

APPENDIX N5

AIR QUALITY TRIGGER ACTION RESPONSE PLAN

BIRD IN HAND GOLD PROJECT MINING LEASE PROPOSAL MC 4473



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Draft Trigger Action Response Plan

This Trigger Action Response Plan (TARP) is designed specifically for the Bird in Hand Gold Project and is designed to ensure that dust related impacts are minimised at surrounding sensitive receptors. The TARP includes a set of triggers that are based on site observations and real time PM₁₀ monitoring data. This draft will be reviewed through the PEPR development process and updated to reflect Lease conditions, monitoring systems and draft outcomes and measurement criteria. The trigger levels are described in **Table 1** and the TARP is presented in **Table 2**.

Table 1 Trigger level descriptions

Trigger	Description
Normal State	Normal conditions for day-to-day construction or operation – low risk of dust impacts to offsite receptors
Level 1	Warning level that indicates the potential for dust impacts due to increased dust concentrations above normal conditions. Additional dust controls and ongoing monitoring of the situation are required.
Level 2	Moderate risk of dust impacts to offsite receptors. Temporary controls must be implemented.
Level 3	Immediate risk of dust impacts to offsite receptors. Immediate action must be undertaken which may include ceasing certain activities.

Table 2 Trigger Action Response Plan

Trigger Level	Conditions	Response
Normal State	Site observations: <ul style="list-style-type: none"> - calm to moderate winds - no visible dust leaving site or Real time PM₁₀ Measurements: <ul style="list-style-type: none"> - 1-hour average PM₁₀ concentration <60 µg/m³ 	<ul style="list-style-type: none"> - Normal operation - Maintain standard dust suppression activities as per Environment Management Plan (EMP)
Level 1	Site observations: <ul style="list-style-type: none"> - Moderate to strong winds - No rain in past 12 hours - Dust has potential to leave site or Real time PM₁₀ Measurements: <ul style="list-style-type: none"> - 1-hour average PM₁₀ concentration >60 µg/m³ for one hour 	<ul style="list-style-type: none"> - Site manager to identify the activity(s) causing the dust and appropriate dust control applied as necessary, e.g: <ul style="list-style-type: none"> o Deploy water cart to the source of dust o Reduce intensity of identified activity - Continue to implement controls until conditions return to Normal State
Level 2	Site observations: <ul style="list-style-type: none"> - Strong winds - No rain in past 12 hours - Dust has potential to leave site or Real time PM₁₀ Measurements: <ul style="list-style-type: none"> - Two consecutive 1-hour average PM₁₀ concentrations >60 µg/m³ 	<ul style="list-style-type: none"> - Site manager to confirm that dust is leaving site - Further reduce the intensity of the identified activity/(s) - Continue to implement controls until conditions return to Normal State - Determine if additional long-term dust suppression controls are required - review EMP
Level 3	Site observations: <ul style="list-style-type: none"> - Strong to gale winds - No rain in past 12 hours - visible dust is leaving site or Real time PM₁₀ Measurements: <ul style="list-style-type: none"> - Three consecutive 1-hour average PM₁₀ concentrations >60 µg/m³ 	<ul style="list-style-type: none"> - STOP the identified activity(s) until wind conditions change or real time PM₁₀ measurements reduce to an acceptable level - Do not recommence the activity(s) until there is confidence that a 24-hour PM₁₀ average of 50 µg/m³ will not be exceeded - Report to regulatory bodies if 24-hour average PM₁₀ concentration > 50µg/m³

Table 3 presents specific control measures that should be undertaken for activities that are identified as the source of a Level 1 Trigger.

Table 3 Temporary intensity reduction and controls for specific activities

Activity	Temporary Intensity Reduction/ Control
Drilling	<ul style="list-style-type: none"> - Water sprays - Postpone until more favourable conditions return
Blasting	<ul style="list-style-type: none"> - Postpone until more favourable conditions
Vehicle movements	<ul style="list-style-type: none"> - Reduce vehicle movements - Re-route vehicles away from problem areas - Increase use of water cart on road surfaces - Postpone movements until more favourable conditions return
Excavation/ earth works/ IML shaping	<ul style="list-style-type: none"> - Reduce speed of works - Water sprays - Reduce drop heights from buckets into trucks or onto stockpiles - Postpone until more favourable conditions return
Trucks tipping material	<ul style="list-style-type: none"> - Limit to one truck at a time - Water sprays - Postpone until more favourable conditions return
Dumping to ROM bin	<ul style="list-style-type: none"> - Reduce the rate of dumping - Postpone until more favourable conditions return
Wind erosion on unconsolidated bunds	<ul style="list-style-type: none"> - Water sprays
Concrete batching	<ul style="list-style-type: none"> - Reduce production rate - Postpone until more favourable conditions