

Monitoring and Controls	Trigger	Action
Public Roads – LW30 -31		
<ul style="list-style-type: none"> • Centennial to establish subsidence monitoring / inspection sites for public roads prior to mining. • Centennial to mark the centreline and edges of current longwall panel one month prior to public road being affected by subsidence. • Centennial to notify Crown Lands one month prior to public road affected by subsidence from each longwall panel. • Centennial to conduct weekly visual inspections of public roads when located within Active Subsidence Zone. Record results on the Subsidence Inspection Checklist. • Centennial to conduct post-mining surveys following the development of subsidence (majority of subsidence developed when LW is completed or LW face is 800m past feature). • Centennial to provide pre and post mining subsidence monitoring results to stakeholders. <p>CONTROLS</p> <p>Flood Modelling and Assessment LW30-31 (Umwelt 2020) determined that there was no predicted increase in flood hazard category on the access road at both the 1 year and 100 year ARI Storm Events.</p>	<p>LEVEL 1 – LOW Operations within prediction and approved impact</p> <ul style="list-style-type: none"> • Development of subsidence and impact as expected. • Subsidence within predicted range (U95% CL). • Negligible visible impact on gravel access roads. • Possible minor tensile and compressive cracking to pavement not requiring immediate repairs. 	<ul style="list-style-type: none"> • Centennial to conduct post mining inspection and subsidence monitoring and provide results to the Landowner, RR and Crown Lands.
	<p>LEVEL 2 – MEDIUM Operations within approved impact but exceed or potentially exceed predictions</p> <ul style="list-style-type: none"> • Development of subsidence exceeding or potentially exceeding prediction (Upper 95% Confidence Limits). • Tensile and compressive strains may increase 2 times predicted values due to crack development. • Vertical subsidence greater than predicted. • Typically minor impact to gravel access roads. • Cracking may be visible on roads – development of minor compression hump near centre of longwall and minor tensile cracking to pavement at edges. • Repairs to pavement may be required to reseal pavement. 	<ul style="list-style-type: none"> • Centennial to advise Landowner and Crown Lands of observed damage to the public road. • Centennial to erect warning signs near affected area of road if necessary. • Centennial to conduct post mining inspection and subsidence monitoring and provide results to the Landowner, RR and Crown Lands. • Centennial to conduct repairs to damaged pavement.
	<p>LEVEL 3 – HIGH Operations exceed approved impact</p> <ul style="list-style-type: none"> • Development of subsidence and impact greater than expected (Upper 95% Confidence Limits). • Cracking to road pavement requiring immediate repairs to ensure public safety. • Repairs required, reshaping road, restoring drainage and resealing pavement. 	<ul style="list-style-type: none"> • Centennial to immediately advise Landowner and Crown Lands of observed damage to the public road. • Centennial to erect warning signs near affected area of road. • Centennial to conduct post mining inspection and subsidence monitoring and provide results to Landowner, RR and Crown Lands. • Centennial to conduct repairs to damaged pavement. • Centennial to review results and predictions as per Extraction Plan. • Centennial to notify external stakeholders including relevant government agencies in accordance with Incident Reporting S6 Condition 10 and WHS Regulations.