# ASX ANNOUNCEMENT
5 April 2022

## Highly Anomalous TREO Uncovered at Hines Hill REE Project

### HIGHLIGHTS

- Maiden reconnaissance soil sampling program at Hines Hill confirms presence of rare earths:
  - Maximum value of 550ppm TREO
  - 11 samples over 300ppm TREO
- The results correlate with magnetic features tentatively interpreted as possible carbonatite intrusives
  - Interpretation of magnetic data over the tenement has identified two intrusive bodies, covering an area of ~5km$^2$ in the northeast and ~2km$^2$ in the southwest, respectively
  - Carbonatite intrusives are a major source of REE deposits around the world
- The results are highly encouraging for a reconnaissance program, with the Company planning for a follow-up geochemical sampling program and gaining all approvals for a maiden AC drill program

White Cliff Minerals Limited (**White Cliff** or the **Company**) is pleased to provide an update following the reconnaissance soil sampling program as part of a first pass field trip to Hines Hill (**Figure 1**). In total, the Company took 81 samples, of which 11 are considered highly anomalous for rare earth elements (**REE**), with a peak value of 550ppm total rare earth oxide (**TREO**).

The results returned from roadside soil sampling along selected roads which traversed magnetic features tentatively interpreted by the Company as carbonatite intrusives. The secondary source target is clay hosted REE from supergene enrichment within the lateritic profile over the granite.

Commenting on the field trip, White Cliff Technical Director Ed Mead said:

"*Clearly, we have work to do, as it is still unclear the precise source of the exciting REE results. Australian Rare Earths (ASX:AR3) recently signed a JV at Woolgangie 200km to east of us, specifically targeting clay hosted REE sourced from the underlying rocks and supergene enriched by the lateritic process. The early indications from Hines Hill may indicate similar geological conditions and sources for the rare earths.*



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*"This also bodes well for the potential of our Diemals project area of 2,427km$^2$, where we are targeting similar deposit styles. The team will fast-track a follow-up geochemical program for Hines Hill, which will include gaining all approvals for a maiden aircore drill program to test subsurface REE grades".*


***Figure 1:*** *Li/REE Project location map in Western Australia*



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## Hine Hill Project

The Hines Hill REE project consists of a single tenement (**Figures 1 and 2**), within the wheatbelt region, located about 200km east of Perth on the Great Eastern Highway. The tenement area is 128Km$^2$ covering extensive grain growing properties.

The sampling targeted two magnetic features tentatively interpreted to be carbonatite intrusions, although they may represent differential non-carbonatite intrusives (**Figure 3**). The reconnaissance program indicates these do not outcrop and occupy lower areas of the topography.

Granitic and laterite outcrops form higher parts of the topography and uniformly reported lower analytical results.

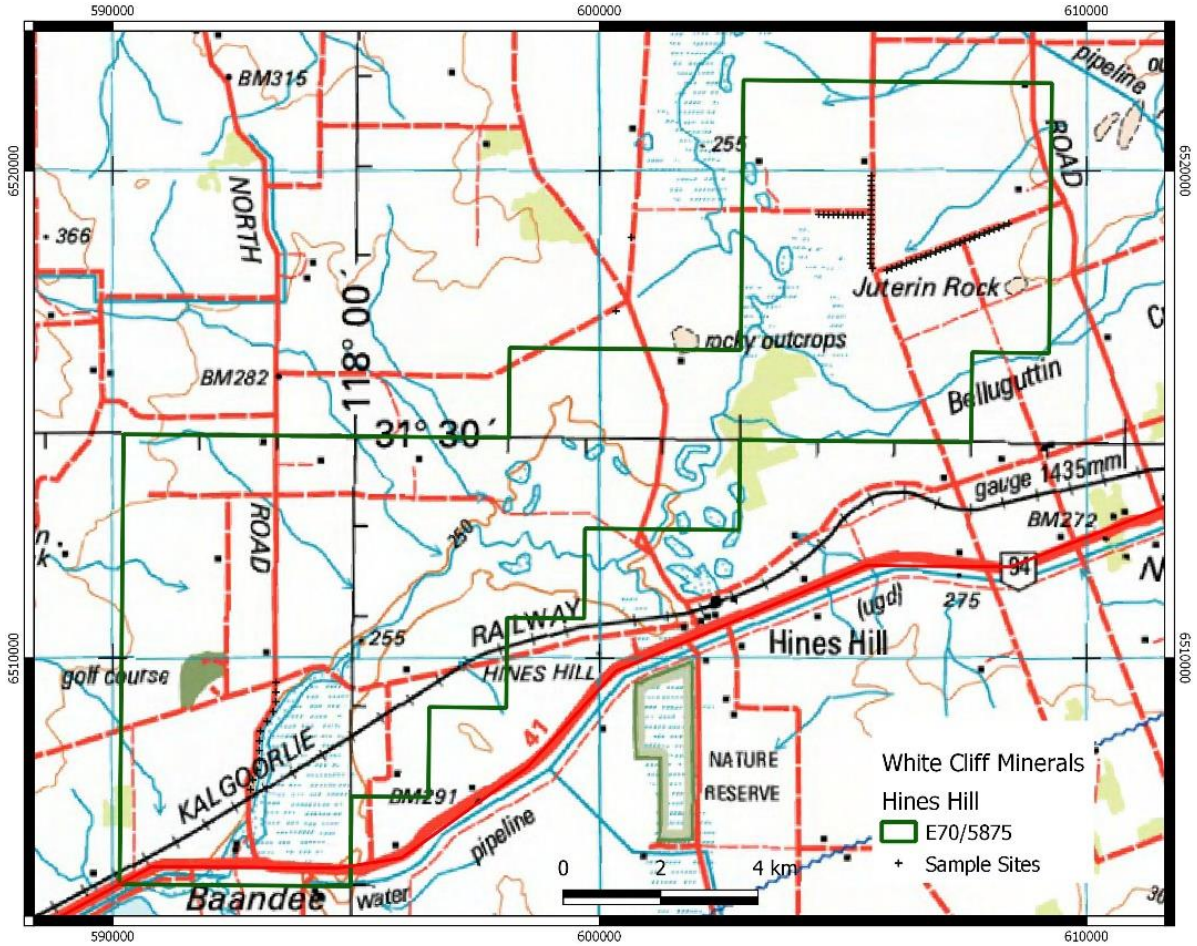


***Figure 2:*** *Hines Hill (WCN 100%) Li/REE project, tenement location and sampling sites*

## Geochemical Results Discussion

**Table 1** shows the results from samples collected from the roadside soil, rock chip and laterite sampling program, with results expressed as oxides in ppm. A simple Aqua Regia digest was used as the assay technique, which is not a full digest of

the sample, and may better indicate the more easily liberated REE component in the samples.

The elevated results also correspond precisely with the magnetic features identified in the northeast and in the southwest, strongly suggesting the two features are directly related, however additional sampling will be required to define whether this is solely co-incidental.

Analytical results (Table 1) with values >95$^{th}$ percent for each REO highlighted in bold, shows clear differences in component contents between the two areas The results of lithium analyses are consistent with a granitic source.

## Follow-up Program

An expanded geochemical sampling program will be undertaken over the project area, along with gaining all approvals for a maiden drill program.

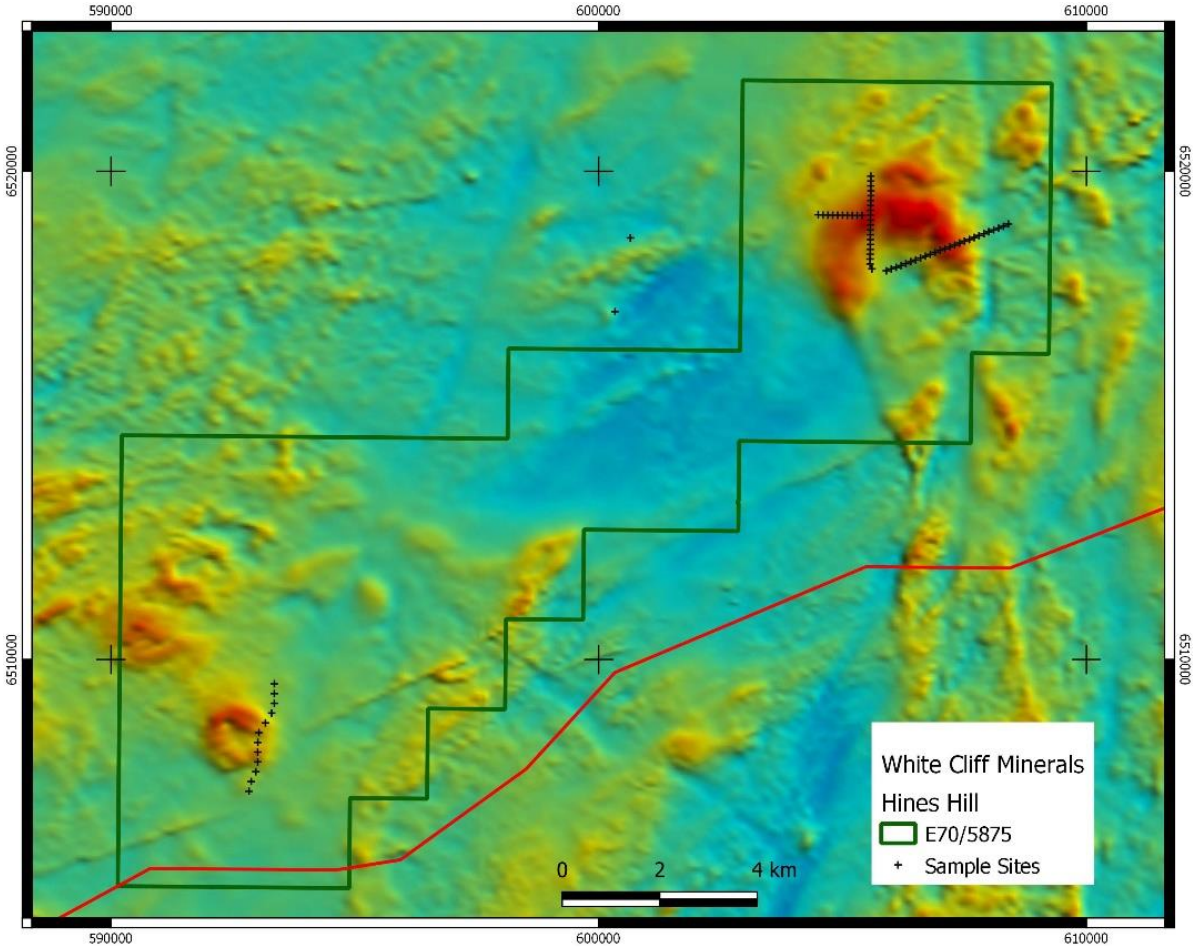


***Figure 3:*** *Hines Hill sampling locations overlaid on magnetic data.*



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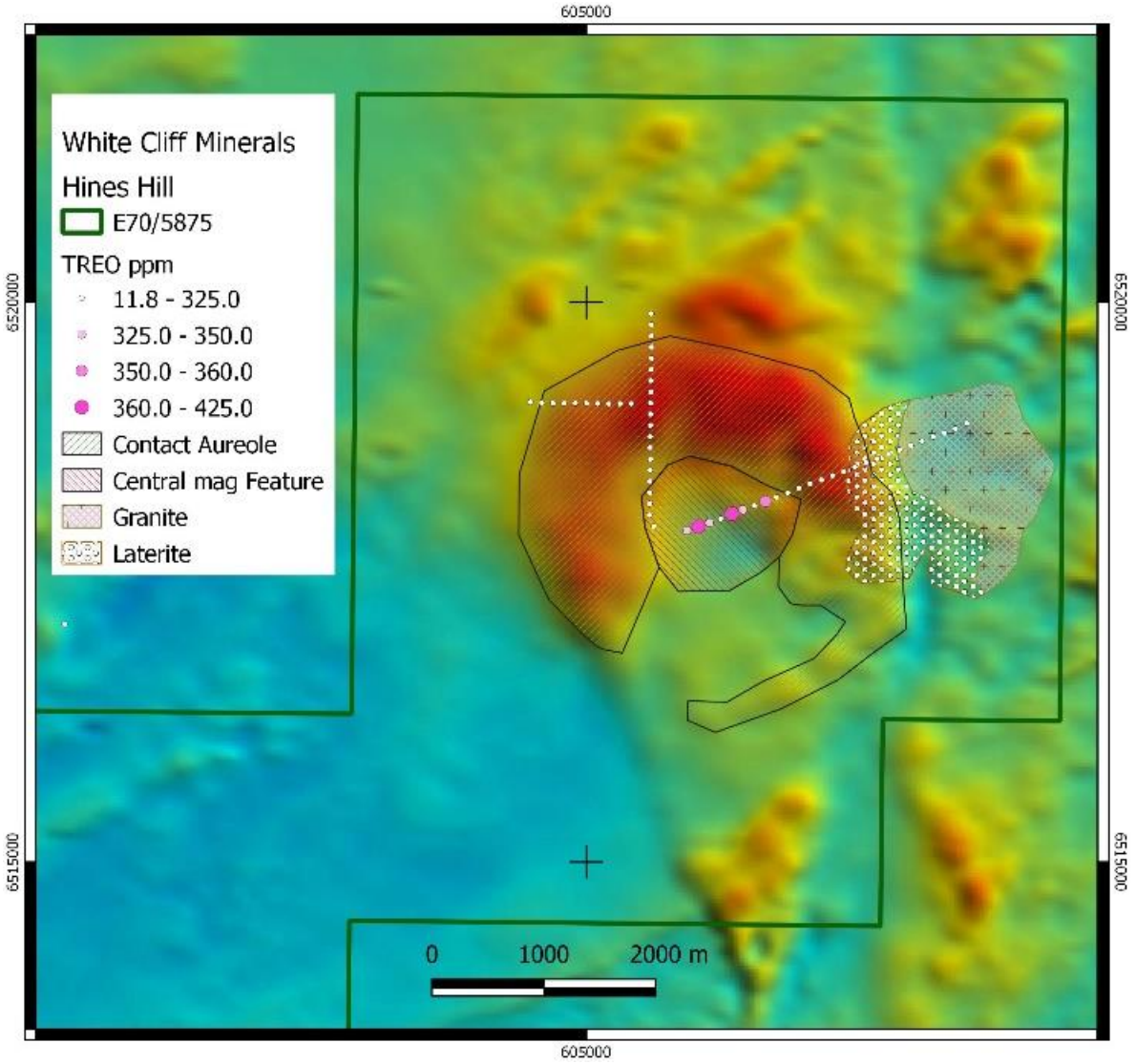


***Figure 4:*** *Hines Hill sampling results overlaid on magnetic data and geology, northeast area.*



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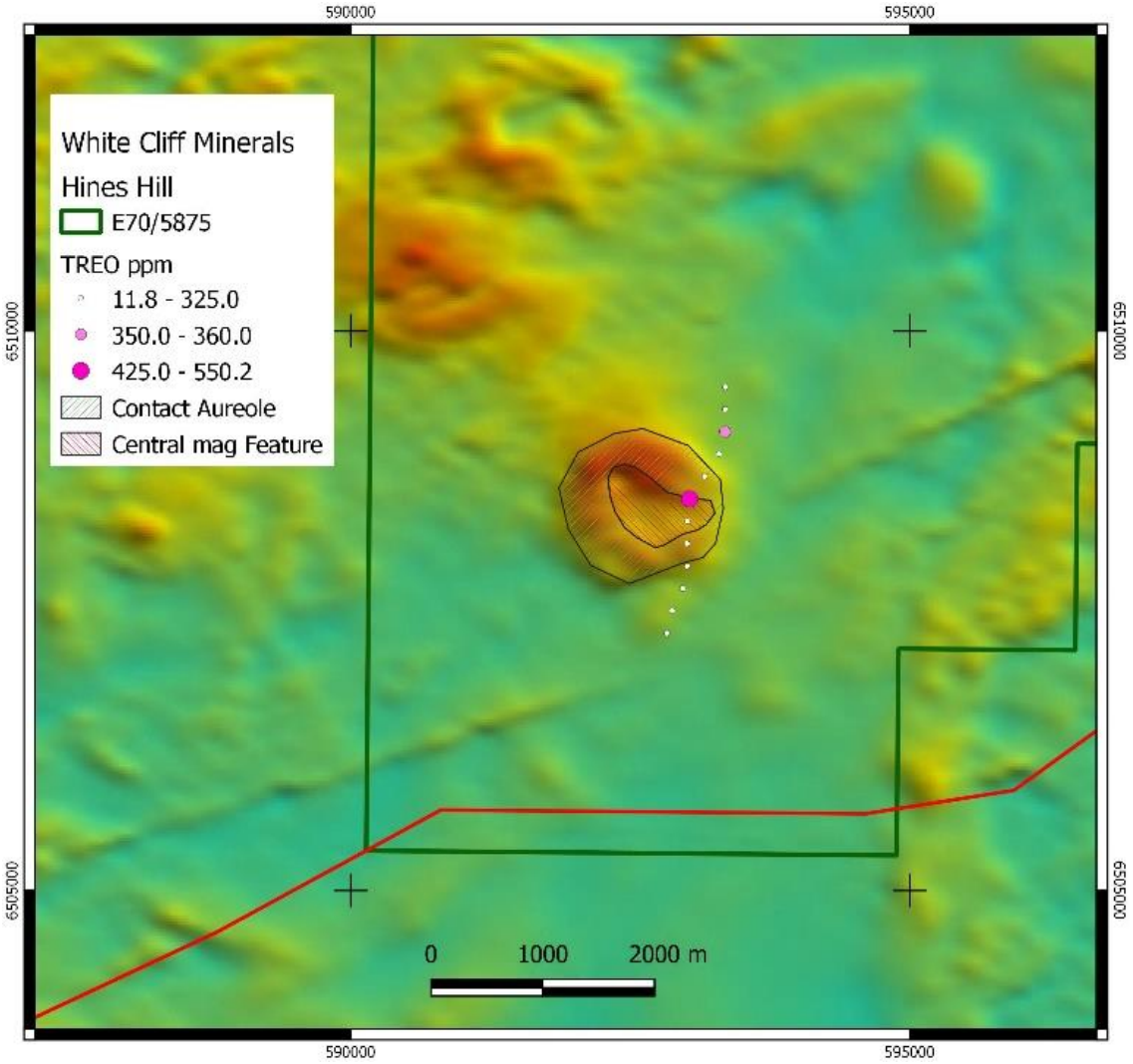


***Figure 5:*** *Hines Hill sampling results overlaid on magnetic data, southwest area.*

This announcement has been approved by the Board of White Cliff Minerals Limited.

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**Competent Persons Statement**

The Information in this report that relates to exploration results, mineral resources or ore reserves is based on information compiled by Mr Allan Younger, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Younger is an employee of the company. Mr Younger has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the `Australian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code). Mr Younger consents to the inclusion of this information in the form and context in which it appears in this report.

***Table 1:*** *Results of Rare Earth Element (REE) analyses expressed as REO ppm.*

| Field ID | Z50East | Z50North | Comments, Results all ppm unless labelled | | Li | CeO2 | La2O3 | Y2O3 | Dy2O3 | Er2O3 | Eu2O3 | Gd2O3 | Ho2O3 | Lu2O3 | Nd2O3 | Pr6O11 | Sm2O3 | Tb4O7 | Tm2O3 | Yb2O3 | TREO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HH001 | 608400 | 6518920 | Grey cream Gte sandy soil, Highest point of traverse | Northeast Area | 6 | 98.89 | 45.27 | 13.27 | 2.77 | 1.18 | 0.92 | 3.80 | 0.46 | 0.11 | 34.29 | 9.83 | 5.72 | 0.56 | 0.14 | 0.81 | 218.02 |
| HH002 | 608300 | 6518873 | Grey cream Gte sandy soil | | 11 | 104.91 | 46.68 | 15.18 | 3.16 | 1.35 | 1.03 | 4.26 | 0.52 | 0.13 | 36.97 | 10.48 | 6.27 | 0.62 | 0.16 | 1.00 | 232.70 |
| HH003 | 608200 | 6518832 | Grey cream Gte sandy soil | | 14.6 | 118.79 | 50.20 | 17.91 | 3.58 | 1.65 | 1.22 | 4.82 | 0.62 | 0.16 | 41.52 | 11.86 | 7.00 | 0.70 | 0.20 | 1.15 | 261.37 |
| HH004 | 608100 | 6518799 | Grey tan Gte sandy soil | | 5.8 | 65.84 | 28.73 | 9.65 | 1.85 | 0.86 | 0.64 | 2.56 | 0.33 | 0.09 | 22.80 | 6.42 | 3.78 | 0.36 | 0.10 | 0.60 | 144.62 |
| HH005 | 608000 | 6518760 | Grey tan Gte sandy soil | | 5.6 | 44.47 | 18.71 | 6.48 | 1.34 | 0.61 | 0.47 | 1.86 | 0.23 | 0.06 | 15.40 | 4.42 | 2.68 | 0.26 | 0.07 | 0.46 | 97.51 |
| HH006 | 607900 | 6518721 | Grey tan Gte sandy soil | | 4.2 | 20.82 | 11.11 | 3.66 | 0.75 | 0.33 | 0.24 | 1.02 | 0.13 | 0.03 | 8.83 | 2.53 | 1.57 | 0.15 | 0.04 | 0.23 | 51.42 |
| HH007 | 607800 | 6518682 | Grey tan Gte sandy soil | | 3.7 | 24.38 | 11.39 | 3.68 | 0.75 | 0.33 | 0.26 | 1.06 | 0.13 | 0.03 | 9.23 | 2.61 | 1.53 | 0.15 | 0.04 | 0.26 | 55.83 |
| HH008 | 607700 | 6518644 | Tan lat sandy soil | | 5.5 | 34.76 | 13.55 | 5.66 | 1.18 | 0.58 | 0.38 | 1.49 | 0.21 | 0.07 | 12.60 | 3.43 | 2.25 | 0.22 | 0.07 | 0.49 | 76.93 |
| HH009 | 607600 | 6518603 | Tan lat sandy soil | | 9.6 | 56.26 | 16.54 | 5.63 | 1.21 | 0.63 | 0.42 | 1.64 | 0.22 | 0.08 | 14.58 | 3.95 | 2.59 | 0.24 | 0.08 | 0.56 | 104.62 |
| HH010 | 607500 | 6518568 | Tan lat sandy soil, break of slope | | 7.6 | 46.31 | 20.23 | 6.91 | 1.37 | 0.68 | 0.51 | 1.99 | 0.25 | 0.08 | 17.03 | 4.82 | 2.92 | 0.28 | 0.09 | 0.58 | 104.04 |
| HH011 | 607400 | 6518529 | Tan lat sandy soil | | 8.3 | 39.43 | 16.71 | 6.03 | 1.28 | 0.63 | 0.45 | 1.71 | 0.22 | 0.07 | 14.75 | 4.01 | 2.68 | 0.24 | 0.08 | 0.53 | 88.83 |
| HH012 | 607300 | 6518487 | Tan lat sandy soil | | 7.3 | 45.57 | 18.30 | 6.83 | 1.41 | 0.67 | 0.50 | 1.88 | 0.25 | 0.08 | 16.04 | 4.36 | 2.85 | 0.28 | 0.09 | 0.57 | 99.68 |
| HH013 | 607200 | 6518451 | grey tan gte sandy soil | | 10.2 | 49.26 | 22.17 | 6.29 | 1.25 | 0.56 | 0.46 | 1.64 | 0.21 | 0.06 | 15.40 | 4.52 | 2.56 | 0.23 | 0.07 | 0.43 | 105.10 |
| HH014 | 607100 | 6518414 | red tan sandy soil | | 8.3 | 55.77 | 24.04 | 7.77 | 1.54 | 0.76 | 0.57 | 2.16 | 0.27 | 0.08 | 19.25 | 5.39 | 3.24 | 0.32 | 0.09 | 0.56 | 121.80 |
| HH015 | 607000 | 6518379 | red tan sandy soil | | 5.4 | 42.13 | 18.00 | 6.22 | 1.34 | 0.63 | 0.53 | 1.83 | 0.24 | 0.07 | 16.68 | 4.53 | 2.92 | 0.26 | 0.08 | 0.52 | 95.98 |
| HH016 | 606900 | 6518340 | red tan sandy soil, on to flats | | 5.8 | 44.47 | 17.83 | 5.97 | 1.24 | 0.57 | 0.48 | 1.76 | 0.22 | 0.06 | 15.63 | 4.35 | 2.74 | 0.24 | 0.07 | 0.45 | 96.09 |
| HH017 | 606800 | 6518297 | red tan sandy soil | | 6.9 | 88.32 | 34.95 | 12.52 | 2.65 | 1.22 | 1.02 | 3.75 | 0.47 | 0.12 | 32.89 | 8.93 | 5.82 | 0.52 | 0.14 | 0.93 | 194.26 |
| HH018 | 606700 | 6518259 | red tan sandy soil | | 11.8 | 132.67 | 57.00 | 18.79 | 3.83 | 1.76 | 1.32 | 5.22 | 0.66 | 0.17 | 47.36 | 13.35 | 7.92 | 0.75 | 0.22 | 1.32 | 292.34 |
| HH019 | 606600 | 6518223 | Tan sandy soil | | 17.1 | **161.53** | **66.26** | 23.49 | 4.67 | 2.16 | **1.66** | 6.40 | 0.81 | 0.24 | 54.94 | **15.65** | **9.46** | **0.90** | 0.27 | **1.72** | **350.16** |
| HH020 | 606500 | 6518182 | Tan sandy soil | | 13.5 | 156.01 | 59.23 | 19.24 | 3.88 | 1.81 | 1.33 | 5.42 | 0.68 | 0.19 | 47.36 | 13.65 | 7.94 | 0.78 | 0.24 | 1.40 | **319.14** |
| HH023 | 606400 | 6518148 | Tan sandy soil | | 21.3 | 159.08 | **65.32** | 21.97 | 4.36 | 2.02 | 1.47 | 5.77 | 0.77 | 0.22 | 51.44 | 14.68 | 8.62 | 0.83 | 0.26 | 1.62 | **338.43** |
| HH024 | 606300 | 6518110 | Tan sandy soil | | 19.6 | **165.83** | **67.91** | **25.91** | **4.75** | **2.28** | **1.68** | **6.42** | 0.84 | **0.25** | **56.92** | **15.89** | **9.53** | 0.90 | **0.30** | **1.81** | **361.22** |
| HH025 | 606200 | 6518068 | Tan sandy soil | | 20.1 | 142.49 | 60.05 | 21.65 | 4.22 | 2.00 | 1.40 | 5.49 | 0.73 | 0.23 | 48.52 | 13.77 | 8.20 | 0.79 | 0.25 | 1.57 | **311.36** |
| HH026 | 606100 | 6518031 | Tan sandy soil | | 18.8 | 154.16 | **65.09** | 24.38 | 4.56 | 2.25 | **1.55** | 6.22 | 0.82 | 0.23 | 52.72 | 15.04 | 8.91 | **0.91** | 0.28 | **1.72** | **338.84** |



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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HH027 | 606000 | 6517998 | Tan sandy soil | | 19.6 | **163.99** | **68.26** | **25.40** | **5.11** | **2.50** | **1.60** | **7.08** | **0.93** | **0.26** | **58.20** | **16.73** | **10.12** | **0.98** | **0.33** | **1.95** | **363.45** |
| HH028 | 605900 | 6517961 | Tan silty soil, End of traverse | | 18.6 | 159.08 | 64.86 | 23.37 | 4.61 | 2.24 | **1.51** | **6.51** | 0.85 | 0.24 | **56.10** | **16.19** | **9.67** | **0.91** | **0.30** | **1.73** | **348.16** |
| HH029 | 605603 | 6518000 | Grey tan sandy soil, Neening Rd | | 18.4 | 138.20 | 52.54 | 19.37 | 3.94 | 1.88 | 1.22 | 5.43 | 0.70 | 0.20 | 44.56 | 12.93 | 7.95 | 0.76 | 0.24 | 1.44 | 291.36 |
| HH030 | 605564 | 6518100 | Cream tan clayey soil | | 16.6 | 101.10 | 40.93 | 14.22 | 2.93 | 1.43 | 0.91 | 4.10 | 0.52 | 0.15 | 33.01 | 9.75 | 5.82 | 0.58 | 0.18 | 1.12 | 216.76 |
| HH031 | 605565 | 6518200 | Cream tan clayey soil, | | 15.6 | 84.27 | 35.77 | 12.43 | 2.50 | 1.23 | 0.77 | 3.56 | 0.46 | 0.12 | 28.34 | 8.31 | 4.96 | 0.48 | 0.15 | 0.94 | 184.30 |
| HH032 | 605566 | 6518300 | Cream tan clayey soil | | 17.2 | 95.45 | 41.40 | 14.29 | 2.89 | 1.39 | 0.90 | 4.07 | 0.52 | 0.14 | 33.01 | 9.62 | 5.84 | 0.57 | 0.18 | 1.05 | 211.31 |
| HH033 | 605568 | 6518400 | Grey cream silty soil | | 16.2 | 81.44 | 36.24 | 12.57 | 2.48 | 1.21 | 0.79 | 3.50 | 0.45 | 0.12 | 28.58 | 8.29 | 5.08 | 0.48 | 0.15 | 0.87 | 182.26 |
| HH034 | 605569 | 6518500 | Grey cream silty soil | | 20.5 | 105.52 | 45.50 | 16.32 | 3.21 | 1.52 | 1.04 | 4.52 | 0.58 | 0.16 | 36.86 | 10.69 | 6.49 | 0.62 | 0.20 | 1.15 | 234.37 |
| HH035 | 605572 | 6518600 | Grey cream silty soil | | 18.8 | 91.64 | 41.63 | 14.48 | 2.88 | 1.40 | 0.92 | 4.11 | 0.53 | 0.13 | 33.13 | 9.57 | 5.87 | 0.56 | 0.18 | 1.03 | 208.05 |
| HH036 | 605569 | 6518700 | Grey cream silty soil | | 18.6 | 87.34 | 38.59 | 13.08 | 2.61 | 1.26 | 0.82 | 3.75 | 0.48 | 0.13 | 30.56 | 8.99 | 5.38 | 0.53 | 0.16 | 0.93 | 194.59 |
| HH037 | 605570 | 6518800 | Grey cream silty soil | | 16.2 | 94.96 | 41.52 | 14.03 | 2.81 | 1.34 | 0.92 | 4.03 | 0.52 | 0.13 | 33.01 | 9.68 | 5.76 | 0.57 | 0.17 | 1.02 | 210.47 |
| HH038 | 605572 | 6518900 | Grey cream silty soil | | 16.6 | 95.45 | 44.10 | 14.41 | 2.89 | 1.37 | 0.96 | 4.14 | 0.53 | 0.15 | 35.11 | 10.26 | 6.05 | 0.58 | 0.17 | 1.01 | 217.18 |
| HH039 | 605573 | 6519000 | Grey cream silty soil | | 15.2 | 104.91 | 42.92 | 14.73 | 3.06 | 1.48 | 0.96 | 4.35 | 0.56 | 0.15 | 34.99 | 10.16 | 6.18 | 0.61 | 0.19 | 1.11 | 226.37 |
| HH040 | 605573 | 6519100 | Grey cream silty soil | | 16 | 102.94 | 42.81 | 14.60 | 3.10 | 1.48 | 0.95 | 4.38 | 0.56 | 0.16 | 34.41 | 10.00 | 6.24 | 0.61 | 0.19 | 1.12 | 223.53 |
| HH043 | 605576 | 6519200 | Grey cream silty soil | | 15.2 | 98.89 | 39.88 | 13.46 | 2.78 | 1.32 | 0.89 | 3.92 | 0.50 | 0.14 | 31.96 | 9.35 | 5.65 | 0.56 | 0.18 | 1.01 | 210.46 |
| HH044 | 605575 | 6519300 | Grey cream silty soil | | 17.2 | 113.14 | 49.37 | 16.00 | 3.37 | 1.62 | 1.13 | 4.89 | 0.60 | 0.17 | 40.12 | 11.72 | 6.97 | 0.68 | 0.20 | 1.22 | 251.22 |
| HH045 | 605579 | 6519400 | Grey cream silty soil | | 18.4 | 110.31 | 42.46 | 14.92 | 3.10 | 1.50 | 0.97 | 4.32 | 0.55 | 0.16 | 34.88 | 10.19 | 6.27 | 0.61 | 0.19 | 1.14 | 231.57 |
| HH046 | 605581 | 6519500 | reddish cream silty soil, salmon gums | | 21.8 | 119.40 | 43.63 | 15.94 | 3.28 | 1.62 | 1.06 | 4.61 | 0.60 | 0.17 | 36.97 | 10.61 | 6.67 | 0.67 | 0.21 | 1.29 | 246.75 |
| HH047 | 605582 | 6519600 | reddish cream silty soil, salmon gums | | 18.6 | 113.63 | 41.17 | 15.24 | 3.24 | 1.55 | 0.98 | 4.38 | 0.58 | 0.16 | 33.94 | 9.94 | 6.27 | 0.63 | 0.20 | 1.21 | 233.12 |
| HH048 | 605580 | 6519700 | reddish cream silty soil, salmon gums | | 21.5 | 131.44 | 45.62 | 16.83 | 3.66 | 1.75 | 1.09 | 4.93 | 0.67 | 0.18 | 38.72 | 11.34 | 7.02 | 0.72 | 0.23 | 1.40 | 265.62 |
| HH049 | 605580 | 6519800 | reddish cream silty soil, salmon gums | | 21.4 | 129.60 | 48.20 | 18.29 | 3.86 | 1.85 | 1.20 | 5.33 | 0.69 | 0.20 | 41.17 | 11.77 | 7.46 | 0.77 | 0.24 | 1.44 | 272.05 |
| HH050 | 605580 | 6519900 | reddish cream silty soil, salmon gums, | | 17.6 | 123.45 | 48.67 | 19.18 | 3.90 | 1.90 | 1.19 | 5.35 | 0.71 | 0.19 | 41.76 | 12.08 | 7.44 | 0.76 | 0.24 | 1.42 | 268.25 |
| HH051 | 605400 | 6519095 | Grey tan silty soil, Bennetts rd | | 14.4 | 91.39 | 40.81 | 13.33 | 2.77 | 1.29 | 0.88 | 3.88 | 0.50 | 0.13 | 32.08 | 9.44 | 5.64 | 0.54 | 0.17 | 0.99 | 203.83 |
| HH052 | 605300 | 6519095 | Grey tan silty soil, salmon gums | | 14.1 | 93.48 | 43.86 | 15.05 | 3.10 | 1.50 | 0.98 | 4.46 | 0.55 | 0.15 | 35.34 | 10.16 | 6.29 | 0.61 | 0.19 | 1.08 | 216.81 |
| HH053 | 605200 | 6519095 | Grey tan silty soil, salmon gums | | 12.2 | 82.06 | 40.81 | 13.84 | 2.81 | 1.36 | 0.91 | 4.02 | 0.51 | 0.14 | 33.13 | 9.61 | 5.82 | 0.56 | 0.18 | 1.01 | 196.76 |
| HH054 | 605100 | 6519097 | Grey tan silty soil, salmon gums | | 12.9 | 80.58 | 35.18 | 12.31 | 2.56 | 1.21 | 0.78 | 3.56 | 0.46 | 0.12 | 28.34 | 8.18 | 5.03 | 0.49 | 0.15 | 0.88 | 179.85 |



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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HH055 | 605000 | 6519098 | Orange cream silty soil, salmon gums | | 18.5 | 123.45 | 46.56 | 18.16 | 3.74 | 1.77 | 1.11 | 5.00 | 0.67 | 0.19 | 39.07 | 11.37 | 7.22 | 0.73 | 0.23 | 1.36 | 260.64 |
| HH056 | 604900 | 6519099 | Grey tan silty soil, salmon gums | | 15.9 | 103.55 | 41.05 | 15.37 | 3.14 | 1.50 | 0.97 | 4.28 | 0.57 | 0.16 | 34.06 | 9.83 | 6.11 | 0.60 | 0.20 | 1.18 | 222.58 |
| HH057 | 604800 | 6519099 | Grey cream silty soil, salmon gums | | 13.9 | 101.22 | 45.04 | 16.95 | 3.24 | 1.64 | 1.06 | 4.60 | 0.60 | 0.16 | 36.74 | 10.55 | 6.52 | 0.63 | 0.20 | 1.21 | 230.36 |
| HH058 | 604700 | 6519100 | Reddish cream silty soil, salmon gums | | 11.7 | 71.49 | 28.73 | 10.69 | 2.11 | 1.08 | 0.64 | 2.96 | 0.39 | 0.11 | 23.09 | 6.75 | 4.13 | 0.42 | 0.13 | 0.79 | 153.54 |
| HH059 | 604600 | 6519103 | Grey tan silty soil | | 17.5 | 117.80 | 49.02 | 19.62 | 3.82 | 1.92 | 1.12 | 5.20 | 0.71 | 0.19 | 40.82 | 11.72 | 7.29 | 0.75 | 0.24 | 1.42 | 261.65 |
| HH060 | 604500 | 6519110 | Grey tan silty soil, end | | 16.8 | 111.17 | 48.55 | 18.99 | 3.68 | 1.80 | 1.12 | 4.97 | 0.68 | 0.19 | 40.47 | 11.68 | 7.26 | 0.69 | 0.22 | 1.33 | 252.80 |
| HH063 | 593349 | 6509500 | Grey tan sandy soil, Baandee Nth Rd | Southwest Area | 16.2 | 130.82 | 53.60 | 21.91 | 4.09 | 1.92 | 0.91 | 5.46 | 0.74 | 0.21 | 44.44 | 12.20 | 7.49 | 0.75 | 0.25 | 1.43 | 286.22 |
| HH064 | 593348 | 6509300 | Grey tan sandy clay soil | | 12.4 | 126.53 | 53.48 | 19.56 | 3.65 | 1.72 | 0.89 | 5.15 | 0.65 | 0.18 | 43.16 | 11.70 | 7.13 | 0.69 | 0.21 | 1.21 | 275.90 |
| HH065 | 593348 | 6509100 | Grey cream sandy clay soil | | 16.5 | 156.62 | **69.66** | **27.05** | **4.88** | **2.34** | 1.17 | **6.60** | **0.88** | 0.24 | **56.10** | 15.34 | 9.33 | 0.90 | 0.28 | 1.67 | **353.09** |
| HH066 | 593292 | 6508900 | Grey cream sandy clay soil | | 9 | 118.05 | 41.05 | 15.56 | 3.21 | 1.48 | 0.78 | 4.24 | 0.56 | 0.16 | 35.58 | 9.77 | 6.22 | 0.60 | 0.19 | 1.11 | 238.55 |
| HH067 | 593164 | 6508700 | Grey cream sandy clay soil | | 5.8 | 70.88 | 25.10 | 8.44 | 1.80 | 0.79 | 0.48 | 2.44 | 0.32 | 0.09 | 21.99 | 5.98 | 3.72 | 0.34 | 0.10 | 0.58 | 143.05 |
| HH068 | 593031 | 6508500 | Grey tan sandy clay soil | | **48.4** | **380.80** | 53.60 | **28.06** | **5.11** | **2.49** | 1.10 | 6.15 | **0.93** | **0.27** | 47.24 | 12.69 | 8.62 | **0.98** | **0.32** | **1.86** | **550.21** |
| HH069 | 593010 | 6508300 | Grey tan sandy clay soil | | 15.2 | 118.91 | 48.44 | 18.92 | 3.49 | 1.62 | 0.94 | 4.82 | 0.62 | 0.18 | 40.94 | 10.90 | 7.06 | 0.65 | 0.20 | 1.17 | 258.86 |
| HH070 | 593007 | 6508100 | Red tan sandy clay soil | | 10.6 | 116.94 | 39.99 | 15.24 | 3.18 | 1.46 | 0.85 | 4.31 | 0.56 | 0.17 | 37.21 | 10.00 | 6.54 | 0.61 | 0.19 | 1.08 | 238.33 |
| HH071 | 593008 | 6507900 | Red tan sandy clay soil | | 9.8 | 102.20 | 36.59 | 13.14 | 2.73 | 1.25 | 0.69 | 3.73 | 0.48 | 0.13 | 31.96 | 8.74 | 5.46 | 0.52 | 0.16 | 0.89 | 208.68 |
| HH072 | 592968 | 6507700 | Red tan sandy clay soil | | 12.4 | 127.75 | 47.15 | 16.89 | 3.50 | 1.62 | 0.98 | 4.92 | 0.62 | 0.18 | 42.34 | 11.49 | 7.20 | 0.66 | 0.21 | 1.19 | 266.71 |
| HH073 | 592874 | 6507500 | Red tan sandy clay soil | | 10.2 | 96.55 | 42.10 | 14.29 | 2.74 | 1.32 | 0.78 | 4.01 | 0.50 | 0.14 | 35.23 | 9.52 | 6.03 | 0.53 | 0.16 | 0.95 | 214.86 |
| HH074 | 592827 | 6507300 | Red tan sandy clay soil | | 13.6 | 146.79 | 57.12 | 18.99 | 3.84 | 1.75 | 1.07 | 5.44 | 0.67 | 0.20 | 48.64 | 13.23 | 8.14 | 0.73 | 0.22 | 1.28 | **308.12** |
| MTX 14026 | 607800 | 6518682 | Gte float chips | | 0.9 | 146.18 | 48.20 | 9.58 | 1.80 | 0.82 | 0.75 | 2.89 | 0.31 | 0.07 | 31.84 | 9.80 | 4.82 | 0.40 | 0.10 | 0.59 | 258.16 |
| MTX 14027 | 607700 | 6518644 | lat nods | | 5.9 | 34.27 | 6.93 | 5.00 | 1.19 | 0.67 | 0.35 | 1.34 | 0.22 | 0.11 | 8.98 | 2.38 | 1.83 | 0.22 | 0.10 | 0.77 | 64.37 |
| MTX 14028 | 607600 | 6518603 | lat nods | | 8.5 | 30.96 | 7.42 | 4.09 | 0.97 | 0.54 | 0.32 | 1.19 | 0.18 | 0.09 | 8.67 | 2.21 | 1.69 | 0.18 | 0.08 | 0.59 | 59.17 |
| MTX 14029 | 607400 | 6518529 | lat nods | | 11.1 | 41.03 | 6.11 | 3.54 | 0.93 | 0.49 | 0.30 | 1.11 | 0.17 | 0.09 | 7.52 | 1.95 | 1.49 | 0.17 | 0.08 | 0.57 | 65.54 |
| MTX 14030 | 605565 | 6518200 | Gte float | | 1.4 | 5.11 | 3.48 | 0.72 | 0.14 | 0.08 | 0.00 | 0.16 | 0.03 | 0.01 | 1.28 | 0.43 | 0.25 | 0.02 | 0.01 | 0.09 | 11.82 |
| MTX 14031 | 600336 | 6517125 | lat nods | | 2 | 72.23 | 2.90 | 0.86 | 0.27 | 0.13 | 0.09 | 0.31 | 0.04 | 0.02 | 2.68 | 0.77 | 0.46 | 0.07 | 0.02 | 0.13 | 80.99 |
| MTX 14032 | 600649 | 6518635 | lat nods | | 2.7 | 54.30 | 2.94 | 1.70 | 0.38 | 0.20 | 0.11 | 0.44 | 0.07 | 0.03 | 3.16 | 0.83 | 0.58 | 0.08 | 0.03 | 0.22 | 65.07 |



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# APPENDIX 1.

The following Tables are provided to ensure compliance with the JORC Code (2012 Edition) requirements for the reporting of Exploration Results at Hines Hill

## Section 1: Sampling Techniques and Data

(Criteria in this section applies 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.* | 75 soil, laterite and rock chip samples were collected from roadsides within Hines Hill tenement. |
| | *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* | Reconnaissance soil sampling. |
| | *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.* | Soils sieved -2mm, nominal weight 300gm from 15-20cm depths. |
| **Drilling techniques** | *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic etc) and details (e.g. core diameter, triple of standard tube, depth of diamond tails, face-sampling bit or other type, whether core is orientated and if so, by what method, etc).* | No drilling is being reported. |
| **Drill sample recovery** | *Method of recording and assessing core and chip sample recoveries and results assessed.* | No drilling is being reported. |
| | *Measures taken to maximise sample recovery and ensure representative nature of the samples.* | No drilling is being reported. |
| | *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 is being reported. |
| **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.* | Sample type and landform/regolith settings were recorded. No drilling reported. |
| | *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* | Geochemical sample from regolith. |



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| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | *The total length and percentage of the relevant intersections logged.* | Geochemical sample from regolith. |
| **Sub-sampling techniques and sample preparation** | *If core, whether cut or sawn and whether quarter, half or all core taken.* | No sub-sampling has been undertaken. |
| | *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.* | No sub-sampling has been undertaken. |
| | *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.* | No sub-sampling has been undertaken. |
| | *Whether sample sizes are appropriate to the grain size of the material being sampled.* | The sample size of 0.3 kilograms is appropriate and representative of the grain size and mineralisation style of the deposit. |
| **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.*<br>*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.* | Rock chip samples have been submitted to ALS Laboratories for analysis by Aqua Regia digest using method ME-MS41L™ .<br>Elements were: Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, Pd, Pt, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr.<br>REE analysed using MS41L-REE™, elements were: Dy, Er, Eu, Gd, Ho, Lu, Nd, Pr, Sm, Tb, Tm & Yb. |
| | *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.* | CRM & field duplicated samples were inserted every 20 samples for QA/QC control. |
| **Verification of sampling and assaying** | *The verification of significant intersections by either independent or alternative company personnel.* | No assays being reported, with assay results once returned will be reviewed by 2 company personnel. |
| | *The use of twinned holes.* | No drilling being reported |
| | *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* | All field data were collected manually and transferred to spreadsheets. Sample location coordinates were determined and recorded using a handheld GPS. |
| | *Discuss any adjustment to assay data.* | The REE assay data were converted from reported elemental assays to the equivalent oxide compound as applicable to rare earth oxides. The oxides were calculated from the element according to the following factors:<br>• $CeO_2$ 1.1526<br>• $La_2O_3$ 1.1728<br>• $Nd_2O_3$ 1.1664<br>• $Pr_6O_{11}$ 1.2082<br>• $Dy_2O_3$ 1.1477<br>• $Er_2O_3$ 1.1435<br>• $Eu_2O_3$ 1.1579<br>• $Gd_2O_3$ 1.1526<br>• $Ho_2O_3$ 1.1455<br>• $Lu_2O_3$ 1.1371<br>• $Sm_2O_3$ 1.1596<br>• $Tb_2O_3$ 1.1762<br>• $Tm_2O_3$ 1.1421 |


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| | | |
|---|---|---|
| | | • $Y_2O_3$ 1.2699<br>• $Yb_2O_3$ 1.1387 |
| **Location of data points** | *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* | All locations determined by handheld GPS using GDA94 datum in UTM Zone 50. |
| | *Specification of the grid system used.* | |
| | *Quality and adequacy of topographic control.* | |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| **Data spacing and distribution** | *Data spacing for reporting of Exploration Results.* | Sample spacing was 100m along roadside verges |
| | *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.* | Sampling type and spacing not designed to be used in an MRE. |
| | *Whether sample compositing has been applied.* | No compositing has been applied. |
| **Orientation of data in relation to geological structure** | *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* | Sampling was of a reconnaissance nature only and was not designed to achieve unbiased sampling. No drilling reported. |
| | *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 has been undertaken and orientation of structures is unknown. |
| **Sample security** | *The measures taken to ensure sample security.* | All soil, laterite and rock chip samples were placed in plastic or calico bags, taken to Perth and delivered to ALS laboratory by White Cliff staff. |
| **Audits or reviews** | *The results of any audits or reviews of sampling techniques and data.* | No audits or reviews have been undertaken by White Cliff staff, and unknown for CSIRO. |


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## 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 Hines Hill exploration license E70/5875 is held 100% by Magnet Resource Company Pty Ltd, a 100% subsidiary of White Cliff Minerals Limited.<br>The tenement was granted on 21/10/21, has annual expenditure of $44,000 and the tenement is in good standing. |
| | *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.* | A land access agreement is to be signed with the landowners. |
| **Exploration done by other parties** | *Acknowledgment and appraisal of exploration by other parties.* | No previous exploration. |
| **Geology** | *Deposit type, geological setting and style of mineralisation.* | Potential Carbonatite within Archean terrane. |
| **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:*<br>*easting and northing of the drill hole collar*<br>*elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>*dip and azimuth of the hole*<br>*down hole length and interception depth*<br>*hole length.* | No drilling being reported. |
| | *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.* | |
| **Data aggregation methods** | *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg. cutting of high grades) and cut-off grades are usually Material and should be stated.* | No aggregation methods have been used. |
| | *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.* | No aggregation methods have been used. |
| | *The assumptions used for any reporting of metal equivalent values should be clearly stated.* | No metal equivalent values are being used. |



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| 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 mineralisation widths have been reported. |
| **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 drillhole collar locations and appropriate sectional views.* | Location maps of projects within the release with relevant exploration information contained. |
| **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.* | The reporting of exploration results is considered balanced by the competent person. |
| **Other substantive exploration data** | *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.* | No other exploration to report. |
| **Further work** | *The nature and scale of planned further work (eg. tests for lateral extensions or depth extensions or large-scale step-out drilling).*<br><br>*Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.* | Further geochemical sampling, and gaining approvals for drilling of potential targets. |