



## Pure Minerals Limited

10 July 2019

### ASX Announcement

#### PRE-FEASIBILITY STUDY UPDATE

Pure Minerals Limited (ASX:PM1) ("**PM1**" or "**the Company**") is pleased to provide an update to the market with respect to the progress of its wholly owned subsidiary, Queensland Pacific Metals Pty Ltd's ("**QPM**") Pre-Feasibility Study (**PFS**) for the TECH Project.

As previously announced, QPM has appointed Lycopodium Minerals Pty Ltd ("**Lycopodium**") as lead engineer for the PFS (see ASX announcement 17 May 2019). The Lycopodium PFS work program incorporates two major engineering plant design packages for the processing of laterite ore to produce a mixed hydroxide precipitate (**PFS**) and refining of the MHP to produce battery grade nickel and cobalt sulphate.

The key responsibilities for Lycopodium include:

- Processing;
- Process services and utilities design and engineering;
- Preparation of project capital and operating cost estimates; and
- Compilation of the PFS report, including integration of studies relating to other work packages.

The PFS remains on schedule for completion in this September quarter. A snapshot of progress is provided below:

- Process Design Criteria – 95% complete;
- First draft of Process Flow Diagrams – complete;
- Initial mass and energy METSIM model – complete;
- ASPEN modelling of iron hydrolysis circuit (including liquid-vapour equilibria) – complete;
- Commenced development of equipment specification and discussions with vendors on major equipment packages for pricing;
- Data sheets for impact crusher, rod mill, ore dryer, barren evaporator, magnesium oxide mill, decomposition heaters prepared;
- Electrical supply study to the site has been completed: and
- CSIRO have commenced scoping the critical flowsheet options for the refinery section of the plant.
- The critical flowsheet options work being performed by CSIRO has been subsidised by a \$47,507 grant, which provided by the Department of Industry, Innovation and Science's Innovations Connections program. QPM welcomes this grant and the ongoing support it has received for the TECH project from various levels of government and regulatory bodies.

Managing Director John Downie commented,

*“We are pleased with the ongoing progress of the TECH project. Interest in the project has grown significantly from many different proponents and we look forward to delivering a positive Pre-Feasibility Study for the project.”*

**Further information:**

John Downie

Managing Director

[jdownie@gpmetals.com.au](mailto:jdownie@gpmetals.com.au)

+61 (0) 408 329 262

Luke Forrestal

Media & Capital Partners

[luke.forrestal@mcpartners.com.au](mailto:luke.forrestal@mcpartners.com.au)

+61 (0) 411 479 144