CADOUX KAOLIN HPA PROJECT

SCOPE OF WORK - FEASIBILITY STUDIES

FYI Resources Limited (FYI) is studying the development of the Cadoux Kaolin and High Purity Alumina (HPA) Project located in Western Australia. The Cadoux Kaolin mine site is approximately 220 km northeast of Perth while the refinery to produce HPA is to be located in the Kwinana district. FYI engaged GR Engineering to undertake the Prefeasibility and Definitive Feasibility Study for the design and construction of a beneficiation plant at Cadoux and refinery processing facility with associated infrastructure in Kwinana for the project.

The future project will consist of small open cut mines, washing and beneficiation plant and hydrometallurgical processing techniques to produce a High Purity Alumina products at a minimum of 99.99% Al_2O_3. The processing facility capacity was studied 50,000 t/a of ROM ore with an average grade of 21.3% Alumina to produce an average 8000 t/a of HPA.

The beneficiation plant will upgrade the alumina grade of the ore prior to it being dried and tucked to the HPA refinery. The HPA refinery will utilise chemical dissolution, purification and calcination techniques to recover the alumina and convert it to high purity alpha phase HPA for various market applications in the battery and LCD industries.

Commodity: High Purity Alumina (HPA)
Region: Australasia
Location: Cadoux District and Kwinana District of Western Australia
Project type: Greenfields, Prefeasibility and Definitive Feasibility Study

Client: FYI Resources Limited
Award date: January 2019
Completion date: March 2020
Project manager: Jon Errey
Process manager: Bill Gosling