

ASX ANNOUNCEMENT

2 December 2024

SUVO RECEIVES LETTER OF SUPPORT FROM VICTORIAN GOVERNMENT AGENCY 'LXRP'

HIGHLIGHTS

- Suvo has received a letter of support from the Level Crossing Removal Project (LXRP), a Victorian government agency, offering field trial opportunities for low carbon construction materials on LXRP projects.
- Deakin University has been engaged to formulate various lower embodied carbon concrete mixes, utilising kaolin from the Company's 100% owned Pittong operation.
- The test work to be performed by Deakin University aims to substitute up to 70% of Portland cement using the Company's kaolin. The resulting lower embodied carbon concrete mixtures will form part of the field trials offered by LXRP.
- LXRP intends to assist Suvo to navigate the technical and commercial approval processes involved in introducing new low carbon products to market.

Suvo Strategic Minerals Limited (ASX: SUV) ("Suvo" or "the Company") is pleased to announce that it has received a letter of support from the Level Crossing Removal Project (LXRP), a Victorian government agency, to collaborate on utilizing lower embodied carbon concrete manufactured using kaolin from Suvo's 100% owned Pittong operation, in field trial opportunities, on LXRP projects,

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Typical calcined kaolin cement blends have a clinker replacement factor of 0.5 and therefore can have an embodied carbon reduction of about ~40%. Due to the lower embodied carbon, calcined kaolin cement blends are seen as an important materials change to increase sustainability of Victoria's major projects.

LXRP, as part of its decarbonisation strategy, will require the introduction of low carbon and price competitive construction materials. Suvo's hydrous kaolin, from its Pittong operation, offers the potential for production of a lower embodied carbon concrete which will form part of the field trials offered by LXRP.

Consequently, Deakin University has been engaged to formulate various lower embodied carbon concrete mixes, utilising kaolin from the Company's 100% owned Pittong operation.

Deakin University's Institute for Frontier Materials (IFM), will develop various mixes using a low cost hydrous kaolin supplied by Suvo, targeting the formulation of structural, 50 Megapascal concrete. The formulation developed at this stage will comprise approximately 50% Portland cement replacement with the second stage testing program targeting to develop up to 70% Portland cement replacement.

The resulting lower embodied carbon concrete mixtures developed will form part of the field trials offered by LXRP.

Executive Chairman Aaron Banks commented:

"We are excited to commence our 3rd vertical for the business. Having successfully set up with PERMAcast and further advancing testing in Indonesia with PT Huadi on our one-part geopolymer binder, we now look to create our "transition piece" – our calcined kaolin cement.

As we develop our low carbon geopolymer binders it is important to run in parallel this transition piece as calcined kaolin is well understood in the market as a Class 1 'Supplementary Cementitious Material' and it potentially represents a quicker pathway to revenue.

Traditionally, you can swap out 50% of Portland cement with calcined kaolin, which is a great start, but first prize for us would be the ability to create a formulation removing up to 70% of Portland cement.

Being the only hydrous kaolin producer in the Country, we arguably have the first mover advantage to commence production as soon as the formulations are complete. Our aim is to utilize low-cost secondary kaolin where the majority of the cost has been booked to our primary high-end kaolin that we currently sell to existing clients.

The Company has a number of options to consider for the supply of our kaolin as a supplementary cementitious material. The Company could partner with an existing cement company or could consider buying Portland cement and manufacturing the low carbon binder, much like we manufacture and supply kaolin formulations already. Assuming completion of a successful formulation, Suvo could then move to a financial study to consider the options.

We are very pleased to receive the letter of support from LXP and we look forward to working with them alongside Deakin University to introduce low carbon and price competitive binders into major infrastructure projects in the Victorian market."

Approved for release by the Board

–ENDS–

For further information, please contact

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Company Profile

Suvo Strategic Minerals Limited is an Australian hydrous kaolin producer listed on the Australian Securities Exchange (ASX:SUV). Suvo is focused on expanding sales of hydrous kaolin produced at its 100% owned Pittong operation located 40km west of Ballarat in Victoria. Suvo is also progressing commercialisation of the 'Murdoch Technology', namely Intellectual Property for a geopolymer concrete batching plant a low carbon geopolymer concrete formulation known as 'Collicrete', which it licenses under a worldwide and exclusive Intellectual Property License Agreement.

Pittong Operations

The 100% owned Pittong Operations, located in Victoria 40km west of Ballarat, is the sole wet kaolin mine and processing plant in Australia and has been in operation since 1972. Pittong comprises the Pittong, Trawalla and Lal Lal deposits located on approved Mining Licences MIN5408, MIN5365 and MIN5409 respectively. The Pittong processing plant has a name-plate capacity of 60,000 tonnes per annum.

At Pittong mining contractors deliver crude kaolin ore to stockpiles from the two currently operating mines, Pittong and Lal Lal. The plant takes its feedstock from the ROM and it is processed into four separate product forms for end users. These product forms are 10% moisture lump, high solids slurry, 1% moisture powder and 1% moisture pulverised powder. The solids slurry is used in paper and board manufacturing. The other products are used in paper, coatings, paint and specialist industries including rubber and pharmaceutical applications.

Low Carbon Cement and Concrete IP and Commercialisation

Suvo licenses the 'Murdoch Technology' from Murdoch University under a worldwide and exclusive Intellectual Property License Agreement. The Murdoch Technology is namely Intellectual Property for a geopolymer concrete batching plant a low carbon geopolymer concrete formulation known as 'Collicrete'.

Geopolymer concrete is a low carbon concrete that is made by reacting aluminate and silicate bearing materials with a caustic activator, such as metakaolin, flyash, ground blast furnace slag and other waste derived materials. Geopolymer concrete is a suitable replacement for concrete made using the traditional binder known as Ordinary Portland Cement (OPC). The manufacture of OPC is a highly emitting process representing 8% of global CO₂ emissions which is equivalent to the entire global car fleet.

Suvo has entered into a binding Joint Development Agreement (JDA) with PERMAcast and has incorporated a joint venture entity (SPV Entity) to develop and commercialise low-carbon geopolymer concrete (GPC) products. Under the binding JDA, Suvo and PERMAcast will prepare and test various formulations, assess their suitability for different applications, and determine the best route for commercialisation through the jointly-owned special purpose vehicle.