



## FACT SHEET

### OUR COMPANY

Tronox is one of Australia's premier mineral sands miners. Tronox's mining and mineral separation operations, formerly owned by Cristal, are located in the Murray Basin region. Currently we are ranked in the top 10 of global mineral sands producing companies when ranked by production volumes. Tronox is the world's second largest producer of titanium dioxide.

### MURRAY BASIN OPERATIONS

Tronox presently has two operating mines in the Murray Basin. Dredge mining has been in operation at the Ginkgo mine near Pooncarie since December 2005. Surface mining commenced at the nearby Snapper mine in 2010 with the second dredge commencing at Snapper in January 2011. The ore is initially concentrated at site and then trucked to Broken Hill for further processing. Tronox employs 211 staff and over 350 contractors at these operations the majority of which live within the region. It is estimated that the state and region benefit by over \$120M pa in salaries, payments to suppliers and royalties.

### ATLAS – CAMPASPE PROJECT

Tronox is planning to commence a fourth mine called Atlas-Campaspe in the Murray Basin. Atlas-Campaspe is located 80 km north of Balranald and approximately 270 kms from Broken Hill. Because of its remote location, infrastructure support has been a major issue with development. Appropriate transport corridors for HMC to Broken Hill have been studied with the current preference of road transport to Ivanhoe and rail to Broken Hill.

Tronox completed an \$8M feasibility study and Environmental Impact Study (EIS) in 2013. State and Federal Government approval for development was achieved in September 2014 following approval of the EIS. Numerous local and state approvals for road re-alignment, gravel pits and the rail siding have been progressed since 2014. Development on the ground commenced in 2018. At this stage, initial clearing along the mine path has been completed and topsoil stripping, in accordance with the environmental plan, is proceeding. Construction at the site and rail siding is planned to commence in early 2019 with production starting in the second quarter of 2020.

The deposit consists of over 5Mt of contained heavy mineral to be concentrated and processed into ilmenite, leucoxene, zircon and rutile end products. The mine has a mine life of 15-20 years.

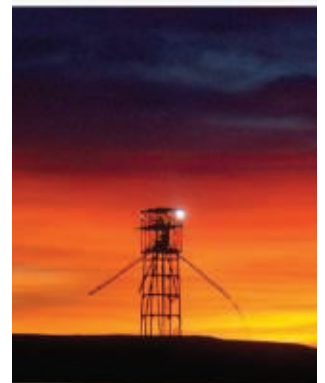
### ECONOMIC IMPACT

The Atlas-Campaspe project will require a capital investment of approximately \$200M (2012 dollars) staged over six years, with an initial upfront cost of \$100M. Over 200 personnel will be required during the construction phase of the project. Approximately 100-150 full-time employees will be required during operation of the site.

Benefits to the local and state economy over the mine life are estimated at over \$1,000M. This would also incorporate a further expansion of the present Broken Hill Plant.

### INFRASTRUCTURE

Power options are presently being considered. Initial power will be via on-site generators. The option to construct a new power line from Balranald will be reviewed at a later date. Heavy Mineral Concentrate (HMC) will be transported by truck from the Atlas-Campaspe mine to Ivanhoe, and then rail the HMC from Ivanhoe to Broken Hill. As part of the transport route, 40 kilometres of unsealed road between the mine and the Balranald to Ivanhoe road will be widened



and upgraded. There is approximately 50 kilometres of unsealed road to the south of Ivanhoe, which is currently being upgraded. Tronox supported a submission put forward by the local shires of Balranald and Central Darling to have this sealed as part of the Wool Track between Balranald and Cobar. The submission was successful and has secured state government funding for this project.

## COMMUNITY

Tronox is keen to involve the local community in development of infrastructure upgrades and future employment opportunities. There has been strong positive support from the local community and in both Ivanhoe and Balranald.

## SUSTAINABILITY & ENVIRONMENT

Tronox has a successful record of rehabilitation in both the east and west of Australia. Jangardup, Yarloop and Sandalwood have been successfully rehabilitated in consultation with the local landowners. Tronox recently completed their first major rehabilitation program in the Murray Basin at Wemen and Ginkgo mine site.

Innovative design has significantly reduced the effects of erosion on the site. Not even the one-in-200-year flooding event that occurred in February 2011 could dampen the efforts.

## MORE INFORMATION

Tronox is proud of its safety and environmental achievements. Please contact us if you would like further information on any aspect of our local operations.

## CONTACTS

Koombana Drive, Bunbury, WA 6230

Telephone: (08) 9721 0200

Email: [cristalmining@cristal.com](mailto:cristalmining@cristal.com)

