

Environment

	2015	2016	2017	2018 [#]	2019 [#]
Environmental incidents					
Level 3 environmental Incidents (number)	11	8	6	20	10
Level 4 environmental incidents (number)	3	3	1	0	3
Level 5 environmental incidents (number)	0	0	0	0	0
Total Level 3-5 environmental incidents (number)	14	11	27	20	13
Fines and prosecutions (number)	-	-	0	0	0
Land footprint					
Land disturbed (hectares)	166	125	20	888	322
Land rehabilitated (hectares)	502	832	230	970 ¹	686
Greenhouse gas emissions					
Scope 1 and 2 emissions (ktCO ₂ e)	436	386	348	495 ²	504
Energy use and resources used					
Energy use (terajoules)	4,537	4,415	4,475	6,899 ³	7,054
Coal (%)	45.7	60.2	66.0	46.4	42.1
Electricity (%)	18.0	19.3	11.0	7.5 ³	8.6
Natural gas (%)	14.3	15.7	15.0	9.9	8.5
LPG (%)	0.0	0.0	0.0	0.0	0
Diesel (%)	21.4	12.4	7.5	36.0	40.6
Petrol (%)	0.5	0.2	0.1	0.08	0.05
Fuel, oil and greases (%)	0.1	0.0	0.2	0.21	0.21
Mineral waste volumes					
Overburden (kilotonnes)	5,943	1,387	981	3,698	4,134
Rock (kilotonnes)	790	298	110	1,839	1,966
Tailings, includes mine and processing tailings, as well as clay fines (kilotonnes)	12,195	4,228	1,880	12,997	20,653

[#] Includes Sierra Rutile.

¹ Includes addition of Green Cove Springs (79 hectares) and Sierra Rutile (85 hectares) rehabilitation completed in 2018, identified during data reconciliation.

² Restatement due to calculation error of double counting some figures for second half of 2018. Previously reported as 509kt CO₂e equates to a decrease of 2.8%. This is not a material change.

³ Restatement due to calculation error of double counting some figures for second half of 2018. Previously reported as 7029 TJ equates to a total decrease of 1.9%. This is not a material change.

	2015	2016	2017	2018	2019
Water resource¹					
Total water used (megalitres)	7,935	6,518	5,862	10,784	13,632
Total water discharged (megalitres)	3,526	4,386	1,869	1,876	1,442
Total water reused and recycled (megalitres)	6,707	129	593	6,018	12,827 ²
Surface water withdrawn (megalitres)	464	25	16	0.04	0.26
Groundwater withdrawn (megalitres)	6,414	5,033	4,404	9,548	12,658
Rainwater collected directly and stored (megalitres)	409	905	1,032	688	437
Municipal water supplies or other water utilities (megalitres)	647	555	410	549	538

¹ Water resource values exclude Sierra Rutile.

² Revised water accounting methodology used for Jacinth-Ambrosia to calculate water reused and recycled.

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2019 mineral waste disposal locations ¹					
	Eucla Basin	South West	Mid West	Sierra Rutile	Total
MINING					
Overburden					
Volume (tonnes)	4,134,202	-	5,925,170	-	4,134,202
Disposal location	Returned to mine void	-	Returned to mine void	-	
Oversize (rock)					
Volume (tonnes)	909,679	-	3,132	1,053,474	1,966,185
Disposal location	Returned to mine void	-	Off-path stockpiles and return to mine void	Off-path stockpiles and return to mine void	
Clay fines, sand tails, co-disposal material (sand and clay)					
Volume (tonnes)	7,694,833	-	6,219,992	6,738,274	20,653,099
Disposal location	Co-disposal in TSF cells within mine void	-	Co-disposal in TSF cells within mine void	Co-disposal within mine void	
PROCESSING					
Mineral separation plant tailings					
Volume (tonnes)	-	4,340	1,670	100,610	106,620
Disposal location	-	Returned to mine void	TSF	TSF and then returned to mine void	
Synthetic rutile plant tailings					
Volume (tonnes)	-	14,213	-	-	14,213
Disposal location	-	Returned to mine void	-	-	

¹ No mining and subsequently mineral waste disposal occurred in the Murray Basin or United States region for the 2019 period.