

## INVESTOR UPDATE

### ASX RELEASE

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ASX: LKY

### SHARES ON ISSUE

146,666,665

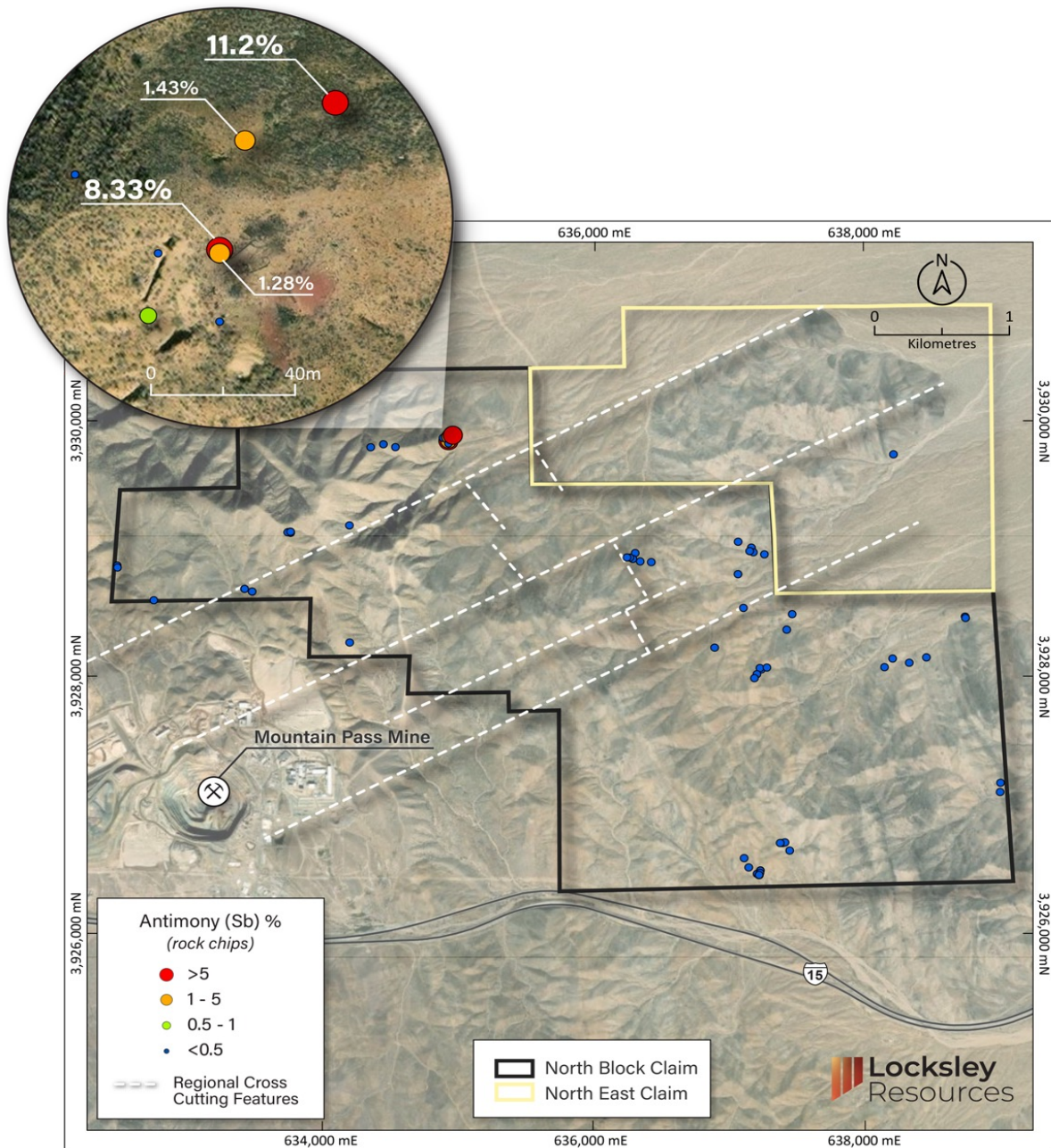
## 11.2% ANTIMONY (SB) RESULT AT THE MOJAVE PROJECT

### Highlights:

- Locksley's Exploration team has been mobilised to follow-up on the high-grade Desert Antimony Mine results in the North Block at the Mojave Project
  - The Desert Antimony Mine returned rock chip samples as high as 11.2% & 8.33% Antimony (Sb)
- High-grade antimony is represented by historic underground mine workings on quartz-stibnite (Sb<sub>2</sub>S<sub>3</sub>) veins
- Mindat.org outlines historic production ranged from 100 to 1,000 tons with grades ranging from 15 to 20% Sb at the Desert Antimony Mine
- Antimony is listed as a critical mineral by the U.S. Department of Interior as it is used in a wide variety of military, energy, industrial and consumer applications
- USA has no domestic primary mined source of Antimony and China has announced it will cut off the global supply of antimony from 15 September 2024
- Additionally, a sample to the south-east of the Desert Antimony Mine assayed at 4.12% Cu

Locksley Resources Limited (ASX:LKY) ("Locksley" or "Company") is pleased to announce results of a holistic review of mineral potential outside of the known high-grade REE mineralisation within the Mojave Project, California. The holistic review identified six (6) rock chip samples grading >0.5% Sb, including two samples grading 11.2% Sb and 8.3% Sb. The samples had been collected from the historic Desert Antimony Mine, located on the North blocks, during reconnaissance sampling for REEs. In addition, four (4) samples returned copper >0.5%, including one sample assaying 4.12% Cu to the south-east of the Desert Antimony Mine.

Over the last 12 months, Locksley Resources have completed three surface sampling programs at the Mojave Project, CA, located 45 minutes from Las Vegas. A total of 223 rock chip samples and 43 stream sediment samples have been collected throughout the Mojave Project's El Campo Lease, North Block, North-East Block, and South Block. Given the proximity of the Mountain Pass REE Mine rare-earth elements (REE) have been the main focus of exploration during these programs. As part of a holistic multi-commodity review, the Company has revealed significant antimony and copper mineralisation at the Mojave Project. The high-grade antimony is represented by historic underground mine workings on quartz-stibnite (Sb<sub>2</sub>S<sub>3</sub>) veins, whilst the copper anomalism has a gold-silver-bismuth association suggesting of a felsic intrusive related source.



**Figure 1.** Mojave Project North Block Claims with rockchip results by Antimony %

From the 223 rockchip samples, six samples returned antimony grades of above 0.8% Sb. Two samples returned assay results of 1.3% and 1.4% Sb, while the best grades returned two rockchip samples at:

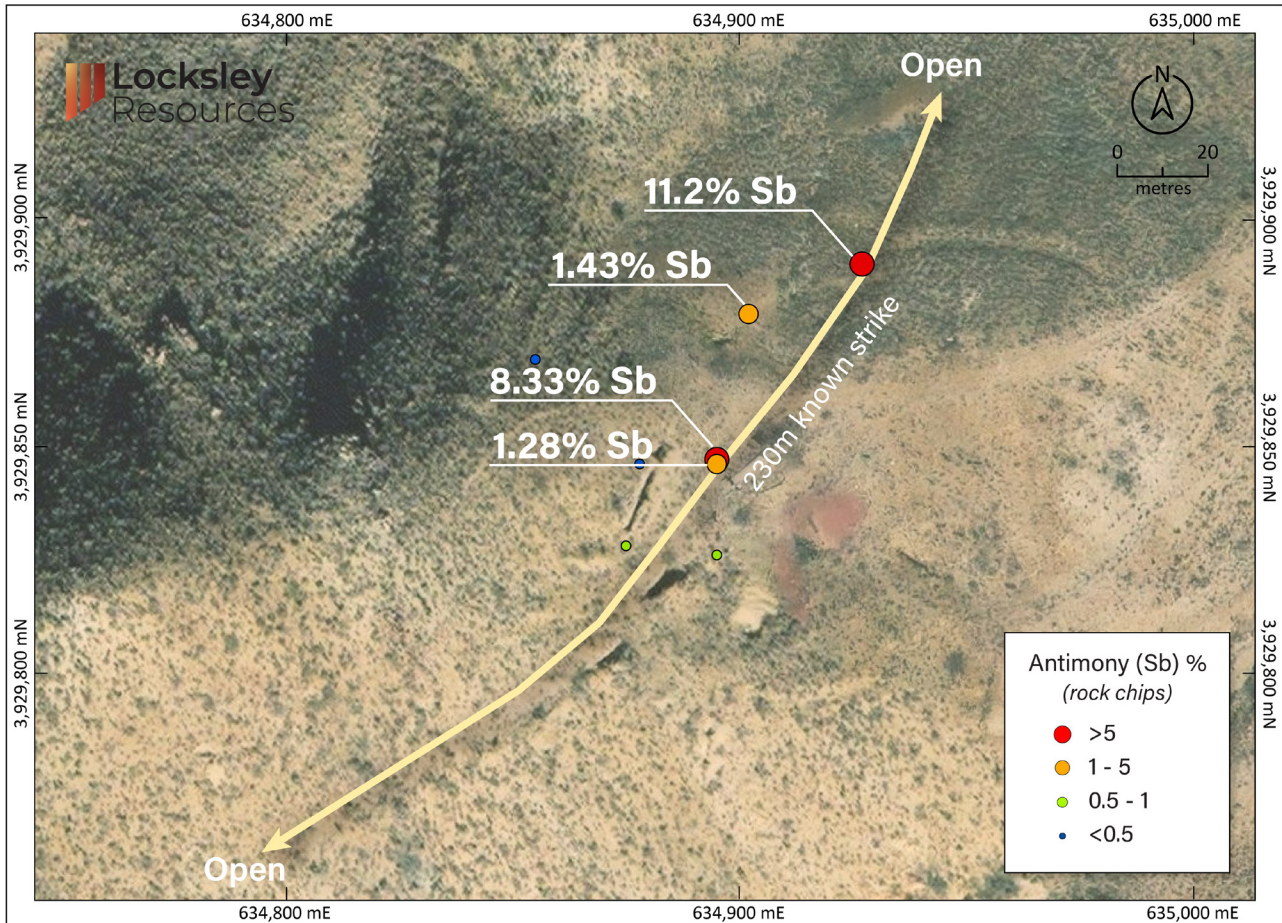
- 11.2% Sb
- 8.33% Sb

These samples were all located near a historic antimony mine located in the northern portion of the North Block. **See Figure 1 & 2.**

Mindat.org refers to the historic workings as the 'Desert Antimony Mine', located in the Clark Mountain District, San Bernadino County, CA. Reference is made to the antimony mineralisation being hosted within a granite with an ore body striking N20E and dipping 75W with a width of 1.22m. Local geology includes Precambrian units, undivided, unit 2 (Mojave Desert and Transverse Ranges) and/or Quaternary alluvium and marine deposits. The extent of the ore body is unknown.



According to mindat.org production ranged from 100 to 1,000 tons with grades ranging from 15 to 20% Sb. Figure 1 highlights the two rock chips returning 11.2% and 8.33% Sb.



**Figure 2.** Desert Antimony Mine with elevated Sb in rockchip assays on drone orthomosaic image

The strike of historic workings at the Desert Antimony Mine is 230m south-west - north-east, open along strike and to the company's knowledge has not been drilled. Observations onsite suggest that there may be multiple parallel quartz stibnite-veins that have been mined from underground and opens the possibility of additional sub-parallel mineralised veins.

**Locksley Resources Limited Managing Director, Steve Woodham commented:**

*"A holistic review of Locksley's Mojave Project highlighted reconnaissance rock-chip sampling at the North Block returned four significant antimony results greater than half a percent including 8.33% & 11.2% Sb, the samples came from an historic antimony mine developed on high-grade quartz-stibnite veining.*

*Given the critical importance of Antimony as a critical mineral<sup>1</sup> and recent tightening of supply with export restrictions from the world's biggest producer (China 32% of world supply) Locksley has mobilised the exploration team to conduct a follow-up sampling program to evaluate the potential of the known antimony mineralisation.*

*The Board look forward to reporting the results of the upcoming Antimony program as soon as practicable."*

1. Reference: Geoscience Australia

## About Antimony (Source: Geoscience Australia):

Estimates of the abundance of antimony in the Earth's crust range from 0.2 to 0.5 parts per million. Antimony is chalcophile, occurring with sulphur and heavy metals, lead, copper, and silver. Over a hundred minerals of antimony are found in nature. Stibnite ( $Sb_2S_3$ ) is the predominant ore mineral of antimony (Science Direct, 2023). Antimony is a silvery lustrous grey metal that exhibits poor heat and electrical conductivity. It is relatively soft, measuring only 3.25 on Moh's scale of mineral hardness. Antimony is represented by the chemical symbol Sb and is a member of the arsenic group of elements and is commonly found in association with gold mineralisation, but it also occurs with some silver-lead-zinc deposits. Its average abundance on earth ranges from 0.2 to 0.5ppm, which is 10 times that of silver. Antimony is rarely found in its pure state and most commonly occurs in nature as the sulphide mineral stibnite ( $Sb_2S_3$ ). It also occurs in more than 100 other minerals, usually as oxide, e.g., valentinite ( $Sb_2O_3$ ), and as antimonies of heavy metal sulphides such as tetrahedrite ( $(Cu,Fe,Zn,Ag)_{12}Sb_4S_{13}$ ), livingstonite ( $HgSb_4S_7$ ) and jamesonite ( $Pb_4FeSb_6S_{14}$ ) (Australian Resource Review of Antimony, 2020).

### Uses:

Antimony is considered Metallic antimony is used as a hardening agent for lead and its use in lead storage batteries accounts for around one third of global use. Antimony alloys are also used for manufacturing solder, sheet and pipe metal, ammunition, bearings, castings, and pewter. ATO is used in non-metallic products such as paint (pigment and fire retardant), ceramics (opacifier), enamels (fire retardant), rubber (fire retardant), glass (de-gassing), paper (fire retardant), plastics (fire retardant) and textiles (fire retardant). ATO's use as a fire retardant also accounts for about one third of global antimony use. In its purest forms, antimony is used in semiconductor technology, infrared detectors, and diodes (two-terminal semiconductors that primarily conduct current in one direction only).

### Reserves:

Based on estimates provided by the USGS and adjusted for Australia, world economic resources of antimony amounted to approximately 1,500 kt in 2019, unchanged from the previous year (Table 4). On the global stage, China dominates production, resources, and demand. China's share of global antimony resources amounts to 32% followed by Russia (23%), Bolivia (21%) and Australia (7%; Table 4). Australia also ranks seventh for antimony production (Table 5) despite all production coming from a single source. China produces 63% of global antimony followed by Russia (19%), Tajikistan (10%) and Bolivia (2%) **See table 1 & 2 below.**

### World Economic Resources of Antimony 2019

| Rank         | Country    | Economic Resources (kt Sb) | Percentage of World Total |
|--------------|------------|----------------------------|---------------------------|
| 1            | China      | 480                        | 32%                       |
| 2            | Russia     | 350                        | 23%                       |
| 3            | Bolivia    | 310                        | 21%                       |
| 4            | Australia  | 100.5                      | 7%                        |
| 5            | Turkey     | 100                        | 7%                        |
| 6            | USA        | 60                         | 4%                        |
| 7            | Tajikistan | 50                         | 3%                        |
| 8            | Pakistan   | 26                         | 2%                        |
| 9            | Mexico     | 18                         | 1%                        |
| <b>TOTAL</b> |            | <b>1495</b>                |                           |

**Table 1:** World Economic Resources of Antimony 2019 esources of Antimony 2019

### World Production of Antimony 2019

| Rank         | Country    | Production (kt Sb) | Percentage of World Total |
|--------------|------------|--------------------|---------------------------|
| 1            | China      | 100                | 63%                       |
| 2            | Russia     | 30                 | 19%                       |
| 3            | Tajikistan | 16                 | 10%                       |
| 4            | Boliva     | 3                  | 2%                        |
| 5            | Burma      | 3                  | 2%                        |
| 6            | Turkey     | 3                  | 2%                        |
| 7            | Australia  | 2.03               | 1%                        |
|              | other      | 2.3                | 1%                        |
| <b>TOTAL</b> |            | <b>159.33</b>      |                           |

**Table2:** World Production of Antimony 2019

More recent research sourced from ScienceDirect website publication highlights that antimony reserves are limited and unevenly distributed. China, Russia, and Bolivia account for 80% of the global antimony reserves. However, due to the increasing demand for antimony, such reserves have been consumed quickly, influencing the sustainable supply for antimony resources. It is estimated that the gap between antimony supply and demand will exceed 10% in the coming years, making it more critical than rare-earth elements (REE) (Zhao. G, Li. W, Geng. Y, Bleischwitz. R, 2023).

#### **Current Market:**

Antimony Market size was valued at USD 1.07 billion in 2023 and is likely to exceed 2.2 billion by the end of 2036, registering over 7.3% CAGR during the forecast period i.e., between 2024-2036. In the year 2024, the industry size of antimony in battery manufacturing is anticipated to be one of the major growth drivers of the market. The global demand for batteries was estimated to be approximately 180 GWh in 2020 and is further anticipated to reach more than 1,900 GWh by 2030, and the growth of the market is accounted to the constantly growing electronic industry and fire safety.

Antimony is estimated to be influenced by substantial growth related to increasing fire safety due to antimony's flame-retardant properties. Antimony singularly does not contain flame-retardant properties, but these are accomplished when utilised with halogenated compounds in the form of trioxide. Data provided by the National Fire Protection Association (NFPA) of the United States that, 1,388,500 fires were recorded during 2020. The flame-retardant industry was valued at USD 7 billion which is further forecasted to reach around USD 15 billion in 2030.

Antimony is also utilised in battery production as it's combined with lead to create a lead-acid battery. With the rise in electric car production and the need for renewable energy sources is predicted to increase the consumption of lead-acid batteries, which would result in boosting the market for antimony.

Antimony is also used in many other applications such cable sheathing in fibre cable technology, paint and coating for commercial buildings, and glass and ceramics for decoration purposes.

*The Board of Directors of Locksley Resources Limited authorised the release of this announcement.*

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## Mojave North-Northeast Block Assays

| Sample_ID | Easting NAD-83 ZoneII | Northing NAD-83 ZoneII | Au_ppm | Ag_ppm | As_ppm | Ba_ppm | Bi_ppm | Co_ppm | Cr_ppm | Cu_ppm | Ga_ppm | Li_ppm | Mo_ppm | Nb_ppm | Ni_ppm | Pb_ppm | S_ppm | Sb_ppm | Sn_ppm | Sr_ppm | Ti_ppm | V_ppm | W_ppm | Zn_ppm | Zr_ppm | Th_ppm |
|-----------|-----------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| 285413    | 634927.0              | 3929890.0              | -0.005 | 0.88   | 12     | 31.4   | -5     | -2     | 63.7   | 3.65   | -5     | -2     | -2     | -5     | 6.2    | -5     | 42400 | 112000 | -5     | 55.1   | 25     | -5    | -5    | 7.4    | -2     | -1     |
| 285401    | 634895.0              | 3929847.0              | -0.005 | 0.697  | 147    | 3240   | -5     | -2     | 82.7   | 4.3    | 7.48   | 8.35   | -2     | -5     | 6.85   | -5     | 27700 | 83300  | -5     | 377    | 220    | 8.85  | -5    | 38.5   | 5.72   | 2.33   |
| 285414    | 634902.0              | 3929879.0              | 0.015  | 0.745  | 10.4   | 20100  | -5     | 5.88   | 61.3   | -2     | -5     | -2     | -2     | 5.22   | -2     | 6.9    | 4030  | 14300  | -5     | 174    | 9.68   | -5    | -5    | 20.1   | -2     | -1     |
| 285404    | 634895.0              | 3929846.0              | 0.006  | 1.68   | 120    | 5020   | -5     | -2     | 143    | 5.32   | -5     | 97.8   | -2     | -5     | 4.72   | 15.6   | 13400 | 12800  | -5     | 149    | 120    | 6.8   | -5    | 403    | -2     | 1.4    |
| 285402    | 634895.0              | 3929826.0              | -0.005 | -0.5   | 30.1   | 5220   | -5     | 2.25   | 120    | 4.02   | 6.25   | 14.4   | -2     | -5     | 3.85   | 5.3    | 9640  | 8940   | -5     | 141    | 75     | -5    | -5    | 14     | 6.95   | 9.01   |
| 285406    | 634875.0              | 3929828.0              | 0.007  | -0.5   | 126    | 229    | -5     | 12.4   | 164    | 13.3   | 12.5   | 21.2   | -2     | -5     | 30     | 23.4   | 4050  | 8280   | -5     | 605    | 947    | 26.9  | -5    | 102    | 110    | 32.6   |
| 307307    | 636327.8              | 3928891.4              | 0.031  | 16.5   | 2600   | 2330   | -5     | 12.1   | 392    | 10400  | 10.8   | 28.1   | 4.78   | -5     | 74.2   | 52.3   | 928   | 929    | -5     | 476    | 1290   | 45.2  | -5    | 642    | 121    | 42.2   |
| 307389    | 633750.5              | 3929114.7              | -0.005 | -0.5   | 203    | 528    | -5     | -2     | 85.4   | 3.8    | 14.7   | 59.4   | -2     | -5     | 5.02   | 32.6   | 84.7  | 757    | -5     | 341    | 540    | 5.95  | 8.3   | 42.4   | 46.8   | 27.9   |
| 285405    | 634878.0              | 3929846.0              | -0.005 | -0.5   | 19.1   | 369    | -5     | 2.55   | 40.6   | -2     | 14.3   | 66.2   | -2     | -5     | 5.52   | 25     | 82.9  | 491    | -5     | 288    | 1030   | 25.1  | -5    | 53.2   | 7.7    | 25.4   |
| 285415    | 634523.0              | 3929783.0              | -0.005 | -0.5   | 6.25   | 723    | -5     | 9.5    | 128    | 6.22   | 13.7   | 18.6   | 3.32   | 14.8   | 23     | 22.9   | 128   | 310    | -5     | 121    | 3040   | 64.8  | -5    | 68.6   | 29.4   | 18.4   |
| 307301    | 633467.0              | 3928657.0              | -0.005 | -0.5   | 238    | 15400  | -5     | 12.6   | 91.8   | 11.6   | -5     | 3.38   | 5.02   | -5     | 9.35   | 23.1   | 3980  | 250    | -5     | 687    | 681    | 26.7  | 6.82  | 132    | 8.1    | 3.32   |
| 285417    | 637147.0              | 3928999.0              | -0.005 | 7.53   | 41.1   | 727    | -5     | 2.92   | 137    | 332    | -5     | 81.1   | 6.98   | -5     | 12     | 1180   | 3150  | 217    | -5     | 68     | 229    | 28.4  | -5    | 10400  | 6.18   | 8.32   |
| 258406    | 635616.0              | 3928697.0              | 0      | -0.3   | 51     | 1348   | -5     | 15     | 157    | 375    | 10     | 25     | 2      | 2      | 16     | 1297   | 166   | 215    | 1      | 143    | 729    | 112   | -2    | 121    | 0      | -20    |
| 285409    | 634341.0              | 3929782.0              | -0.005 | -0.5   | 132    | 158    | -5     | 2.05   | 63.1   | 4.8    | 6.62   | 93.5   | 2.08   | -5     | 4.22   | 2320   | 129   | 199    | -5     | 396    | 729    | 19.8  | 5.75  | 9.88   | 13.6   | 11.9   |
| 285403    | 634895.0              | 3929826.0              | -0.005 | -0.5   | -5     | 45.9   | -5     | -2     | 74.9   | 2.85   | -5     | 2.78   | -2     | -5     | 5.68   | 11.8   | 98.6  | 140    | -5     | 11.2   | 27.1   | -5    | -5    | 9.95   | -2     | -1     |
| 307397    | 633412.0              | 3928677.0              | -0.005 | -0.5   | 38.6   | 926    | -5     | 6.08   | 42.4   | 126    | 17.2   | 191    | -2     | -5     | 13.7   | 33.3   | 329   | 106    | -5     | 2820   | 1340   | 65.3  | 39.5  | 58     | 49.7   | 12.4   |
| 307396    | 633410.0              | 3928678.0              | -0.005 | -0.5   | 121    | 4970   | -5     | 34     | 338    | 25.1   | 6.32   | 37.2   | -2     | -5     | 151    | 21.7   | 1230  | 100    | -5     | 2590   | 2160   | 119   | 154   | 131    | 52.9   | 4.08   |
| 285416    | 637135.0              | 3928972.0              | -0.005 | 1.45   | 51.2   | 232    | 5.78   | 6.52   | 91.6   | 50     | -5     | 90.6   | 2.55   | -5     | 9.38   | 499    | 658   | 98.4   | -5     | 28.1   | 529    | 38.4  | -5    | 978    | 2.9    | 2.28   |
| 285407    | 634855.0              | 3929869.0              | -0.005 | -0.5   | 8.55   | 472    | -5     | -2     | 50.4   | 3.05   | 7.78   | -2     | -2     | -5     | 3.8    | 26.5   | 54    | 59.4   | -5     | 74.9   | 148    | -5    | -5    | 11.3   | 6.1    | 2      |
| 285408    | 634434.0              | 3929806.0              | -0.005 | -0.5   | 8.12   | 928    | -5     | 6.6    | 73.6   | 12.4   | 12.6   | 13     | 2.82   | 18.8   | 9.68   | 24.2   | 88.6  | 54.4   | -5     | 131    | 2780   | 33.4  | -5    | 78.6   | 48.2   | 30.6   |
| 307390    | 637050.0              | 3929045.0              | -0.005 | -0.5   | 41.8   | 171    | -5     | 6.78   | 115    | 104    | 6.48   | 78     | 5.4    | -5     | 22     | 31.7   | 80.8  | 51.6   | -5     | 81.1   | 469    | 66.9  | -5    | 90.6   | 5      | 6.69   |
| 285410    | 637135.0              | 3928972.0              | -0.005 | 0.568  | 63.7   | 480    | -5     | 8.22   | 126    | 33.1   | 9.45   | 30.8   | 4.4    | 10.2   | 21.9   | 25.3   | 51.3  | 46     | -5     | 80.5   | 2060   | 63.8  | -5    | 120    | 17.9   | 30.4   |
| 307391    | 637162.0              | 3928963.0              | -0.005 | 2.89   | 168    | 682    | 7.52   | 37.3   | 283    | 13.1   | 10.4   | 7.8    | 5.2    | -5     | 100    | 28.8   | 154   | 42     | -5     | 118    | 3150   | 338   | 13.2  | 443    | 18.7   | -1     |
| 252432    | 637221.0              | 3928049.0              | -0.005 | 3.72   | 450    | 420    | -5     | 34     | 528    | 29.9   | 10.8   | 24     | 4.05   | 17.8   | 370    | 283    | 288   | 40.9   | -5     | 751    | 6530   | 126   | 12.4  | 702    | 109    | 81.6   |
| 252434    | 637210.0              | 3928060.0              | -0.005 | 3.1    | 98.4   | 394    | -5     | 19     | 295    | 16.8   | 9.82   | 52.9   | 2.15   | 13.3   | 151    | 13.6   | 185   | 40.2   | -5     | 804    | 3950   | 73.7  | 12.2  | 102    | 89.2   | 48.7   |
| 252431    | 637448.0              | 3928480.0              | -0.005 | -0.5   | 82.4   | 265    | -5     | 10.8   | 192    | 21.8   | 13.1   | 37.4   | 4.05   | 7.72   | 25     | 14.2   | 81.9  | 34.4   | -5     | 103    | 1840   | 74.1  | 6.4   | 82.2   | 21     | 14.9   |
| 252429    | 637089.0              | 3928529.0              | -0.005 | -0.5   | 58.8   | 294    | 5.28   | 27.6   | 114    | 38.3   | 5.12   | 62.4   | 3.92   | 8.92   | 18     | 8.5    | 87.1  | 33     | -5     | 57.4   | 2520   | 160   | 9.88  | 139    | 5.85   | 2.38   |
| 307305    | 636274.0              | 3928911.0              | 0.016  | 13.6   | 2630   | 2810   | 31.2   | 15.4   | 107    | 8880   | -5     | 43.3   | 6.68   | -5     | 22.4   | 412    | 2800  | 26.7   | -5     | 291    | 33.2   | 5.8   | -5    | 99.7   | 3.45   | 7.94   |
| 285418    | 637148.0              | 3928997.0              | -0.005 | -0.5   | 7.8    | 1010   | -5     | 2.02   | 45.7   | 2.15   | 7.08   | -2     | -2     | -5     | 3.02   | 26.4   | -50   | 22.9   | -5     | 118    | 810    | 5.8   | -5    | 32.7   | 7.18   | 59.5   |

| Sample_ID | Easting NAD-83 ZoneII | Northing NAD-83 ZoneII | Au_ppm | Ag_ppm | As_ppm | Ba_ppm | Bi_ppm | Co_ppm | Cr_ppm | Cu_ppm | Ga_ppm | Li_ppm | Mo_ppm | Nb_ppm | Ni_ppm | Pb_ppm | S_ppm | Sb_ppm | Sn_ppm | Sr_ppm | Ti_ppm | V_ppm | W_ppm | Zn_ppm | Zr_ppm | Th_ppm |
|-----------|-----------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| 252404    | 637049.0              | 3928792.0              | -0.005 | -0.5   | 8.55   | 773    | -5     | 2.35   | 26.7   | 3.88   | 24     | -2     | 2.72   | 17.8   | 5.45   | 15.3   | 64.1  | 20.8   | 12.6   | 589    | 353    | 7.38  | -5    | 31.9   | 70.4   | 12.7   |
| 307376    | 637094.0              | 3926577.0              | -0.005 | -0.5   | -5     | 478    | -5     | 16.8   | 137    | 14.6   | 15.1   | 20.6   | 2.15   | 32.6   | 33.8   | 19.3   | 83.6  | 20.4   | 5.82   | 125    | 4640   | 83.8  | -5    | 157    | 19.6   | 17.4   |
| 252414    | 638438.0              | 3928143.0              | -0.005 | -0.5   | 6.2    | 900    | -5     | 8.52   | 19.3   | 4.28   | 14     | 16.8   | -2     | 19.9   | 3.8    | 14.6   | 102   | 18.7   | 6.62   | 598    | 3220   | 61.4  | -5    | 79.2   | 115    | 3.96   |
| 252424    | 638723.0              | 3928461.0              | -0.005 | -0.5   | 39.3   | 468    | -5     | 12.4   | 81     | 18.6   | 5.15   | 79     | -2     | 39.2   | 29.6   | 16.9   | 54.9  | 18.1   | -5     | 120    | 827    | 117   | 6.05  | 84.5   | 8.98   | 7.67   |
| 252436    | 637170.0              | 3927981.0              | -0.005 | -0.5   | 45.6   | 104    | -5     | 3.95   | 154    | 6.5    | 10.3   | 58     | 8.68   | -5     | 12.4   | 18.7   | 76.5  | 17.8   | -5     | 105    | 621    | 26.4  | -5    | 34.8   | 7.72   | 36     |
| 284811    | 633310.0              | 3928708.0              | 0.0007 | 0.041  | 176.3  | 2628.9 | 0.12   | 5.8    | 23.1   | 6.99   | 1      | 0      | 0.62   | 0      | 23.7   | 31.48  | 1200  | 17.41  | 0      | 131.8  | 50     | 44    | 10.2  | 31.4   | 0      | 3.4    |
| 307302    | 632742.0              | 3928589.0              | -0.005 | -0.5   | 6.3    | 615    | -5     | 20     | 79.9   | 21.8   | 11.5   | 33     | -2     | 27.5   | 45.2   | 16     | 113   | 16.4   | -5     | 455    | 6390   | 108   | -5    | 111    | 34.8   | 6.94   |
| 252405    | 637244.0              | 3928947.0              | -0.005 | -0.5   | 15.2   | 1960   | -5     | 11.4   | 73.7   | 22     | 20.4   | 4.3    | 2.1    | 24.7   | 11.8   | 14.5   | 114   | 16.2   | -5     | 355    | 4850   | 54    | -5    | 79.7   | 65.5   | 25.7   |
| 252423    | 638726.0              | 3928451.0              | -0.005 | -0.5   | -5     | 422    | -5     | 51     | 89.3   | 6.45   | 9      | 10.4   | -2     | 27.5   | 72.2   | -5     | 58.9  | 15.8   | -5     | 250    | 6140   | 310   | -5    | 106    | 43.4   | -1     |
| 307308    | 636409.0              | 3928886.0              | 0.033  | -0.5   | 69.9   | 1000   | -5     | 11.2   | 118    | 319    | -5     | 38.8   | 2.45   | 42.6   | 135    | 18     | 327   | 15.6   | -5     | 385    | 155    | 39.1  | -5    | 68.5   | 20.2   | 5.31   |
| 252441    | 637430.0              | 3926636.0              | -0.005 | -0.5   | 9.08   | 399    | -5     | 12     | 98.6   | 17.8   | 20.2   | 27.2   | -2     | 5.95   | 28.2   | 5.35   | 67.1  | 15.4   | -5     | 206    | 2030   | 82    | -5    | 39.1   | 56.9   | 20.8   |
| 252422    | 638984.0              | 3927165.0              | -0.005 | -0.5   | -5     | 392    | -5     | 28.2   | 48.8   | 68.6   | 7.9    | 62.4   | -2     | 30.8   | 29.5   | -5     | 78    | 14.8   | -5     | 205    | 3940   | 197   | 8.88  | 119    | 25.2   | 2.98   |
| 252433    | 637262.0              | 3928064.0              | -0.005 | -0.5   | 28.2   | 1320   | -5     | 17.8   | 113    | 33.5   | 11.4   | -2     | -2     | 8.5    | 33.6   | 20     | 278   | 14.8   | -5     | 154    | 1690   | 54.4  | 6.62  | 68.7   | 26     | 77.3   |
| 285478    | 637214.0              | 3926481.0              | -0.005 | -0.5   | 11.2   | 6220   | -5     | 39.2   | 281    | 136    | 7.4    | 44     | -2     | 39.6   | 238    | -5     | 305   | 14.7   | -5     | 927    | 4780   | 106   | -5    | 124    | 254    | 11.8   |
| 252435    | 637188.0              | 3928012.0              | -0.005 | -0.5   | 13.3   | 927    | -5     | 4.98   | 84.4   | 7.92   | 14.6   | 3.2    | 4.18   | -5     | 12.6   | 29.4   | 53.4  | 14.6   | -5     | 282    | 919    | 30.4  | -5    | 52.8   | 39.6   | 71.1   |
| 252430    | 636877.0              | 3928219.0              | -0.005 | -0.5   | 10.2   | 378    | -5     | 3.82   | 105    | 19.2   | 7.55   | 18.3   | -2     | -5     | 7.45   | 36.3   | -50   | 13.4   | -5     | 73.5   | 345    | 17.9  | 5.65  | 32.9   | 5.95   | 5.44   |
| 252437    | 637408.0              | 3928359.0              | -0.005 | -0.5   | 12.9   | 456    | -5     | 41.6   | 110    | 94.6   | 12     | 5.22   | -2     | 29.1   | 59.6   | 15.3   | 177   | 13.1   | -5     | 331    | 3060   | 238   | -5    | 111    | 57.4   | 112    |
| 252427    | 638189.0              | 3928134.0              | -0.005 | -0.5   | 15.6   | 1380   | -5     | 6.42   | 133    | 4.25   | 11.8   | -2     | 3.6    | -5     | 88.5   | 27.4   | 57.1  | 12.6   | -5     | 335    | 907    | 15.8  | -5    | 28.7   | 50.7   | 111    |
| 252439    | 637377.0              | 3926695.0              | 0.168  | 1.38   | 140    | 321    | 30.2   | 10.3   | 93.1   | 28700  | 9.22   | 15.4   | -2     | -5     | 9.12   | 48.6   | 1790  | 11.8   | -5     | 78.2   | 392    | 30    | -5    | 25.2   | 6.45   | 14.2   |
| 307303    | 636230.0              | 3928922.0              | 0.017  | -0.5   | 29.5   | 271    | 7.72   | 27.3   | 62.1   | 72.5   | -5     | 24.1   | 14     | 47.9   | 189    | 14     | 114   | 11.3   | -5     | 120    | 64.9   | 31.1  | -5    | 179    | 7.55   | 2.68   |
| 252444    | 634184.0              | 3929173.0              | -0.005 | -0.5   | 8.6    | 576    | -5     | 4.42   | 35.2   | 41     | 19.1   | 51.5   | -2     | 13.2   | 5.28   | 30.2   | 53.4  | 11.2   | -5     | 198    | 1720   | 20.4  | -5    | 48.7   | 34.7   | 49.2   |
| 307306    | 636291.0              | 3928957.0              | -0.005 | -0.5   | 22.6   | 2330   | -5     | 23.1   | 86.2   | 36.2   | 10.5   | 43.3   | -2     | 42     | 53.6   | 25.3   | 445   | 10.8   | -5     | 384    | 6970   | 112   | -5    | 146    | 14.1   | 10.4   |
| 285483    | 633750.0              | 3929123.0              | -0.005 | -0.5   | -5     | 176    | -5     | 4.82   | 121    | 4.6    | 9.2    | 128    | 4.48   | 5.92   | 9.8    | 26.4   | 110   | 10.7   | -5     | 103    | 433    | 8.2   | -5    | 45.9   | 12.8   | 18.7   |
| 252428    | 638195.0              | 3929727.0              | -0.005 | -0.5   | 13.5   | 837    | -5     | 4.45   | 70.7   | 5.88   | 16.6   | 4.12   | -2     | 9.82   | 3.82   | 13     | -50   | 10.5   | -5     | 232    | 1060   | 22.6  | -5    | 46     | 55.3   | 66.4   |
| 307375    | 637128.0              | 3926504.0              | -0.005 | -0.5   | -5     | 219    | -5     | 2.98   | 73.8   | 8.22   | 10.4   | 8.92   | -2     | 8.88   | 4.75   | 24.2   | 83.2  | 8.72   | -5     | 70.4   | 777    | 6.7   | -5    | 36.2   | 13     | 10.2   |
| 252425    | 638311.0              | 3928101.0              | -0.005 | -0.5   | -5     | 793    | -5     | 4.22   | 56.9   | -2     | 11.7   | 4.02   | -2     | 10.8   | 5.78   | 22.4   | -50   | 8.65   | -5     | 231    | 1080   | 16.7  | 9.8   | 32.5   | 22.4   | 17.1   |
| 258401    | 635773.0              | 3928988.0              | 0      | -0.3   | 150    | 131    | -5     | -1     | 489    | 1242   | -5     | 37     | -1     | -1     | 7      | 8      | 278   | 8      | -1     | 12     | -30    | -3    | -2    | 4      | 0      | -20    |
| 257497    | 637202.0              | 3926445.0              | 0.125  | 1.27   | 17.4   | 12800  | 30     | 7.9    | 85.6   | 1310   | -5     | -2     | 2.08   | 42.3   | 15.3   | 12     | 4010  | 7.95   | -5     | 1400   | 510    | 20    | -5    | 21.2   | 11.2   | 4.75   |
| 252415    | 632474.0              | 3928844.0              | -0.005 | -0.5   | -5     | 629    | -5     | 3.68   | 25.2   | 4.2    | 16.8   | 15.6   | -2     | -5     | 4.85   | 13     | 87.2  | 7.95   | 5.95   | 213    | 804    | 18.3  | -5    | 60.3   | 22     | 6.91   |

| Sample_ID | Easting NAD-83 ZoneII | Northing NAD-83 ZoneII | Au_ppm | Ag_ppm | As_ppm | Ba_ppm | Bi_ppm | Co_ppm | Cr_ppm | Cu_ppm | Ga_ppm | Li_ppm | Mo_ppm | Nb_ppm | Ni_ppm | Pb_ppm | S_ppm | Sb_ppm | Sn_ppm | Sr_ppm | Ti_ppm | V_ppm | W_ppm | Zn_ppm | Zr_ppm | Th_ppm |
|-----------|-----------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| 285482    | 633729.0              | 3929119.0              | -0.005 | -0.5   | -5     | 485    | 8.25   | 12.8   | 22.8   | -2     | 74.3   | 6.02   | -2     | -5     | 6.6    | 35.8   | 79.6  | 7.75   | 29     | 116    | 1510   | 165   | -5    | 152    | 4.92   | 29.2   |
| 252438    | 637395.0              | 3926700.0              | 0.161  | 1.46   | 136    | 493    | 29.9   | 7.52   | 133    | 41700  | -5     | 11.5   | 4.35   | -5     | 10.1   | 34.2   | 7310  | 7.7    | -5     | 59.3   | 591    | 24.2  | -5    | 19.5   | 4.45   | 11.1   |
| 252421    | 638981.0              | 3927093.0              | -0.005 | -0.5   | -5     | 401    | -5     | 3.15   | 85.8   | -2     | 12.9   | 7.82   | 3.55   | 9.9    | 7.75   | -5     | -50   | 7.68   | -5     | 379    | 765    | 10.2  | -5    | 25.9   | 11.3   | 2.3    |
| 307304    | 636251.0              | 3928921.0              | -0.005 | -0.5   | 32.6   | 872    | -5     | 11.3   | 39.2   | 12.7   | 9.12   | 17.8   | 2.18   | 35.7   | 71.2   | 12.4   | 343   | 7.1    | -5     | 282    | 1250   | 44.9  | -5    | 71.2   | 21.3   | 11.8   |
| 257499    | 637205.0              | 3926447.0              | -0.005 | -0.5   | 9.45   | 1740   | -5     | 2.5    | 67.3   | 25.2   | 7.72   | 4.22   | 3.72   | 12.1   | 10     | 15.8   | 601   | 5.5    | -5     | 215    | 405    | 7.7   | -5    | 11.4   | 16.1   | 6.68   |
| 257500    | 637206.0              | 3926445.0              | -0.005 | -0.5   | 13.5   | 213    | -5     | 9.75   | 84.6   | 100    | -5     | 56     | -2     | 35.4   | 37.2   | 7.32   | 150   | 5.18   | -5     | 130    | 140    | 14.1  | -5    | 39.6   | 25.3   | 1.95   |
| 252440    | 637360.0              | 3926695.0              | 0.047  | -0.5   | 29.9   | 184    | 5.12   | 5.48   | 92.6   | 1500   | 8.98   | 20.4   | 4.45   | -5     | 12.6   | 7.22   | 200   | 5.1    | -5     | 34.6   | 519    | 26.2  | -5    | 16.1   | 9.52   | 6.21   |
| 252426    | 638129.0              | 3928067.0              | -0.005 | -0.5   | 9.1    | 166    | -5     | 2.05   | 183    | 8.1    | 7.28   | -2     | 4.85   | -5     | 10.1   | 12.5   | -50   | 5.08   | -5     | 67.8   | 207    | -5    | -5    | 8.92   | 14.9   | 82.9   |
| 258402    | 635850.0              | 3928997.0              | 0      | -0.3   | 14     | 76     | -5     | 3      | 776    | 28     | 6      | 62     | -1     | 1      | 24     | 10     | 54    | 2      | -1     | 86     | 462    | 42    | -2    | 30     | 0      | -20    |
| 258415    | 636865.0              | 3929267.0              | 0      | -0.3   | 3      | 831    | -5     | 10     | 94     | -1     | 21     | 19     | -1     | 18     | 11     | 47     | 55    | 2      | -1     | 162    | 3415   | 28    | -2    | -3     | 0      | 220    |
| 252338    | 637078.0              | 3929402.0              | 0.001  | 0.012  | -0.01  | 129.6  | -0.02  | 8.2    | 20     | 5.21   | 4.3    | 0      | 0.31   | 0      | 12.6   | 22.62  | -200  | 0.07   | 0      | 20     | 1650   | 32    | -0.1  | 46.5   | 0      | 265.2  |
| 284801    | 633932.0              | 3928702.0              | -0.005 | 0.064  | 1.7    | 948.6  | 0.45   | 32.9   | 24.9   | 49.49  | 3.7    | 0      | 0.18   | 0      | 39     | 2.49   | 600   | 0.05   | 0      | 69.4   | 580    | 107   | -0.1  | 77.8   | 0      | 1.6    |
| 252346    | 636961.0              | 3929143.0              | -0.005 | 0.017  | 0.4    | 74.9   | -0.02  | 5      | 2.7    | 5.11   | 12.8   | 0      | 0.16   | 0      | 5.9    | 39.25  | -200  | 0.04   | 0      | 25.9   | 1170   | 11    | -0.1  | 28.4   | 0      | 456.6  |
| 252337    | 637080.0              | 3929403.0              | -0.005 | 0.012  | -0.01  | 66.5   | -0.02  | 4.3    | 14.8   | 4      | 2      | 0      | 0.12   | 0      | 11.1   | 8.49   | -200  | 0.04   | 0      | 19.7   | 680    | 16    | -0.1  | 26.6   | 0      | 95     |
| 284812    | 634295.0              | 3928635.0              | 0.0008 | 0.049  | 1.3    | 90.2   | -0.02  | 7.4    | 22.1   | 51.57  | 5      | 0      | 0.79   | 0      | 14.1   | 8.13   | -200  | 0.03   | 0      | 10.7   | 870    | 28    | -0.1  | 73.8   | 0      | 20.8   |
| 284829    | 635607.0              | 3928455.0              | 0.0008 | 0.022  | 1.2    | 221.1  | 0.03   | 17.8   | 76.1   | 30.98  | 13     | 0      | 0.27   | 0      | 39.5   | 8.87   | -200  | 0.03   | 0      | 26.3   | 3500   | 115   | -0.1  | 55.1   | 0      | 21.9   |
| 252330    | 636634.0              | 3929097.0              | -0.005 | 0.039  | 0.3    | 861.9  | 0.04   | 3.9    | 9.7    | 17.08  | 1.8    | 0      | 0.84   | 0      | 6.3    | 15.2   | 300   | 0.03   | 0      | 54.7   | 80     | 9     | 0.1   | 18.1   | 0      | 9      |
| 252371    | 635952.0              | 3929525.0              | 0.0002 | 0.011  | 0.6    | 68.7   | -0.02  | 2.8    | 6.2    | 8.28   | 3.1    | 0      | 0.12   | 0      | 4.9    | 3.41   | -200  | 0.03   | 0      | 15.5   | 40     | 7     | -0.1  | 16     | 0      | 24.6   |
| 252331    | 636642.0              | 3929088.0              | -0.005 | 0.012  | 0.9    | 59.2   | 0.02   | 6.7    | 11.6   | 2.86   | 2.6    | 0      | 0.25   | 0      | 12.2   | 3.24   | -200  | 0.03   | 0      | 14.5   | 20     | 9     | -0.1  | 36.8   | 0      | 7.4    |
| 284802    | 633992.0              | 3928581.0              | -0.005 | 0.004  | 0.2    | 125.6  | 0.04   | 1.6    | 3.4    | 1.24   | 1.7    | 0      | 0.11   | 0      | 1.6    | 1.66   | -200  | 0.03   | 0      | 11.6   | 30     | 10    | 0.2   | 9.2    | 0      | 25.6   |
| 252370    | 635989.0              | 3929537.0              | -0.005 | 0.017  | -0.01  | 56.7   | 0.03   | 2.7    | 8.7    | 11.27  | 1.2    | 0      | 0.12   | 0      | 6.1    | 5.46   | -200  | 0.02   | 0      | 12.5   | 220    | 11    | -0.1  | 9.5    | 0      | 7.2    |
| 252332    | 636707.0              | 3929385.0              | -0.005 | 0.026  | 0.1    | 139.4  | -0.02  | 17.6   | 72.8   | 5.1    | 10     | 0      | 0.23   | 0      | 47.7   | 5.51   | -200  | 0.02   | 0      | 16.5   | 3560   | 100   | -0.1  | 72.6   | 0      | 10.7   |
| 252328    | 637928.0              | 3928046.0              | -0.005 | 0.013  | -0.01  | 39.2   | -0.02  | 2      | 8.7    | 4.33   | 1.4    | 0      | 0.11   | 0      | 4      | 1.96   | -200  | 0.02   | 0      | 8.3    | 460    | 10    | -0.1  | 9.9    | 0      | 1.4    |
| 252334    | 636716.0              | 3929538.0              | -0.005 | 0.076  | 1.6    | 66     | 0.12   | 18.7   | 1.9    | 174.46 | 12.8   | 0      | 0.14   | 0      | 24.5   | 3.69   | -200  | -0.02  | 0      | 72.8   | 870    | 221   | -0.1  | 22.2   | 0      | 1      |
| 252369    | 635992.0              | 3929539.0              | 0.0017 | 0.033  | 0.5    | 224.7  | 0.08   | 21.6   | 73.9   | 149.06 | 11.7   | 0      | 0.6    | 0      | 54.9   | 6.1    | -200  | -0.02  | 0      | 12.1   | 3250   | 130   | -0.1  | 51.2   | 0      | 15.5   |
| 284497    | 638691.0              | 3927959.0              | 0.0002 | 0.025  | 0.2    | 34.2   | 0.03   | 14.9   | 85.7   | 122.18 | 4.3    | 0      | 0.17   | 0      | 46.4   | 0.67   | -200  | -0.02  | 0      | 13.7   | 1160   | 65    | -0.1  | 26.4   | 0      | 0.4    |
| 252336    | 637089.0              | 3929321.0              | 0.0025 | 0.024  | 0.1    | 331.8  | -0.02  | 23.2   | 82.8   | 56.65  | 15     | 0      | 0.3    | 0      | 61.6   | 4.96   | -200  | -0.02  | 0      | 18.4   | 4930   | 133   | -0.1  | 77.9   | 0      | 13     |
| 252350    | 636874.0              | 3929240.0              | -0.005 | 0.019  | 0.4    | 62.9   | 0.13   | 12.6   | 32.7   | 40.1   | 11.3   | 0      | 0.06   | 0      | 15.3   | 2.9    | -200  | -0.02  | 0      | 155.2  | 1030   | 91    | -0.1  | 19.6   | 0      | 0.3    |
| 252348    | 636842.0              | 3929285.0              | -0.005 | 0.03   | 1.4    | 52     | 0.04   | 8.4    | 127.1  | 31.69  | 5.5    | 0      | 0.06   | 0      | 40.6   | 2      | -200  | -0.02  | 0      | 73     | 640    | 38    | 0.2   | 17.9   | 0      | 0.3    |



| Sample_ID | Easting<br>NAD-83<br>Zone11 | Northing<br>NAD-83<br>Zone11 | Au_ppm | Ag_ppm | As_ppm | Ba_ppm | Bi_ppm | Co_ppm | Cr_ppm | Cu_ppm | Ga_ppm | Li_ppm | Mo_ppm | Nb_ppm | Ni_ppm | Pb_ppm | S_ppm | Sb_ppm | Sn_ppm | Sr_ppm | Ti_ppm | V_ppm | W_ppm | Zn_ppm | Zr_ppm | Th_ppm |
|-----------|-----------------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| 252335    | 636642.0                    | 3929362.0                    | -0.005 | 0.02   | 0.2    | 156.2  | 0.08   | 14.2   | 58.2   | 15.05  | 7.6    | 0      | 0.29   | 0      | 48.8   | 8.03   | -200  | -0.02  | 0      | 15.7   | 2260   | 76    | -0.1  | 38.5   | 0      | 15.2   |
| 252333    | 636752.0                    | 3929341.0                    | -0.005 | 0.016  | -0.01  | 112.6  | 0.05   | 11     | 44.7   | 11.93  | 6      | 0      | 0.24   | 0      | 33.4   | 7.89   | -200  | -0.02  | 0      | 15.1   | 1880   | 66    | -0.1  | 28.8   | 0      | 13.3   |
| 252339    | 636922.0                    | 3929417.0                    | -0.005 | 0.006  | -0.01  | 261.6  | 0.03   | 20.4   | 78     | 8.04   | 11.1   | 0      | 0.21   | 0      | 60     | 4.67   | -200  | -0.02  | 0      | 28.5   | 4030   | 120   | -0.1  | 57.8   | 0      | 13.4   |
| 252324    | 638072.0                    | 3927766.0                    | 0.0003 | 0.023  | -0.01  | 187.3  | -0.02  | 11.8   | 55.7   | 5.47   | 10.3   | 0      | 0.16   | 0      | 16.1   | 3.61   | -200  | -0.02  | 0      | 8.8    | 3370   | 15    | -0.1  | 80.8   | 0      | 17.8   |
| 252326    | 638142.0                    | 3927627.0                    | 0.0018 | 0.019  | -0.01  | 567.9  | -0.02  | 22.8   | 104.3  | 5.11   | 13.6   | 0      | 0.15   | 0      | 47.4   | 2.92   | -200  | -0.02  | 0      | 5.8    | 5760   | 155   | -0.1  | 120.1  | 0      | 9.7    |
| 252347    | 636874.0                    | 3929240.0                    | -0.005 | 0.018  | -0.01  | 81.3   | 0.05   | 7.4    | 4      | 3.15   | 3.7    | 0      | 0.24   | 0      | 9.7    | 24.29  | -200  | -0.02  | 0      | 15.2   | 2000   | 22    | -0.1  | 35.7   | 0      | 297.6  |
| 252329    | 636580.0                    | 3929058.0                    | -0.005 | 0.004  | -0.01  | 37.4   | -0.02  | 13     | 9.2    | 2.98   | 4.2    | 0      | 0.16   | 0      | 5.6    | 1.8    | -200  | -0.02  | 0      | 14.8   | 10     | 9     | -0.1  | 21.2   | 0      | 82.7   |
| 252349    | 636866.0                    | 3929273.0                    | 0.0022 | 0.019  | 0.2    | 148.3  | -0.02  | 10.9   | 3      | 2.81   | 8.5    | 0      | 0.24   | 0      | 9.3    | 19.75  | -200  | -0.02  | 0      | 12.5   | 2870   | 29    | -0.1  | 71.1   | 0      | 222.6  |
| 252327    | 638143.0                    | 3927635.0                    | -0.005 | 0.017  | -0.01  | 135.7  | -0.02  | 9.1    | 51.2   | 1.89   | 5.1    | 0      | 0.18   | 0      | 20.5   | 2.17   | -200  | -0.02  | 0      | 4.8    | 3130   | 60    | -0.1  | 52.1   | 0      | 8.5    |
| 284803    | 634010.0                    | 3928264.0                    | -0.005 | 0.014  | 0.2    | 95.4   | -0.02  | 6.1    | 11.8   | 1.73   | 6.2    | 0      | 0.13   | 0      | 6.7    | 6.43   | -200  | -0.02  | 0      | 23.7   | 1590   | 28    | -0.1  | 53.8   | 0      | 9.3    |
| 252325    | 638136.0                    | 3927629.0                    | -0.005 | 0.022  | -0.01  | 13.3   | -0.02  | 0.8    | 4      | 1.3    | -0.1   | 0      | 0.11   | 0      | 1.3    | 3.95   | -200  | -0.02  | 0      | 4.9    | 90     | 3     | -0.1  | 3.3    | 0      | 40.8   |
| 258411    | 635138.0                    | 3929305.0                    | 0      | -0.3   | 5      | 1701   | -5     | 12     | 99     | 28     | 22     | 62     | -1     | 8      | 10     | 10     | 32    | -2     | 2      | 291    | 1756   | 50    | -2    | 42     | 0      | 21     |
| 258408    | 635045.0                    | 3929422.0                    | 0      | -0.3   | 5      | 1790   | -5     | 12     | 116    | 23     | 22     | 48     | -1     | 10     | 10     | 10     | 94    | -2     | 1      | 191    | 2624   | 54    | -2    | 70     | 0      | -20    |
| 258405    | 635585.0                    | 3928672.0                    | 0      | -0.3   | 6      | 1449   | -5     | 16     | 103    | 19     | 23     | 29     | -1     | 4      | 13     | 12     | 58    | -2     | 2      | 129    | 849    | 73    | -2    | 47     | 0      | -20    |
| 258412    | 635158.0                    | 3929316.0                    | 0      | -0.3   | 12     | 2159   | -5     | 12     | 96     | 18     | 23     | 40     | -1     | 6      | 12     | 12     | 186   | -2     | 1      | 204    | 1736   | 58    | -2    | 69     | 0      | -20    |
| 258409    | 635036.0                    | 3929413.0                    | 0      | -0.3   | 5      | 1749   | -5     | 11     | 114    | 17     | 22     | 35     | -1     | 10     | 10     | 16     | 64    | -2     | 1      | 184    | 2427   | 50    | -2    | 71     | 0      | -20    |
| 258403    | 635904.0                    | 3928998.0                    | 0      | -0.3   | 6      | 1746   | -5     | 1      | 204    | 6      | 20     | 23     | -1     | 2      | 7      | 22     | 421   | -2     | 1      | 303    | 296    | 15    | -2    | 10     | 0      | -20    |
| 258410    | 635092.0                    | 3929378.0                    | 0      | -0.3   | 5      | 1270   | -5     | 13     | 120    | 5      | 14     | 13     | -1     | 5      | 16     | 14     | 199   | -2     | 1      | 158    | 1107   | 36    | -2    | 104    | 0      | -20    |
| 258407    | 635864.0                    | 3929002.0                    | 0      | -0.3   | 10     | 227    | -5     | 14     | 329    | 2      | -5     | 51     | 2      | -1     | 28     | 8      | 93    | -2     | -1     | 125    | 56     | 45    | -2    | 289    | 0      | -20    |
| 258404    | 634651.0                    | 3929441.0                    | 0      | -0.3   | 3      | 455    | -5     | 5      | 234    | 1      | 14     | 19     | -1     | 9      | 12     | 23     | 68    | -2     | -1     | 145    | 1348   | 27    | -2    | 31     | 0      | -20    |
| 258413    | 636870.0                    | 3929249.0                    | 0      | -0.3   | 3      | 695    | -5     | 3      | 136    | -1     | 16     | 7      | -1     | 7      | 6      | 32     | 31    | -2     | -1     | 165    | 1191   | 9     | -2    | -3     | 0      | 88     |
| 258414    | 636868.0                    | 3929255.0                    | 0      | -0.3   | 2      | 705    | -5     | 7      | 161    | -1     | 20     | 11     | -1     | 13     | 10     | 40     | 69    | -2     | -1     | 159    | 2392   | 20    | -2    | -3     | 0      | 177    |
| 285480    | 637213.0                    | 3926479.0                    | -0.005 | -0.5   | 12     | 5350   | -5     | 13.1   | 118    | 2470   | 5.18   | 51.2   | -2     | 31.2   | 44     | 10.9   | 1830  | -5     | -5     | 325    | 620    | 36.9  | -5    | 52.4   | 41     | 6.5    |
| 252443    | 637211.0                    | 3926462.0                    | 0.073  | 0.626  | 14.8   | 5840   | 29.5   | 5.58   | 92.6   | 481    | -5     | -2     | 5.25   | 40.8   | 16.5   | 26.3   | 1540  | -5     | -5     | 182    | 24.3   | -5    | -5    | 16.3   | 2.08   | -1     |
| 257498    | 637204.0                    | 3926446.0                    | 0.026  | -0.5   | 11.9   | 6310   | 10.3   | 5      | 90.8   | 215    | -5     | 16.8   | -2     | 36.6   | 10.7   | 13.9   | 1620  | -5     | -5     | 178    | 42.2   | 8.1   | -5    | 23.2   | 2.72   | -1     |
| 285479    | 637213.0                    | 3926480.0                    | -0.005 | -0.5   | -5     | 1770   | -5     | 3.38   | 49.8   | 29.4   | 10.2   | 8.15   | 4.55   | 7.05   | 10.4   | 48.8   | 382   | -5     | -5     | 415    | 477    | 13.9  | -5    | 18.6   | 22.6   | 7.96   |
| 252416    | 632472.0                    | 3928859.0                    | -0.005 | -0.5   | -5     | 634    | -5     | 4.6    | 21.8   | 5.65   | 16.6   | 13.3   | -2     | 10.6   | 4.22   | 16.9   | -50   | -5     | 5.92   | 297    | 1170   | 19.6  | -5    | 38.9   | 15.1   | 7.21   |
| 285481    | 637189.0                    | 3926455.0                    | -0.005 | -0.5   | -5     | 511    | -5     | 2.22   | 31.6   | 4.55   | 6.9    | 2.58   | 2.05   | 49.5   | 4.18   | 11.8   | 235   | -5     | -5     | 148    | 324    | 8.8   | -5    | 10     | 5.05   | 8.45   |
| 285484    | 634186.0                    | 3928259.0                    | -0.005 | -0.5   | -5     | 386    | -5     | -2     | 38.7   | 215    | 10.5   | 2.22   | -2     | -5     | -2     | 48     | 63    | -5     | -5     | 103    | 276    | -5    | -5    | 15.5   | 11.1   | 4.3    |

**ASX RELEASE**

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**SHARES ON ISSUE**

146,666,665

## Compliance Statements

### Forward-Looking Statements

This document may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of the Company. Actual values, results or events may be materially different to those expressed or implied in this document. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. No representation is made that, in relation to the tenements the subject of this presentation, the Company has now or will at any time the future develop resources or reserves within the meaning of the Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves.

### Cautionary Statement

Visual estimates described in the announcement are a guide only and should never be considered a proxy or substitute for laboratory analysis. Only subsequent laboratory geochemical assay can be used to determine grade of mineralisation. LKY will always update shareholders when laboratory results become available.

### Competent Persons

The information in this document that relates to exploration targets, exploration results, mineral resources or ore reserves is based on information compiled by David Ward BSc, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy (AUSIMM), (Member 228604). David Ward is a shareholder of Locksley Resources Ltd. David Ward has over 25 years of experience in metallic minerals mining, exploration and development and 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 under the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Ward consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

# JORC Code, 2012 Edition – Table 1 report template

## Section 1 Sampling Techniques and Data

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



| Criteria              | JORC Code explanation   | Commentary  |
|-----------------------|---|---|
| Sampling techniques   | <ul style="list-style-type: none"> <li>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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>The rockchip samples referred to in this announcement were rockchip samples collected by a team of trained geologists over a three separate surface geochemical programs completed since Locksley Resources Limited acquired the Mojave Project, located in San Bernardino County, CA. A total of 116 rockchip samples located within Mojaves' North and North-East Block claims, have been assayed for a suite of elements including antimony, gold, base metals, and rare earth elements. Rare-earth-element results have previously been announced in releases dated 20 September and 23 September 2023.</li> <li>Multi-element analysis was completed for all elements using fire assay (FA-ICP) and inductively coupled plasma (M-ICP-35_4A) analysis by American Analytical Services (AAS), Aqua Regia digestion Ultratrace ICP-MS (AQ-250) by Bureau Veritas (BV), and P-C7B3, P-4AB51, Inductively Coupled Plasma IO-4AB51 and IO-NFEx by American Analytical Laboratories (AAL) for rockchip analysis.</li> </ul> |
| Drilling techniques   | <ul style="list-style-type: none"> <li>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).</li> </ul>   | <ul style="list-style-type: none"> <li>No drilling reported.</li> </ul>   |
| Drill sample recovery | <ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>  | <ul style="list-style-type: none"> <li>No drilling reported.</li> </ul>   |
| Logging               | <ul style="list-style-type: none"> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or</li> </ul>   | <ul style="list-style-type: none"> <li>Lithology, alteration, and mineralisation were logged for each rockchip sample collected, and where available, orientation of dip and dip direction were recorded.</li> <li>The nature and sample occurrence were noted.</li> </ul>  |



| Criteria                                       | JORC Code explanation  | Commentary  |
|--|--|---|
|  | <p><i>costean, channel, etc) photography.</i></p> <ul style="list-style-type: none"> <li><i>The total length and percentage of the relevant intersections logged.</i></li> </ul>   | <ul style="list-style-type: none"> <li>Logging was qualitative or quantitative nature.</li> </ul>   |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> <li><i>If core, whether cut or sawn and whether quarter, half or all core taken.</i></li> <li><i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i></li> <li><i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i></li> <li><i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i></li> <li><i>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.</i></li> <li><i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i></li> </ul> | <ul style="list-style-type: none"> <li>No sub-sampling</li> <li>Rock chip samples were collected using a geopick at the geologist's discretion.</li> </ul>  |
| Quality of assay data and laboratory tests     | <ul style="list-style-type: none"> <li><i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i></li> <li><i>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.</i></li> <li><i>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.</i></li> </ul>  | <ul style="list-style-type: none"> <li>The 116 rockchip samples collected and referred to within this release were systematically sampled and numbered, and samples were submitted to American Analytical Services (AAS), Bureau Veritas (BV), and American Analytical Laboratories (AAL) after each of the three surface geochemical sampling programs were completed. Analysis was undertaken for Au by fire assay and a 38 multi-element ICP suite.</li> <li>12 blank samples and 16 certified reference materials combined a total of 116 samples submitted to AAS for analysis.</li> <li>No geophysical tools were used in the determination of assay results regarding the samples highlighted in the press release.</li> </ul> |
| Verification of sampling and assaying          | <ul style="list-style-type: none"> <li><i>The verification of significant intersections by either independent or alternative company personnel.</i></li> <li><i>The use of twinned holes.</i></li> <li><i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i></li> <li><i>Discuss any adjustment to assay data.</i></li> </ul>  | <ul style="list-style-type: none"> <li>No sample pulps containing elevated grades have been re-assayed by either independent alternative company personnel for verification.</li> <li>Data has been uploaded to the LKY geochemistry database.</li> </ul>   |
| Location of data points                        | <ul style="list-style-type: none"> <li><i>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.</i></li> <li><i>Specification of the grid system used.</i></li> <li><i>Quality and adequacy of topographic control.</i></li> </ul>   | <ul style="list-style-type: none"> <li>Methods used to obtain location of samples is a hand-held GPS with an accuracy of +-5m.</li> <li>All rockchip sample locations were obtained using Universal Transverse Mercator NAD83 Zone11 format.</li> </ul>   |

| Criteria  | JORC Code explanation  | Commentary   |
|---|--|--|
| Data spacing and distribution                           | <ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>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.</li> <li>Whether sample compositing has been applied.</li> </ul>                                 | <ul style="list-style-type: none"> <li>Data spacing is variable.</li> <li>Sampling is not sufficient to calculate a mineral resource estimate.</li> <li>No sample compositing has been applied.</li> </ul>   |
| Orientation of data in relation to geological structure | <ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>Samples were collected within the boundary of the North Block and North-East Block claims from outcropping rock units, around historic workings and prospecting pits.</li> </ul>  |
| Sample security   | <ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>  | <ul style="list-style-type: none"> <li>The sample chain of custody has been managed by the employees of Locksley Resources Limited and US based MINEX. Samples were collected, bagged, and tied in numbered coded calico bags, grouped together into larger tied polyweave bags. Bagged samples were delivered to AAS, BV, and AAL by MINEX and Locksley Resources representatives soon after the surface sampling program was completed.</li> </ul> |
| Audits or reviews                                       | <ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>  | <ul style="list-style-type: none"> <li>Data and sampling techniques have not been reviewed or audit.</li> </ul>  |

## 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 | <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> | <p>The Mojave Project combines to a total area of 18.74 km<sup>2</sup> and is a Rare Earth Element (REE) project located to the east and southeast of the Mount Pass Mine in San Bernardino Country, California. The project area lies to the north of and adjacent to Interstate-15 (I-15), approximately 24 km southwest of the California-Nevada state line and approximately 48 km northeast of Baker, California USA. This area is part of the historic Clark Mining District established in 1865. The project is accessed via the Baily Road Interchange (Exit 281 of I-15) and the southern extensions of the project area can be accessed via Zinc Mine road.</p> |

| Criteria                          | JORC Code explanation   | Commentary  |
|-----------------------------------|---|---|
| Exploration done by other parties | <ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>   | <ul style="list-style-type: none"> <li>Rockchip sampling was completed by Locksley Resources staff in conjunction with MINEX staff, who assisted Locksley with site familiarisation, sampling, and logistical aspects of the rockchip sampling program.</li> </ul>  |
| Geology                           | <ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>   | <p>The Mojave Project is located in the southern part of the Clark Range in the northern Mojave Desert. The Mojave Desert is situated in the southwestern part of the Great Basin province, a region extending from central Utah to eastern California. The region is characterised by intense Tertiary regional extension deformation. This deformational event has resulted in broad north-south trending mountain ranges separated by gently sloping valleys, a characteristic of Basin and Range tectonic activity. The Mountain Pass Rare Earth deposit is located within an uplift block of Precambrian metamorphic and igneous rocks that are bounded on the southern and eastern margins by basin-fill formations in the Ivanpah Valley. The block is separated from Palaeozoic and Mesozoic rocks to the west by the Clark Mountain fault, which strikes north-northwest and dips steeply to the west.</p> <p>The Desert Antimony Mine located in the northern portion of the North Block within the Clark Mountain District of San Bernadino, CA, contains quartz-stibnite veining hosted within a granite gneiss striking N20E and dipping 75W with a known width of 1.22m highlighted from historical reporting. The extent of the ore body is unknown.</p> <p>Historic production ranged from 100 to 1,000 tons with Sb grades ranging from 15 to 20%.</p> |
| Drill hole Information            | <ul style="list-style-type: none"> <li>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: <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>No drilling reported.</li> </ul>   |



| Criteria   | JORC Code explanation   | Commentary  |
|--|---|---|
| Data aggregation methods   | <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul> | <ul style="list-style-type: none"> <li>No data aggregation, all results mentioned in the body of the press release are reported.</li> </ul>   |
| Relationship between mineralisation widths and intercept lengths | <ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>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').</li> </ul>   | <ul style="list-style-type: none"> <li>No drilling reported. True widths of mineralisation cannot be interpreted from the results received to date.</li> <li>The geological boundaries of the prospective horizon are interpreted from remote sensing imagery using both historic workings and historical accounts of mineralisation strike and orientation at the Desert Antimony Mine.</li> </ul> |
| Diagrams   | <ul style="list-style-type: none"> <li>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.</li> </ul>  | <ul style="list-style-type: none"> <li>No drilling reported. Locations of all significant results are shown in the body of the announcement.</li> </ul>   |
| Balanced reporting   | <ul style="list-style-type: none"> <li>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.</li> </ul>   | <ul style="list-style-type: none"> <li>All material results are shown in the body of the announcement.</li> </ul>   |
| Other substantive exploration data                               | <ul style="list-style-type: none"> <li>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.</li> </ul>   | <ul style="list-style-type: none"> <li>All material results are shown in the body of the announcement.</li> <li>Other multielement geochemistry collected that were either for bulk elements or close to/below detection and not of material significance.</li> </ul>   |
| Further work   | <ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>   | <ul style="list-style-type: none"> <li>The rockchip sampling program was a first pass exploration tool for in the area, if elevated antimony values are obtained from analysis in the upcoming rockchip sampling program, further work may, but not limited to geophysical surveys and drilling.</li> </ul>   |