

| Monitoring and Controls   | Trigger   | Action   |
|---|---|--|
| <b>Public Roads – LW30 -31</b>  |   |  |
| <ul style="list-style-type: none"> <li>• <b>Centennial</b> to establish subsidence monitoring / inspection sites for public roads prior to mining.</li> <li>• <b>Centennial</b> to mark the centreline and edges of current longwall panel one month prior to public road being affected by subsidence.</li> <li>• <b>Centennial</b> to notify Crown Lands one month prior to public road affected by subsidence from each longwall panel.</li> <li>• <b>Centennial</b> to conduct weekly visual inspections of public roads when located within Active Subsidence Zone. Record results on the Subsidence Inspection Checklist.</li> <li>• <b>Centennial</b> 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).</li> <li>• <b>Centennial</b> to provide pre and post mining subsidence monitoring results to stakeholders.</li> </ul> <p><b>CONTROLS</b></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><b>LEVEL 1 – LOW</b><br/><b>Operations within prediction and approved impact</b></p> <ul style="list-style-type: none"> <li>• Development of subsidence and impact as expected.</li> <li>• Subsidence within predicted range (U95% CL).</li> <li>• Negligible visible impact on gravel access roads.</li> <li>• Possible minor tensile and compressive cracking to pavement not requiring immediate repairs.</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>Landowner, RR and Crown Lands</b>.</li> </ul>   |
|   | <p><b>LEVEL 2 – MEDIUM</b><br/><b>Operations within approved impact but exceed or potentially exceed predictions</b></p> <ul style="list-style-type: none"> <li>• Development of subsidence exceeding or potentially exceeding prediction (Upper 95% Confidence Limits).</li> <li>• Tensile and compressive strains may increase 2 times predicted values due to crack development.</li> <li>• Vertical subsidence greater than predicted.</li> <li>• Typically minor impact to gravel access roads.</li> <li>• Cracking may be visible on roads – development of minor compression hump near centre of longwall and minor tensile cracking to pavement at edges.</li> <li>• Repairs to pavement may be required to reseal pavement.</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to advise <b>Landowner</b> and <b>Crown Lands</b> of observed damage to the public road.</li> <li>• <b>Centennial</b> to erect warning signs near affected area of road if necessary.</li> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>Landowner, RR and Crown Lands</b>.</li> <li>• <b>Centennial</b> to conduct repairs to damaged pavement.</li> </ul>   |
|   | <p><b>LEVEL 3 – HIGH</b><br/><b>Operations exceed approved impact</b></p> <ul style="list-style-type: none"> <li>• Development of subsidence and impact greater than expected (Upper 95% Confidence Limits).</li> <li>• Cracking to road pavement requiring immediate repairs to ensure public safety.</li> <li>• Repairs required, reshaping road, restoring drainage and resealing pavement.</li> </ul>   | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to immediately advise <b>Landowner</b> and <b>Crown Lands</b> of observed damage to the public road.</li> <li>• <b>Centennial</b> to erect warning signs near affected area of road.</li> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to <b>Landowner, RR and Crown Lands</b>.</li> <li>• <b>Centennial</b> to conduct repairs to damaged pavement.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan.</li> <li>• <b>Centennial</b> to notify external stakeholders including relevant government agencies in accordance with <b>Incident Reporting</b> S6 Condition 10 and WHS Regulations.</li> </ul> |

| Monitoring and Controls   | Trigger  | Action / Response   |
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| <b>Powerlines – LW30-31</b>   |  |   |
| <ul style="list-style-type: none"> <li>• <b>Centennial</b> to establish subsidence monitoring and inspection sites for public / private roads and adjacent powerlines prior to mining.</li> <li>• <b>Centennial</b> to conduct pre and post mining 3D scanning and survey of power poles.</li> <li>• <b>Ausgrid</b> to model and install mitigation works on affected section of the powerline.</li> <li>• <b>Centennial</b> to mark the centreline and edges of current longwall panel on public/private road pavement one month prior to public road and powerlines being affected by subsidence.</li> <li>• <b>Centennial</b> to notify Ausgrid one month prior to powerline being affected by subsidence from each longwall panel.</li> <li>• <b>Centennial</b> to conduct weekly visual inspections of public/private roads and powerlines located along road easement when influenced by subsidence within the Active Longwall Subsidence Zone. Record results on the Subsidence Inspection Checklist.</li> <li>• <b>Centennial</b> to conduct monthly visual inspections for the following six months and record results on the Subsidence Inspection Checklist.</li> <li>• <b>Centennial</b> to be in regular contact with private property owner during the development of subsidence.</li> <li>• <b>Centennial</b> 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).</li> <li>• <b>Centennial</b> to provide pre and post mining subsidence monitoring results to Ausgrid, RR and SANSW.</li> </ul> | <b>LEVEL 1 – LOW</b><br><b>Operations within prediction and approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact as expected.</li> <li>• Subsidence within predicted range (Upper 95% CL).</li> <li>• No noticeable impact to the surface or powerline network.</li> <li>• Damage powerlines unlikely.</li> </ul>   | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the Ausgrid, RR and SA NSW.</li> </ul>  |
|   | <b>LEVEL 2 – MEDIUM</b><br><b>Operations within approved impact but exceed or potentially exceed predictions</b> <ul style="list-style-type: none"> <li>• Development of subsidence exceeding or potentially exceeding prediction (greater than Upper 95% CL).</li> <li>• Minor impact to powerline network</li> <li>• No immediate mitigation / remediation works on poles, insulators and conductors is considered necessary.</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to inspect powerlines.</li> <li>• <b>Centennial</b> to notify <b>Ausgrid</b> and <b>RR</b> of increased subsidence and any observed impact to powerline network.</li> <li>• <b>Ausgrid</b> to conduct inspection and investigate the impact of increased subsidence on powerline network.</li> <li>• <b>Ausgrid</b> to conduct repairs if considered necessary.</li> <li>• <b>Centennial</b> to advise <b>SA NSW</b> of potential repairs.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan LW30-31.</li> </ul>   |
|   | <b>LEVEL 3 – HIGH</b><br><b>Operations exceed approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact greater than expected.</li> <li>• Damage to powerline network that causes loss or potential loss of service.</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to immediately advise <b>Ausgrid</b> of observed damage to the powerline network.</li> <li>• <b>Ausgrid Emergency Service</b> - 1800 627 005</li> <li>• <b>Ausgrid</b> to inspect any damage to powerline network and arrange repairs.</li> <li>• <b>Centennial</b> to promptly notify <b>RR</b> and <b>SA NSW</b> of increased subsidence and observed impact to powerlines.</li> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to <b>Ausgrid</b>, <b>RR</b> and the <b>SANSW</b>.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan LW30-31.</li> <li>• <b>Centennial</b> to notify external stakeholders and government agencies in accordance with <b>Incident Reporting</b> requirements DC S6 Condition 10 and WHS Regulations.</li> </ul> |

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| <b>Built Feature – Telstra Communications Network<br/>CAN Local Aerial copper cable 10/0.64</b>  |  |   |
| <ul style="list-style-type: none"> <li>• <b>Centennial</b> established subsidence monitoring / inspection sites for private access roads and adjacent communications lines</li> <li>• <b>Centennial</b> to mark the centreline and edges of current longwall panel on road pavement one month prior to private access roads and communications being affected by subsidence.</li> <li>• <b>Centennial</b> to notify Telstra one month prior to communications being affected by subsidence from each longwall panel.</li> <li>• <b>Centennial</b> to conduct weekly visual inspections of private roads and communications located along road and powerline easement when influenced by subsidence within the Active Subsidence Zone. Record results on the Subsidence Inspection Checklist.</li> <li>• <b>Centennial</b> to conduct monthly visual inspections for the following six months or until next longwall, and record results on the Subsidence Inspection Checklist.</li> <li>• <b>Comms Network Solutions</b> to inspect cable after completion of longwall panel.</li> <li>• <b>Centennial</b> to conduct post-mining surveys following the development of subsidence (majority of subsidence developed after 2 months) when LW is completed.</li> <li>• <b>Centennial</b> to provide pre and post mining subsidence monitoring results to Telstra, RR and SA NSW.</li> </ul> | <b>LEVEL 1 – LOW</b><br><b>Operations within predicted subsidence and impact.</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact as expected.</li> <li>• Subsidence prediction – tilt and strains within Upper 95% Confidence Limits</li> <li>• No interruption of service.</li> <li>• Continue operations and monitoring program</li> <li>• Unlikely remedial work will be required.</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct post mining inspection and provide subsidence monitoring results to <b>Telstra, RR and SA NSW.</b></li> </ul>   |
|  | <b>LEVEL 2 – MEDIUM</b><br><b>Operations within approved impacts but exceed or potentially exceed predictions</b> <ul style="list-style-type: none"> <li>• Development of subsidence exceeding or potentially exceeding subsidence prediction (Upper 95% Confidence Limits).</li> <li>• Tensile and compressive strains may increase 2 to 3 times predicted values due to crack development.</li> <li>• No or minor impact to communication network.</li> <li>• No interruption of service.</li> <li>• Continue operations and monitoring program</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to notify <b>Telstra Integrity Services</b> and <b>Comms Network Solutions</b> that subsidence predictions have exceeded or potentially exceeded predictions.</li> <li>• <b>Comms Network Solutions</b> to inspect Telstra network for any damage and provide report to <b>Centennial</b> and <b>Telstra.</b></li> <li>• <b>Centennial</b> to conduct post mining inspection and provide subsidence monitoring results to <b>Telstra, RR and SA NSW.</b></li> </ul>  |
|  | <b>LEVEL 3 – HIGH</b><br><b>Operations exceed approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact greater than expected (Upper 95% Confidence Limits).</li> <li>• Damage to aerial copper cable phone line causing interruption to Telstra communications service.</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to notify <b>Telstra Integrity Services</b> and <b>Comms Network Solutions</b> that subsidence predictions have exceeded.</li> <li>• <b>Centennial</b> to provide notification to <b>RR and SA NSW</b></li> <li>• <b>Centennial</b> to arrange a Review Meeting to review survey results, cable inspections and proposed action to remediate damage to communication network.</li> <li>• <b>Centennial</b> to notify external stakeholders including relevant government agencies in accordance with <b>Incident Reporting S6</b> Condition 10 and WHS Regulations.</li> <li>• <b>Centennial</b> to conduct review and predictions as per adaptive management process as detailed in the Extraction Plan LW25-31.</li> </ul> |

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| <b>Property Access Roads</b>   |   |   |
| <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct flood modelling and assessment to identify potential changes to flooding as per DC Schedule 4 Condition 6(h).</li> <li><b>Centennial</b> to conduct property inventory and detail predicted impacts from subsidence in PSMP.</li> <li><b>Centennial</b> to arrange <b>SA NSW</b> pre-mining inspection of property and improvements to detail pre-mining condition.</li> <li><b>Centennial</b> to establish subsidence monitoring / inspection sites on property access if an increase in flood hazard is predicted. To be arranged in consultation with <b>Landowner</b>.</li> <li><b>Centennial</b> 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).</li> <li><b>Centennial</b> to provide pre and post mining subsidence monitoring results to <b>Landowner, RR and SA NSW</b>.</li> </ul> <p><b>CONTROLS</b><br/> <b>Flood Modelling and Assessment LW30-31 (Umwelt 2020)</b> 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><b>LEVEL 1 – LOW</b><br/> <b>Operation within prediction and approved impact</b></p> <ul style="list-style-type: none"> <li>Development of subsidence and impact as expected.</li> <li>Subsidence within predicted range (U95% CL).</li> <li>Negligible visible impact on gravel access roads.</li> <li>Possible hairline cracking on sealed roads.</li> <li>No change to flood hazard category.</li> </ul>  | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li><b>Centennial</b> to assist landowner with any SA NSW claim for damage to property.</li> <li><b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with <b>Landowner</b>.</li> </ul>   |
|  | <p><b>LEVEL 2 – MEDIUM</b><br/> <b>Operations within approved impact but exceed or potentially exceed predictions</b></p> <ul style="list-style-type: none"> <li>Development of subsidence exceeding or potentially exceeding prediction (Upper 95% Confidence Limits).</li> <li>Minor cracking to gravel access roads, but remaining safe, serviceable and repairable.</li> <li>Tensile cracking or minor compression humps may develop on sealed roads. Repairs may be required to reseal pavement.</li> <li>No change to flood hazard category.</li> </ul> | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li><b>Centennial</b> to assist landowner with any SA NSW claim for damage to access road.</li> <li><b>Centennial</b> to arrange prompt repairs to access roads to make safe and allow access to the property.</li> <li><b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with the <b>Landowner</b>.</li> </ul>  |
|  | <p><b>LEVEL 3 – HIGH</b><br/> <b>Operations exceed approved impact</b></p> <ul style="list-style-type: none"> <li>Development of subsidence and impact greater than predicted</li> <li>Tensile cracks and/or compression humps develop on access roads that need repairing to ensure public safety.</li> <li>Tensile cracks and/or compression humps develop on sealed roads.</li> <li>Repairs required, reshaping road, restoring drainage and resealing pavement.</li> </ul>  | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li><b>Centennial</b> to arrange prompt temporary repairs to make road safe and allow access to property.</li> <li><b>Centennial</b> to assist landowner with any SA NSW claim for damage to property.</li> <li><b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with the <b>Landowner</b>.</li> <li><b>Centennial</b> to reassess flood hazard using actual subsidence data to determine if there is an increase in flood hazard at 1 year and 100 year ARI Storm Events.</li> <li>If flood modelling indicates an increase in flood hazard, <b>Centennial</b> to commence negotiations and carry out works as agreed by <b>Landowner</b> to provide suitable access to the property.</li> <li><b>Centennial</b> to notify <b>external stakeholders including government agencies</b> in accordance with Incident Reporting S6 Condition 10.</li> <li><b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul> |

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| <b>Steep Slopes</b>  |  |  |
| <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct pre mining steep slope inspection and assessment by Geotechnical Engineer.</li> <li>• <b>Centennial</b> to conduct subsidence monitoring and inspections as per the Public Safety Management Plan and Subsidence Monitoring Program.</li> <li>• <b>Centennial</b> to conduct weekly visual inspections when steep slopes are within active subsidence zone.</li> <li>• <b>Centennial</b> to provide pre and post mining subsidence monitoring results to <b>RR</b> and <b>Landowners</b>.</li> </ul> | <b>LEVEL 1 – LOW</b><br><b>Operation within prediction and approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact as expected.</li> <li>• Subsidence within predicted range (Upper 95% Confidence Limits).</li> <li>• Negligible visible impact on gravel access roads.</li> <li>• Negligible impact to steep slopes.</li> <li>• Negligible indications down slope rock or bolder movements.</li> <li>• No rock mass instability.</li> <li>• Minor opening of rock joints that does not cause dislodgement of rocks.</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct weekly visual inspections of land when steep slope zones are located in active subsidence zone and along public access roads.</li> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>RR</b> and <b>Landowner</b>.</li> </ul>   |
|  | <b>LEVEL 2 – MEDIUM</b><br><b>Operations within approved impact but exceed or potentially exceed predictions</b> <ul style="list-style-type: none"> <li>• Development of subsidence exceeding or potentially exceeding prediction (Upper 95% Confidence Limits).</li> <li>• Cracking to gravel access roads, but remaining safe, serviceable and repairable.</li> <li>• Cracking to surface not requiring major repairs or posing further risk to public safety.</li> <li>• Opening of rock joints not likely to cause dislodgement of rocks.</li> </ul>                   | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>RR</b> and <b>Landowner</b>.</li> <li>• <b>Centennial</b> to inspect and erect warnings signs or barricades as per Public Safety Management Plan.</li> <li>• <b>Centennial</b> to notify Landowner</li> <li>• <b>Centennial</b> to arrange repairs to access roads or areas of potential rock instability in consultation with landowner.</li> <li>• <b>Centennial</b> to notify Principal Subsidence Engineer of higher than expected subsidence.</li> <li>• <b>Centennial</b> to arrange a Geotechnical Engineer to inspect any areas of suspected rock mass instability in consultation with <b>Landowner</b>.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul>   |
|  | <b>LEVEL 3 – HIGH</b><br><b>Operations exceed approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact greater than expected.</li> <li>• Surface cracking visible that may be dangerous to public safety.</li> <li>• Opening of rock joints that may cause dislodgement of rocks.</li> <li>• Rock fall and rollouts</li> <li>• Overhang collapse</li> <li>• Landslide</li> <li>• Risks to public safety</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct post mining inspection and subsidence monitoring and provide results to the <b>RR</b> and <b>Landowner</b>.</li> <li>• <b>Centennial</b> to inspect and erect warnings signs or barricades as per Public Safety Management Plan.</li> <li>• <b>Centennial</b> to notify <b>Landowner</b>.</li> <li>• <b>Centennial</b> to notify Principal Subsidence Engineer of higher than expected subsidence and impact.</li> <li>• <b>Centennial</b> to notify <b>DPIE</b> as per S4 Condition 2 SSD-5144.</li> <li>• <b>Centennial</b> to arrange immediate repairs to dangerous surface cracking (eg backfilling) any necessary repairs in consultation with the <b>Landowner</b> and <b>RR</b>.</li> <li>• <b>Centennial</b> to arrange a Geotechnical Engineer to inspect any areas of suspected rock mass instability.</li> <li>• <b>Centennial</b> to notify <b>external stakeholders including government agencies</b> in accordance with Incident Reporting S6 Condition 10.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul> |



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| <b>Dwelling Strain</b>   |   |   |
| <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct property inventory and detail predicted impacts from subsidence in PSMP as per DC Schedule 4 Condition 6(h).</li> <li><b>Centennial</b> to arrange pre-mining structural inspection of dwellings and buildings as per DC Schedule 4 Condition 6(h). Assessment includes structural integrity and any potential risks to health and safety.</li> <li><b>Centennial</b> to arrange SA NSW pre-mining inspection of dwelling and improvements.</li> <li><b>Centennial</b> to establish subsidence monitoring on dwelling and improvements in consultation with <b>Landowner</b>.</li> <li><b>Centennial</b> to conduct post-mining surveys following the development of subsidence (majority of subsidence developed when LW face is 800m past dwelling).</li> <li><b>Centennial</b> to provide subsidence monitoring results to <b>Landowner, RR</b> and <b>SA NSW</b>.</li> </ul> | <b>LEVEL 1 – LOW</b><br><b>Operation within prediction and approved impact</b> <ul style="list-style-type: none"> <li>Development of subsidence (U95% CL) and impact as expected.</li> <li>Strain &lt; 5mm/m<br/>Strain Category 0-2 (AS2870-2011).</li> <li>No noticeable impact to dwelling.</li> <li>Possible hairline to fine cracks noticeable that can be easily filled.</li> <li>Possible slightly sticking doors or windows.</li> </ul>   | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct subsidence monitoring on dwelling to determine strains and provide results to the <b>Landowner, RR</b> and <b>SA NSW</b>.</li> <li><b>Centennial</b> to assist landowner with any claim for damage to property.</li> <li><b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with <b>Landowner</b>.</li> </ul>   |
|  | <b>LEVEL 2 – MEDIUM</b><br><b>Operations within approved impact but exceed or potentially exceed predictions</b> <ul style="list-style-type: none"> <li>Development of subsidence greater than predicted (U95% CL), but impact as expected</li> <li>Strains approaching 5 mm/m<br/>Strain Category 0-2 (AS2870-2011).</li> <li>Minor impact to dwelling.</li> <li>Possible hairline to fine cracks noticeable that can be easily filled.</li> <li>Possible slightly sticking doors or windows.</li> </ul>   | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct subsidence monitoring on dwelling to determine strains and provide results to the <b>Landowner, RR</b> and <b>SA NSW</b>.</li> <li><b>Centennial</b> to assist landowner with any SA NSW claim for damage to property.</li> <li><b>Centennial / SA NSW</b> to arrange a structural inspection of the dwelling to insure that dwelling does not pose a risk to health and safety of occupants.</li> <li><b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with Landowner.</li> <li><b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul>   |
|  | <b>LEVEL 3 – HIGH</b><br><b>Operations exceed approved impact</b> <ul style="list-style-type: none"> <li>Development of subsidence and impact greater than expected and beyond SSR</li> <li>Strain &gt;5mm/m Beyond SSR<br/>Strain Category 3 to 5 (AS2870-2011)</li> <li>Crack width &gt; 5mm/to 25mm <ul style="list-style-type: none"> <li>Windows and door frames distorting</li> <li>Service pipes disrupted</li> <li>Roof and floor beams lose bearing</li> <li>Windows broken</li> <li>Severe buckling and bulging of roof and walls</li> <li>Will require partial or complete rebuild.</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><b>Centennial</b> to conduct subsidence monitoring on dwelling to determine tilt and provide results to the <b>Landowner, RR</b> and <b>SA NSW</b>.</li> <li><b>Centennial</b> to commence negotiations with <b>Landowner</b> as per the Acquisition and Compensation process consistent with DC Schedule 5 Conditions 3 and 4.</li> <li><b>Centennial / SA NSW</b> to arrange structural inspection to assess if dwelling is repairable.</li> <li><b>Centennial</b> to arrange alternate temporary accommodation for occupants if necessary.</li> <li><b>Centennial</b> to notify <b>external stakeholders including government agencies</b> in accordance with Incident Reporting S6 Condition 10.</li> <li><b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul> |

| Monitoring   | Trigger   | Action   |
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| <b>Dwelling Tilt</b>   |   |  |
| <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct property inventory and detail predicted impacts from subsidence in PSMP as per DC Schedule 4 Condition 6(h).</li> <li>• <b>Centennial</b> to arrange pre-mining structural inspection of dwellings and buildings as per DC Schedule 4 Condition 6(h). ). Assessment includes structural integrity and any potential risks to health and safety.</li> <li>• <b>Centennial</b> to arrange <b>SA NSW</b> pre-mining inspection of dwelling and improvements.</li> <li>• <b>Centennial</b> to establish subsidence monitoring on dwelling and improvements in consultation with <b>Landowner</b></li> <li>• <b>Centennial</b> to conduct post-mining surveys following the development of subsidence (majority of subsidence developed when LW face is 800m past dwelling).</li> <li>• <b>Centennial</b> to provide pre and post mining subsidence monitoring results to <b>Landowner, RR and SA NSW</b>.</li> </ul> | <b>LEVEL 1 – LOW</b><br><br><b>Operation within prediction and approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence (U95% CL) and impact as expected</li> <li>• Tilt &lt; 5mm/m<br/>Tilt Category A (AS2870-2011)</li> <li>• No noticeable impact to dwelling.</li> <li>• Possible sticking doors or windows</li> <li>• Unlikely remedial work will be required</li> </ul>  | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct subsidence monitoring on dwelling to determine tilt and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li>• <b>Centennial</b> to assist landowner with any claim for damage to property.</li> <li>• <b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with <b>Landowner</b>.</li> </ul>  |
|  | <b>LEVEL 2 – MEDIUM</b><br><br><b>Operations within approved impact but exceed or potentially exceed predictions</b> <ul style="list-style-type: none"> <li>• Development of subsidence greater than predicted (U95% CL), but impact as expected</li> <li>• Tilt 5 to 7mm/m<br/>Tilt Category B (AS2870-2011)</li> <li>• Roof drainage overflowing or wet areas not draining effectively</li> <li>• Adjustment of roof drainage or wet areas might be required</li> </ul>   | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct subsidence monitoring on dwelling to determine tilt and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li>• <b>Centennial</b> to assist landowner with any claim for damage to property.</li> <li>• <b>Centennial / SA NSW</b> to arrange a structural inspection of the dwelling to insure that dwelling does not pose a risk to health and safety of occupants.</li> <li>• <b>SA NSW</b> to conduct post mining inspections and arrange any necessary repairs in consultation with <b>Landowner</b> and <b>Centennial</b></li> <li>• <b>Centennial</b> to provide alternate water supply if required.</li> </ul>  |
|  | <b>LEVEL 3 – HIGH</b><br><br><b>Operations exceed approved impact</b> <ul style="list-style-type: none"> <li>• Development of subsidence and impact greater than expected and beyond Safe, Serviceable and Repairable (SSR).</li> <li>• Tilt &gt;7mm/m Beyond SSR.<br/>Tilt Category C &amp; D (AS2870-2011).</li> <li>• Tilt on dwelling may be noticeable.</li> <li>• Minor structural work might be required to rectify tilt.</li> <li>• Considerable structural work may be required to rectify tilt &gt;10mm/m.</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Centennial</b> to conduct subsidence monitoring on dwelling to determine tilt and provide results to the <b>Landowner, RR and SA NSW</b>.</li> <li>• <b>Centennial / SA NSW</b> to arrange structural inspection to assess if the dwelling is safe, serviceable and repairable.</li> <li>• <b>Centennial</b> to commence negotiations with <b>Landowner</b> as per the Acquisition and Compensation process consistent with DC Schedule 5 Conditions 3 and 4.</li> <li>• <b>Centennial</b> to arrange alternate temporary accommodation for occupants if necessary.</li> <li>• <b>Centennial</b> to notify <b>external stakeholders including government agencies</b> in accordance with Incident Reporting S6 Condition 10.</li> <li>• <b>Centennial</b> to provide alternate water supply if required.</li> <li>• <b>Centennial</b> to review results and predictions as per Extraction Plan.</li> </ul> |