Sly's Quarry – Tullymorgan – Jackybulbin Road Mororo NSW **Bushfire Management Plan 2016-2021**

Note: During incidents or planning prescribed burning operations this plan should be used in conjunction with field reconnaissance, operation and incident plans, and aerial /satellite imagery.

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Section One: Risk Assessment & Management Strategies

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Location and	Sly's Quarry is located at Lot 2 DP1055044 Tullymorgan-Jackybulbin Road, Mororo - approximately 25 km N of Maclean
Facility (area)	The Quarry is an open cut quarry to be expanded to a 18 hectare project area. The quarry will include an active borrow pit with supporting infrastructure including office, sediment and water supply dams, loading, maintenance and storage facilities, powerline, and access and parking areas.
Fire season / danger period	1 October to 31 March - unless brought forward to 1 September by Commissioner NSWRFS
Bushfire prone	The site is bushfire prone, with bushfire prone vegetation occurring within and adjoining the property.
Vegetation	The area surrounding the property is largely comprised of Blackbutt (<i>Eucalyptus pilularis</i>) dominated dry heathy tall open forest. A mix of agricultural lands and conservation reserves east are located to the east. Continuous woody forested vegetation within native forests are located in the landscape surrounding the site.
Bushfire risk factor summary	The highest risk fires for the site occur under southerly, westerly and northerly wind influences, where a fire is burning in the adjacent forested area and burns into the site. Fires occurring under such conditions are capable of generating life and

property threats. Fuel reduced areas to the east through agriculture will partially mitigate the fire risk. abfire Mitigation Marka Cabadula

Work Type	Location	Zone	Standard	Timing	Responsibility	Procedures	
Work Type Asset inspection, maintenance and seasonal bushfire	Shed / site office Mulch stockpiles	Inner Protection Zone (IPA) (of an Asset Protection Zone (APZ)) - 21m to the east & 27m to the south IPA of 20m on all sides	NSWRFS Standards for APZs (see	Annual inspection and works completed prior to the bushfire danger period, and monthly within the bushfire danger period	Quarry Manager	Refer to NSWRFS Standard - An IPA should provide a tree canopy cover of less than 15% and should be located greater than 2 metres from any part of the roofline of a dwelling/structure. Garden beds of flammable shrubs are not to be located under trees and should be no closer than 10 metres from an exposed window or door. Trees should have lower limbs removed up to a height of 2 metres above the ground.	COPENNANHUR 38
preparedness							Contact De
	Fuel storage	IPA of 100m on all sides					Contact
	Inspection and maintenance of site access trails	All site access f site access trails					Quarry Mana
			prior to the	Quarry Manager	Inspect access roads and trails (drainage, surface conditions, vegetation), identify and implement any maintenance required to meet the standard. As a working quarry access trails currently exceed	NSW Rural F	
						Bushfire V	
						Des	
			icy-2-2007-Fire- Trails.pdf)	period		NSWRFS standards with all access trails capable of supporting a Category One (Heavy) fire tanker	B Ther

Section Three: Bushfire Awareness Mechanisms					
Awareness activity/ product	Detai	Detail			
Site induction process		Induction of new staff members, contractors, visitors and site users to include bushfire awareness, reporting and response actions to fire danger, and evacuation procedures			
Staff briefings and pre- season drills		As part of fire and emergency procedures tool-box talk for all Quarry staff at the start of each fire season.			
Liaison and drills with local RFS / site arrangements review	Annua for site detaile	Quarry Manager			
Fire danger awareness	fire wa (ABC	or and advice staff on days of Very High fire danger (or greater) OR of any official arning issued for the site. Site supervisor or delegate to monitor ABC local radio Grafton 738AM 92.3FM) for fire warnings and NSWRFS website for fire danger s and warnings.	Quarry Manager		
Section Four: Prep	ared	ness and Response Strategy			
Activity		Operational guideline			
Fire Comm and Incident Control (IC)		Quarry Manager or their delegate initially until replaced by responding external Fire Authority IC (NSWRFS) (on arrival following handover briefing).			
Assembly Area ® Refuge		The Sly'sl Quarry Refuge of Last Resort (when it is too late to evacuate offsite) is within a vehicle in			

the centre of the borrow area of the quarry. Offsite evacuations must not be undertaken at the last of Last Resort | Offsite minute and only at the direction of the site supervisor or Incident Controller with the nearest Evacuation NSWRFS Neighbourhood Safer Place at Bimbimby Caravan Park, 286 lluka Road, Woombah. External fire fighting The nearest NSWRFS brigade is Woombah, directed from the Ulmarra Fire Control Centre (6644

5135). resources

Site fire fighting resources The site will include a large permanent water supply dam ^(W), including fittings for a hydrant. A water (for initial attack / spotfires cart with hose reel and spray is to be located on site for quarrying operations. only)



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Bushfire Pre	paredness ((during the	e Fire Seasc	n - restriction

Fire Danger Rating (North Coast Fire Area)	Potential Fire Behaviour and Impact	Quarry working restrictions and emergency actions
Low / Moderate	Fires can be easily controlled. Minimal impact of fire	No specific restrictions in place for personnel. Site works must be in accordance with standard procedures including compliance with contract conditions (including Hot Works Permit conditions).
High	to the main fire.	As for Low-Moderate PLUS All personnel working in or adjacent to continuous fuels are briefed/advised on appropriate ignition prevention measures and what to do in a fire. Consider issuing a Hotworks Permit for activities likely to cause sparks or ignitions. All site users within areas of bushfire hazard should have an emergency contact system in place (mobile phone or radio).
Very High	Embers may be blown ahead of the fire. Spot fires may occur up to 2 km ahead of the fire.	As for above plus: Quarry Manager or delegate to maintain a 'listening-watch' of ABC Local Radio (AM 684 ABC) for changes in fire danger and official bushfire warnings while site is in operation. All site fire and support units must be ready for immediate deployment if required. Consider the suspension of activities which may cause sparks in areas of vegetation hazard (elevated fuels) 'Hot Work' activities must be in accordance with Hot Works Permit conditions.
Severe		As for above plus: TOTAL FIRE BAN
Extreme Catastrophic	Spot fires may occur several km ahead of the fire. Fires occurring at these fire danger ratings	Site supervisor ready to evacuate personnel from site if required, or shelter within the site, in the event of a bushfire. All hot work is prohibited (welding, grinding, soldering gas cutting, or any work that can generate sparks) in accordance with NSWRFS requirements

Action

Business as usual.

Quarry Manager is to monitor local bushfire situation on the RFS website and ABC local radio (684 AM). All work units and contractors are to follow the directions of Quarry Manager.

In addition to above, close windows and ensure immediate surronds of all building are clear of combustible materials.

Determine those individuals deemed to be non-essential and initiate 'go early' actions.

All personnel should return to the site office assembly area and remain there awaiting further instructions from the Quarry Manager.

All personnel listen on ABC local radio to Emergency Warning evacuation location advised by emergency services. Proceed early to evacuation location if SAFE and route is CLEAR.

If off-site evacuation is not possible, shelter-in-place within office building if it is safe to do so, or within vehicles in the centre of the quarry borrow area. In the unlikely event that any building within which personnel are sheltering catches fire, building occupants should proceed immediately to vehiles within the centre of the quarry or alternative safe building. Personnel must not 'self-evacuate' from the quarry in the event of receiving an Emergency Warning. Note: Flee-in-panic responses and last minute evacuation into uncertain fire situations can be deadly. Any off-site evacuation must be controlled and authorised by the Emergency Incident Coordinator.

ns for Low/Moderate apply outside this period)