

ROLES AND RESPONSIBILITIES FOR EXECUTION OF THE MONITORING AND MANAGEMENT PROGRAMMES

MONITORING ASPECT	ROLES	RESPONSIBILITIES
Vegetation clearance	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees biodiversity protection and compliance to relevant legislation</p>	<ul style="list-style-type: none"> • Ensure only clearing of area that will be mined or developed; • Control of illegal hunting or snaring of game, birds or other wild animals; • Monitoring of vegetation establishment.
Dust nuisance	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Dust control– wetting when required, especially in dry winter months; • Access roads will be watered regularly, • Vegetation will not be unnecessary stripped; • Control domestic fires; • Monitoring of heavy vehicle emission control.
Noise nuisance	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • The working hours shall be limited to between 07:00 hrs and 18:00 hrs on weekdays, and 07:00 hrs and 17:00 hrs on Saturdays, or as per contract documentation; • Vehicles must be driven at a moderate speed (<50 kph) on private roads; • Ensuring usage of vehicles that are in good working order; • Maintenance of vehicles to roadworthy conditions and fitted with silencers; • Ensure monitoring of noise and usage of ear plugs. •
Soil erosion	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Prevent surface or gully erosion on site; • The topsoil berm will be inspected for erosion; • If erosion is noted, the erosion channel will be fixed by placing cut vegetation, sandbags or rocks within the erosion

		<p>channel and the cause of the erosion will be mitigated through the creation of runoff channels;</p> <ul style="list-style-type: none"> • Check condition of paving in walk or drive areas; • Prevent degradation of access roads.
Visual impact	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Monitor placement of stockpiles; • Monitor continual rehabilitation of site; • Monitor vegetation establishment.
Aquatic and Terrestrial ecology	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees biodiversity protection and compliance to relevant legislation</p>	<ul style="list-style-type: none"> • Control of illegal hunting or snaring of game, birds or other wild animals; • Monitoring of vegetation establishment; • Use indigenous vegetation species where hydroseeding and rehabilitation planting are to be implemented • Banks of disturbed drainage areas must be reprofiled. • Any areas where earthworks have taken place, shall be reseeded with indigenous vegetation to prevent erosion.
Placement of topsoil	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>OHS&E officer oversee compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Topsoil will be removed over the area to be extended and stored in a perimeter berm. The height of the topsoil berm will not exceed 3m.
Heritage aspects or graves	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • If an artefact or grave on-site is uncovered, work in the immediate vicinity shall be stopped immediately. The Contractor shall take reasonable precautions to prevent any person from removing or damaging any such article. • The South African Heritage

		<p>Resources Agency (SAHRA) shall be contacted such that an archaeological/heritage resources consultant can be appointed to record the site and excavate if necessary.</p> <ul style="list-style-type: none"> • Work may only resume once clearance is given in writing by the archaeological/heritage resources consultant.
Contamination of site due to hydrocarbon spillage	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • A drip tray will be available to place underneath haul vehicles and while the vehicles are parked at night. • Should a vehicle have a break down, it will be serviced immediately; • Ensuring usage of vehicles that are in good working order; • Maintenance of vehicles to roadworthy conditions • Implement management and clean-up systems for soil contamination with diesel and oils. If small spillage, clean up. If large spillage, appoint a suitable contractor for clean-up operation.
Infestation of weeds and alien vegetation	<p>SECO oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Every 3 months the contractor will employ casual labour to circumnavigate the site to hand pull out known alien vegetation that may have established in the disturbed area. Special attention will be given to the perimeter topsoil berm. • Casual labour will be provided with photographs of the alien vegetation that could establish.
Sanitation facilities	Site manager oversees compliance with the approved EMPR conditions and relevant	<ul style="list-style-type: none"> • Chemical toilet facilities shall preferably be used and sited on the camp site.

	<p>guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	
Topography	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Material that will not be suitable for use on the roads project will be stockpiled and used for the shaping of the mining area during the rehabilitation phase; • All unused material should be levelled. No stockpiled material is to be retained on site. • The mining area will be shaped to ensure no stockpiled heaps. • The contractor will slope the sides of the excavation created using the material not suitable for the road building purposes and stored for such purposes.
Health and safety risk	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>SECO / OHS officer oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • Appropriate safety clothing will be worn at all times i.e. head gear, shoes, ear plugs. • The blasting specification shall be adhered to pertaining to fly-rock etc. • The walls of the mining area will be sloped to a slope of at least 1:2 in order to prevent dangerous vertical walls but the quarry will not be free draining.
Emissions from heavy vehicles and generators	<p>Site manager oversees compliance with the approved EMPR conditions and relevant guideline</p> <p>OHS Officer / SECO oversees compliance to regulator standards and legislation</p>	<ul style="list-style-type: none"> • All heavy vehicles and generators used for the mining will be in good working condition and will be serviced regularly. • Should a vehicle have a break down, it will be serviced immediately.