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**Australian Securities Exchange Announcement**

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**27 July 2020****HIGHLIGHTS**

- The Speewah Specialty Metals (SSM) Project Prefeasibility Study has advanced with the production of >4N (>99.99% Al<sub>2</sub>O<sub>3</sub>) High Purity Alumina (HPA), with further process optimisation underway to improve recoveries, and testwork to verify grade and alumina phase.
- ❖ KRR announced a Security Purchase Plan to raise funds for ongoing development studies on the HPA and V-Ti project, complete further exploration on the Mt Remarkable and Tennant Creek gold project areas, and for working capital.

During the June quarter 2020 King River Resources Ltd (ASX:KRR) reported on metallurgical testwork results and progress in compiling the Speewah Prefeasibility Study ("PFS") on the company's 100% owned Speewah Specialty Metals ("SSM") Project in the East Kimberley of Western Australia. KRR plans to initially scale the SSM project to produce High Purity Alumina (HPA), with Vanadium (V<sub>2</sub>O<sub>5</sub>), Titanium (TiO<sub>2</sub>) and Iron (Fe oxide) as potential co-products at a later stage, but not included as part of the PFS. This should significantly reduce the size of the project, with the potential to reduce the capex and maximise returns.

**Production of 4N HPA**

In April KRR reported on the production of the first >4N (99.99% Al<sub>2</sub>O<sub>3</sub>) High Purity Alumina (HPA) by a new process developed by our metallurgical consultants TSW Analytical Pty Ltd (TSW) (KRR ASX release 23 April 2020). Several developments were highlighted:

- ❖ TSW made a breakthrough in extracting aluminium (Al) directly from the V, Ti, Fe, Al and Mg rich sulphuric acid leach solution as the first crude Al rich precipitation product (KRR ASX release 26 November 2019) from which 99.98% Al<sub>2</sub>O<sub>3</sub> HPA was produced (KRR ASX release 6 December 2019). Subsequent refinement of the crude Al precipitation process has resulted in Al precipitation efficiencies up to 95% and understanding how to reduce the amount of reagent used in the Al precipitation process.
- ❖ The Al rich precipitate from the leachate was purified by a two stage purification process to reduce contaminant metals to very low levels in a precursor product suitable for production of 4N HPA. Stage 1 Recrystallisation process recovers 95% Al and Stage 2 involves an Ion Exchange process that further removes contaminants.
- ❖ The purified precursor product was calcined at 1100°C to convert to alumina (Al<sub>2</sub>O<sub>3</sub>) and washed to remove more impurities. The final high purity alumina assayed >99.99% Al<sub>2</sub>O<sub>3</sub>. The assay result was calculated on an oxide basis, where impurities are converted to oxides then subtracted from 100%. The main contaminant metal oxides in this 4N HPA product are Ca and Mg, with lesser amounts of Na, K, Mn, Si and Fe.

## PFS Updates

During the quarter, KRR provided further updates on metallurgical testwork and work underway to complete the PFS, including:

- ❖ Hydrometallurgical testwork and flowsheet development, including:
  - Calcination of the HPA precursor at 1200°C has helped reduce transfer losses and Al previously lost on final wash, and this should convert the HPA product to alpha-alumina (KRR ASX release 17 June 2020);
  - Stage 2 purification precipitation recovery of 81.5% Al has been achieved. The target recovery for this stage of the process for the PFS was set at 80% (KRR ASX release 17 June 2020);
  - Identification of some sources of contamination in the reagents used and from some equipment;
  - Solvent extraction testwork is also underway to produce V<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub> and Fe oxide products, using leachates from the magnetic magnetite-ilmenite concentrates.
  - The following hydrometallurgical testwork and studies are outstanding:
    - Using the process refinements outlined above, plans to repeat the previously reported 4N HPA product (>99.99% Al<sub>2</sub>O<sub>3</sub>) result to produce a larger sample to provide for verification analyses;
    - Confirm our HPA is 100% alpha-alumina by an X-Ray Diffraction (XRD) analysis;
    - Further testwork to improve overall recoveries and reduce reagent and acid consumptions;
- ❖ The Mining study by CSA Global is complete, in addition to the marketing and environmental reports.
- ❖ Como Engineers plant and infrastructure design and costings are largely completed waiting on final model validation and review.

The Company aims to release the PFS as soon as practicable on completion of these remaining outcomes.

## Corporate

The Company's cash position as at 30 June 2020 was \$578,178.

During the quarter ended 30 June 2020 the Company received a Research & Development Tax Rebate of \$385,064.

The Company also increased the loan facility to \$500,000 with a Harvey Springs Estate Pty Ltd, a company controlled by Anthony Barton. The lending facility is non-interest bearing and unsecured. The maturity date was extended to 30 June 2021. The loan facility was drawn down in full before 30 June 2020 to fund prefeasibility expenditure and working capital.

The Company is undertaking the following capital raising activities to fund ongoing development and exploration of the Company's projects and general working capital.

- On 23 June 2020 and 9 July 2020 KRR released an ASX announcement to offer eligible shareholders to participate in a Security Purchase Plan (SPP) with an issue price of \$0.033 per share and 1 free attaching option for every 2 shares issued. The SPP is scheduled to close on 14 August 2020 at which time the additional funds received will be announced; and
- On 16 July 2020 KRR released an ASX announcement for a placement to raise \$2,000,000 from professional and sophisticated investors. The placement was completed on 27 July 2020 and \$2,000,000 funds have been received.

With regards to the item 6.1 of the Appendix 5B, the amount totaling \$1,350 are costs paid to an associate entity of Directors for office representation expenses. There were no director fees paid during the quarter and the Directors have continued to defer payments of director fees.

## Statement by Competent Person

The information in this report that relates to Exploration Results, Mineral Resources, Metallurgy and Studies is based on information compiled by Ken Rogers (BSc Hons) and fairly represents this information. Mr. Rogers is the Chief Geologist and an employee of King River Resources Ltd, and a Member of both the Australian Institute of Geoscientists (AIG) and The Institute of Materials Minerals and Mining (IMMM), and a Chartered Engineer of the IMMM. Mr. Rogers has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Rogers consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

This announcement was authorised by the Chairman of the Company.

### Anthony Barton

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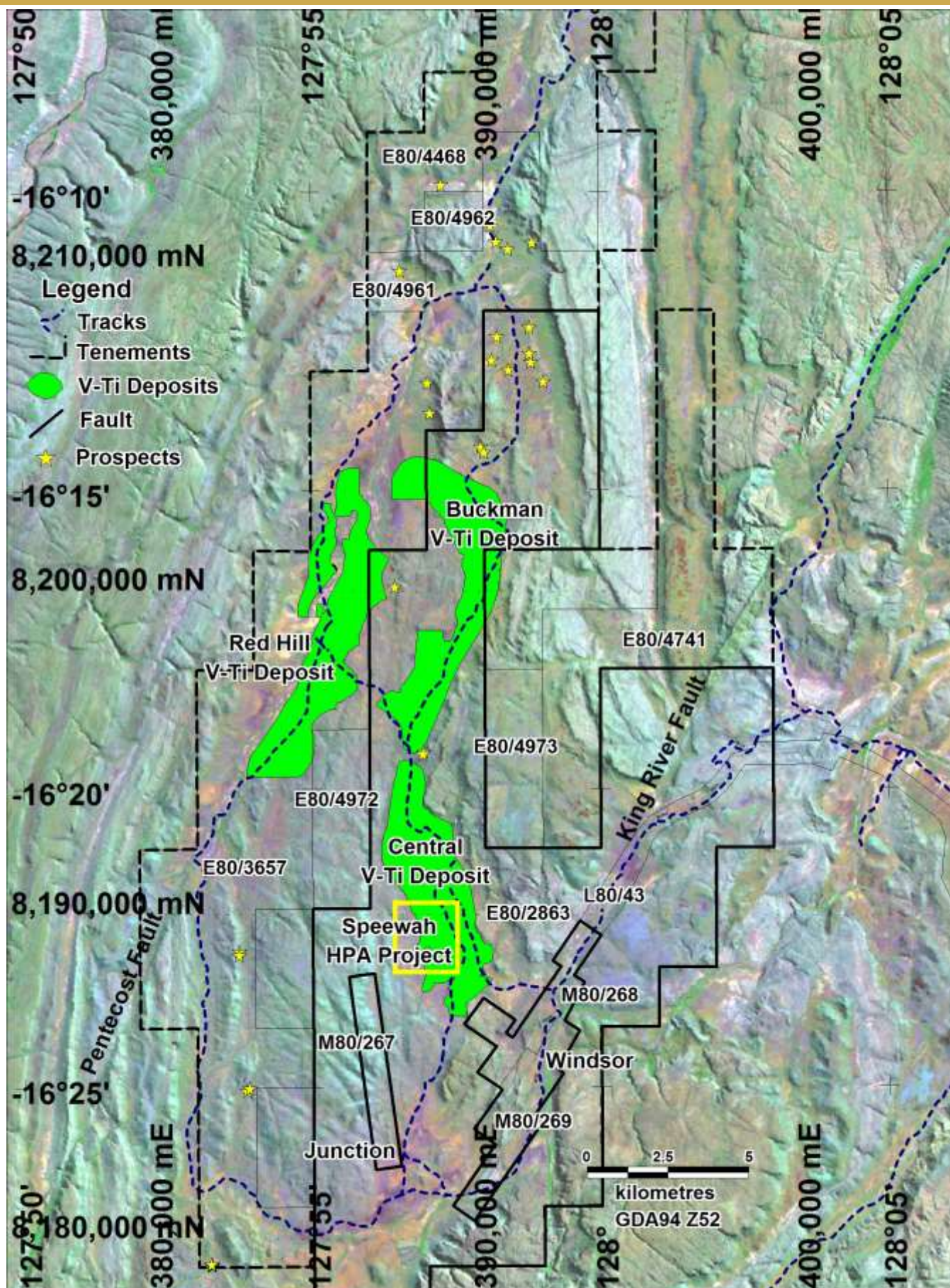


Figure 5: Location of the Central, Buckman and Red Hill vanadium deposits, the HPA Project (yellow box), and the Junction Prospect on Mining Lease M80/267 at Speedwah.

**TABLE 1: SCHEDULE OF TENEMENTS HELD AT 31 JUNE 2020**  
**SPEEWAH MINING PTY LTD and WHITEWATER MINERALS PTY LTD**  
**(wholly-owned subsidiaries of King River Resources Limited)**

| Tenement   | Project                                                   | Ownership | Change During Quarter   |
|------------|-----------------------------------------------------------|-----------|-------------------------|
| E80/2863   | Speewah<br>(held by Speewah<br>Mining Pty Ltd)            | 100%      |                         |
| E80/3657   |                                                           | 100%      |                         |
| E80/4468   |                                                           | 100%      |                         |
| E80/4741   |                                                           |           | Surrendered 19 May 2020 |
| E80/4831   |                                                           | 100%      |                         |
| E80/4961   |                                                           | 100%      |                         |
| E80/4962   |                                                           | 100%      |                         |
| E80/4972   |                                                           | 100%      |                         |
| E80/4973   |                                                           | 100%      |                         |
| L80/43     |                                                           | 100%      |                         |
| L80/47     |                                                           | 100%      |                         |
| M80/267    |                                                           | 100%      |                         |
| M80/268    |                                                           | 100%      |                         |
| M80/269    |                                                           | 100%      |                         |
| E80/5007   | Mt Remarkable<br>(held by Whitewater<br>Minerals Pty Ltd) | 100%      |                         |
| E80/5133   |                                                           | 100%      |                         |
| E80/5176   |                                                           | 100%      |                         |
| E80/5177   |                                                           | 100%      |                         |
| E80/5178   |                                                           | 100%      |                         |
| ELA80/5192 |                                                           | 100%      |                         |
| ELA80/5193 |                                                           | 100%      |                         |
| E80/5194   |                                                           | 100%      |                         |
| E80/5195   |                                                           | 100%      |                         |
| E80/5196   |                                                           | 100%      |                         |

Note:

E = Exploration Licence (granted)    ELA = Exploration Licence (application)

M = Mining Lease (granted)         L = Miscellaneous Licence (granted)

**TREASURE CREEK PTY LTD**  
(wholly-owned subsidiary of King River Resources Limited)

| Tenement | Project       | Ownership | Change During Quarter |
|----------|---------------|-----------|-----------------------|
| EL31617  | Tennant Creek | 100%      |                       |
| EL31618  |               | 100%      |                       |
| EL31619  |               | 100%      |                       |
| EL31623  |               | 100%      |                       |
| EL31624  |               | 100%      |                       |
| EL31625  |               | 100%      |                       |
| EL31626  |               | 100%      |                       |
| EL31627  |               | 100%      |                       |
| EL31628  |               | 100%      |                       |
| EL31629  |               | 100%      |                       |
| EL31633  |               | 100%      |                       |
| EL31634  |               | 100%      |                       |
| EL32199  |               | 100%      |                       |
| EL32200  |               | 100%      |                       |
| ELA32344 |               | 100%      |                       |
| ELA32345 |               | 100%      |                       |

Note:

EL = Exploration Licence (granted)

ELA = Exploration Licence (application)