	101	0.03	94.5	14.25	24.1	33.9	4.37	0.15	40.9	0.14	759	0.249	31.3	0.027	0.0005	0.005	33	0.009	0.036	0.015	52.2	79.7	8.68	360	78.63	11.06	89.70
AXSS0340	330626	7789433	107.5	0.03	93.3	9.77	40.8	36.5	3.34	0.04	39.9	0.01	361	0.633	31.5	0.044	0.0005	0.006	6.95	0.0025	0.017	0.046	33.9	69.1	1.66	300	61.92	7.41	69.33

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0341	330667	7789199	144	0.13	166	8.91	27.6	36.3	6.37	0.12	32.2	0.04	526	1.14	14.55	0.081	0.0005	0.008	17.1	0.0025	0.007	0.122	18	35.3	0.59	333	45.01	5.13	50.15
AXSS0342	324711	7797951	87.2	0.01	48.2	0.833	39.1	16.4	4.94	0.07	23	0.01	27.4	1.925	4.05	0.05	0.002	0.007	11.4	0.0025	0.012	0.07	4.18	9.3	5.05	132	28.34	2.24	30.58
AXSS0343	325103	7797339	22.2	0.02	32	1.89	62.1	13.5	5.22	0.02	10.4	0.01	123.5	1.75	3.96	0.049	0.003	0.007	2.11	0.005	0.054	0.067	2.11	15.8	19.35	71	11.95	0.80	12.75
AXSS0344	324982	7797211	72.7	0.02	39.3	1.625	35.9	19.05	3.25	0.08	17.4	0.01	33.8	1.545	8.69	0.052	0.001	0.007	12.7	0.0025	0.01	0.107	4.81	15.2	2.58	104	20.71	1.58	22.29
AXSS0345	325940	7796440	60.4	0.03	49.5	2.89	52	24.6	4.97	0.09	19.7	0.04	66.1	1.79	10.95	0.064	0.001	0.006	13.95	0.0025	0.024	0.083	6.65	26.9	5.5	128	25.31	2.07	27.38
AXSS0346	325824	7796379	43.2	0.03	38.3	3.18	43.3	17.5	4.44	0.06	14.15	0.02	118.5	1.65	9.62	0.046	0.0005	0.006	8.5	0.0025	0.036	0.064	4.7	21.6	7.49	95	17.41	1.46	18.87
AXSS0347	325924	7797445	45.8	0.03	33.1	2.27	60.1	22	8.58	0.06	12.95	0.02	84.5	2.13	10.9	0.098	0.003	0.007	8.79	0.006	0.029	0.099	2.65	26.4	11	82	16.58	1.21	17.80
AXSS0348	325540	7798071	40.7	0.02	38.6	1.985	40.3	20.6	4.05	0.06	17.55	0.01	32.5	1.32	11.1	0.048	0.004	0.006	9.37	0.0025	0.016	0.054	3.64	17	3.8	102	21.02	1.57	22.59
AXSS0349	325685	7796074	36.9	0.01	60.3	3.69	72.1	27.8	7.3	0.03	13.2	0.01	185.5	1.815	11.1	0.063	0.002	0.006	4.94	0.005	0.046	0.102	4.33	25.7	12.05	119	17.14	1.37	18.51
AXSS0350	330197	7789148	44.7	0.06	71.5	2.65	113	32.6	10.1	0.06	10.95	0.02	104.5	2.95	10.55	0.101	0.002	0.009	9.5	0.017	0.059	0.119	2.59	29.5	32.9	123	13.74	0.90	14.64
AXSS0351	325549	7790865	59	0.05	97.9	22.6	20.1	26.5	9.05	0.06	16.8	0.01	1495	0.991	16.4	0.048	0.003	0.007	7.93	0.006	0.008	0.119	6.59	31.2	2.77	182	23.37	2.19	25.56
AXSS0352	325400	7790829	182	0.07	125	9.72	44	37.9	6.45	0.11	45	0.03	228	8.84	18.9	0.116	0.0005	0.008	19.25	0.01	0.014	0.338	41.2	53	5.62	362	66.62	7.87	74.49
AXSS0353	337772	7792227	75.6	0.04	108	7.5	50.6	32.5	7.51	0.08	22.8	0.03	195	1.75	16.95	0.054	0.001	0.009	11.65	0.007	0.029	0.179	7.67	42	9.05	210	28.84	2.20	31.05
AXSS0354	338638	7790512	78.8	0.05	113.5	12.55	37.7	34	5.16	0.11	30.9	0.06	521	1.165	18.95	0.041	0.0005	0.005	13.9	0.0025	0.02	0.109	8.6	57.3	4.06	243	41.29	2.71	44.00
AXSS0355	338202	7791176	46.9	0.03	78	4.59	23.2	20.9	3.46	0.09	26.2	0.04	181.5	0.669	11.65	0.023	0.003	0.005	9.55	0.0025	0.012	0.066	4.2	44	4.46	176	33.63	1.71	35.33
AXSS0356	338178	7791163	83.6	0.04	109	13.1	40.3	31.1	4.95	0.08	22.1	0.04	547	1.38	19	0.039	0.001	0.006	12.55	0.0025	0.025	0.106	7.85	43	4.21	211	28.89	2.31	31.20
AXSS0357	338229	7790968	53.1	0.05	92	3.69	43.9	21.9	2.92	0.11	16.65	0.04	47.8	1.78	13	0.044	0.0005	0.007	15.8	0.0025	0.015	0.142	4.93	37.8	2.59	168	21.14	1.53	22.67
AXSS0358	338010	7791521	83.4	0.03	88.2	20.9	33.5	36.9	6.43	0.12	14.5	0.04	654	1.65	16.9	0.067	0.0005	0.006	15.6	0.006	0.027	0.115	8.17	49.1	4.14	168	20.82	2.44	23.26
AXSS0359	336800	7791822	45.1	0.03	113.5	3.52	64.8	25.7	6.44	0.07	16.65	0.02	87.4	2.33	12.55	0.052	0.0005	0.005	10.95	0.007	0.028	0.124	5.7	26.8	10.2	200	23.82	1.76	25.58
AXSS0360	336740	7792167	181.5	0.02	202	12.6	56.2	33.9	6.56	0.06	15.05	0.02	353	1.395	24.3	0.043	0.0005	0.007	6.72	0.008	0.032	0.091	5.12	35.8	10.3	303	21.48	1.68	23.16
AXSS0361	337268	7792632	43.7	0.09	63.5	1.915	38.2	21	7.93	0.04	32.1	0.02	130	0.968	7.81	0.05	0.001	0.001	4.55	0.007	0.022	0.157	9.26	21.6	6.84	182	40.47	2.59	43.06
AXSS0362	337434	7790862	48.2	0.01	75.5	2.49	32.8	16.25	2.33	0.07	10.65	0.01	29.6	1.4	7.66	0.022	0.001	0.001	9.28	0.0025	0.018	0.068	2.69	21.4	4.04	128	13.83	1.01	14.84
AXSS0363	333236	7792223	14.4	0.02	34.2	2.5	17.7	34.7	1.73	0.02	17.75	0.01	22.9	0.15	7.75	0.013	0.0005	0.001	1.655	0.0025	0.01	0.015	18.75	18	7.65	133	28.35	3.93	32.29
AXSS0364	333465	7792682	63.2	0.03	76	7.77	43.6	20.7	8.46	0.11	13.85	0.08	112.5	1.715	17.3	0.044	0.002	0.001	18.9	0.0025	0.021	0.087	11.05	39.6	5.44	157	21.04	2.58	23.62
AXSS0365	333394	7792486	69	0.04	58.6	10.75	36.5	34.4	5.29	0.04	13.75	0.03	449	1.05	26.6	0.029	0.0005	0.001	5.34	0.007	0.034	0.067	6.7	129	8.08	126	19.89	2.03	21.92
AXSS0366	335483	7793929	39.4	0.01	85.2	1.57	53.2	25.4	3.42	0.06	23.3	0.01	32.3	0.61	9.35	0.027	0.0005	0.001	8.42	0.0025	0.025	0.057	9.01	15.1	4.41	197	37.17	2.91	40.09
AXSS0367	335346	7793940	85	0.07	114.5	12.05	43.5	32.7	5.09	0.09	37.9	0.05	136	1.385	29.4	0.036	0.0005	0.001	18.5	0.0025	0.033	0.08	17.8	69.9	1.78	291	58.77	4.71	63.48
AXSS0368	335269	7793490	93.4	0.03	114.5	17.95	33.9	36.7	4.98	0.08	47.9	0.08	218	0.758	39.2	0.029	0.0005	0.001	12.1	0.009	0.039	0.052	39.9	72.1	10.65	361	74.77	8.17	82.94
AXSS0369	335381	7793489	37.9	0.03	45	3.33	71.9	30.3	8.66	0.06	10.9	0.02	62.8	0.946	13.6	0.031	0.001	0.001	8.27	0.0025	0.043	0.047	3.46	24.8	15.95	92	13.80	1.15	14.95
AXSS0370	335574	7795025	81.8	0.04	101.5	24.4	45.5	45.6	6.69	0.06	47.7	0.05	296	1.37	50.6	0.049	0.001	0.002	8.37	0.01	0.052	0.111	38.5	95	9.97	342	72.37	8.25	80.62
AXSS0371	334914	7795155	37	0.04	82.8	5.83	33.1	28.2	3.4	0.12	19.1	0.14	131	0.873	14.4	0.027	0.0005	0.002	18.05	0.0025	0.03	0.128	6.28	37.4	2.84	167	24.76	1.85	26.61
AXSS0372	334753	7793078	96.6	0.02	70.2	13.65	20.1	23.8	3.73	0.05	29	0.05	411	0.402	29	0.02	0.0005	0.001	5.06	0.012	0.035	0.035	23.5	48.8	9.31	216	42.65	4.81	47.46
AXSS0373	334990	7793295	77.9	0.02	89.9	11.35	34.2	30	3.94	0.28	35.1	0.31	104	1.36	27.1	0.031	0.0005	0.001	42.4	0.0025	0.041	0.052	15.7	68.8	1.56	243	49.63	4.31	53.93
AXSS0374	335086	7793155	21.2	0.02	90.5	4.51	33.5	39	3.02	0.03	30	0.01	57.7	0.407	13.05	0.014	0.0005	0.001	3.89	0.0025	0.023	0.022	16.65	27.1	10.65	236	47.88	3.96	51.83
AXSS0375	332630	7794566	133.5	0.14	74.5	8.4	31.6	19.8	2.76	0.25	30.3	0.39	197.5	1.035	19.7	0.052	0.0005	0.001	33	0.0025	0.026	0.141	14.25	47.8	0.57	209	43.53	3.96	47.50
AXSS0376	332588	7794500	59.6	0.06	46	3.94	46.2	16.5	3.23	0.12	11.45	0.11	99.2	1.06	11.35	0.074	0.0005	0.001	19.05	0.0025	0.024	0.143	5.49	33.2	3.01	99	15.05	1.53	16.59
AXSS0377	333483	7794459	149	0.04	83.9	7.36	34.4	27	2.72	0.08	21.8	0.05	248	0.795	13.1	0.025	0.0005	0.001	14.25	0.0025	0.016	0.082	10.75	39.1	2.12	190	32.52	2.99	35.50
AXSS0378	333408	7794406	118.5	0.14	69.3	20.9	28.9	25.5	3.67	0.16	23.2	0.24	669	0.855	30	0.035	0.0005	0.001	24.5	0.0025	0.024	0.078	22.7	199.5	2.14	196	34.76	4.48	39.24
AXSS0379	332945	7794603	93.7	0.02	62.2	3.78	42.2	27.1	4.5	0.11	21.8	0.02	34.1	1.775	11.3	0.066	0.002	0.001	20.6	0.0025	0.012	0.125	8.49	28.2	2.82	156	29.74	2.71	32.45
AXSS0380	333638	7793705	23.6	0.02	37.1	3.99	24.8	30.8	2.42	0.02	16.4	0.02	94.3	0.425	10.65	0.017	0.0005	0.056	2.97	0.0025	0.018	0.035	12.95	33.5	7.13	120	24.42	2.99	27.41
AXSS0381	327594	7788865	48.7	0.05	50.1	5.28	37	19.15	3.94	0.1	16.3	0.1	162.5	1.19	12.25	0.028	0.0005	0.001	15.7	0.0025	0.034	0.084	8.76	31	3.46	126	22.87	2.35	25.21
AXSS0382	327425	7788953	94.8	0.02	49.1	3.64	32.5	24.4	3.27	0.1	18.6	0.02	18.5	1.09	9.82	0.05	0.0005	0.001	18.8	0.0025	0.007	0.125	5.89	25.3	1.85	124	24.45	2.00	26.44
AXSS0383	327468	7789819	75.8	0.05	41.9	6.84	29.2	15.85	2.9	0.19	16.9	0.24	198	0.908	14.55	0.027	0.0005	0.001	28.5	0.0025	0.029	0.155	7.85	35.2	1.09	115	22.65	2.15	24.80
AXSS0384	333870	7791942	55.8	0.01	50.6	9.02	28.8	37.5	5.82	0.02	12.1	0.01	309	0.458	27.7	0.027	0.0005	0.001	1.405	0.017	0.038	0.056	5.42	112	15.85	110	17.76	1.73	19.50
AXSS0385	334081	7792083	63.7	0.06	111	9.59	39.5	31.2	3.27	0.08	36.6	0.05	198	0.956	23.3	0.049	0.0005	0.001	11.95	0.0025	0.024	0.106	15.15	49.7	2.19	276	55.15	4.00	59.16
AXSS0386	335102	7791410	49.5	0.01	89.7	2.24	42.7	21.5	3.4	0.1	3.92	0.02	54	0.893	10.4	0.02	0.002	0.001	13.55	0.0025	0.015	0.064	2.07	22.2	7.52	127	6.41	0.72	7.13
AXSS0387	335495	7790981	67.6	0.09	82.3	5.02	41.1	24.1	3.23	0.09	26	0.04	153.5	1.38	10.3	0.072	0.0005	0.001	16.3	0.0025	0.016	0.11	12.5	39.6	2.51	200	35.68	3.45	39.12

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0388	333158	7793264	102	0.18	93.8	16	33.9	24.8	4.27	0.08	33.5	0.15	1225	1.18	24	0.032	0.0005	0.001	16.2	0.0025	0.022	0.114	21.6	185	3.23	264	54.76	5.58	60.34
AXSS0389	333173	7793285	82.3	0.05	71	13.4	42.9	41.8	6.6	0.04	17.3	0.04	435	0.962	32.2	0.036	0.0005	0.001	5.32	0.008	0.042	0.066	8.42	136	12.25	155	25.01	2.48	27.49
AXSS0390	333351	7792980	109	0.03	81.3	8.37	40.6	29.2	6.35	0.08	18.6	0.02	728	1.19	14.65	0.041	0.0005	0.001	12.45	0.0025	0.023	0.076	8.55	36.3	5.49	173	27.13	2.56	29.69
AXSS0391	332036	7793790	78.7	0.04	96.6	6.58	30.9	28.5	4.03	0.14	25.4	0.08	237	1.305	15.25	0.023	0.001	0.001	19.35	0.0025	0.019	0.09	11.95	141.5	2.97	220	38.66	3.55	42.20
AXSS0392	331874	7793762	66	0.03	73	10.05	23.7	26.1	3.34	0.13	33.9	0.11	154.5	0.739	24.8	0.028	0.0005	0.001	22.4	0.0025	0.025	0.069	19.95	61.7	2.87	237	56.57	5.20	61.77
AXSS0393	334311	7795859	104.5	0.06	62	9.82	30.3	25.2	2.99	0.18	22.8	0.19	245	1.005	16.9	0.037	0.0005	0.001	29.9	0.0025	0.027	0.088	10.3	51.4	2.9	161	31.12	2.70	33.82
AXSS0394	333607	7795947	160	0.08	79.4	22.7	28.9	29.4	4.04	0.25	23.2	0.31	1335	0.967	21.7	0.048	0.001	0.001	39.5	0.0025	0.037	0.108	10.85	65.2	1.89	184	31.19	2.72	33.91
AXSS0395	333605	7797400	90.2	0.08	70.8	20.8	32.2	24.1	3.97	0.22	25.5	0.23	949	1	20.2	0.042	0.001	0.001	39.1	0.0025	0.04	0.069	12.9	61.5	1.54	183	34.60	3.07	37.67
AXSS0396	333026	7798304	62.3	0.04	79	20.4	26.6	26	3.24	0.13	13.3	0.08	383	0.543	8.99	0.032	0.001	0.001	22.8	0.0025	0.024	0.066	6.82	26.5	4.91	151	19.46	1.95	21.41
AXSS0397	333259	7798330	41.5	0.01	64.5	5.78	30.8	22.5	3.12	0.2	20.8	0.17	188.5	0.702	9.87	0.026	0.0005	0.003	27.6	0.0025	0.041	0.079	7.99	30.3	2.27	151	26.02	2.06	28.08
AXSS0398	332247	7798145	86.8	0.07	70.7	13.3	50.4	29.3	5.81	0.23	24.9	0.21	244	1.675	17.9	0.054	0.0005	0.004	29.7	0.0025	0.038	0.129	10.4	64.5	8.03	177	32.73	2.90	35.63
AXSS0399	331180	7796679	19.2	0.04	48.8	0.772	143	18.5	11.55	0.02	15.85	0.01	91	2.23	6	0.128	0.002	0.003	1.54	0.005	0.08	0.076	3.36	37	51.9	110	20.21	1.22	21.43
AXSS0400	331177	7796329	26.3	0.02	53.9	1.315	113	21.5	9.21	0.04	13.45	0.02	65.5	2.71	8.27	0.112	0.002	0.004	4.56	0.005	0.061	0.135	2.46	41.3	33.6	106	15.83	0.88	16.70
AXSS0401	328466	7788048	90.8	0.02	52.3	2.86	42.7	24.5	6.87	0.12	19.05	0.02	56.5	1.53	11.1	0.076	0.002	0.004	20.2	0.0025	0.013	0.129	3.96	27.2	4.38	125	23.84	1.69	25.53
AXSS0402	289594	7798616	71.2	0.02	108.5	9.24	51.4	32.4	5.29	0.13	28.5	0.04	136	2.94	13.75	0.063	0.002	0.003	24.4	0.0025	0.031	0.111	16	39.6	9.16	247	39.83	4.19	44.03
AXSS0403	289484	7799110	79.4	0.02	99.2	12.85	26.4	39	3.13	0.11	35	0.04	204	1.32	20.2	0.06	0.0005	0.003	20.9	0.0025	0.013	0.174	12.95	54.7	0.76	255	53.44	4.20	57.63
AXSS0404	289656	7799113	80.9	0.03	77.6	8.12	28	24.2	3.06	0.1	29.2	0.05	215	1.805	16.45	0.045	0.0005	0.002	17.15	0.0025	0.018	0.167	10.8	41.1	1.62	201	40.79	3.30	44.09
AXSS0405	289443	7798928	71.5	0.03	92.7	11.55	30.3	35.2	4.67	0.15	28.2	0.09	277	1.495	18.65	0.044	0.002	0.003	26.6	0.0025	0.023	0.131	16.35	55.2	3.74	225	38.25	4.19	42.44
AXSS0406	289373	7798457	73.4	0.03	90	6.58	34.6	30.4	2.75	0.11	30.1	0.05	88.6	2.16	15.9	0.046	0.0005	0.003	19.5	0.0025	0.023	0.162	12.4	45.2	2.98	221	41.09	3.68	44.77
AXSS0407	291916	7801701	36	0.01	32.1	5.96	11.95	27.1	3.08	0.02	10.3	0.02	348	0.697	13.6	0.016	0.0005	0.004	3.44	0.009	0.02	0.035	2.74	21.9	7.08	75	13.74	1.11	14.86
AXSS0408	289072	7799522	91.9	0.06	103.5	14.5	38.6	41.6	4.28	0.21	35.9	0.14	341	1.74	21.7	0.058	0.0005	0.004	39.2	0.0025	0.028	0.084	21.9	81.3	1.98	273	50.47	5.52	55.99
AXSS0409	289111	7799751	78.2	0.03	102.5	13.4	31.7	38	5.33	0.14	27.8	0.07	287	1.6	20.4	0.044	0.0005	0.004	26.4	0.0025	0.021	0.123	16.1	55.7	4.98	236	37.97	4.18	42.15
AXSS0410	289208	7799753	83.6	0.03	92.2	11.95	29.2	34.5	4.45	0.11	39.2	0.06	240	1.15	27.7	0.044	0.0005	0.003	21.5	0.0025	0.011	0.26	19.25	63	2.99	266	58.43	4.84	63.27
AXSS0411	289783	7799805	70.7	0.02	102.5	5.29	29.1	33.6	2.64	0.1	54.2	0.03	118.5	1.385	18.7	0.021	0.0005	0.003	22.7	0.0025	0.009	0.186	16.85	34.8	5.26	317	77.24	5.34	82.57
AXSS0412	288575	7800341	60.8	0.03	94.9	9.58	26.7	32.2	5.18	0.1	21.3	0.04	231	1.42	16.95	0.033	0.0005	0.003	19.55	0.0025	0.019	0.14	10.2	39.2	7.41	196	28.32	2.83	31.15
AXSS0413	290753	7799649	101	0.05	83.8	10.45	27.2	25.1	3.39	0.11	30.2	0.06	315	2.27	20.1	0.043	0.0005	0.004	18.65	0.0025	0.018	0.177	9.81	42.6	3.64	210	41.79	3.21	44.99
AXSS0414	290124	7799398	83.8	0.04	76.7	7.31	26	23	2.25	0.09	28.4	0.04	187	1.795	15.55	0.032	0.0005	0.003	16.6	0.0025	0.016	0.131	11.3	35.6	2.16	198	39.79	3.24	43.03
AXSS0415	279800	7802952	43.4	0.02	81.8	7.61	15.5	25	3.36	0.07	27.9	0.02	142.5	0.957	18.4	0.032	0.0005	0.003	10.6	0.0025	0.025	0.048	6.27	44.1	2.34	195	39.93	2.47	42.41
AXSS0416	279766	7802497	73.4	0.02	71.9	6.9	18.9	22.2	2.1	0.09	26.1	0.02	127	1.02	13.5	0.022	0.0005	0.003	17.15	0.0025	0.033	0.031	8.31	31.4	4.91	183	38.74	2.68	41.41
AXSS0417	278999	7803425	115.5	0.04	83.6	17.45	23.6	30.9	4.76	0.14	30.3	0.03	349	1.26	25	0.061	0.0005	0.003	20	0.0025	0.013	0.091	8.3	52.3	2.59	206	41.50	2.83	44.32
AXSS0418	278907	7803470	115	0.05	75.9	17.55	30.8	34.9	4.44	0.14	27.4	0.03	282	1.425	20.9	0.1	0.001	0.003	23.1	0.0025	0.012	0.104	8.65	54.9	2.02	192	40.46	2.75	43.20
AXSS0419	279352	7798176	89.9	0.04	100.5	9.71	54.4	30.1	5.11	0.13	29.7	0.03	196.5	2.34	17.3	0.059	0.001	0.003	26.4	0.0025	0.023	0.114	7.27	43.5	7.9	224	41.25	2.62	43.87
AXSS0420	324761	7796100	52.7	0.01	137.5	6.52	31.2	36.4	5.29	0.05	20	0.01	235	1.7	16.9	0.039	0.0005	0.003	6.72	0.008	0.046	0.069	9.44	30.1	1.72	245	26.75	2.94	29.69
AXSS0421	324426	7796150	30.4	0.01	31.1	3.18	46.3	19.65	5.76	0.04	15.1	0.01	111	1.2	11.4	0.046	0.001	0.003	7.08	0.0025	0.03	0.061	5.86	22.7	4.89	87	16.54	1.57	18.10
AXSS0422	323885	7796595	41.8	0.02	35.8	1.87	57.5	23.5	4.32	0.04	15.85	0.01	47.6	1.605	10.05	0.067	0.002	0.002	6.79	0.0025	0.029	0.089	6.53	22.7	7.8	97	17.64	1.80	19.44
AXSS0423	325244	7794001	34.8	0.04	44.7	3.75	66.5	23.6	5.81	0.12	16.35	0.1	162	1.175	11.3	0.049	0.0005	0.003	24.9	0.0025	0.053	0.064	4.8	33.6	26.1	108	19.80	1.42	21.22
AXSS0424	325261	7793838	27	0.01	49.2	3.25	33.5	26.9	3.88	0.05	7.93	0.02	113	1.245	11.45	0.014	0.0005	0.009	7.55	0.0025	0.038	0.15	2.89	15	7.3	88	9.81	0.95	10.76
AXSS0425	325323	7794650	86.8	0.11	107	19.55	29.2	31.6	4.38	0.3	32.1	0.27	648	0.81	17	0.031	0.0005	0.002	50.5	0.0025	0.036	0.102	16.2	47.3	3.63	252	43.18	3.83	47.00
AXSS0426	326064	7793761	33.9	0.01	59.5	3.99	39.8	17.55	2.78	0.11	23.7	0.08	50.8	1.175	13.5	0.017	0.0005	0.002	21	0.0025	0.031	0.073	9.8	26.8	2.31	157	29.57	2.74	32.31
AXSS0427	325598	7794046	61.6	0.09	71.6	11.35	35	23.7	3.42	0.26	23.3	0.26	323	0.919	19.4	0.034	0.001	0.002	37.8	0.0025	0.034	0.136	10.4	55.5	2.46	173	30.45	2.89	33.34
AXSS0428	326000	7793883	38	0.04	62.5	4	40.6	25.2	3.67	0.09	18.15	0.08	163.5	0.938	11.4	0.029	0.0005	0.002	14.85	0.0025	0.035	0.08	6.24	27.1	7.04	141	24.66	2.03	26.69
AXSS0429	326133	7793979	99.1	0.06	103.5	12.2	40.1	29.3	4.64	0.25	28.4	0.28	371	0.925	21.4	0.032	0.001	0.002	43	0.0025	0.026	0.12	14.65	56.8	2.55	234	36.42	3.96	40.38
AXSS0430	290218	7798605	85.1	0.03	71.9	6.5	35.9	21.8	3.56	0.14	21.9	0.03	98.5	2.05	9.07	0.044	0.0005	0.003	26.6	0.0025	0.016	0.125	10.1	23.6	5.14	172	30.02	2.97	32.99
AXSS0431	290258	7798700	68.5	0.03	109.5	7.96	56.4	32.6	5.9	0.13	25.6	0.05	141	3.5	13.8	0.06	0.0005	0.003	24.6	0.0025	0.039	0.126	14.5	38.9	12.1	237	35.20	3.96	39.16
AXSS0432	288708	7798542	59.6	0.05	80.5	15.45	28.2	37.7	4.26	0.19	24	0.13	260	1.49	17.65	0.048	0.003	0.002	31.8	0.0025	0.028	0.081	11.35	57.2	2.22	190	32.37	3.23	35.60
AXSS0433	288674	7798424	54.5	0.03	68.9	11.75	40.1	33	4.61	0.12	18.45	0.08	167.5	1.3	13.9	0.042	0.001	0.001	21.3	0.0025	0.03	0.073	8.78	46.7	3.41	157	26.65	2.58	29.23
AXSS0434	333877	7790041	119	0.13	58.5	16.65	22.4	30.2	4.58	0.06	25	0.11	812	0.605	26.6	0.04	0.0005	0.001	12.9	0.0025	0.012	0.103	11.55	50.1	1.58	168	35.19	3.40	38.59

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+Pr6O11	Dy2O3+Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	E_UTM	N_UTM	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
AXSS0435	333672	7789869	90.8	0.11	71.1	8.84	24.1	34.2	3.88	0.07	16.05	0.06	424	0.801	14.2	0.042	0.0005	0.001	12.75	0.0025	0.018	0.1	7.51	36.1	3.21	150	22.53	2.29	24.82
AXSS0436	333647	7789735	77.3	0.05	71.9	7.39	31.7	30	4.26	0.1	15.6	0.07	160.5	1.075	11.95	0.044	0.002	0.001	13.3	0.0025	0.024	0.121	7.34	33.9	4.75	150	22.34	2.30	24.64
AXSS0437	334055	7791128	53.1	0.03	54.4	4.34	30.4	15.9	2.51	0.09	17.1	0.03	78.4	0.996	9.46	0.029	0.0005	0.001	12.4	0.0025	0.014	0.132	5.46	22.1	2.27	127	23.30	1.78	25.09
AXSS0438	334121	7791255	24.1	0.02	36.3	4.16	17.5	34.8	1.9	0.02	18	0.01	118.5	0.133	10.35	0.015	0.0005	0.001	1.7	0.0025	0.011	0.018	15.55	24.7	7.88	130	28.11	3.45	31.56
AXSS0439	334320	7791213	71.1	0.02	99.9	3.73	48.2	29.1	4.43	0.13	10.95	0.03	62.2	1.09	13.95	0.031	0.002	0.001	18.3	0.0025	0.013	0.089	4.39	31.1	8.07	164	15.68	1.49	17.17
AXSS0440	334720	7790609	48.9	0.04	44.5	2.26	23.5	10.95	1.87	0.09	10.7	0.03	97.2	0.833	5.4	0.029	0.001	0.001	13.35	0.0025	0.011	0.127	3.22	16.4	1.86	91	14.03	1.08	15.10
AXSS0441	334644	7790568	56.3	0.02	56.7	11.2	17.25	38.6	3.15	0.02	26.2	0.01	617	0.104	23.4	0.034	0.0005	0.001	1.735	0.0025	0.015	0.043	15.55	46.9	8.53	183	42.48	3.91	46.38
AXSS0442	333370	7790956	71.3	0.05	53.1	3.44	54.8	19.8	4.48	0.08	9.94	0.03	95.4	1.835	10.7	0.046	0.002	0.001	14.55	0.0025	0.026	0.177	3.27	29.2	9.48	100	13.43	1.08	14.50
AXSS0443	331393	7792073	51.6	0.02	78.1	3.33	58.7	25.8	4.93	0.04	14.55	0.03	63.5	1.08	13.9	0.039	0.0005	0.001	6.38	0.0025	0.037	0.061	4.68	29.8	11.3	146	19.49	1.47	20.96
AXSS0444	331479	7791967	9.4	0.01	26.8	0.441	6.78	53	0.75	0.01	15.55	0.005	9.4	0.021	1.66	0.007	0.0005	0.001	1.09	0.0025	0.003	0.002	19.85	3.6	6.84	123	27.58	4.18	31.76
AXSS0445	330756	7792168	12.2	0.04	35.4	1.05	87	28.1	6.19	0.02	11	0.01	50.5	0.949	6.35	0.046	0.001	0.001	2.29	0.0025	0.046	0.05	2.6	22.5	25.4	82	16.15	1.03	17.18
AXSS0446	330804	7792235	31.2	0.01	41.6	4	28.3	16.9	3.61	0.05	12.55	0.03	99.5	0.751	15.25	0.015	0.0005	0.001	6.6	0.0025	0.03	0.048	4.57	24.2	4.76	96	16.81	1.33	18.14
AXSS0447	330961	7791172	36.7	0.02	54.2	6.9	22.1	30.7	4.43	0.03	14.1	0.01	196	0.288	25.2	0.024	0.001	0.001	3	0.01	0.021	0.019	3.43	34.2	9.5	114	19.11	1.33	20.44
AXSS0448	331338	7793140	60.5	0.03	57.5	3.93	58.2	21.2	5.14	0.06	13	0.03	192	1.065	10	0.037	0.0005	0.001	8.39	0.0025	0.032	0.068	4.88	41.4	15.4	119	19.52	1.49	21.01
AXSS0449	330784	7793581	302	0.03	80	22.5	22.5	31.1	4.3	0.3	34.6	0.31	1900	2.25	48.6	0.08	0.0005	0.001	47.4	0.0025	0.04	0.238	31.6	702	1.48	267	55.02	7.40	62.43
AXSS0450	330323	7793594	70.3	0.01	46.7	8.38	59.2	27.8	6.01	0.07	22.1	0.05	338	1.145	14.3	0.041	0.003	0.001	12.05	0.0025	0.029	0.091	12.05	51	8.75	144	30.63	3.01	33.64
AXSS0451	330289	7793518	48.5	0.02	54.2	10.35	31.8	12.75	7.16	0.1	13.65	0.03	524	1.415	7.29	0.026	0.001	0.001	16.1	0.005	0.015	0.118	5.96	20.2	5.2	115	17.18	1.58	18.76
AXSS0452	331630	7790273	55.6	0.05	44.8	2.78	66.8	15.25	4.32	0.06	11.95	0.02	134.5	1.65	5.89	0.039	0.003	0.001	10.45	0.0025	0.031	0.13	6.51	15.6	10.7	101	16.14	1.59	17.73
AXSS0453	331525	7790315	52.2	0.03	65.5	3.93	53.6	16.6	19.25	0.07	11.95	0.02	63.8	1.21	8.19	0.062	0.0005	0.001	11.15	0.0025	0.02	0.26	4.28	36.8	7.88	121	14.93	1.28	16.21
AXSS0454	331835	7791045	67.5	0.02	81.5	4.45	86.2	28.5	4.67	0.07	16.1	0.02	56.2	2.05	14.8	0.054	0.002	0.001	12.6	0.0025	0.034	0.15	9.06	32.1	11.15	165	23.06	2.32	25.38
AXSS0455	332092	7792043	12.7	0.01	26.4	0.994	11.5	50.7	1.17	0.02	12.65	0.01	18.1	0.105	2.81	0.009	0.0005	0.001	2.06	0.0025	0.007	0.007	12.65	8.2	6.9	96	20.09	2.83	22.92
AXSS0456	332210	7791939	14.3	0.01	41.7	3.67	21.7	31.4	2.63	0.01	22.8	0.01	37.7	0.084	11.5	0.017	0.0005	0.001	1.12	0.0025	0.014	0.019	19.3	31.8	10.9	158	35.23	4.42	39.65
AXSS0457	332195	7793263	70.7	0.02	91	7.06	26.9	27.4	3.39	0.1	23	0.05	224	0.925	15.3	0.025	0.001	0.001	14.7	0.0025	0.018	0.079	9.98	87.2	3.33	201	34.39	3.03	37.42
AXSS0458	332174	7793157	82.1	0.03	58.4	3.06	64.1	19.6	5.32	0.05	11.7	0.04	170	1.06	10.35	0.04	0.001	0.001	7.62	0.0025	0.038	0.061	4.29	64.2	20	115	17.16	1.36	18.52
AXSS0459	332100	7822708	131.5	0.12	79.1	22	33.8	30.2	3.57	0.21	21.2	0.21	563	1.085	16.3	0.051	0.001	0.001	42.8	0.0025	0.027	0.04	13.05	70.5	2.5	189	32.81	3.88	36.69
AXSS0460	332121	7822453	81.8	0.09	77.4	11.45	50.6	30.2	4.22	0.24	29.8	0.21	349	1.125	11.45	0.034	0.0005	0.001	71.3	0.0025	0.044	0.015	18	53.2	5.37	220	43.28	5.07	48.35
AXSS0461	331340	7826558	116.5	0.13	92.9	10.45	51.9	36	4.13	0.11	27.2	0.1	132	2.18	14.65	0.116	0.0005	0.001	24	0.0025	0.088	0.028	20	52.2	3.69	248	49.75	5.73	55.48
AXSS0462	325524	7793302	24.7	0.005	44.6	2.7	27.9	13.6	2.47	0.03	11.3	0.01	31.7	0.754	9.11	0.011	0.0005	0.001	6.22	0.0025	0.021	0.043	4.86	16.2	2.32	97	15.66	1.47	17.13
AXSS0463	324784	7791188	43.8	0.04	40.1	2.89	62.3	21.5	7.21	0.04	12.3	0.01	142	1.77	9.1	0.072	0.002	0.001	5.34	0.0025	0.039	0.12	4.48	27.9	22.5	93	16.75	1.46	18.21
AXSS0464	323347	7792103	46.9	0.07	41.2	3.67	71.8	28.1	6.55	0.05	14.8	0.07	177	1.58	11.2	0.07	0.003	0.001	5.67	0.0025	0.044	0.092	6.19	36.1	24.3	105	20.37	1.82	22.19
AXSS0465	324092	7792037	71	0.02	84.7	6.03	45	31.7	4.76	0.07	18.65	0.02	132.5	1.065	12.1	0.041	0.0005	0.007	12.4	0.0025	0.016	0.108	10.45	28	6.11	177	24.40	2.73	27.14
AXSS0466	325545	7789572	58.6	0.02	51.1	5.34	52.2	32.1	6.12	0.05	17.3	0.02	189	1.265	14.85	0.057	0.002	0.006	6.63	0.0025	0.027	0.088	8.2	32.8	9.7	132	25.08	2.58	27.66
AXSS0467	325629	7789389	90.4	0.05	61.8	7.95	51.5	33.6	5.5	0.06	18.6	0.05	354	1.26	15.9	0.047	0.0005	0.006	10.1	0.0025	0.036	0.096	10.85	34.6	9.48	156	28.94	3.05	31.98
AXSS0468	325602	7790467	99.4	0.05	71.2	8.13	61.8	34	6.24	0.07	21.5	0.05	295	1.6	15.65	0.059	0.0005	0.008	12.15	0.0025	0.035	0.12	11.15	38.1	10.3	175	31.55	3.22	34.77
AXSS0469	324808	7791719	74.8	0.05	91.3	7.69	51.8	50.1	5.93	0.09	28.4	0.09	270	1.045	21.6	0.048	0.002	0.008	11.15	0.0025	0.027	0.085	29.3	49.3	7.71	263	48.48	6.84	55.33
AXSS0470	325838	7789976	85.8	0.03	51.2	9.17	37.3	23.7	9.86	0.11	16.55	0.02	195.5	1.755	12.8	0.084	0.001	0.009	20.5	0.0025	0.011	0.205	4.68	30.4	3.78	116	19.59	1.48	21.07
AXSS0471	327803	7790075	59.5	0.03	62.1	2.99	50.2	19.25	3.38	0.1	13.85	0.03	249	0.99	6.16	0.017	0.002	0.008	20.7	0.0025	0.007	0.087	2.14	13.9	7.02	120	17.78	1.10	18.89
AXSS0472	327816	7789631	54.5	0.02	63.2	5.28	42.5	24.2	4.37	0.09	20.6	0.08	82.5	1.23	12.6	0.033	0.0005	0.006	14.75	0.0025	0.035	0.073	11.15	30.7	3.47	158	27.16	2.98	30.14
AXSS0473	327947	7789572	74.5	0.07	75.6	6.97	71.9	27.2	6.77	0.06	15.7	0.03	297	1.495	15.1	0.052	0.0005	0.006	9.49	0.005	0.045	0.078	6.47	30.9	13.3	151	21.29	1.91	23.20
AXSS0474	328437	7789525	72.5	0.07	79.4	4.89	57	31.3	5.15	0.08	20.2	0.03	159.5	1.67	12.3	0.053	0.002	0.008	14.35	0.0025	0.033	0.114	7.95	23.6	3.41	168	24.63	2.33	26.96
AXSS0475	330774	7787784	106	0.06	81	6.92	32.5	22.4	3.12	0.09	23	0.07	187	0.869	16.6	0.035	0.0005	0.006	12.8	0.0025	0.015	0.09	11.1	49	1.73	185	29.12	3.13	32.25
AXSS0476	329529	7795625	136	0.04	97.4	8.94	37.4	41.3	8.47	0.16	35.7	0.06	202	1.82	13.25	0.093	0.0005	0.008	20.1	0.0025	0.03	0.134	23.3	34	2.74	267	49.32	5.46	54.79
AXSS0477	324797	7831023	173.5	0.14	88.9	10.65	80	42.5	6.27	0.1	24.5	0.12	246	3.9	19.65	0.106	0.001	0.005	19.1	0.0025	0.083	0.198	25.2	52.4	4.28	240	41.00	6.68	47.68
AXSS0478	324786	7830869	167	0.15	94.4	29.4	60.9	47.8	8.13	0.24	34.6	0.22	428	3.2	26.1	0.147	0.003	0.006	37.2	0.0025	0.143	0.165	30.1	86.4	5.96	293	62.25	7.68	69.94
AXSS0479	324514	7830812	140	0.16	92.9	16.5	58.3	43.7	5.37	0.07	33.6	0.08	326	3.34	20.4	0.1	0.0005	0.005	19.45	0.0025	0.081	0.074	29	52.8	4.22	284	59.52	7.16	66.68
AXSS0480	323834	7830529	105	0.09	50.3	6.65	52.1	17.8	2.14	0.08	17.9	0.05	95.3	1.18	12.75	0.046	0.002	0.003	18.7	0.0025	0.029	0.073	9.32	25.7	1.67	134	25.57	2.77	28.34
AXSS0481	323017	7829908	115	0.1	76.4	10.6	62.3	36.2	3.86	0.2	29.1	0.2	221	1.5	20.8	0.062	0.001	0.005	40.7	0.0025	0.034	0.072	14.25	55.6	2.24	208	41.34	4.10	45.44

SAMPLE	SIRGAS 2000 Zone 23 S		Ba	Ca	Ce	Co	Cr	Cu	Fe	K	La	Mg	Mn	Nb	Ni	P	Pd	Pt	Rb	Ta	Ti	W	Y	Zn	Zr	TREO	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	Nd+Pr+Dy+Tb Magnets
ID	**E_UTM**	**N_UTM**	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	**ppm**	**ppm**	**ppm**	**ppm**
AXSS0482	323072	7829854	125.5	0.17	78.6	20.7	101	40.4	7.06	0.11	29.2	0.13	373	2.62	30.7	0.119	0.003	0.005	25	0.0025	0.072	0.077	14.25	51.7	3.85	211	41.62	4.16	45.78
AXSS0483	325428	7832282	139.5	0.1	69.9	9.55	49	22.3	4.69	0.06	23.5	0.08	353	2.79	15.7	0.066	0.001	0.003	17	0.0025	0.089	0.068	11.65	31	6.61	183	36.09	3.78	39.87
AXSS0484	325261	7832100	153.5	0.1	82.8	19.7	68.8	48.6	8.46	0.21	22.5	0.18	369	2.09	27.5	0.069	0.002	0.006	35.8	0.0025	0.115	0.195	16.15	53.7	9.21	209	37.43	5.03	42.46
AXSS0485	323582	7832772	83.7	0.09	82	2.06	47.6	22.2	2.93	0.08	20.8	0.04	66.7	1.695	8.09	0.077	0.002	0.003	20.9	0.0025	0.017	0.129	8.89	31.8	3.57	181	30.22	2.79	33.02
AXSS0486	323455	7833007	106	0.06	120	11.6	51	29.3	4.5	0.2	43.6	0.13	423	1.81	13.3	0.057	0.002	0.004	45.3	0.0025	0.042	0.077	15.55	48.6	3.72	304	61.00	4.60	65.60
AXSS0487	326055	7834730	140.5	0.2	121	4.27	29.3	16.8	1.95	0.24	47.3	0.07	320	1.115	6.04	0.041	0.001	0.004	83	0.0025	0.024	0.031	14.4	31.6	3.83	321	73.04	4.41	77.45
AXSS0488	327345	7833905	187	0.97	46.3	19.4	55.2	21.1	13.05	0.04	10.4	0.14	361	1.49	15.85	0.275	0.002	0.003	3.14	0.008	0.03	0.103	6.49	61.8	1.09	102	15.90	1.66	17.56
AXSS0489	327738	7830747	160	0.3	88	12.65	73	45.5	6.5	0.05	21.5	0.09	337	1.815	23.7	0.164	0.0005	0.004	9.11	0.0025	0.117	0.019	20.2	58.3	2.44	227	40.69	5.80	46.49
AXSS0490	327189	7829705	174.5	0.33	98.7	26.1	74	40.8	11.45	0.06	20.5	0.16	742	2.32	22.6	0.127	0.003	0.004	14.05	0.0025	0.094	0.046	15.8	76.3	4.5	219	32.69	4.63	37.31
AXSS0491	328929	7789616	94.5	0.08	84.4	7.5	80	34.5	8.6	0.07	15.4	0.03	331	1.635	16.85	0.065	0.005	0.004	10.15	0.0025	0.037	0.082	5.34	35.8	15.2	157	19.54	1.60	21.15
AXSS0492	331541	7827534	222	0.16	136	8.05	46.9	22.5	3.99	0.43	60.9	0.35	199	3.52	23.5	0.116	0.003	0.004	114	0.0025	0.09	0.096	18.25	57	2.77	354	68.36	4.60	72.96
AXSS0493	328875	7826576	110	0.08	90.5	10.15	67	39.9	4.39	0.13	34.5	0.1	226	1.495	19.4	0.065	0.002	0.004	22.4	0.0025	0.028	0.041	25.3	51.7	4.1	264	51.57	6.31	57.88
AXSS0494	328984	7826719	68.5	0.07	193	5.83	21.2	15.3	3.56	0.1	88.8	0.05	808	16.35	7.9	0.042	0.0005	0.003	13	0.09	0.022	0.051	34	101.5	26.7	569	132.61	10.56	143.16
AXSS0495	327410	7823996	50.9	0.03	58.2	7.28	32.3	18.15	2.71	0.1	23.8	0.07	203	0.781	10.65	0.026	0.001	0.004	16.7	0.0025	0.025	0.03	12.45	30.4	2.02	166	33.57	3.42	37.00
AXSS0496	327798	7824935	64.8	0.05	62.9	9.89	38.7	21.6	3.25	0.12	24.9	0.08	243	0.964	13.15	0.035	0.001	0.004	19.55	0.0025	0.028	0.03	13.1	36.5	2.8	176	35.04	3.65	38.69
AXSS0497	328307	7826211	109	0.09	80.4	8.84	48.7	29	3.56	0.13	32.9	0.08	359	1.19	14.95	0.063	0.001	0.003	26	0.0025	0.016	0.064	21.4	49.7	1.32	238	48.32	5.37	53.69
AXSS0498	327667	7826838	142	0.2	68.6	31.9	76.9	49.4	6.16	0.19	30.1	0.19	795	2.44	37	0.088	0.0005	0.004	44.4	0.0025	0.098	0.146	21.6	53.2	2.15	211	40.29	5.32	45.61
AXSS0499	327791	7828195	83.3	0.05	92.8	31.4	173	67.2	8.44	0.19	36.9	0.1	372	5.75	54.8	0.09	0.001	0.005	24.2	0.0025	0.125	0.099	33.9	49.8	7.3	305	64.25	9.13	73.38
AXSS0500	332377	7823021	94.5	0.06	79.6	20.6	48.9	32.7	5.16	0.38	23.7	0.28	669	1.085	22.5	0.051	0.0005	0.004	90.6	0.0025	0.037	0.023	13.25	78.7	4.14	193	33.62	3.69	37.31
AXSS0501	330155	7826645	162	0.18	93.4	16.05	39.3	31.4	8.14	0.08	26.5	0.11	273	3.26	13.25	0.18	0.0005	0.002	18.1	0.0025	0.122	0.041	19.55	71.9	3.66	248	49.76	5.56	55.32
AXSS0507	327904	7828628	111.5	0.09	80	20.2	95.1	44.6	7.27	0.1	24.2	0.11	517	2.75	31.3	0.085	0.003	0.004	16.5	0.0025	0.126	0.069	18.55	52.6	5.04	213	38.94	5.25	44.19
AXSS0508	327884	7828937	155	0.18	101.5	25.9	72.7	42.8	7.63	0.12	34	0.12	487	3.53	36.4	0.135	0.001	0.004	22.3	0.0025	0.111	0.014	21.3	73.4	4.35	280	57.92	6.25	64.17
AXSS0509	328935	7828521	90.1	0.06	68.7	4.01	112.5	102.5	2.15	0.07	22.8	0.07	63.7	1.465	54.3	0.076	0.003	0.004	18.95	0.0025	0.131	0.047	32.4	46.6	2.92	221	37.95	7.30	45.25
AXSS0511	328616	7829509	323	0.9	19.2	65.8	6.83	8.47	26.6	0.03	5.79	0.12	2190	0.821	4.27	0.585	0.0005	0.004	5.1	0.0025	0.024	0.017	4.84	32.4	0.4	53	9.82	1.28	11.10
AXSS0512	326403	7831333	118	0.18	101.5	6.32	89.5	41.2	4.31	0.07	25.3	0.04	78.6	2.48	22.4	0.105	0.001	0.005	21.7	0.0025	0.046	0.103	13.65	44.3	5.13	227	36.01	3.95	39.95
AXSS0513	326416	7831605	69.8	0.04	45.3	2.03	15.1	7.51	1	0.04	17.05	0.04	87.1	1.87	4.83	0.026	0.0005	0.004	7.6	0.0025	0.087	0.017	7.52	22.8	2.01	124	25.93	2.62	28.55
AXSS0514	327139	7831168	119	0.13	76.9	10.7	38.9	38.5	13.4	0.02	20.3	0.04	188	1.975	14.1	0.198	0.001	0.008	2.88	0.0025	0.095	0.034	10.1	86.1	3.24	190	36.97	4.36	41.33
AXSS0515	325602	7830508	56.7	0.08	96.4	5.95	170.5	51.3	12	0.05	28.2	0.03	308	2.07	32.4	0.169	0.0005	0.007	10	0.0025	0.094	0.074	11.1	34.1	9.35	229	41.40	4.24	45.64
AXSS0516	326165	7833244	89.7	0.37	64.8	4.63	57.2	30.6	1.53	0.03	17.45	0.09	37.2	1.015	14.5	0.142	0.0005	0.007	3.25	0.0025	0.032	0.053	32.5	33.6	0.58	196	29.51	5.89	35.40
AXSS0517	325995	7833224	103	0.11	89.2	8.67	85.8	31.7	4.61	0.03	20.1	0.04	100.5	3.02	20.1	0.162	0.0005	0.007	7.02	0.0025	0.071	0.09	17.1	48.5	4.98	211	33.52	4.65	38.17
AXSS0518	326776	7834226	128.5	0.15	103.5	9.87	252	37.6	9.84	0.03	21.5	0.05	191.5	2.03	32.2	0.123	0.0005	0.007	5.75	0.0025	0.145	0.037	13.7	38.6	3.02	225	33.79	4.31	38.10

Gold Mountain Limited

Appendix 1 JORC Code, 2012 Edition – Table 1

Section 1 - Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code Explanation	Commentary
Sampling techniques	▪ *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* ▪ *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* ▪ *Aspects of the determination of mineralisation that are Material to the Public Report.* ▪ *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	▪ *Style of mineralisation sought is niobium, phosphorus and REE mineralisation derived from hard rock sources in the weathering profile.* ▪ *Stream sediment sampling was carried out in drainages over 500 metres long with spacing planned at approximate 1 km on drainages.* ▪ *Stream sediment samples weighed approximately 1 kg each. Sample is pre-processed to a -10 micron sample fraction that is submitted to the laboratory. They are not considered representative of the possible grade of mineralisation at depth* .
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).*	▪ *No drilling undertaken*

Criteria	JORC Code Explanation	Commentary
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.*	▪ *No drilling undertaken*
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.*	▪ *No drilling undertaken* ▪ *Stream sediment sampling is subjective however the fraction sampled and the preparation and analytical procedures used make the samples readily compared and more representative than -80 # samples.*
Sub-sampling techniques and sample preparation	▪ *If core, whether cut or sawn and whether quarter, half or all core taken.* ▪ *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* ▪ *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* ▪ *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* ▪ *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* ▪ *Whether sample sizes are appropriate to the grain size of the material being sampled.*	▪ *No drilling undertaken* ▪ *All samples were collected as 1 kg bulks in the field, screened at approximately 2.5 mm then securely packaged* ▪ *Sample preparation at the GMN sample preparation laboratory is undertaken prior to sample dispatch to ALS at Belo Horizonte. Preparation is to separate a nominal -10 micron fraction to dispatch to the lab after drying* ▪ *Sample representativity of the catchment was well represented in the -10 micron samples* .

Criteria	JORC Code Explanation	Commentary
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 analytical techniques used are two acid digest and ICP-MS analysis, the 2 acid digest method is a partial digest technique, suitable for non-resource sampling in exploration work. ALS codes used were MS41L-REE.* ▪ *No standards duplicates or blanks accompany these initial samples that will not be used other than to indicate potentially interesting REE and REE pathfinder element contents of the variably weathered samples* ▪ *Checks of the analytical values of CRM's used by the laboratory against the CRM specification sheets were made to assess whether analyses were within acceptable limits* ▪
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.*	▪ *No samples analysed* ▪ *No adjustments were made to any data.* ▪ *No verification will be undertaken for these initial samples, which will not be used in any resource estimate. The samples are to determine the levels of Nb, P and REE and other valuable elements in stream sediment samples*
Location of data points	▪ *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* ▪ *Specification of the grid system used.* ▪ *Quality and adequacy of topographic control.*	▪ *Grid system used is SIRGAS 2000 which is equivalent to WGS84 for hand held GPS instruments and latitude and longitude by the spectrometer* ▪ *Elevations are measured by hand held GPS and are sufficiently accurate for this stage of exploration.* ▪ *Stream sediment sample sites are measured by hand held Garmin 65 multiband instruments with 3 metre accuracy in open conditions.*

Criteria	JORC Code Explanation	Commentary
Data spacing and distribution	▪ *Data spacing for reporting of Exploration Results.* ▪ *Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* ▪ *Whether sample compositing has been applied.*	▪ *Stream sediment sampling was carried out at approximately 1 km intervals on drainages over 500 metres long.* ▪ *The sample spacing is sufficient to confidently locate anomalous catchment areas.*
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.*	▪ *No drilling undertaken.* ▪ *Main target is expected to be flat lying or gently dipping, reflecting pre laterite surfaces with the high grade targets being 5-10 metres wide, steeply dipping and with unknown orientation.* ▪ *Many streams are controlled by regional structure which may also control mineralisation and may bias results to some degree. The close spacing of samples is thought to have removed much of the potential bias present.*
Sample security	▪ *The measures taken to ensure sample security.*	▪ *Stream sediment samples are taken to the GMN laboratory regularly, often daily, and kept under secure conditions. Prepared samples are securely packed and dispatched to ALS by reliable couriers or hand delivered by GMN personnel.*
Audits or reviews	▪ *The results of any audits or reviews of sampling techniques and data.*	▪ *No audits or reviews, except for comparison with known mineralised zone over which the orientation traverses and stream sediments sampling was undertaken.*

Section 2 - Reporting of Exploration Results

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

Criteria	JORC Code Explanation	Commentary
Mineral tenement and land tenure status	▪ *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* ▪ *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	▪ *GMN holds 20 tenements in the Araxá Project in eastern Bahia. GMN has 100% ownership of the 20 granted tenements. The tenements are in good standing* ▪ *All mining permits in Brazil are subject to state and landowner royalties, pursuant to article 20, § 1, of the Constitution and article 11, "b", of the Mining Code. In Brazil, the Financial Compensation for the Exploration of Mineral Resources (Compensação Financeira por Exploração Mineral - CFEM) is a royalty to be paid to the Federal Government at rates that can vary from 1% up to 3.5%, depending on the substance. It is worth noting that CFEM rates for mining rare earth elements are 2%.* ▪ *There are no known serious impediments to obtaining a licence to operate in the area.* *Existing or applications for environmental protection areas will constrain the way work is done but does not automatically preclude work on the tenements.*
Exploration done by other parties	▪ *Acknowledgment and appraisal of exploration by other parties.*	▪ *Mining of Niobium and Phosphate has been carried out in the region for many decades and the presence of significant REE has also been known but not exploited.*
Geology	▪ *Deposit type, geological setting and style of mineralisation.*	▪ *The mineralisation in the region consists of secondary niobium, phosphorus and REE associated with deeply weathered profiles over late Cretaceous age carbonatites.* ▪ *Mineralisation is present in both the profile directly overlying the*

Criteria	JORC Code Explanation	Commentary
		carbonatites and also in the hydrothermally altered zone surrounding the carbonatites which is up to 2.5 km wide
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:* o *easting and northing of the drill hole collar* o *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* o *dip and azimuth of the hole* o *down hole length and interception depth* o *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.*	▪ *No drilling undertaken* ▪ *Locations of all stream sediment samples and of anomalies are shown on maps in this report.*
Data aggregation methods	▪ *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* ▪ *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* ▪ *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	▪ *No drilling undertaken, no cut off grades applied* ▪ *interpretations of the stream sediment data was undertaken and no cut off was applied to results.*

Criteria	JORC Code Explanation	Commentary
Relationship between mineralisation widths and intercept lengths	▪ *These relationships are particularly important in the reporting of Exploration Results.* ▪ *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* ▪ *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	▪ *No drilling undertaken*
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.*	▪ *No drilling undertaken; plan views of tenement geochemical sample locations are provided*
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.*	▪ *Reporting of all anomalous analytical values for the target commodities is included on the maps.* *Reporting groups for the REE elements* ***TREO (Total Rare Earth Oxide)** = La2O3 + CeO2 + Pr6O11 + Nd2O3 + Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Y2O3 + Lu2O3.* ***HREO (Heavy Rare Earth Oxide)** = Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3, + Y2O3 + Lu2O3* ***MREO (Magnet Rare Earth Oxide)** = Nd2O3 + Pr6O11 + Tb4O7 + Dy2O3.* ***NdPr** = Nd2O3 + Pr6O11.* ***NdPr% of TREO** = Nd2O3 + Pr6O11/TREO x 100.* ***HREO% of TREO**= HREO/TREO x 100.* *Element to oxide conversions were made using the James Cook University conversion factors; https://www.jcu.edu.au/advanced-*

<table>
<tr><th>Criteria</th><th>JORC Code Explanation</th><th>Commentary</th></tr>
<tr><td></td><td></td><td>analytical centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors)
<table>
<tr><th>Element</th><th>Factor</th><th>Oxide</th></tr>
<tr><td>La</td><td>1.1728</td><td>La_2O_3</td></tr>
<tr><td>Ce</td><td>1.2284</td><td>Ce_2O_3</td></tr>
<tr><td>Pr</td><td>1.2082</td><td>Pr_6O_{11}</td></tr>
<tr><td>Nd</td><td>1.1664</td><td>Nd_2O_3</td></tr>
<tr><td>Sm</td><td>1.1596</td><td>Sm_2O_3</td></tr>
<tr><td>Eu</td><td>1.1579</td><td>Eu_2O_3</td></tr>
<tr><td>Gd</td><td>1.1526</td><td>Gd_2O_3</td></tr>
<tr><td>Tb</td><td>1.1762</td><td>Tb_4O_7</td></tr>
<tr><td>Dy</td><td>1.1477</td><td>Dy_2O_3</td></tr>
<tr><td>Ho</td><td>1.1455</td><td>Ho_2O_3</td></tr>
<tr><td>Er</td><td>1.1435</td><td>Er_2O_3</td></tr>
<tr><td>Tm</td><td>1.1421</td><td>Tm_2O_3</td></tr>
<tr><td>Yb</td><td>1.1387</td><td>Yb_2O_3</td></tr>
<tr><td>Lu</td><td>1.1372</td><td>Lu_2O_3</td></tr>
<tr><td>Y</td><td>1.2699</td><td>Y_2O_3</td></tr>
</table>
Samples below detection limit were converted to half detection limit
Sample over the maximum limit of detection were converted to the detection limit.</td></tr>
<tr><td>Other substantive</td><td>▪ Other exploration data, if meaningful and material, should be reported including (but not limited to):</td><td>▪ No additional exploration data is known at present.</td></tr>
</table>

Criteria	JORC Code Explanation	Commentary
exploration data	*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.*	
Further work	▪ *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* ▪ *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	▪ *Additional work is infill stream sediment sampling followed by reconnaissance RC or diamond drilling and mapping of outcrop to define areas for resource drilling using a diamond drill.*