



APPENDIX P

VIEWPOINT ASSESSMENTS



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Appendix Z – Viewpoint Assessments

Viewpoint M01 – East Wudinna Road



Location	East Wudinna Road, approximately 1.7 km south of intersection with Edmonds Road	
View Direction	Southeast	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	Approximately 27.6 km to the mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	Medium: this viewpoint is located on an unsealed local road used as a tourist access point to Mount Wudinna and the surrounding environment.	
Description	Views southeast from this location toward the mining lease predominantly take in farmland with linear bands of vegetation delineating property boundaries and road reserves. The viewpoint is at a higher elevation than the mining lease, and offers extended views across the landscape. The grain silos at Kyancutta are visible on the horizon as well as a quarry and electricity transmission line in the middle distance.	
Comments	A clear line of site is available to the mine from this viewpoint, however mine site infrastructure would not be a dominant visual element as it is located a significant distance from the viewpoint (approximately 27.6 km). The integrated waste landform would be visible as a low profile linear element on the horizon, to the left of the grain silos at Kyancutta, however smaller components within the mining lease will not be prominent from this viewpoint due to the distance.	
Visual Impact	Negligible: although there are clear views toward the proposed mine from a moderately exposed location, the mine is a substantial distance away from this viewpoint and will largely be visually absorbed into the distant landscape. The integrated waste landform will be visible on the horizon, however is not considered to be a prominent visual element.	

Viewpoint M02 – Wudinna



Location	Medley Terrace, Wudinna
View Direction	Southeast
Landscape Type(s)	Township
Distance from Project	Approximately 25.5 km to mining lease boundary
Sensitivity	High: this viewpoint is located within the township of Wudinna
Exposure	High: this viewpoint is located within the township of Wudinna
Description	This viewpoint is located on Medley Terrace one of the central streets within Wudinna and the location of the school and oval. Views toward the mine are primarily composed of street trees, buildings and structures such as overhead power lines and fences.
Comments	Intervening vegetation, buildings and structures restrict extended views southeast from this viewpoint and will completely screen views of the proposed mine, including the integrated waste landform.
Visual Impact	Nil: no elements within the proposed mining lease will be visible from this location.



Viewpoint M03 – Tod Highway



Location	Tod Highway, approximately 4 km south of the intersection of Eyre Highway
View Direction	Southeast
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	Approximately 8.2 km to mining lease boundary
Sensitivity	Low: this viewpoint primarily comprises farmland
Exposure	High: this viewpoint is located on the Tod Highway
Description	The view southeast from this location mostly takes in farmland with vegetation located along roadsides and property boundaries. A ridgeline in the middle distance restricts extended views across the landscape. Constructed elements within the view include the Port Lincoln to Thevenard railway and a water pipeline adjacent to the Tod Highway. Overhead power lines are also visible and run parallel to the western side of the Tod Highway. Roadside vegetation partially obscures views out across the landscape along much of the Tod Highway, however from this viewpoint there is a clear line of sight toward the proposed mine.
Comments	The proposed mine will largely be screened from view as a result of intervening topography and vegetation. The integrated waste landform is the only component that will be visible from this viewpoint, rising above the ridgeline in the middle distance. The integrated waste landform will only be visible in the later stages of development as it reaches a greater height and extends above the intervening terrain and vegetation.
Visual Impact	Medium: although the viewpoint is located at a highly exposed location, the proposed mine is largely obscured from view as a result of intervening terrain and vegetation. When fully developed, the integrated waste landform will be visible above the ridgeline in the foreground. The capacity of the landscape to absorb the visual impact of the integrated waste landform is enhanced due to the distance from the viewpoint and the presence of intervening vegetation. As a result of the low sensitivity of the landscape, the presence of intervening topography and the capacity of the landscape to absorb additional visual elements, the overall visual impact from this viewpoint is considered to be medium.



Viewpoint M04 – Warrambo



Location	Tod Highway, Warrambo, at the intersection of South Terrace
View Direction	Northeast to southeast
Landscape Type(s)	Flat to Gently Undulating Farmland, Township
Distance from Project	Approximately 1 km to the mining lease boundary
Sensitivity	Medium: this viewpoint is located on the fringe of Warrambo (high sensitivity), encompassing views of farmland and agricultural infrastructure (low sensitivity)
Exposure	High: this viewpoint is located on the Tod Highway, adjacent to Warrambo
Description	A dense band of vegetation in the middle to far distance restricts extended views out across the landscape from this viewpoint. The Port Lincoln to Thevenard railway is also visible in the middle distance, running parallel to the Tod Highway. Kimba Road runs perpendicular to the Tod Highway, crossing the railway line at the left of the viewpoint. Grain silos, signage and other buildings are also visible at the right of the viewpoint.
Comments	Intervening vegetation and terrain restricts extended views across the landscape and will largely screen views of the proposed mine. The integrated waste landform is approximately 6 km from this location and will be partially visible on the horizon above the vegetation when fully established.
Visual Impact	Low: although the viewpoint is located at a highly exposed location that is moderately sensitive to change, the proposed mine is largely obscured from view as a result of intervening terrain and vegetation. When fully developed, the integrated waste landform will be partially visible above the vegetation on the horizon. The capacity of the landscape to absorb the visual impact of the integrated waste landform is enhanced due to the presence of existing structures and significant intervening vegetation. On balance, due to the high capacity of the landscape to absorb additional visual elements, the overall visual impact from this viewpoint is considered to be low.



Viewpoint M05 – Tod Highway



Location	Tod Highway, at the intersection of Nantuma Road
View Direction	Northeast
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	Approximately 4 km to the mining lease boundary
Sensitivity	Low: this viewpoint comprises undulating farmland
Exposure	High: this viewpoint is located on the Tod Highway
Description	Extended views across the landscape are restricted by a dense band of vegetation in the foreground and middle distance. Similar vegetation is observed along the majority of the Tod Highway between Warramboob and Lock. Ridgelines of dunes beyond the vegetation (refer to aerial imagery inset) further restrict views across the landscape. The Port Lincoln to Thevenard railway is visible in the middle distance at the right of the viewpoint, including its crossing with Nantuma Road.
Comments	Intervening vegetation and terrain restricts extended views across the landscape and will largely screen views of the proposed mine. The integrated waste landform is 4 km from this location and will be partially visible from this viewpoint. The integrated waste landform will extend above the vegetation to the right of the Nantuma Road sign when fully established. All other infrastructure on the mining lease will be screened from view.
Visual Impact	Low: although this viewpoint is a highly exposed location, the proposed mine is largely screened from view by intervening vegetation and terrain. When fully established, the integrated waste landform will be visible above the vegetation at the right of the viewpoint, however is not anticipated to be a dominant visual element. As such, the overall visual impact from this viewpoint is considered to be low.



Viewpoint M06 – Tod Highway



Location	Tod Highway, at the intersection of Rohrlach Road	
View Direction	Northeast	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	Approximately 5.5 km to mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	High: this viewpoint is located on the Tod Highway	
Description	Extended views across the landscape from this viewpoint are restricted by a dense band of vegetation in the foreground. Similar dense roadside vegetation is observed along the majority of the Tod Highway between Warrambo and Lock. A water pipeline is visible in the middle distance, with the Port Lincoln to Thevenard railway on the other side of the vegetation.	
Comments	Intervening vegetation restricts extended views across the landscape and will largely screen views of the proposed mine. The integrated waste landform is approximately 5.5 km from this location and will be partially visible from this viewpoint. The integrated waste landform will be visible in the breaks between the vegetation when fully established. All other infrastructure on the mining lease will be screened from view.	
Visual Impact	Negligible: although this viewpoint is a highly exposed location, the proposed mine is largely screened from view by intervening vegetation. In addition, the viewpoint has a low sensitivity to visual change. When fully established, the integrated waste landform will be visible in the breaks between the vegetation, however is not anticipated to be a dominant visual element. As such, the overall visual impact from this viewpoint is considered to be negligible.	

Viewpoint M07 – Eyre Highway



Location	Eyre Highway, approximately 7 km east of the intersection of Tod Highway	
View Direction	Southeast	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	Approximately 9.5 km to the mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	High: this viewpoint is located on the Eyre Highway	
Description	A continuous band of roadside vegetation runs parallel to the majority of this section of the Eyre Highway, obscuring extended views across the landscape. Gaps in the roadside vegetation are observed at this viewpoint, offering views to the farmland located between the viewpoint and the proposed mine.	
Comments	The boundary of the proposed mining lease is approximately 9.5 km south of this viewpoint. The integrated waste landform is further south, approximately 14 km from the viewpoint. Intervening roadside vegetation and topographical variation restricts extended views south from this viewpoint and will completely screen views of the proposed mine, including the integrated waste landform.	
Visual Impact	Nil: no elements within the proposed mining lease will be visible from this location.	

Viewpoint M08 – Murphy Road



Location	Murphy Road, approximately 6.4 km south of the intersection of Eyre Highway
View Direction	Southeast
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	Approximately 4.7 km to the mining lease boundary
Sensitivity	Low: this viewpoint comprises farmland
Exposure	Low: this viewpoint is located on an unsealed local road
Description	Views southeast toward the mine from this location take in farmland that is relatively clear of vegetation. Vegetation is observed adjacent to Murphy Road and on the horizon at the top of the dune crests. Minor topographic variation is observed from this viewpoint that does not restrict views across the landscape.



Comments	There is a clear line of sight from this viewpoint to the proposed mine. The mine pit and integrated waste landform are respectively 5 km and 9 km south of the viewpoint. When fully established, the integrated waste landform will be a significant visual element from this location. The mine pit will not be prominent from this location; however the ore processing facility and concentrate handling facility will be visible in the far distance, particularly in the early stage of mine development when the integrated waste landform is not significantly developed. Partial screening of the proposed mining lease will occur as a result of the minor topographic variations.
Visual Impact	Low: although the proposed mine is clearly visible from this viewpoint, on-site infrastructure will be located in the far distance, near the horizon line. In addition the sensitivity of the landscape to modifications is low, and there is a low level of visual exposure from this viewpoint. As such, the overall visual impact is considered to be low.

Viewpoint M09 – Schulze Road



View east along mining lease boundary



View south to southwest along mining lease boundary

Viewpoint M09 – Schulze Road

Location	Schulze Road, approximately 100 m west of the intersection with Murphy Road	
View Direction	Southeast	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	On the mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	Low: this viewpoint is located on an unsealed local road	
Description	Views from this location toward the mine take in undulating farmland with bands of vegetation along roadsides. Minor topographic variation is observed from this viewpoint, restricting views of the landscape beyond the middle distance.	
Comments	The mine pit is located in the middle distance, approximately 500 m south of this viewpoint. The integrated waste landform is approximately 5 km south of this viewpoint, and would be a dominant visual element. The prominence of the integrated waste landform will increase over time as it increases in height. Similarly, the mine pit will also become increasingly prominent as extraction moves closer toward Schulze Road. The ore processing facility and concentrate handling facility are located southeast of this viewpoint, in front of the integrated waste landform. The ore processing facility and concentrate handling facility will be largely screened from view as a result of topographic variation.	
Visual Impact	Low: although the mine will be clearly visible in the medium distance, the sensitivity of the landscape to modifications is low, and there is a low level of exposure. In addition, minor topographic variations provide partial screening of the proposed mine, therefore the overall visual impact is considered to be low.	

Viewpoint M10 – Dolphin Road



View northeast along the mining lease boundary



View southeast along the mining lease boundary

Viewpoint M10 – Dolphin Road

Location	Dolphin Road, approximately 1.8 km north of the intersection with Nantuma Road	
View Direction	Northeast to southeast	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	On the mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	Low: this viewpoint is located on an unsealed local road	
Description	Views east from this location toward the mining lease primarily take in undulating farmland with bands of vegetation along roadsides and property boundaries. A private access track runs east of the viewpoint and is bordered by large vegetation. A ridgeline restricts extended views across the landscape from the middle distance. A power line runs north to south along the ridgeline and additional landscape modifications can be seen in the form of fences and water tanks.	
Comments	The integrated waste landform would be a dominant visual modification to the landscape in the immediate foreground. When fully established, the integrated waste landform will screen views to all other components within the mining lease. At the commencement of mining (and prior to the establishment of the first level of the integrated waste landform), the ore processing and concentrate handling facilities will be partially visible beyond the ridgeline to the northeast. The mine pit will be largely obscured by topographic variation from this viewpoint.	
Visual Impact	Medium: once fully established, the integrated waste landform will be a dominant visual element from this viewpoint. Prior to the establishment of the integrated waste landform, the ore processing and concentrate handling facilities will be a prominent visual modification in the middle distance. Progressive rehabilitation will soften the visual dominance of the integrated waste landform, establishing a visual element consistent with other prominent landscaped features already present in the region (e.g. Darke Peak). However as the location has a low level of exposure and low sensitivity to visual modifications, on balance the overall visual impact is considered to be medium.	

Viewpoint M11 – Eyre Highway



Location	Eyre Highway, approximately 500m west of the intersection with Bens Hill Road
View Direction	South
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	Approximately 8.5 km to the mining lease boundary
Sensitivity	Low: this viewpoint comprises farmland
Exposure	High: this viewpoint is located on the Eyre Highway
Description	Views south toward the mining lease from this location are largely obscured by roadside vegetation; however farmland is visible through the gaps. This section of the Eyre Highway contains a mostly continuous band of roadside vegetation and extended views across the landscape are sporadic.



Comments	The mine pit, ore processing and concentrate handling facilities are approximately 10 km south of this viewpoint. Each of these elements would be screened from view by intervening topography and vegetation. When fully developed, the integrated waste landform will be visible on the horizon in gaps between vegetation.
Visual Impact	Negligible: with the exception of sporadic views of the integrated waste landform, all elements of the mining lease will be obscured from view at this location. Given that the viewpoint has a low sensitivity to visual modifications, the overall visual impact is considered to be negligible.

Viewpoint M12 – Nantuma Road



Location	Nantuma Road, approximately 100m west of the intersection with Lock Road
View Direction	Northwest
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	On the mining lease boundary
Sensitivity	Low: this viewpoint comprises farmland
Exposure	Low: this viewpoint is located on an unsealed local road
Description	Views from this location toward the mining lease primarily take in undulating farmland with bands of vegetation visible along roadsides and property boundaries. Views to the east are restricted by a linear band of vegetation running along a ridgeline. Additional vegetation is observed in the far distance, particularly towards the west.



Comments	The integrated waste landform will be a dominant visual modification to the landscape in the immediate foreground. When fully established, the integrated waste landform will screen views to all other components within the mining lease. At the commencement of mining (and prior to the establishment of the first level of the integrated waste landform), the ore processing and concentrate handling facilities will be visible to the north, partially obscured by topographic variation.
Visual Impact	Medium: once fully established, the integrated waste landform will be a dominant visual element from this viewpoint. Prior to the establishment of the integrated waste landform, the ore processing and concentrate handling facilities will be a prominent visual modification in the middle distance. However as the location has a low level of exposure and low sensitivity to visual modifications, on balance the overall visual impact is considered to be medium.

Viewpoint M13 – Skinner Road



Location	Skinner Road, approximately 4.8 km south of the intersection of Nantuma Road
View Direction	Northwest
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	Approximately 3.5 km to the mining lease boundary
Sensitivity	Low: this viewpoint comprises farmland
Exposure	Low: this viewpoint is located on an unsealed local road
Description	Views from this location toward the mining lease primarily take in undulating farmland with bands of vegetation visible along roadsides and property boundaries. Views toward the mining lease are largely unrestricted, with the exception of minor topographic variation.



Comments	The integrated waste landform will be a prominent visual modification to the landscape in the middle to far distance; approximately 3.5 km northwest. When fully established, the integrated waste landform will screen views to all other components within the mining lease. At the commencement of mining (and prior to the establishment of the first level of the integrated waste landform), the ore processing and concentrate handling facilities will be visible to the north, largely obscured by topographic variation and vegetation.
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Visual Impact	Low: once fully established, the integrated waste landform will be a prominent visual element from this viewpoint. Prior to the establishment of the integrated waste landform, the ore processing and concentrate handling facilities will be a partially visible. However as the viewpoint has a low level of exposure, low sensitivity to visual modifications and is 3.5 km to the mining lease, on balance the overall visual impact is considered to be low.
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Viewpoint M14 – Matthews Road

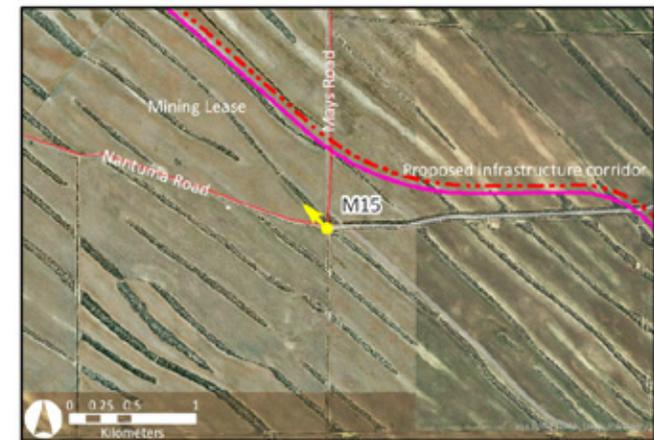


Location	Matthews Road, approximately 1.2 km west of intersection with Mays Road	
View Direction	Southwest	
Landscape Type(s)	Flat to Gently Undulating Farmland	
Distance from Project	Approximately 3.5 km to the mining lease boundary	
Sensitivity	Low: this viewpoint comprises farmland	
Exposure	Low: this viewpoint is located on an unsealed local road	
Description	Views southwest toward the mining lease from this location are partially obscured by roadside vegetation; however farmland is visible through the gaps. Roadside vegetation is common for much of the length of Matthews Road and extended views across the landscape are sporadic. Little topographic variation is observed from this location and breaks in vegetation offer a clear line of sight to the mining lease. Hambidge WPA is visible on the horizon to the south.	
Comments	The mine is likely to be largely screened by roadside vegetation when observed from this viewpoint. Once fully developed, the integrated waste landform will be the most prominent visual element, visible in the far distance, between the vegetation. The ore processing and concentrate handling facilities will also be visible, partially obscured by the vegetation.	
Visual Impact	Low: the integrated waste landform, ore processing and concentrate handling facilities will be visible in the middle to far distance, however intervening vegetation will partially or wholly obscure views toward them and none are considered to be dominant visual elements. At this viewpoint, the sensitivity of the landscape to modifications is low and there is a low level of visual exposure from this viewpoint. As such, the overall visual impact is considered to be low.	

Viewpoint M15 – Nantuma Road



Location	Nantuma Road, at the intersection of Mays Road
View Direction	Northwest
Landscape Type(s)	Flat to Gently Undulating Farmland
Distance from Project	On the mining lease boundary
Sensitivity	Low: this viewpoint comprises farmland
Exposure	Low: this viewpoint is located on an unsealed local road
Description	Views from this location toward the mining lease primarily take in undulating farmland with bands of vegetation visible along roadsides and ridgelines. Views to the east are restricted by a linear band of vegetation running along the ridgeline. Additional vegetation is observed in the far distance, particularly towards the west. Extended views across the landscape are limited by a ridgeline in the middle distance.
Comments	The infrastructure corridor will enter the mining lease approximately 600 m north of this location, and will be completely obscured by vegetation and topographic variation. When fully established, the integrated waste landform will be a prominent visual feature in the far distance to the west, above the vegetation in the road reserve. The mine pit and ore processing and concentrate handling facilities will be largely screened from view by intervening vegetation and topography.
Visual Impact	Low: once fully established, the integrated waste landform will be a prominent visual element from this viewpoint. However as the location has a low level of exposure and low sensitivity to visual modifications, on balance the overall visual impact is considered to be low.





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