

Quarrying or Rehabilitation Hazard	Risk No.	Risk Event	Phase			Sensitive Receptors			Evidence to support assessment	Inherent Risk Assessment			Control Measures	Performance Standards	Residual Risk Assessment			Monitoring and Ongoing Management		Detailed Risk Treatment Plan attached?
			Cons <sup>10m</sup>	Oper <sup>10m</sup>	Rehab <sup>10m</sup>	Details of sensitive receptor	Location and proximity to site	How hazard may harm receptor		Likelihood	Consequence	Risk Rating			Likelihood	Consequence	Risk Rating	Aspect to be monitored	Details of monitoring and ongoing managmnt	
Altered Visual Amenity	1	Plant and operations visible from residences	Yes	Yes	Yes	Residences	5 residences located within 1km of the Work Authority boundary, including 4 within 250m of the WA boundary.	Potential to see infrastructure and site operations	Proximity to site	Likely	Minor	Medium	Construction and landscaping of screening bund and overburden mounds, with initial segments of screening bund constructed opposite the nearest residences. Maintenance (and if necessary, re-planting) of existing or proposed vegetation screening. Locating processing plant and stockpiles in accordance with design Progressive rehabilitation (inclusive of earthworks and vegetation establishment) of terminal batters at the earliest opportunity Planning of extraction sequence and bund establishment to minimise viewsheds	Screening bund constructed as soon as practicable and landscaping maintained in neat & orderly condition Screening vegetation established and healthy Processing Plant & Stockpiling Area and Temporary Materials Storage and Handling Area located in accordance with Site Layout Plan, and not visible from outside roads once screening bund is constructed Maximum open area criteria maintained Site Layout Plan	Unlikely	Minor	Low	Vegetation and landscape maintenance	The maintenance of buffer plantings and vegetation on screening bund will be monitored by regular inspections. Additional and/or replanting will be done to remediate slow or failed vegetation growth.	YES
Altered Visual Amenity	2	Plant and operations visible from roads	Yes	Yes	Yes	Public Roads	South Gippsland Highway adjacent to the site.	Potential to see infrastructure and site operations	Proximity to site	Likely	Minor	Medium	Locating processing plant and stockpiles in accordance with design Progressive rehabilitation (inclusive of earthworks and vegetation establishment) of terminal batters at the earliest opportunity Planning of extraction sequence and bund establishment to minimise viewsheds	Screening bund and vegetation effectiveness Amenity impact	Unlikely	Minor	Low	Screening bund and vegetation effectiveness Amenity impact	Routine inspections from outside the quarry boundary will be used to check buffer effectiveness. Complaints and comments raised through community engagement will be handled through the normal engagement process.	YES
Noise	3	Excessive noise at any sensitive receptors from vehicle movements (Road trucks, loaders, haul truck)	Yes	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m (410m from site entrance). Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated noise levels	Proximity to site	Likely	Moderate	High	Compliance to approved operating hours No noisy activities permitted onsite within 250m of residences from 6am to 7am Establishment of screening bund, with initial segments constructed opposite the nearest residences Mobile plant fitted with effective mufflers and other appropriate noise abatement devices Extraction equipment orientation and position to take advantage of bunding, vegetation shielding and topography Equipment maintenance regime in accordance with manufacturer specifications. Maintain access roads and site tracks in good condition Traffic management around product stockpiles and travel routes designed to minimise reversing Engineered noise abatement of grizzlies, conveyors, vibrating screens, stacking conveyors, pumps Turning off plant and equipment when not in use for extended periods Broadband reversing alarms (squawkers) fitted to appropriate mobile plant	Hours in the Work Plan: Extraction, Processing and Transport (sales): 6am to 6pm Mon to Sat No work on Sundays and Public Hols Restrictions during EPA 'night period' for onsite noisy activities observed with no exceedances of limits Compliance to Site Layout Plan Mufflers and noise abatement devices fitted and maintained as per manufacturer specification All plant and equipment maintained as per manufacturer specification Roads and access tracks graded as required to minimise corrugations and potholes Traffic management and site layout. Noise abatement devices fitted and maintained as per manufacturer specification Plant and equipment not left running when not in use where that noise may be impacting nearby sensitive receptors, particularly within 250m of residences New generation broadband reverse alarm fitted and operational to all mobile equipment	Possible	Moderate	Medium	Noise at sensitive receptors	No formal noise monitoring is proposed, with observations made during inspections and engagement activities. Noise monitoring may take place in direct response to a noise complaint. Complaints, as well as other community engagement activities, and any resulting actions will be documented. Where formal monitoring is directed by EPA or ERR, monitoring locations, methods and frequencies will be in accordance with the regulatory agencies' requirements. The adequacy of control measures against the GED will be assessed through general observation as part of routine site inspections and feedback through community engagement	YES
Noise	4	Excessive noise at any sensitive receptors from Excavating Equipment (Dozer, loader, excavator)	Yes	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m (410m from site entrance). Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated noise levels	Proximity to site	Likely	Moderate	High	Compliance to approved operating hours No noisy activities permitted onsite within 250m of residences from 6am to 7am Establishment of screening bund, with initial segments constructed opposite the nearest residences Mobile plant fitted with effective mufflers and other appropriate noise abatement devices Extraction equipment orientation and position to take advantage of bunding, vegetation shielding and topography Equipment maintenance regime in accordance with manufacturer specifications. Maintain access roads and site tracks in good condition Traffic management around product stockpiles and travel routes designed to minimise reversing Engineered noise abatement of grizzlies, conveyors, vibrating screens, stacking conveyors, pumps Turning off plant and equipment when not in use for extended periods Broadband reversing alarms (squawkers) fitted to appropriate mobile plant	Hours in the Work Plan: Extraction, Processing and Transport (sales): 6am to 6pm Mon to Sat No work on Sundays and Public Hols Restrictions during EPA 'night period' for onsite noisy activities observed with no exceedances of limits Compliance to Site Layout Plan Mufflers and noise abatement devices fitted and maintained as per manufacturer specification All plant and equipment maintained as per manufacturer specification Roads and access tracks graded as required to minimise corrugations and potholes Traffic management and site layout. Noise abatement devices fitted and maintained as per manufacturer specification Plant and equipment not left running when not in use where that noise may be impacting nearby sensitive receptors, particularly within 250m of residences New generation broadband reverse alarm fitted and operational to all mobile equipment	Possible	Moderate	Medium	Noise at sensitive receptors	No formal noise monitoring is proposed, with observations made during inspections and engagement activities. Noise monitoring may take place in direct response to a noise complaint. Complaints, as well as other community engagement activities, and any resulting actions will be documented. Where formal monitoring is directed by EPA or ERR, monitoring locations, methods and frequencies will be in accordance with the regulatory agencies' requirements. The adequacy of control measures against the GED will be assessed through general observation as part of routine site inspections and feedback through community engagement	YES
Noise	5	Excessive noise at any sensitive receptors from processing plant (inc fix and mobile plant, screens, stackers)	Yes	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m (410m from site entrance). Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated noise levels	Proximity to site	Likely	Moderate	High	Compliance to approved operating hours No noisy activities permitted onsite within 250m of residences from 6am to 7am Establishment of screening bund, with initial segments constructed opposite the nearest residences Mobile plant fitted with effective mufflers and other appropriate noise abatement devices Extraction equipment orientation and position to take advantage of bunding, vegetation shielding and topography Equipment maintenance regime in accordance with manufacturer specifications. Maintain access roads and site tracks in good condition Traffic management around product stockpiles and travel routes designed to minimise reversing Engineered noise abatement of grizzlies, conveyors, vibrating screens, stacking conveyors, pumps Turning off plant and equipment when not in use for extended periods Broadband reversing alarms (squawkers) fitted to appropriate mobile plant	Hours in the Work Plan: Extraction, Processing and Transport (sales): 6am to 6pm Mon to Sat No work on Sundays and Public Hols Restrictions during EPA 'night period' for onsite noisy activities observed with no exceedances of limits Compliance to Site Layout Plan Mufflers and noise abatement devices fitted and maintained as per manufacturer specification All plant and equipment maintained as per manufacturer specification Roads and access tracks graded as required to minimise corrugations and potholes Traffic management and site layout. Noise abatement devices fitted and maintained as per manufacturer specification Plant and equipment not left running when not in use where that noise may be impacting nearby sensitive receptors, particularly within 250m of residences New generation broadband reverse alarm fitted and operational to all mobile equipment	Possible	Moderate	Medium	Noise at sensitive receptors	No formal noise monitoring is proposed, with observations made during inspections and engagement activities. Noise monitoring may take place in direct response to a noise complaint. Complaints, as well as other community engagement activities, and any resulting actions will be documented. Where formal monitoring is directed by EPA or ERR, monitoring locations, methods and frequencies will be in accordance with the regulatory agencies' requirements. The adequacy of control measures against the GED will be assessed through general observation as part of routine site inspections and feedback through community engagement	YES
Dust	6	Excessive dust from vehicle movements on all access roads, site roads & hardstands	Yes	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Minor	Medium	Minimise exposed / disturbed areas Water cart utilised on exposed areas, roads and hardstand areas. Sealing of access road and use of wheel wash for sales traffic. Dry excavated material to be wetted in hot, dry, windy conditions or whenever dust generation requires. Minimise vehicle movements (restrict to designated areas) and limit vehicle speeds	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Minor	Low	Ongoing visual inspection of dust generated on site by all staff	Visual inspection for dust leaving the site Hourly assessment of dust on hot, dry, windy days	YES
Dust	7	Excessive dust from processing plant and equipment within the WA area	Yes	Yes	No	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Minor	Medium	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Minor	Low	Ongoing visual inspection of dust generated on site by all staff	Visual inspection for dust leaving the site Hourly assessment of dust on hot, dry, windy days	YES
Dust	8	Excessive dust from extraction activities	Yes	Yes	No	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Minor	Medium	Minimise exposed / disturbed areas Water cart utilised on exposed areas, roads and hardstand areas. Sealing of access road and use of wheel wash for sales traffic. Dry excavated material to be wetted in hot, dry, windy conditions or whenever dust generation requires. Minimise vehicle movements (restrict to designated areas) and limit vehicle speeds	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Minor	Low	Ongoing visual inspection of dust generated on site by all staff	Visual inspection for dust leaving the site Hourly assessment of dust on hot, dry, windy days	YES
Dust	9	Excessive dust from soil and overburden dumps (construction and maintenance)	Yes	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Moderate	Medium	Establishment of screening bund, with initial segments constructed opposite the nearest residences. Vegetate and stabilise screening bunds, as soon as practicable, as well as topsoil / overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Cessation of works during hot, dry or high wind conditions. Equipment maintenance regime in accordance with manufacturer specifications. Continual visual monitoring by all staff for dust leaving the site, throughout operations, and notification to the Quarry Manager promptly for remedial action. Implement an air quality monitoring program for nuisance dust, PM10 and PM2.5, along with wind speed and wind direction.	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Moderate	Medium	Air quality monitoring program: - dust deposition for nuisance dust (all stations) - continuous PM10 & PM2.5, plus wind speed & direction Complaints and observations/comments from sensitive receptors	Monitoring Locations (two sites): - initial locations shown on Figure 3, Site Layout Plan, with continuous monitoring station on eastern boundary - locations to be reviewed as quarry stages develop, but always adjacent to WA boundary toward potentially affected residences Monitoring Frequency: - monthly dust deposition samples - real-time data for PM10, PM2.5, wind speed & direction - frequency and need for continuous monitoring (to demonstrate GED is met) reviewed as quarry stages develop	YES
Dust	10	Excessive dust from stockpiles leaving the WA boundary	No	Yes	No	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Moderate	Medium	Establishment of screening bund, with initial segments constructed opposite the nearest residences. Vegetate and stabilise screening bunds, as soon as practicable, as well as topsoil / overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Cessation of works during hot, dry or high wind conditions. Equipment maintenance regime in accordance with manufacturer specifications. Continual visual monitoring by all staff for dust leaving the site, throughout operations, and notification to the Quarry Manager promptly for remedial action. Implement an air quality monitoring program for nuisance dust, PM10 and PM2.5, along with wind speed and wind direction.	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Moderate	Medium	Air quality monitoring program: - dust deposition for nuisance dust (all stations) - continuous PM10 & PM2.5, plus wind speed & direction Complaints and observations/comments from sensitive receptors	Monitoring Locations (two sites): - initial locations shown on Figure 3, Site Layout Plan, with continuous monitoring station on eastern boundary - locations to be reviewed as quarry stages develop, but always adjacent to WA boundary toward potentially affected residences Monitoring Frequency: - monthly dust deposition samples - real-time data for PM10, PM2.5, wind speed & direction - frequency and need for continuous monitoring (to demonstrate GED is met) reviewed as quarry stages develop	YES
Dust	11	Excessive dust when stripping top soil leaving the WA boundary	Yes	Yes	No	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Moderate	Medium	Establishment of screening bund, with initial segments constructed opposite the nearest residences. Vegetate and stabilise screening bunds, as soon as practicable, as well as topsoil / overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Cessation of works during hot, dry or high wind conditions. Equipment maintenance regime in accordance with manufacturer specifications. Continual visual monitoring by all staff for dust leaving the site, throughout operations, and notification to the Quarry Manager promptly for remedial action. Implement an air quality monitoring program for nuisance dust, PM10 and PM2.5, along with wind speed and wind direction.	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Moderate	Medium	Air quality monitoring program: - dust deposition for nuisance dust (all stations) - continuous PM10 & PM2.5, plus wind speed & direction Complaints and observations/comments from sensitive receptors	Monitoring Locations (two sites): - initial locations shown on Figure 3, Site Layout Plan, with continuous monitoring station on eastern boundary - locations to be reviewed as quarry stages develop, but always adjacent to WA boundary toward potentially affected residences Monitoring Frequency: - monthly dust deposition samples - real-time data for PM10, PM2.5, wind speed & direction - frequency and need for continuous monitoring (to demonstrate GED is met) reviewed as quarry stages develop	YES
Dust	12	Excessive dust during rehabilitation leaving the WA boundary	No	Yes	Yes	Surrounding Residences Public Roads	5 residences located within 1km of the Work Authority boundary, the closest to the extraction boundary being one at 250m, two at 270m and one at 580m. Site abuts South Gippsland Highway.	Potential to impact amenity through excessive or elevated dust levels	Proximity to site	Possible	Moderate	Medium	Establishment of screening bund, with initial segments constructed opposite the nearest residences. Vegetate and stabilise screening bunds, as soon as practicable, as well as topsoil / overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Cessation of works during hot, dry or high wind conditions. Equipment maintenance regime in accordance with manufacturer specifications. Continual visual monitoring by all staff for dust leaving the site, throughout operations, and notification to the Quarry Manager promptly for remedial action. Implement an air quality monitoring program for nuisance dust, PM10 and PM2.5, along with wind speed and wind direction.	Compliance to maximum disturbed area. Water cart and ample supply of water available on forecast hot dry or during extended dry periods when inherent moisture content is reduced. Installation and use. Wetting at Quarry Manager's discretion based on visual observation or stakeholder engagement. Speed / Traffic management signs maintained at critical locations and on the main quarry access track. Compliance to Site Layout Plan. Screening bunds and topsoil / overburden stockpiles vegetated within 6 months of construction. Vegetation maintained. Topsoiled and planted pasture on terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Vegetation maintained. Cessation at Quarry Manager's discretion based on visual observation or stakeholder engagement. All plant and equipment maintained as per manufacturer specification. No nuisance dust impacts to sensitive receptors. Data collected and utilised to inform and adapt, if necessary, the ongoing dust management, and to ensure that the EPA General Environmental Duty is met (subject to review as quarry stages develop).	Unlikely	Moderate	Medium	Air quality monitoring program: - dust deposition for nuisance dust (all stations) - continuous PM10 & PM2.5, plus wind speed & direction Complaints and observations/comments from sensitive receptors	Monitoring Locations (two sites): - initial locations shown on Figure 3, Site Layout Plan, with continuous monitoring station on eastern boundary - locations to be reviewed as quarry stages develop, but always adjacent to WA boundary toward potentially affected residences Monitoring Frequency: - monthly dust deposition samples - real-time data for PM10, PM2.5, wind speed & direction - frequency and need for continuous monitoring (to demonstrate GED is met) reviewed as quarry stages develop	YES

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			Construction	Operation	Rehabilitation	Details of sensitive receptor	Location and proximity to site	How hazard may harm receptor		Likelihood	Consequence	Risk Rating			Likelihood	Consequence	Risk Rating	Aspect to be monitored	Details of monitoring and ongoing management	
Surface Water Flows	13	Turbid (dirty) water leaving the site.	Yes	Yes	Yes	Melbourne Water asset DR2504 Neighbouring properties	Surface drainage line on northern boundary Downstream landowners	Potential detriment to water quality and beneficial users	Proximity to site	Possible	Moderate	Medium	Construct northern waterway diversion and fully rehabilitate early in project life, in accordance with Melbourne Water approval. Maintain compliance to any Melbourne Water conditions regarding management of surface water diversion / works on waterway. Construct roads with sufficient diversion drains and culverts to ensure that clean stormwater is diverted away from roads. Install a rain gauge at the Site Office, and check hourly during heavy rainfall. Ensure that the gradient and orientation of tracks do not cause runoff to be fast flowing. Arrange drainage of roads to be a vegetated area through erosion protection structures. Ensure that drainage from an area where fuels/ lubricants/ hazardous material are stored / used is directed to a sump or an interceptor trap. Install diversion drainage structures (pipes, bunds, cut off drains, swales drains etc) up-gradient of working areas to divert surface water flows over undisturbed ground and prevent clean surface water from entering the site and becoming contaminated. Soil and overburden mounds used as diversion structures contoured and grassed and not contributing to turbid water. Diversion drains typically 1m wide and 0.4m deep adequate to accommodate the surface water flows storm events (i.e. 5% AEP). Trigger Action Response Plan (TARP – Rainfall / Storm Events) implemented for significant rainfall events and to manage freeboard on above-ground water storage (farm dam).	Compliance with Melbourne Water approved design and approval conditions for waterway diversion. Compliance to Work Plan Conditions. Survey set out of roads and designs where necessary employ surface treatment to reduce erosion. Record time and date, when emptied for a manual system, or download and save data logger file for automatic system. Maintenance of tracks to minimise erosion. Side and angled drain off collection drains protected against erosion. Compliance to Work Plan and Site Layout Plan. Surface water diversion structures installed as per Surface Water Management Plan and effectively intercepting surface water before it reaches operating areas. Diversion mounds contoured and vegetated and showing no evidence of erosion. Diversion drains capable of handling major (5% AEP) storm event. TARP actions in Surface Water Management Plan implemented to manage impacts of significant rainfall events and manage freeboard level in water storage (farm dam).	Unlikely	Moderate	Medium	Integrity and performance of diversion of Melbourne Water asset DR2504. Erosion control structures (ie sediment fences). Effectiveness of diversion drainage structures (swale drains, bunds, etc).	Inspect to assess the potential for contaminated stormwater to exit the site. Inspect and maintain erosion control structures. Inspected and maintained as required.	YES
Surface Water Flows	14	Inundation of quarry from flooding	Yes	Yes	Yes	Melbourne Water asset DR2504 on northern boundary Neighbouring properties	Surface drainage line on northern boundary Downstream landowners	Potential detriment to water quality and beneficial users	Proximity to site	Possible	Major	High	Operator training, operating procedures and supervision regarding discovery of Aboriginal or historic artefacts.	Monitoring for heritage artefacts during all soil and subsoil removal activities. Compliance to Work Authority and Work Plan conditions.	Unlikely	Moderate	Medium	Aboriginal and Historical heritage	Monitoring for heritage artefacts during all soil and subsoil removal activities, with contingency management measures in place.	YES
Ground Disturbance	15	Ground disturbing works inadvertently impacting on Aboriginal cultural heritage	Yes	Yes	Yes	Aboriginal cultural heritage	Aboriginal Cultural Heritage Sensitivity (ACHS) areas located outside the WA boundary to east and west	Potential for discovered aboriginal cultural heritage to be impacted by ground disturbing activities	Aboriginal cultural heritage could possibly be discovered during operations	Possible	Moderate	Medium	Quarry Manager aware of requirements of Aboriginal Heritage Act 2006 and Heritage Act 2017 and contingency measures for the discovery of any artefacts.	Monitoring for heritage artefacts during all soil and subsoil removal activities. Compliance to Work Authority and Work Plan conditions.	Rare	Moderate	Medium	Aboriginal and Historical heritage	Monitoring for heritage artefacts during all soil and subsoil removal activities, with contingency management measures in place.	YES
Ground Disturbance	16	Ground disturbing works inadvertently impacting on historical heritage	Yes	Yes	Yes	Historical heritage	No Listed heritage within 300m to site	Potential for discovered historical heritage to be impacted by ground disturbing activities	Historical heritage could possibly be discovered during operations	Possible	Minor	Medium	Operator training, operating procedures and supervision regarding discovery of Aboriginal or historic artefacts.	Standard Operating Procedures	Unlikely	Minor	Low	Aboriginal and Historical heritage	Monitoring for heritage artefacts during all soil and subsoil removal activities, with contingency management measures in place.	YES
Ground Disturbance	17	Ground disturbing works impacting on ecological values of retained native vegetation.	Yes	Yes	Yes	Ecological values of retained native vegetation	Native vegetation located around margins of the site	Potential for retained native vegetation to be impacted by ground disturbing activities	Proximity to site	Possible	Minor	Medium	Fencing and signage of no-go areas, i.e. Tree Protection Zone at east end of site. Maintaining agreed buffer zones. Maintain planted vegetation to ensure continued viability.	Site Layout Plan	Unlikely	Minor	Low	Unauthorised impacts on retained native vegetation. Condition of planted vegetation	Fencing and buffer zone security and maintenance will be monitored through regular inspections. All inspections, and any subsequent actions will be documented in the site record book. Monitor for continued viability and maintain as necessary.	YES
Ground Disturbance	18	Ground disturbing works impacting on groundwater beneficial uses	Yes	Yes	Yes	Groundwater	Ground water estimated at 1-4m below quarry floor	Potential to be impacted by ground disturbing activities intersecting groundwater	Proximity to site Monitoring bores	Possible	Major	High	Monitor and manage groundwater in accordance with Groundwater Management Plan and included TARPs. Maintain compliance to any conditions of Rural Water Authority and/or EPA regarding management of groundwater impacts.	Groundwater Management Plan and TARPs implemented in accordance with Nolan Consulting hydrogeological assessment. Compliance to Work Plan Conditions and any EPA permission.	Unlikely	Moderate	Medium	Groundwater impacts - onsite Groundwater impacts – offsite: engagement with owners of the nearest supply bores to confirm that their bore levels have not been adversely impacted.	Ground water monitoring bores and dewatering activities in accordance with Groundwater Management Plan (GMP) and the SRW extraction licences. Annual engagement, from end of Stage 2, or as necessary, in accordance with Groundwater Management Plan (GMP).	YES
Ground Disturbance	19	Ground disturbing works impacting on acidity of runoff and water in pit lake	No	Yes	Yes	Surface water and pit lake	Surface water runoff from stockpiles and onsite pit	Potential to be impacted by ground disturbing activities intersecting potentially acid generating materials	Resource drilling logs	Likely	Major	Very High	Identify any potential acid generating materials that are excavated and, if not to be processed, return to pit (below water) as soon as practicable. Stockpiles that could potentially generate acid (product, excavated material for processing, overburden / interburden, or consolidated slimes) placed within designated areas with all runoff directed to the in pit water storage via an interceptor trap. Acidity of runoff through interceptor trap and water sourced from onsite bores monitored and treated, if necessary, to maintain pH at near neutral.	Acid generation from excavated materials is minimised. Note: In-situ overburden and topsoil materials above groundwater level do not have any potential for acid generation. Any acid runoff generated from stockpiles is directed to the in pit water storage via an interceptor trap, where (if necessary) it can be treated with neutralising agents. Runoff directed to the in pit water storage via an interceptor trap and water sourced from onsite bores treated (if necessary) with neutralising agents – maintaining near neutral pH. Neutralising agents applied by appropriately trained staff / contractors and used in accordance with manufacturer's recommendations.	Unlikely	Moderate	Medium	Performance of measures to capture and treat acidic runoff from the Processing and Stockpiling area and the Temporary Materials Storage and Handling areas. Acidity of collected runoff and water supply.	Monthly inspections of all control structures in accordance with the site Surface Water Management Plan will be conducted, as well as following significant rainfall events (in accordance with TARP), remedial works as required. Inspections, and any required monitoring and remedial actions, documented in site record book. Routine weekly monitoring of acidity in return water from processing plant, water collected in interceptor traps and water supply from bores and in pit water storage. Required to maintain effectiveness of flocculants as well as water quality.	YES
Ground Disturbance	20	Ground disturbing works impacting AusNet power poles and/or powerline	Yes	Yes	Yes	AusNet powerline	Easement through southern portion of proposed disturbance	Potential to be impacted by ground disturbance within the WA	Proximity to site	Likely	Moderate	High	Appropriate signage and alerts near power lines and power poles. Relocation of powerlines through formal application to AusNet Services prior to commencing Stages 2 or 3. Staged construction of screening bund (including vegetation) will maintain 5m separation from powerline, before and after relocation.	Standard Operating Procedures (SOPs). Powerlines and easement relocated in accordance with AusNet Services requirements, before any extraction within Stages 2 or 3 (as per approved Site Layout Plan). Powerline, before and after relocation, remains at least 5m from screening bund and associated vegetation. Note: AusNet Services advises that relocated powerline can utilise much taller power poles where powerline needs to cross over the crest of the screening bund.	Rare	Moderate	Medium	Separation distance to powerline. Trigger for relocation of powerlines	Ensure that staged construction of screening bund and planted vegetation maintains a 5m separation to powerline. Ensure that AusNet application process for relocation of powerlines occurs in a timely manner, before commencing extraction in Stages 2 or 3 (as per approved Site Layout Plan)	YES



Quarrying or Rehabilitation Hazard	Risk No.	Risk Event	Phase			Sensitive Receptors				Inherent Risk Assessment			Control Measures	Performance Standards	Residual Risk Assessment			Monitoring and Ongoing Management		Detailed Risk Treatment Plan attached?
			Cons <sup>10m</sup>	Open <sup>10m</sup>	Rehab <sup>10m</sup>	Details of sensitive receptor	Location and proximity to site	How hazard may harm receptor	Evidence to support assessment	Likelihood	Consequence	Risk Rating			Likelihood	Consequence	Risk Rating	Aspect to be monitored	Details of monitoring and ongoing managmnt	
Ground Instability	21	Slope / embankment failure impacting beyond WA boundary	Yes	Yes	Yes	Private land Crown land Surface water	Adjacent land owners Site abuts South Gippsland Highway. Melbourne Water Asset DR2504 on northern boundary	Potential to be impacted by ground instability within the WA	Proximity to site	Possible	Major	High	Marking out Extraction Boundary Fencing and signage to indicate "No Go" areas, buffer areas, infrastructure areas. Maintain agreed buffer zones. Divert surface water away from batters / embankments with culverts, swale drains and bunds. Compliance to design of all quarry faces, embankments and mounds. Initial stability assessment, as triggered by Ground Control Management Plan to confirm material parameters and slope design. Minimum five-yearly stability reviews after initial stability assessment. Dewatering of exposed batters and berms, with surface drainage controls in place. Site inspections at least monthly and before (if possible) forecast and immediately after significant rain fall events. Investigation of any localised bench failures. Construction of shallow waterway diversion to Melbourne Water requirements and disturbed areas fully revegetated promptly.	Extraction Boundary marked with Yellow Posts. Suitable Fencing and signage in place and effective. Compliance to Work Plan / Site Layout Plan / Ground Control Management Plan. Review triggered and undertaken once a suitable depth of material is exposed, in accordance with Ground Control Management Plan, and performed by a suitably qualified and experienced person. Reviews undertaken in accordance with Ground Control Management Plan and performed by a suitably qualified and experienced person. Water management as per Surface Water Management Plan. Compliance to Rehabilitation Plan (Monitoring schedule). Waterway diversion constructed in accordance with Melbourne Water approval and detailed design parameters, including prompt establishment of vegetation to prevent erosion.	Rare	Major	Medium	Slope stability	Inspections will be conducted of extraction area faces (both operating and rehabilitated), extraction pit perimeter and site surface water management structures in accordance with Ground Control Management Plan. Standard operating procedures require all operators to report changes in ground conditions. Inspections, reports and any remedial actions will be documented in site record book. Results of site inspection and any remediation works recorded in the Site Manager's Record book. Minimum monthly inspections and after rain events, in accordance with Surface Water Management Plan, will be conducted and include all surface water management structures. Inspections, and any required monitoring and remedial actions documented in site record book.	YES
Ground Instability	22	Localised (single bench) failure	Yes	Yes	No	Private land Crown land Surface water	Adjacent land owners Site abuts South Gippsland Highway. Melbourne Water Asset DR2504 on northern boundary	Potential to be impacted by ground instability within the WA	Proximity to site	Possible	Minor	Medium	Construction of shallow waterway diversion to Melbourne Water requirements and disturbed areas fully revegetated as soon as practicable	Waterway diversion constructed in accordance with Melbourne Water approval and detailed design parameters, including prompt establishment of vegetation to prevent erosion.	Unlikely	Minor	Low	Surface water management	Minimum monthly inspections, and after rain events, for landform stability and establishment of vegetation on disturbed ground, until full stabilisation of constructed waterway diversion. Annual inspections, and after significant rain events, thereafter.	YES
Ground Instability	23	Construction of waterway diversion impacts on stability of adjacent Bass Gas Pipeline easement or adjacent land	Yes	Yes	No	Bass Gas Pipeline Private land	Pipeline easement adjacent to 200m length of northern boundary Adjoining private land	Potential to be impacted by construction of waterway diversion	Proximity to site	Unlikely	Moderate	Medium	Construction of shallow waterway diversion to Melbourne Water requirements and disturbed areas fully revegetated as soon as practicable	Waterway diversion constructed in accordance with Melbourne Water approval and detailed design parameters, including prompt establishment of vegetation to prevent erosion.	Rare	Minor	Low	Landform stability of constructed waterway diversion (Melbourne Water asset DR2504)	Minimum monthly inspections, and after rain events, for landform stability and establishment of vegetation on disturbed ground, until full stabilisation of constructed waterway diversion. Annual inspections, and after significant rain events, thereafter.	YES
Erosion and Sedimentation	24	Erosion from roads and disturbed areas	Yes	Yes	Yes	Surface waterways Neighbouring properties and environment	Melbourne Water Asset DR2504 on northern boundary Adjacent landowners	Potential to be impacted by sediment-laden surface waters	Proximity to site downstream	Likely	Moderate	High	Sediment traps, diversion drains, bunds, sediment fences, vegetation windrows, temporary and long-term mounds and any other necessary controls, adapted as required, around all ground disturbing activities. Maintain compliance to any conditions of Melbourne Water and/or EPA regarding management of any potential offsite discharge. Design of all quarry pit crests to incorporate swale drains and/or diversion bunds as required. Divert surface water away from disturbed area with swale drains and bunds. Control structures on all internal roads and tracks. Strategic location of any sedimentation traps. Any sand extracted with a grab crane or drag line will be allowed to dewater before delivery to the processing plant. Runoff from designated areas for processing and stockpiles (product, excavated material for processing, overburden / interburden, or consolidated slimes) directed to the in pit water storage via a sediment / interceptor trap. Overburden / interburden stockpiles, if not on drained hardstands, have a contour drain at the base to intercept / direct runoff into the site sediment controls. Contour, vegetate and stabilise topsoil and overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Trigger Action Response Plan (TARP – Rainfall / Storm Events) implemented for significant rainfall events.	Erosion and sediment control structures as per Surface Water Management Plan Construction of erosion and sediment control features consistent with EPA guidelines. Compliance to Work Plan Conditions and any EPA permission. All works in accordance with design. Minimal surface flows over disturbed areas. Control structures in place. Sediment traps located as per Surface Water Management Plan. Sediment-laden water draining from material extracted by grab crane or drag line (temporarily stockpiled) flows directly back into the excavation. Runoff from all processing and stockpiling areas is directed to the in pit water storage via a sediment / interceptor trap. Sediment-laden water draining from overburden / interburden stockpiles prevented from discharging from disturbance areas. Topsoil and overburden stockpiles stabilised when retained more than 6 months from construction. Vegetation maintained. Topsoiled and planted pasture on upper terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Any erosion on rehabilitated upper terminal batters that are not yet stabilised is within erosion acceptance criteria (above). Vegetation maintained and remedial action taken if erosion criteria exceeded. TARP actions in Surface Water Management Plan implemented to manage impacts of significant rainfall events.	Possible	Moderate	Medium	Water management structures (drains, bunds, sediment traps, etc) evaluated for performance	Inspection of all water management structures after each significant rainfall event, in accordance with TARP in Surface Water Management Plan, remedial works as required. Monthly inspections will be conducted of the site, as well as following significant rainfall events (in accordance with TARP), which will include waste dumps, topsoil stockpiles, surface water management structures and potential receiving drainage lines. Inspections, and any required monitoring and remedial actions documented in site record book. Specific surface water quality monitoring is not proposed but may be undertaken if directed by the ERR.	YES
Erosion and Sedimentation	25	Erosion from bunds	Yes	Yes	Yes	Surface waterways Neighbouring properties and environment	Melbourne Water Asset DR2504 on northern boundary Adjacent landowners	Potential to be impacted by sediment-laden surface waters	Proximity to site downstream	Likely	Moderate	High	Design of all quarry pit crests to incorporate swale drains and/or diversion bunds as required. Divert surface water away from disturbed area with swale drains and bunds. Control structures on all internal roads and tracks. Strategic location of any sedimentation traps. Any sand extracted with a grab crane or drag line will be allowed to dewater before delivery to the processing plant. Runoff from designated areas for processing and stockpiles (product, excavated material for processing, overburden / interburden, or consolidated slimes) directed to the in pit water storage via a sediment / interceptor trap. Overburden / interburden stockpiles, if not on drained hardstands, have a contour drain at the base to intercept / direct runoff into the site sediment controls. Contour, vegetate and stabilise topsoil and overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Trigger Action Response Plan (TARP – Rainfall / Storm Events) implemented for significant rainfall events.	Erosion and sediment control structures as per Surface Water Management Plan Construction of erosion and sediment control features consistent with EPA guidelines. Compliance to Work Plan Conditions and any EPA permission. All works in accordance with design. Minimal surface flows over disturbed areas. Control structures in place. Sediment traps located as per Surface Water Management Plan. Sediment-laden water draining from material extracted by grab crane or drag line (temporarily stockpiled) flows directly back into the excavation. Runoff from all processing and stockpiling areas is directed to the in pit water storage via a sediment / interceptor trap. Sediment-laden water draining from overburden / interburden stockpiles prevented from discharging from disturbance areas. Topsoil and overburden stockpiles stabilised when retained more than 6 months from construction. Vegetation maintained. Topsoiled and planted pasture on upper terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Any erosion on rehabilitated upper terminal batters that are not yet stabilised is within erosion acceptance criteria (above). Vegetation maintained and remedial action taken if erosion criteria exceeded. TARP actions in Surface Water Management Plan implemented to manage impacts of significant rainfall events.	Possible	Moderate	Medium	Evidence of erosion, and subsequent sediment-laden runoff	Inspection of all water management structures after each significant rainfall event, in accordance with TARP in Surface Water Management Plan, remedial works as required. Monthly inspections will be conducted of the site, as well as following significant rainfall events (in accordance with TARP), which will include waste dumps, topsoil stockpiles, surface water management structures and potential receiving drainage lines. Inspections, and any required monitoring and remedial actions documented in site record book. Specific surface water quality monitoring is not proposed but may be undertaken if directed by the ERR.	YES
Erosion and Sedimentation	26	Erosion from stockpiles (product and other) and hardstand areas	Yes	Yes	No	Surface waterways Neighbouring properties and environment	Melbourne Water Asset DR2504 on northern boundary Adjacent landowners	Potential to be impacted by sediment-laden surface waters	Proximity to site downstream	Likely	Moderate	High	Design of all quarry pit crests to incorporate swale drains and/or diversion bunds as required. Divert surface water away from disturbed area with swale drains and bunds. Control structures on all internal roads and tracks. Strategic location of any sedimentation traps. Any sand extracted with a grab crane or drag line will be allowed to dewater before delivery to the processing plant. Runoff from designated areas for processing and stockpiles (product, excavated material for processing, overburden / interburden, or consolidated slimes) directed to the in pit water storage via a sediment / interceptor trap. Overburden / interburden stockpiles, if not on drained hardstands, have a contour drain at the base to intercept / direct runoff into the site sediment controls. Contour, vegetate and stabilise topsoil and overburden stockpiles to be retained more than 6 months. Establish initial pasture on upper terminal batters, as soon as practicable, and also interim batters left for more than 12 months between stages. Trigger Action Response Plan (TARP – Rainfall / Storm Events) implemented for significant rainfall events.	Erosion and sediment control structures as per Surface Water Management Plan Construction of erosion and sediment control features consistent with EPA guidelines. Compliance to Work Plan Conditions and any EPA permission. All works in accordance with design. Minimal surface flows over disturbed areas. Control structures in place. Sediment traps located as per Surface Water Management Plan. Sediment-laden water draining from material extracted by grab crane or drag line (temporarily stockpiled) flows directly back into the excavation. Runoff from all processing and stockpiling areas is directed to the in pit water storage via a sediment / interceptor trap. Sediment-laden water draining from overburden / interburden stockpiles prevented from discharging from disturbance areas. Topsoil and overburden stockpiles stabilised when retained more than 6 months from construction. Vegetation maintained. Topsoiled and planted pasture on upper terminal batters awaiting rehabilitation within 3 months and interim batters between stages inactive for greater than 12 months. Pasture to be fully established within 12 months. Any erosion on rehabilitated upper terminal batters that are not yet stabilised is within erosion acceptance criteria (above). Vegetation maintained and remedial action taken if erosion criteria exceeded. TARP actions in Surface Water Management Plan implemented to manage impacts of significant rainfall events.	Possible	Moderate	Medium	Surface water quality	Inspection of all water management structures after each significant rainfall event, in accordance with TARP in Surface Water Management Plan, remedial works as required. Monthly inspections will be conducted of the site, as well as following significant rainfall events (in accordance with TARP), which will include waste dumps, topsoil stockpiles, surface water management structures and potential receiving drainage lines. Inspections, and any required monitoring and remedial actions documented in site record book. Specific surface water quality monitoring is not proposed but may be undertaken if directed by the ERR.	YES
Process Water and Storages	27	Discharge from overtopping of water storage dams to surface waterways and the environment.	Yes	Yes	Yes	Surface waterways Neighbouring properties and environment	Melbourne Water Asset DR2504 on northern boundary Adjacent landowners	Potential to be impacted by uncontrolled release / overtopping of water storages	Proximity to site downstream	Possible	Minor	Medium	Control structures on hard stand areas and all internal roads and tracks. Regular inspection of above-ground water storage (farm dam) wall integrity. Maintenance of appropriate freeboard on above ground water storage (farm dam) to ensure storage integrity. Trigger Action Response Plan (TARP – Water Storages) implemented to manage freeboard on water storage (farm dam) Excess water in water storage (farm dam) will be irrigated to rehabilitated areas or surrounding pasture.	Control structures in place and functional. Checklists completed and remedial action documented. Integrity of water storage dam maintained through management of freeboard levels. TARP actions in Surface Water Management Plan implemented to manage freeboard levels. No water stored at more than maximum freeboard level in water storage (farm dam).	Unlikely	Minor	Low	Dam Wall integrity	Monthly inspections	YES
Process Water and Storages	28	Failure of a water storage resulting in discharge to surface waterways and the environment.	Yes	Yes	Yes	Surface waterways Neighbouring properties and environment	Melbourne Water Asset DR2504 on northern boundary Adjacent landowners	Potential to be impacted by uncontrolled release / overtopping of water storages	Proximity to site downstream	Possible	Minor	Medium	Control structures on hard stand areas and all internal roads and tracks. Regular inspection of above-ground water storage (farm dam) wall integrity. Maintenance of appropriate freeboard on above ground water storage (farm dam) to ensure storage integrity. Trigger Action Response Plan (TARP – Water Storages) implemented to manage freeboard on water storage (farm dam) Excess water in water storage (farm dam) will be irrigated to rehabilitated areas or surrounding pasture.	Control structures in place and functional. Checklists completed and remedial action documented. Integrity of water storage dam maintained through management of freeboard levels. TARP actions in Surface Water Management Plan implemented to manage freeboard levels. No water stored at more than maximum freeboard level in water storage (farm dam).	Unlikely	Minor	Low	Storage capacity / freeboard in water storage (farm dam)	Rainfall events and storage freeboard (see TARP in Surface Water Management Plan for details)	YES

Quarrying or Rehabilitation Hazard	Risk No.	Risk Event	Phase			Sensitive Receptors			Evidence to support assessment	Inherent Risk Assessment			Control Measures	Performance Standards	Residual Risk Assessment			Monitoring and Ongoing Management		Detailed Risk Treatment Plan attached?				
			Cons <sup>10m</sup>	Open <sup>10m</sup>	Rehab <sup>10m</sup>	Details of sensitive receptor	Location and proximity to site	How hazard may harm receptor		Likelihood	Consequence	Risk Rating			Likelihood	Consequence	Risk Rating	Aspect to be monitored	Details of monitoring and ongoing managmnt					
Slimes Storage	29	Slimes discharging to surface waterways as a result of flooding / overtopping	No	Yes	Yes	Surface water Environment	Melbourne Water asset DR2504 Adjacent to site	Slimes release may impact surface water quality and downstream users	Proximity to site	Unlikely	Moderate	Medium	<p>Minimise wet slimes production by operation of thickeners and mechanical dewatering / pressing process.</p> <p>Surface drainage controls to direct sediment-laden return water from the processing plant and hardstand to the in pit water storage.</p> <p>Stockpiles of consolidated slimes placed within designated areas, with all runoff directed to the in pit water storage via an sediment / interceptor trap.</p> <p>Ensure any wet slimes placed into the in pit process water storage is deposited below standing ground water level.</p> <p>Accumulated wet slimes within the in pit process water storage that exceeds 3m depth will be pumped to processing plant for consolidation.</p> <p>Construct northern waterway diversion early in project life to prevent flooding of pit.</p>	<p>Construction and operation of suitable slimes thickener and dewatering / pressing equipment. Reliability of slimes processing plant to produce 'spadeable' consistency waste stream for blending with overburden/interburden, or plant oversize/waste, and used in partial backfill of excavation areas and site rehabilitation, where suitable.</p> <p>Surface water management structures in place, maintained and adequate to capture sediment-laden return water from processing plant, as per Surface Water Management Plan.</p> <p>Any sediment-laden runoff generated from stockpiles is directed to the in pit water storage via a sediment / interceptor trap.</p> <p>Deposition below water.</p> <p>Depth of wet slimes, over the quarry life, is prevented from accumulating in the in pit process water storage and posing a hazard for site rehabilitation.</p> <p>Compliance with Melbourne Water approved design and approval conditions.</p>	Rare	Minor	Low	Performance of slimes thickener and dewatering equipment.	Performance of surface water management for processing plant and hardstand area, as well as designated stockpile areas.	Water quality within in pit process water storage, and the depth of any deposited wet slimes material.	Monthly inspections, documented in site record book and any required monitoring and remedial actions.	Routine weekly inspection of the in pit process water storage. Required to maintain effectiveness of wash plant as well as water quality.	YES	
Imported Materials	30	Impacts on the natural environment, including on surface and groundwater, from imported materials containing weeds or other contaminants	Yes	Yes	Yes	Surface water Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation Adjacent land uses and immediate neighbours	Potential to be impacted by contaminated soil / material imported to the site	Proximity to site	Possible	Minor	Medium	<p>Any imported material handled in accordance with Imported Materials Management Plan.</p> <p>Source/supplier of imported material vetted for reputability. All deliveries of imported materials accompanied by a 'Delivery Driver Checklist', or similar docket.</p> <p>Confirm the EPA waste classification of the imported materials and confirm that the site is authorised to receive that material, and the importation meets all other EPA / ERR requirements.</p> <p>Visual inspection of all inbound materials prior to accepting on site, and again on stockpile at point of dumping - rejected loads immediately removed from site.</p> <p>Incidental waste that may later be discovered in imported materials are separated, sorted and removed from site.</p> <p>No imported material stockpiled outside of approved disturbance area.</p> <p>Monitor imported material volumes.</p>	<p>Imported Materials Management Plan in place before the importation of any material, consistent with relevant guidelines and EPA legislation.</p> <p>Imported Materials Management Plan in place and all records / checklists up to date.</p> <p>No stockpiles of imported material outside of approved disturbance area.</p> <p>Imported material volumes monitored to ensure allowed limits are not exceeded.</p>	Unlikely	Minor	Low					YES		
Imported Materials	31	Impacts on the natural environment, including surface and groundwater, from hazardous waste/materials being imported to site	Yes	Yes	Yes	Surface water Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation Adjacent land uses and immediate neighbours	Potential to be impacted by contaminated soil / material imported to the site	Proximity to site	Possible	Minor	Medium	<p>Visual inspection of all inbound materials prior to accepting on site, and again on stockpile at point of dumping - rejected loads immediately removed from site.</p> <p>Incidental waste that may later be discovered in imported materials are separated, sorted and removed from site.</p> <p>No imported material stockpiled outside of approved disturbance area.</p> <p>Monitor imported material volumes.</p>	<p>Imported Materials Management Plan in place and all records / checklists up to date.</p> <p>No stockpiles of imported material outside of approved disturbance area.</p> <p>Imported material volumes monitored to ensure allowed limits are not exceeded.</p>	Unlikely	Minor	Low	Source and characteristics of any imported material	The Imported Materials Management Plan requires documentation and records of material type, EPA waste classification, tonnages, source/suppliers, inspections and any subsequent remedial action or rejection		YES			
Imported Materials	32	Impacts on the natural environment, including surface and groundwater, from introducing soil-borne diseases to site	Yes	Yes	Yes	Surface water Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation Adjacent land uses and immediate neighbours	Potential for the land to be impacted by contaminated soil / material imported to the site	Proximity to site	Possible	Minor	Medium	<p>Visual inspection of all inbound materials prior to accepting on site, and again on stockpile at point of dumping - rejected loads immediately removed from site.</p> <p>Incidental waste that may later be discovered in imported materials are separated, sorted and removed from site.</p> <p>No imported material stockpiled outside of approved disturbance area.</p> <p>Monitor imported material volumes.</p>	<p>Imported material volumes monitored to ensure allowed limits are not exceeded.</p>	Unlikely	Minor	Low				YES			
Unauthorised Site Access	33	Unauthorised access to quarry faces/water bodies could result in personal injury	Yes	Yes	Yes	Public safety	Site may be accessible from public roads Unauthorised entry from public roads	Potential for unsupervised visitors to harm themselves	Proximity to site	Unlikely	Critical	High	<p>Gates and fences of suitable design and standard. Access gates to be locked when site unattended</p> <p>Signage on fencing warning of operations and high faces</p> <p>Equipment locked and secured when not in use.</p> <p>Design and construct onsite roads to safely accommodate the size and type of vehicles accessing and travelling within the site. Separate any general traffic from any internal haul routes.</p> <p>Visitor supervision</p>	<p>Fencing and gates in place and secured</p> <p>Signage installed</p> <p>Equipment locked and secured when not in use</p> <p>Traffic management implemented</p> <p>Visitor parking at WA entrance and Visitors record book maintained</p>	Rare	Critical	High	Boundary and site fencing integrity	Annual inspection of all site boundary fencing and gates.	Site visitors	Visitors record book entries completed	Unauthorised entries	Records kept of unauthorised entries	YES
Unauthorised Site Access	34	Unauthorised access to operating equipment or plant could result in personal injury	Yes	Yes	Yes	Public safety	Site may be accessible from public roads Unauthorised entry from public roads	Potential for unsupervised visitors to harm themselves	Proximity to site	Possible	Critical	Very High	<p>Gates and fences of suitable design and standard. Access gates to be locked when site unattended</p> <p>Signage on fencing warning of operations and high faces</p> <p>Equipment locked and secured when not in use.</p> <p>Design and construct onsite roads to safely accommodate the size and type of vehicles accessing and travelling within the site. Separate any general traffic from any internal haul routes.</p> <p>Visitor supervision</p>	<p>Fencing and gates in place and secured</p> <p>Signage installed</p> <p>Equipment locked and secured when not in use</p> <p>Traffic management implemented</p> <p>Visitor parking at WA entrance and Visitors record book maintained</p>	Unlikely	Critical	High	Boundary and site fencing integrity	Annual inspection of all site boundary fencing and gates.	Site visitors	Visitors record book entries completed	Unauthorised entries	Records kept of unauthorised entries	YES
Fuel, Lubricants and other Hazardous Materials	35	Fuel / oil leakage from equipment (mechanical failure, accident) resulting in impacts on the environment	Yes	Yes	Yes	Surface waters Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation area Adjacent land uses and immediate neighbours	Hydrocarbon and/or chemical release to environment	Proximity to site	Possible	Moderate	Medium	<p>Hydrocarbon storage in accordance with AS 1940 (The Storage and Handling of Flammable and Combustible Liquids) and the Dangerous Goods (Storage and Handling) Regulations 2002</p> <p>A contaminants spill kit available at all times when any minor servicing and/or simple maintenance tasks are undertaken on site.</p> <p>Major servicing / repairs conducted at workshop in appropriately bunded area.</p> <p>Any areas where refuelling / minor servicing activities or flocculant use are being undertaken are drained to ensure no water leaves the site without first going through an interceptor trap</p> <p>MSDS sheets readily available for all dust suppressants, flocculants, neutralising agents, herbicides, pesticides, copper sulphate and any other chemicals used or stored on site.</p> <p>All chemicals stored in accordance with the EPA Liquid Storage and Handling Guidelines and relevant Australian Standard.</p>	<p>Storage in accordance with the standards.</p> <p>Spill kits available.</p> <p>Workshop fitted with triple interceptor trap and water management structures</p> <p>Surface drainage and other water management controls, directing to an interceptor trap, in place and effective.</p> <p>MSDS sheets for all chemicals used or stored on site maintained in the site office</p> <p>Chemical storage in accordance with the guidelines, MSDS sheets and relevant standards.</p>	Unlikely	Moderate	Medium	Integrity of fuel and chemical storages	Monthly site inspections	Pollution controls and surface drainage effective and maintained.				YES
Fuel, Lubricants and other Hazardous Materials	36	Spills / discharges whilst refuelling resulting in impacts on the environment	Yes	Yes	Yes	Surface waters Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation area Adjacent land uses and immediate neighbours	Hydrocarbon and/or chemical release to environment	Proximity to site	Possible	Moderate	Medium	<p>Hydrocarbon storage in accordance with AS 1940 (The Storage and Handling of Flammable and Combustible Liquids) and the Dangerous Goods (Storage and Handling) Regulations 2002</p> <p>A contaminants spill kit available at all times when any minor servicing and/or simple maintenance tasks are undertaken on site.</p> <p>Major servicing / repairs conducted at workshop in appropriately bunded area.</p> <p>Any areas where refuelling / minor servicing activities or flocculant use are being undertaken are drained to ensure no water leaves the site without first going through an interceptor trap</p> <p>MSDS sheets readily available for all dust suppressants, flocculants, neutralising agents, herbicides, pesticides, copper sulphate and any other chemicals used or stored on site.</p> <p>All chemicals stored in accordance with the EPA Liquid Storage and Handling Guidelines and relevant Australian Standard.</p>	<p>Storage in accordance with the standards.</p> <p>Spill kits available.</p> <p>Workshop fitted with triple interceptor trap and water management structures</p> <p>Surface drainage and other water management controls, directing to an interceptor trap, in place and effective.</p> <p>MSDS sheets for all chemicals used or stored on site maintained in the site office</p> <p>Chemical storage in accordance with the guidelines, MSDS sheets and relevant standards.</p>	Unlikely	Moderate	Medium	Integrity of fuel and chemical storages	Monthly site inspections	Pollution controls and surface drainage effective and maintained.				YES
Fuel, Lubricants and other Hazardous Materials	37	Spills / damage to other chemical (eg flocculant) stores resulting in impacts on the environment	Yes	Yes	Yes	Surface waters Groundwater Environment	Melbourne Water asset DR2504 Groundwater will be exposed within the excavation area Adjacent land uses and immediate neighbours	Hydrocarbon and/or chemical release to environment	Proximity to site	Possible	Moderate	Medium	<p>Hydrocarbon storage in accordance with AS 1940 (The Storage and Handling of Flammable and Combustible Liquids) and the Dangerous Goods (Storage and Handling) Regulations 2002</p> <p>A contaminants spill kit available at all times when any minor servicing and/or simple maintenance tasks are undertaken on site.</p> <p>Major servicing / repairs conducted at workshop in appropriately bunded area.</p> <p>Any areas where refuelling / minor servicing activities or flocculant use are being undertaken are drained to ensure no water leaves the site without first going through an interceptor trap</p> <p>MSDS sheets readily available for all dust suppressants, flocculants, neutralising agents, herbicides, pesticides, copper sulphate and any other chemicals used or stored on site.</p> <p>All chemicals stored in accordance with the EPA Liquid Storage and Handling Guidelines and relevant Australian Standard.</p>	<p>Storage in accordance with the standards.</p> <p>Spill kits available.</p> <p>Workshop fitted with triple interceptor trap and water management structures</p> <p>Surface drainage and other water management controls, directing to an interceptor trap, in place and effective.</p> <p>MSDS sheets for all chemicals used or stored on site maintained in the site office</p> <p>Chemical storage in accordance with the guidelines, MSDS sheets and relevant standards.</p>	Unlikely	Moderate	Medium	Integrity of fuel and chemical storages	Monthly site inspections	Pollution controls and surface drainage effective and maintained.				YES
Pests Weeds and Animals	38	Allowing weeds to spread from the site to neighbouring properties	Yes	Yes	Yes	Environment Adjoining / neighbouring properties	WA and surrounding area Immediate adjoining land users	Weeds/pest species introduced or allowed to spread	Proximity to site	Possible	Moderate	Medium	<p>Eradicate or manage any declared noxious weeds or established pest animals, including habitats, present on the Work Authority area.</p> <p>Identify pest species habitats within the work authority boundary and remove refuge areas (burrows, hollow logs) where practicable and consistent with native vegetation protection requirements</p> <p>Disinfect equipment moved from areas known or suspected to contain Phytophthora cinnamomi.</p> <p>Limit vegetation clearing and surface disturbance activities to the minimum required operationally.</p> <p>Engage appropriately licenced personnel to conduct any required herbicide or pesticide application to control weeds and/or pest animals.</p>	<p>Infestations of declared noxious weeds and established pest animals are eradicated or controlled.</p> <p>Any herbicide use will be in accordance with manufacturer's recommendations, including the most appropriate time to ensure effective control.</p> <p>Pest animal habitats are removed or destroyed</p> <p>Hygiene procedures are in place and followed in areas with known or suspected Phytophthora cinnamomi presence.</p> <p>In accordance with Work Plan and Site Layout Plan</p> <p>Only licenced personnel are permitted to apply herbicides or pesticides.</p>	Unlikely	Moderate	Medium					YES		
Pests, Weeds and Animals	39	Harbouring pest animals	Yes	Yes	Yes	Environment Adjoining / neighbouring properties	WA and surrounding area Immediate adjoining land users	Weeds/pest species introduced or allowed to spread	Proximity to site	Possible	Moderate	Medium	<p>Eradicate or manage any declared noxious weeds or established pest animals, including habitats, present on the Work Authority area.</p> <p>Identify pest species habitats within the work authority boundary and remove refuge areas (burrows, hollow logs) where practicable and consistent with native vegetation protection requirements</p> <p>Disinfect equipment moved from areas known or suspected to contain Phytophthora cinnamomi.</p> <p>Limit vegetation clearing and surface disturbance activities to the minimum required operationally.</p> <p>Engage appropriately licenced personnel to conduct any required herbicide or pesticide application to control weeds and/or pest animals.</p>	<p>Infestations of declared noxious weeds and established pest animals are eradicated or controlled.</p> <p>Any herbicide use will be in accordance with manufacturer's recommendations, including the most appropriate time to ensure effective control.</p> <p>Pest animal habitats are removed or destroyed</p> <p>Hygiene procedures are in place and followed in areas with known or suspected Phytophthora cinnamomi presence.</p> <p>In accordance with Work Plan and Site Layout Plan</p> <p>Only licenced personnel are permitted to apply herbicides or pesticides.</p>	Unlikely	Moderate	Medium	Site flora and fauna for weeds and pests.	6 Monthly site inspections (Spring & Autumn)				YES	
Pests, Weeds and Animals	40	Unsanitised plant / equipment introducing weeds / diseases	Yes	Yes	Yes	Environment Adjoining / neighbouring properties	WA and surrounding area Immediate adjoining land users	Weeds/pest species introduced or allowed to spread	Proximity to site	Possible	Moderate	Medium	<p>Eradicate or manage any declared noxious weeds or established pest animals, including habitats, present on the Work Authority area.</p> <p>Identify pest species habitats within the work authority boundary and remove refuge areas (burrows, hollow logs) where practicable and consistent with native vegetation protection requirements</p> <p>Disinfect equipment moved from areas known or suspected to contain Phytophthora cinnamomi.</p> <p>Limit vegetation clearing and surface disturbance activities to the minimum required operationally.</p> <p>Engage appropriately licenced personnel to conduct any required herbicide or pesticide application to control weeds and/or pest animals.</p>	<p>Infestations of declared noxious weeds and established pest animals are eradicated or controlled.</p> <p>Any herbicide use will be in accordance with manufacturer's recommendations, including the most appropriate time to ensure effective control.</p> <p>Pest animal habitats are removed or destroyed</p> <p>Hygiene procedures are in place and followed in areas with known or suspected Phytophthora cinnamomi presence.</p> <p>In accordance with Work Plan and Site Layout Plan</p> <p>Only licenced personnel are permitted to apply herbicides or pesticides.</p>	Unlikely	Moderate	Medium						YES	
Pests, Weeds and Animals	41	Pit lake water becoming affected by blue-green algal blooms	No	Yes	Yes	Surface water / pit lake	Onsite pit	Potential to be impacted by algal blooms	Hydrogeological assessment	Unlikely	Minor	Low	<p>Pit water body monitored for blue-green algal blooms and dosed with copper sulphate, if necessary</p> <p>Engage appropriately licenced personnel to conduct any required copper sulphate application for blue-green algae control.</p>	<p>Any blue-green algal blooms detected and treated, in accordance with relevant guidance, to ensure that final rehabilitated pit lake remains free of blue-green algae.</p> <p>Only licenced personnel are permitted to apply copper sulphate (for any necessary blue-green algae control).</p>	Rare	Insignificant	Low	Presence of blue-green algal blooms within pit water body	Annual inspection (Summer) for blue-green algal blooms within pit water body, in accordance with Groundwater Management Plan.			YES		



Quarrying or Rehabilitation Hazard	Risk No.	Risk Event	Phase			Sensitive Receptors				Inherent Risk Assessment			Control Measures	Performance Standards	Residual Risk Assessment			Monitoring and Ongoing Management		Detailed Risk Treatment Plan attached?
			Cons <sup>100m</sup>	Oper <sup>100m</sup>	Rehab <sup>100m</sup>	Details of sensitive receptor	Location and proximity to site	How hazard may harm receptor	Evidence to support assessment	Likelihood	Consequence	Risk Rating			Likelihood	Consequence	Risk Rating	Aspect to be monitored	Details of monitoring and ongoing managmnt	
Rubbish / General Waste	42	Uncontrolled handling of domestic rubbish and general waste resulting in pollution of waterway and/or adjacent land	Yes	Yes	Yes	Surface water Adjacent land uses	Melbourne Water asset DR2504 Adjacent land and immediate neighbours	Potential for pollution to impact the adjacent waterway and/or adjacent land uses	Proximity to site	Possible	Minor	Medium	Protect waste storage areas from rainfall and stormwater and locate away from areas of protected habitat Redundant / discarded oil, grease rags etc stored in sealed drums until removed No on-site disposal (or burning) of domestic rubbish and/or general wastes generated from site activities. Use of off-site services / facilities authorised to receive the generated wastes, for recycling or disposal.	Covered waste storage areas and/or bins. "Full" waste oil / grease etc drums will not be stockpiled on site. Drums removed by contractors authorised to receive the waste. No domestic rubbish or wastes disposed on-site. Redundant / damaged/ discarded tyres and conveyor belting will be removed by the supplier as required.	Unlikely	Minor	Low	Amount of waste stored on site	Quantities, types and location of wastes stored on site as part of monthly site inspection and review	YES
Rubbish / General Waste	43	Loss of amenity through the poor handling of redundant plant and equipment	Yes	Yes	Yes	Adjacent land uses	Melbourne Water asset DR2504 Adjacent land and immediate neighbours	Potential for amenity loss to impact the adjacent land uses	Proximity to site	Possible	Minor	Medium	Redundant Tyres / conveyor belting Limit the volume and permitted timeframe for wastes to be stored onsite. Provide covered bins for temporary on-site storage of domestic rubbish and/or general wastes. Toilet/Amenities fitted with chemical system or council approved septic system. Redundant plant and equipment located where it cannot be seen from outside the site.	Waste materials not held on-site for more than 6 months. Sealed bins provided. Septic systems maintained as required and emptied by licensed contractor as required. Redundant plant & equipment not visible from public roads and removed from site if unattended for greater than 12 months.	Unlikely	Minor	Low	Disposal of wastes to sites authorised to receive that waste	Register of contractors with appropriate authorisation	YES
Fire	44	Uncontrolled fire could either enter or leave the site causing injury or damage	Yes	Yes	Yes	Biodiversity Public safety Private property Infrastructure	Adjacent Properties Site visitors and neighbouring residences Bass Gas Plant	Damage/destruction to surrounding land and amenity Serious injury / death Damage/destruction to infrastructure or pastures	Proximity to site Historical exposure	Possible	Critical	Very High	All vehicles well maintained and fitted with spark arrestors and fire extinguishers No "hot works" undertaken on days of Total Fire Ban All vehicles well maintained and fitted with spark arrestors and fire extinguishers No "hot works" undertaken on days of Total Fire Ban Refuelling and servicing to be conducted off-site or in cleared hard stand areas within the extraction area.	Vehicles suitably equipped with fire extinguishers / knapsack spray packs as appropriate. No ignition sources (welding, oxy cutting) on Total Fire Ban Days All refuelling and vehicle servicing in accordance with procedures	Unlikely	Critical	High	Site fire preparedness	Annual inspections will include an assessment of the site's preparedness for fire and be recorded in the Manager's Report Book	YES
Fire	45	Plant / machine / hot works igniting a wildfire	Yes	Yes	Yes	Biodiversity Public safety Private property Infrastructure	Adjacent Properties Site visitors and neighbouring residences Bass Gas Plant	Damage/destruction to surrounding land and amenity Serious injury / death Damage/destruction to infrastructure or pastures	Proximity to site	Possible	Critical	Very High	Monitor VicEmergency App / website, or similar, on days of extreme or catastrophic fire danger rating, or total fire ban days. Liaising with CFA in times of extreme or catastrophic fire danger rating. Fire Response and Readiness Plan. Flammable and combustible wastes are removed from the site as soon as practicable	Record of engagement with agencies Plan in place, documented and actioned No flammable waste is stockpiled onsite	Unlikely	Critical	High	Weather/fire warnings Total Fire Ban days	Liaising with CFA in times of extreme or catastrophic fire danger rating. Quarry Manager and/or Site Supervisor monitors Radio / CFA warnings (via VicEmergency app / website, or similar)	YES
Soil Biological Activity	46	Unsuccessful rehabilitation due to poor soil biological activity	Yes	Yes	Yes	On-site soils stockpiled for rehabilitation	On site soil stockpiles	Soil may become infertile	DELWP recommendation	Likely	Minor	Medium	No soil stripping/removal when it is very dry. Soil stockpiles height. Stabilise soil and overburden stockpiles (e.g. seeded / roughened / mulched) if they will not be disturbed for an extended period. Soil layers, including any surface organic matter and any woody debris segregated and stockpiled separately Imported soil checked/verified (via Imported Materials Management Plan) for pathogens and any disease.	Stockpiles ≤ 2 m height. Soil and overburden stockpiles are stabilised within 6 months if not used in progressive rehabilitation. Topsoil and woody debris stockpile separately Imported soils verified as pathogen and disease free	Unlikely	Minor	Low	Maintenance of site soil stockpiles	6 Monthly site inspections will be conducted and will include topsoil stockpiles. Inspections, and any required monitoring and remedial actions documented in site record book.	YES
Vehicle Sediment Transport	47	Dust, mud or sand carried onto public roads	Yes	Yes	Yes	Public safety Public Roads	South Gippsland Highway Adjacent to the WA and the point of access and egress from the site.	Dust, mud or sand deposited on road	Proximity to site	Likely	Minor	Medium	Sealed access road. Water cart used on access road. Internal traffic management (speed, no-go areas, etc) Wheel wash. Water cart used on access road. Road truck loads properly covered / secured before leaving site and/or not over-filled, to prevent spillage. Management of sediment transport to public roads consistent with EPA guidance.	Sales vehicles use sealed road access and egress. Employ water cart on high temperature / windy days, or in response to complaints. Driver instruction and training. All departing sales trucks use wheel wash. All departing sales trucks cleared of loose dust / sediment that may be deposited on roads before departing the site. Sediment transport offsite consistent with EPA guidance.	Possible	Minor	Medium	Dust, mud and sand deposition on surrounding roads. Community complaints / concerns re spillage or dust.	Daily observation Complaints management/Community Engagement Plan	YES

List Personnel accountable for the implementation, management and review of the Risk Management Plan

Personnel	Roles and Responsibilities
Work Authority Holder	Identification and allocation of resources
General Manager/Business owner	Identification and Distribution of resources, Co-ordination and Implementation of controls RTP
Quarry Manager/Site Supervisor	Co-ordination and Implementation of controls

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