



**KOOLANOOKA – BLUE HILLS DIRECT
SHIPPING ORE (DSO) MINING PROJECT
KARARA CAMP
ENVIRONMENTAL MANAGEMENT PLAN**

*Providing sustainable environmental strategies,
management and monitoring solutions
to industry and government.*



MIDWEST CORPORATION LIMITED

**KOOLANOOKA/BLUE HILLS DIRECT SHIPPING
IRON ORE (DSO)
MINING PROJECT**

**KARARA CAMP
ENVIRONMENTAL MANAGEMENT PLAN**



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Table of Contents

EXECUTIVE SUMMARY	iii
1.0 INTRODUCTION	1
2.0 PROJECT DESCRIPTION	1
3.0 ROLES AND RESPONSIBILITIES	3
4.0 ENVIRONMENTAL MANAGEMENT PROCEDURES	4
EMP-01 Incident Reporting.....	5
EMP-02 Aboriginal Heritage	6
EMP-03 Native Flora and Fauna	8
EMP-04 Weed Management.....	9
EMP-05 Vegetation Clearance	11
EMP-06 Vegetation Demarcation Standards	13
EMP-07 Surface and Ground Water	14
EMP-08 Sumps and Contaminated Water	16
EMP-09 Hydrocarbon and Chemical Management	18
EMP-10 Hydrocarbon and Chemical Spills.....	20
EMP-11 Putrescible, Intractable and General Waste	22
EMP-12 Bushfire Control	23
EMP-13 Asbestos Removal	24
EMP-14 Rehabilitation	25
5.0 CONTINGENCIES	27
6.0 STAKEHOLDER CONSULTATION	28
7.0 REVIEW	29
8.0 SUMMARY OF ENVIRONMENTAL MANAGEMENT	30
9.0 REFERENCES	36
10.0 Appendix 1: Environmental Policy	38
11.0 Appendix 2: Mobilization Hygiene Certificate	39

Figures

Figure 2-1: Karara Camp Site Plan	2
Figure 5-1 Contingency Plan	27

Tables

Table 8-1: Summary of Environmental Management Procedures	30
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EXECUTIVE SUMMARY

Midwest Corporation Limited (Midwest) is proposing development of the Koolanooka/Blue Hills Direct Shipping Iron Ore Mining Project (DSO). The Koolanooka mine site is located approximately 160 km south east of Geraldton and 21 km east of Morawa, and the Blue Hills mine site is located 60 km to the east of Koolanooka.

The DSO Mining Project involves the recommencement of open pit mining activities at Koolanooka, and at the Mungada East and Mungada West pits at Blue Hills. These mines were previously operated by the Geraldton Operations Joint Venture (GOJV) from 1966–1972 as Western Australia’s first export iron ore mine. Work will predominantly be conducted in existing disturbed areas of the old mines.

Midwest has developed this Karara Camp Environmental Management Plan (KCEMP) for the proposed temporary accommodation complex at Karara Homestead on Karara Station. The camp will accommodate the workforce involved with the Blue Hills component of the DSO Project. The Mungada mines at Blue Hills are located on the pastoral lease known as Karara Station, which is now owned and managed by DEC. It is planned to progressively establish the camp, with accommodation for an exploration workforce of 12 initially required, expanding to 72 once mining operations commence.

The principal reason for needing to establish a camp near the old Karara homestead is due to the distance to the nearest serviceable town and safety issues associated with one hour travel each way every shift worked for every employee. The establishment of a temporary accommodation complex near the old Homestead will minimise travel requirements to an acceptable distance of 15 km.

Midwest plans to demolish the old homestead and other dilapidated outbuildings, restore the shearing shed to a level safe for public access, and manage the site to assist with the regeneration of native vegetation.

Midwest’s commitments are summarised in the DSO Public Environmental Review (PER), and this Karara Camp Environmental Management Plan.

1.0 INTRODUCTION

This document addresses the issues associated with the construction and management of the proposed new Midwest DSO camp which supports the Midwest DSO mine proposal.

Midwest, its employees and contractors will comply with all State and local government legislation that applies to this camp facility.

Compliance with commitments outlined in this document will be internally audited by Midwest and subject to external audits by the relevant regulatory agencies, including the Department of Environment and Conservation (DEC), Department of Industry and Resources (DoIR) and the Shires of Morawa and Perenjori.

2.0 PROJECT DESCRIPTION

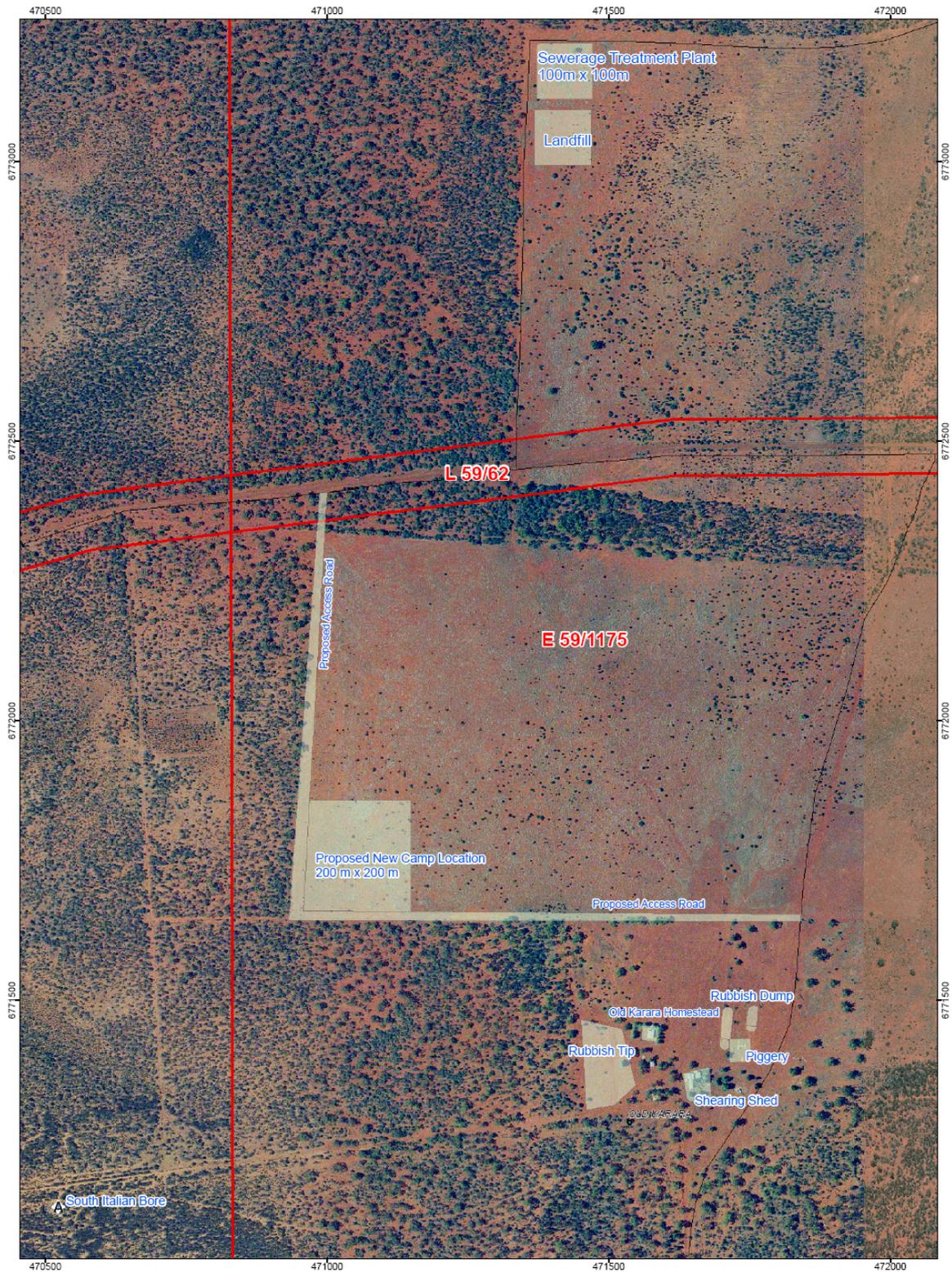
Safety is the principal reason for locating the camp within 15 km of the Blue Hills mining operations. This distance from the operations to the camp is considered acceptable from a risk management perspective. Alternative accommodation locations such as in the towns of Perenjori or Morawa would require up to one hour travel each way every shift. Midwest is particularly concerned about the fatigue from working 12 hours shifts and safety implications of the interaction of light vehicles and road trains on the haul road, and driving into the sun while commuting to and from Morawa.

Farming and pastoral activities have now ceased at the site, and regrowth of native vegetation is starting to take place. Using areas that were previously cleared for camp construction, landfill and sewerage treatment plant would be far preferable to creating a camp near the Blue Hills mining operations that would require additional clearing of virgin bushland. The proposed camp at Karara would also be located on a Midwest exploration lease which would reduce issues associated with land tenure. Because the camp would be located 15km from the mining activities at Mungada, the only issues of dust or noise would be from road train and light vehicle traffic. Management of noise and dust will be carried out according to Midwest's Environmental Management Plan.

Potable water is also available in this location from an existing well and should be adequate to supply the camp (Rockwater 2007).

Other options for accommodation that can effectively and safely service the Blue Hills area are extremely limited. The closest available camp that has been developed nearby is operated by the company Gindalbie, but this camp is already at maximum capacity. This camp is located on Mt Karara and it is likely that it will need to be moved to make way for the Karara Magnetite Project, should the project be approved. Extension of the Gindalbie camp would require a major upgrade to the sewage treatment system and further clearing to accommodate extra accommodation units.

Construction of a camp near the old Karara homestead is associated with potential and actual environmental impacts that will need to be managed. It is the intent of this document to summarise an appropriate method to manage these impacts.



Map Reference : 403_BHP_0308
Projection Details : MGA50, GDA94
Date Created : 31 March 2008

**Proposed Accomodation Complex
at Old Karara**

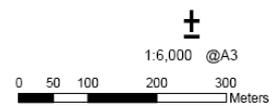


Figure 2-1: Karara Camp Site Plan

3.0 ROLES AND RESPONSIBILITIES

In accordance with this KCEMP, all activities will be conducted under the supervision of the site Environmental Manager or an appropriately qualified delegate. The selection of the Environmental Manager will be based upon competence and experience of similar works in sensitive environments.

With respect to the KCEMP, the role of the Environmental Manager will be to:

- Implement and monitor the effectiveness of the camp KCEMP;
- Provide environmental training for those involved in construction activities detailed in Midwest's environmental management procedures;
- Manage environmental aspects of the camp construction and its continued use;
- Manage contractors and monitor their compliance with Midwest's KCEMP;
- Facilitate communication with government agencies and stakeholders;
- Ensure environmental incidents are investigated and appropriate corrective actions are completed; and
- Report breaches of Midwest's environmental commitments to the appropriate government agencies.

Further details of the role and responsibility of the Environmental Manager are detailed throughout this KCEMP.

4.0 ENVIRONMENTAL MANAGEMENT PROCEDURES

The environmental management procedures detailed in this KCEMP form the basis of the operational control procedures for all Midwest's camp activities.

The procedures detail the objectives, management actions, performance indicators, monitoring and reporting requirements for each relevant environmental aspect associated with the camp construction, use and decommissioning whilst on the Karara Station. The management procedures in the KCEMP have been developed in direct relation to the issues identified within the DSO Koolanooka/Blue Hills Project Public Environmental Review (PER) document. This includes concerns raised by key stakeholders during the PER consultation process. Midwest seeks to minimise any disturbance associated with the Camp's construction and ongoing use.

A periodic review and amendment will be undertaken to ensure currency and effectiveness of this document.

Additionally, all work conducted in development of the Karara Camp will abide by the commitments and strategies given in the DSO Project PER, Environmental Management Plan (EMP), Environmental Management System (EMS), Closure Plan (CP) and Threatened Species Management Plan (TSMP).

EMP-01 Incident Reporting	Section 4
<p>Objective</p> <ul style="list-style-type: none"> • To minimise the impacts of environmental incidents; and • To track and record remedial measures and reduce the risk of re-occurrence. 	
<p>Management</p> <ul style="list-style-type: none"> • Staff and contractors are required to report environmental incidents, near-misses and potential hazards via their supervisor by completing an Incident and Non-conformance Report Form – EMS Form 5. • Notifiable incidents and emergency events will be reported in accordance with relevant government regulation requirements. • Spills that do not form an environmental hazard, and can be cleaned up effectively by the Midwest response personnel will be reported as a minor spill. • More significant hydrocarbon incidents that form an environmental hazard and cannot be cleaned up effectively by Midwest response personnel will be treated as emergencies. • Incidents that require reporting include: <ul style="list-style-type: none"> ○ unauthorised clearing; ○ inappropriate management of topsoil; ○ new infestations of pests or weeds; ○ death of fauna; ○ contamination of ground or surface water; ○ failure of containment sumps; ○ major erosion of access tracks; ○ disturbance to existing, or identification of new Aboriginal, or Non-Indigenous Heritage Sites; ○ fires; ○ hydrocarbon or chemical spills; ○ incorrect disposal of waste; ○ issues with asbestos removal; and ○ breaches or potential breaches of regulations. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> • Staff and contractors are required to report environmental incidents, near-misses and potential hazards via their supervisor by completing an Incident and Non-conformance Report Form – EMS Form 5. • Annual Environmental Reports (AER) will address all aspects of environmental impact and management for the broader Midwest DSO project, including incidents. 	
<p>Definitions</p> <p>Notifiable Incident: - An incident that is in breach of law or statutory condition that is required to be notified to the relevant government authority.</p> <p>Non-notifiable Incident: - Incident that does not require reporting to the government but requires the completion of an Incident and Non-conformance Report Form – EMS Form 5.</p> <p>Hazard: - A condition or practice that has the potential to cause damage, an environmental impact or loss.</p>	

EMP-02 Aboriginal Heritage	Section 4
<p>Objectives</p> <ul style="list-style-type: none"> • To avoid disturbance to Aboriginal Heritage sites unless approval has been given under Section 18 of the <i>Aboriginal Heritage Act</i> 1972. • To report any new or suspected sites. 	
<p>Management</p> <ul style="list-style-type: none"> • No Aboriginal Heritage sites have been identified within the camp impact area, however, should sites be identified disturbance to sites will be in accordance to conditions of Section 18 approvals. • Aboriginal heritage surveys will be undertaken by competent and appropriate persons for all areas to be impacted by the project. • In consultation with Aboriginal custodians and Native Title claimants, a management programme for Aboriginal sites will be implemented. This programme will involve identification of sites, management of approved disturbance and cross cultural awareness programs for employees. • Sites requiring protection will be demarcated on the ground if appropriate, and on site maps. Exclusion zones around these sites will be established and communicated to personnel. • Employees and contractors will complete a site induction prior to commencement of work. The induction will inform personnel of nearby sites (if appropriate) and their legal obligations to protect sites and/or disturb sites according to approved procedures. • Employees and contractors will promptly report any Aboriginal sites in the vicinity of the operations of the Company. Where sites are identified, they will be avoided. • Consultations with appropriate custodians will be maintained throughout the project life. • Qualified Anthropologists/Archaeologists will be used as circumstances dictate and require. • To identify any Aboriginal Heritage sites not currently included on the Aboriginal Sites Register, ethnographic surveys will be undertaken prior to any surface disturbing activities. • No ground clearing will commence without the presence of an Aboriginal monitor. • Any Aboriginal site or suspected sites, which have not previously been identified, will be reported to the Environmental Manager or delegate immediately upon discovery. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> • No Aboriginal Heritage sites are disturbed without approval. • No breeches of the <i>Aboriginal Heritage Act, 1972</i>. 	
<p>Monitoring</p> <ul style="list-style-type: none"> • Routine monitoring of known Aboriginal Heritage sites will be undertaken by the Environmental Manager or delegate to ensure disturbance to these areas has not occurred. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> • Any new suspected heritage sites will be reported immediately to the site Environmental Manager or delegate. 	

- Unauthorised interference with identified Aboriginal sites will be reported to the Environmental Manager or delegate, using an **Incident and Non-conformance Report Form – EMS Form 5**.
- Representative groups and the Department of Indigenous Affairs will be advised.

EMP-03 Native Flora and Fauna	Section 4
<p>Objective</p> <ul style="list-style-type: none"> To undertake camp activities in a manner which minimises the adverse impact to flora and fauna. To ensure that any adverse impacts to threatened species are avoided. 	
<p>Management</p> <ul style="list-style-type: none"> Vehicles will only use designated tracks. Native fauna will not be captured or intentionally harmed. Introduction of feral/domesticated animals will be prohibited. Areas found to contain Rare or Endangered species will be avoided and advice sought upon immediate notification of DEC. Disturbed areas will be rehabilitated as soon as practicable to facilitate fauna habitat restoration and flora propagation. Waste will be managed according to best practice principles in order to not provide a source of harm to flora or fauna. Employees will be required to comply with management actions of vegetation clearance to minimise habitat disturbance as outlined in EMP-05 Vegetation Clearance. Management will comply with commitments and strategies discussed in the project Threatened Species Management Plan. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> No DRF or Priority species are impacted without appropriate approval. 	
<p>Monitoring</p> <ul style="list-style-type: none"> Areas that have been disturbed will be checked for rehabilitation progress on a 6 monthly and ongoing basis by the Environmental Manager or delegate once decommissioning of the temporary camp has been completed. Monitoring of Threatened Species as described in the Threatened Species Management Plan. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> Where required, a report detailing the status of any specially protected (threatened) flora or fauna will be prepared by the Environmental Manager or delegate and supplied to DEC. Unauthorised clearing of areas, native animal injury/death will be reported as soon as possible to and investigated by the site Environmental Manager or delegate. Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management. 	

EMP-04 Weed Management	Section 4
<p>Objective</p> <ul style="list-style-type: none"> • To prevent the introduction of weeds to weed free areas within the camp area. • To prevent the transfer of weed species between mining and camp areas. • To minimise the risk of outbreaks and to control/reduce any existing infestation of target weed species in the camp. 	
<p>Management</p> <p><i>Weed Prevention</i></p> <ul style="list-style-type: none"> • No plants will be brought into the camp area. • Disturbance to natural vegetation will be minimised to limit invasion by introduced species. • Baseline surveys of undisturbed areas to be cleared will be undertaken to establish status of weed species. • Where required, intra-project hygiene boundaries will be established to prevent the spread of weeds within the camp area. These boundaries will be clearly demarcated on site and equipped with clean down facilities. • A list and means of identification (including photographs) of significant weed species will be made available to relevant personnel. • Environmental induction of all employees/contractors will include awareness of weed impacts, identification of weed species/reporting of infestations and hygiene procedures. • All vehicles, earthmoving/mobile plant and construction equipment will be washed down and cleaned of all vegetative, soil and rock material, if deemed necessary by the Environmental manager. Records of this process will be maintained by completing a Mobilisation Hygiene Certificate (Appendix 1). • Approval will be required before entering or leaving known weed infested quarantine areas. <p><i>Weed Control</i></p> <ul style="list-style-type: none"> • A weed control program will be implemented if target species are found to be present in the Karara camp. The standing crop of target species will be reduced by appropriate methods within the vicinity of areas to be affected by camp activities. • Quarantine areas encompassing known infestation will be established and demarcated by the Environmental Manager or delegate to prohibit vehicular access. • Spot spraying of emergent weed species within the camp and surrounding areas will be carried out to gradually deplete seed stocks and reduce or eliminate any new colonisation, generated by work activities. • Any new weed populations that arise in the project area as a result of project related activities will be removed. • Weed infestation quarantine areas will be demarcated by the Site Manager, and access will be prohibited. • Any equipment or vehicle considered to have been working in a weed risk area will be cleaned down before remobilising. • Mobile clean-down facilities will be provided. 	

Ruby Dock *Rumex vesicarius*

If generated by work activities:

- Ruby Dock plants will have a suitable glyphosate herbicide, eg Roundup, applied.
- Where practicable, the appropriate herbicide will be applied once Ruby Dock (**Acetosa vesicaria*) is fully foliated and actively growing, and before it sets seed.

Patterson's Curse **Echium plantagineum*

This is a Priority 1 listed weed under the ARRPP Act 1976, and exists within the Karara Station.

- The area surrounding the camp will be surveyed regularly for Patterson's Curse, commonly found at the mine site.
- Where practicable, the appropriate herbicide will be applied.

Performance Indicators

- No persistent new introductions or spread of weeds.

Monitoring

- Throughout the life of the camp, a weed infestation status survey will be commissioned by Midwest using suitably qualified personnel.
- Work sites will be inspected regularly by the Environmental Manager for weed propagation.
- Site inspection monitoring of weed hygiene procedures.

Reporting & Review

- New infestations of weeds or pests will be reported as an environmental incident to the Environmental Manager.
- Incidents relating to a failure in hygiene processes will be investigated using the **Incident and Non-conformance Report Form – EMS Form 5**.
- Weed status and management will be reported in the AER.

EMP-05 Vegetation Clearance	Section 4
<p>Objectives</p> <ul style="list-style-type: none"> • To minimise adverse impact to vegetation communities surrounding the camp area. • To undertake construction and operation activities in a manner which minimises adverse impact to Declared Rare and Priority flora. • To control the spread of weeds into new areas. 	
<p>Management</p> <ul style="list-style-type: none"> • Before clearing activities commence in previously undisturbed areas, approval for clearing will be sought from the Environmental Manager or delegate, the Site Disturbance Report Form – EMS Form 8, will be completed and work will be carried out in accordance with EMP-06 Vegetation Clearing Demarcation Standards. • Vehicles and machinery will only use designated tracks/roads. Off-road/track traversing will be prohibited. • All employees/contractors will be inducted on the importance of minimising vegetation clearing and disturbance, and the avoidance of weed infested EMP-04 Weed Management. • Mature trees will be avoided where practicable with the exception of Pepper trees in close proximity to the Camp area. • Any significant flora identified during the project duration will be clearly demarcated and avoided. Any Declared Rare Flora (DRF) that will be impacted requires Ministerial approval prior to disturbance. The Environmental Manager or delegate will consult with DEC regarding any threatened/significant flora which may be impacted. • Cleared vegetation will be stockpiled away from streams/creeks. • Erosion and sedimentation will be minimised by the construction of erosion control berms. • Where large areas of vegetation are disturbed resulting in exposed soil, soil stabilizing techniques, such as the application of water, will be employed to minimise dust, where this is required and practicable. • All clearing activities will be scheduled to minimise the time between initial clearing and rehabilitation. • No burning of vegetation spoil will occur. • Work is to be carried out in accordance with EMP-12 Bushfire Control. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> • No unauthorised clearing will occur. • No bushfires resulting from project activities 	
<p>Monitoring</p> <p>The Environmental Manager or delegate will regularly inspect operational areas to ensure:</p> <ul style="list-style-type: none"> • only authorised clearing is being undertaken; and • re-emergence of Pepper trees to be removed for the initial camp construction is limited. 	
<p>Reporting & Review</p>	

- Clearing plans will be submitted to the Environmental Manager or delegate for approval before the works begin.
- The Environmental Manager or delegate will maintain a register of **Site Disturbance Permits**.
- Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management.

EMP-06 Vegetation Demarcation Standards	Section 4
Objectives <ul style="list-style-type: none"> To clearly and unambiguously identify clearing boundaries for site preparatory works 	
Management <ul style="list-style-type: none"> The access tracks will be clearly pegged or flagged (PINK and YELLOW) to identify the allowable access route. Priority flora NOT to be cleared will be flagged BLUE and YELLOW, although survey sites have not identified any priority flora within the impact area. Pegs or flagging will be positioned at intervals not exceeding 25 m. Clearing will be the minimum possible, but sufficient to allow access for the size of the equipment needing to traverse the track – in places this may be up to 5 metres wide. 	
Performance Indicators <ul style="list-style-type: none"> No unauthorised clearing carried out. 	
Monitoring <ul style="list-style-type: none"> Periodic checks of area approved for clearing will be undertaken by the Environmental Manager. 	
Reporting & Review <ul style="list-style-type: none"> Clearing beyond approved limits will be reported using the Incident and Non-conformance Report Form – EMS Form 5. 	

EMP- 07 Surface and Ground Water	Section 4
<p>Objective</p> <ul style="list-style-type: none"> To undertake construction and operation activities in a manner which minimises adverse impacts to surface and ground water quality and quantity, and to natural hydrology. 	
<p>Management</p> <p><i>Hydrology/Watercourses</i></p> <ul style="list-style-type: none"> Design of access tracks and camp facilities will be done in a manner to minimise interference to natural drainage. The establishment and construction of drainage structures will be monitored to ensure compliance with the design specifications. Washing vehicles and equipment will occur only in appropriate and designated locations. Control and contain contaminated water on site to prevent entry into the natural drainage system and surrounding vegetation. <p><i>Water Quality</i></p> <ul style="list-style-type: none"> DoW Groundwater Licences will be complied with. Contaminated water from work areas will be kept separate from clean storm water. Water interfacing with work areas will be directed to oil water separators. Oily materials will be removed prior to reuse of the water. Water quality samples will be taken if potential contaminants are believed to have reached natural drainage channels. Water sampling will be undertaken in a manner which ensures sample integrity. All chemicals stored on-site will be in accordance with Dangerous Goods Regulations. (Refer to section EMP-09 Hydrocarbon and Chemical Management and also EMP-10 Hydrocarbon and Chemical Spills for specific guidelines. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> No significant erosion or sedimentation. No significant disruption to natural drainage flows. 	
<p>Monitoring</p> <ul style="list-style-type: none"> Inspections of drainage structures and erosion control measures will be carried out as soon as possible after periods of heavy rainfall to assess structural integrity. Water quality samples will be taken if potential contaminants are believed to have reached natural drainage channels. Water sampling will be undertaken in a manner which ensures sample integrity. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> Major erosion events will be reported immediately by submitting an Incident and Non- 	

conformance Report Form – EMS Form 5, to the Environmental Manager or delegate and repair works commenced as soon as possible.

- DoW licence reporting as required.
- Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management.

EMP-08 Sumps and Contaminated Water	Section 4
<p>Objective</p> <ul style="list-style-type: none"> • To undertake regular camp activities in a manner which minimises adverse impacts to the environment from water use. • To contain and control contaminated water. 	
<p>Management</p> <p><i>Grey Water</i></p> <ul style="list-style-type: none"> • Waste water will be immediately disposed of in a sub-surface grey water leach sump. • The grey water leach sump will be located below ground level, away from any identified water courses or bores, and will not interfere with ground water quality. • The grey water leach sump will be constructed to prevent pooling and designed to be capable of accommodating the total calculated output from the workforce. • All activities concerning grey water will comply with <i>Health Act 1911</i> regulations. <p><i>All Sumps</i></p> <ul style="list-style-type: none"> • Hydrocarbon spill kits will be located in the vicinity of all operative sumps. • Oily films/spillage will be removed immediately from sumps in accordance with EMP-10 Hydrocarbon and Chemical Spills and EMP-09 Hydrocarbon and Chemical Management. • Sumps will be located down slope of the activity site to ensure capture of all run-off. • Water will be allowed to evaporate before sumps are backfilled. • Stockpiled substrates will be returned in the reverse order to that of removal (subsoil first followed by topsoil). • Sump sites will be scarified and rehabilitated in accordance with EMP-14 Rehabilitation. <p><i>Management During the Wet Season</i></p> <p>During the Wet Season, it may be impracticable to fully contain surface water run-off due to the volume of rainfall and natural catchments of areas. Midwest has committed to reducing its impacts on surface run-off alteration through the following commitments:</p> <ul style="list-style-type: none"> • The design and location of water sumps will aim to reduce surface in-flow. • Ensure that sumps are checked before rains to ensure they are clear of contaminants. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> • No fauna sump-related deaths recorded. • No evidence of runoff to undisturbed areas. 	
<p>Monitoring</p> <ul style="list-style-type: none"> • Inspections of sumps, drainage structures and erosion control measures will be carried out before rains to check for waste materials and contaminants, and as soon as possible after periods of heavy rainfall to assess structural integrity. 	

Reporting & Review

- Major erosion events of sumps will be reported to the Environmental Manager or delegate and remedial works undertaken.
- Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management.

EMP-09 Hydrocarbon and Chemical Management	Section 4
<p>Objective</p> <ul style="list-style-type: none"> To minimise the impact of hydrocarbons/chemicals (solvents, cleaning fluids etc) on the local and regional environment through the appropriate use, storage and transport of hydrocarbons and chemicals. 	
<p>Management</p> <ul style="list-style-type: none"> All chemicals will be approved for use by the Environmental Manager prior to being transported to site. Material Safety Data Sheets (MSDS) will be available for all chemicals used on site. MSDS will be filed by the Environmental Manager at the point of storage. Handling, use and storage of chemicals will be compliant with the relevant MSDS. Hydrocarbons and chemicals will be stored, used, transported and disposed in accordance with Dangerous Goods Regulations and DoIR guidelines. Hydrocarbons will be stored in accordance to Australian Standards for the Storage and Handling of Flammable and Combustible Liquids (AS 1940 – 1993) and will be segregated, where required, to ensure that incompatible classes of chemical are not stored together. Bunded and lined storage facilities will be located away from watercourses. Storage facilities will be equipped with adequate fire control equipment and spill response material/equipment. Hydrocarbons and chemicals will be transported to and from the camp and work sites by a Service Vehicle with secondary containment. Drums and containers on the service vehicle will be properly secured to restrict movement and spillage. The service vehicle will have a spill kit on board. Contractor Emergency Response Plans will be in place and suitable training will be undertaken to ensure swift and effective clean up in the event of contamination of surface and groundwater. Portable gensets will be stored on drip trays and semi permanent gensets will be stored on drip trays and in lined earthwork bunds. <p>Disposal</p> <p><i>Used hydrocarbons and chemicals:</i></p> <ul style="list-style-type: none"> Used hydrocarbon containers will be adequately labelled and stored appropriately for future use or disposal. Empty drum and containers will be periodically removed from site and disposed or recycled according to EMP-11 Putrescible and Intractable Waste. Hydrocarbons and oily wastes (e.g. fuels, greases, de-greaser, emulsified oils and oily waste water) generated on site, will be stored for removal from site to the Cue tip. Hydrocarbons, oily wastes and chemicals will be stored in contained areas. Contaminated soil will be collected and removed from site. Regular reviews of waste management practices and storage of hydrocarbons and chemicals will be undertaken. 	

Performance Indicators

- No breach of relevant legislation and guidelines concerning the transport, storage, handling and disposal of hydrocarbons/chemicals on site.

Monitoring

- Housekeeping inspections will be undertaken by the Environmental Manager or delegate. This will include inspection of storage areas for leaking bunds, drums or containers and inventories of spill response equipment and materials.

Reporting & Review

- Details of quantities and types of hydrocarbons/chemicals will be recorded by the Environmental Manager or delegate for reporting purposes.
- Spills will be reported immediately as an environmental incident by completing an **Incident and Non-conformance Report Form – EMS Form 5**. Investigations will be undertaken if required.
- Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management.

EMP-10 Hydrocarbon and Chemical Spills	Section 4
<p>Scope</p> <ul style="list-style-type: none"> • Notifiable incidents and emergency events will be reported in accordance with relevant government regulation requirements. • Spills that do not form an environmental hazard, and can be cleaned up effectively by the Midwest response personnel will be reported as a minor spill. 	
<p>Objective</p> <ul style="list-style-type: none"> • To ensure that minor hydrocarbon and chemical spills are properly contained, cleaned up and disposed. 	
<p>Management</p> <ul style="list-style-type: none"> • Hydrocarbon and Chemical spills will be managed according to the recommendations in the manufacturer’s Material Safety Data Sheets (MSDS). • Emergency Services both on site and external, will be contacted in the event of a large spill or if hazardous chemicals are involved, where this is possible. • Hydrocarbon spill response kits will be provided at all nearby work sites and at the camp administration. • The spilt substance will be identified and if time permits and the risk is warranted, an MSDS obtained. • The spill will be controlled, the leak stopped, and then contained as soon as possible. This will include blocking the source of the spill, blocking access to waterways and building dams/dykes around the spill. • If safe and prudent to do so, spills will be cleaned up using absorbent materials. • Soaked absorbent material will be segregated and removed from site. • Soils contaminated with hydrocarbons will be excavated, sealed and removed from site. • Spill kits will be restocked. • The likelihood of the spill recurring will be investigated and steps taken to prevent its recurrence. These measures will be documented and made available to the workforce. • The DEC’s Reporting of Known or Suspected Contaminated Sites (2001) process will be utilised to determine the level of reporting required for each incident. • Spills greater than 205 litres will be considered as significant and reported immediately to the Environmental Manager or delegate and Emergency personnel will be called on to coordinate cleanup. • Response procedures for spills considered significant will be in accordance with the Emergency Response Plan of the responsible contractor. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> • Reporting, investigation and clean up of spills in a prompt and timely manner. • No Major spills. 	
<p>Monitoring</p> <ul style="list-style-type: none"> • Weekly housekeeping inspections of waste management practices and storage of 	

- hydrocarbons and chemicals will be undertaken by the Environmental Manager or delegate.
- Recurrence of spill events will be recorded.

Reporting & Review

- Spills and non-compliance with procedures will be investigated using the **Incident and Non-conformance Report Form – EMS Form 5**.
- Annual Environmental Reports (AER) will be compiled addressing all aspects of environmental impact and management,

EMP-11 Putrescible, Intractable and General Waste	Section 4
<p>Objective</p> <ul style="list-style-type: none"> To minimise the impact of putrescible (food wastes) and intractable waste on the local and regional environment and prevent pollution of the air, land and water. To ensure putrescible and intractable waste management practices comply with current legislature, industry standards and waste disposal guidelines. 	
<p>Management</p> <ul style="list-style-type: none"> Vehicles and worksites will have secure (lidded) rubbish containers for the containment of waste to prevent contamination of the site and the spread of wind blown litter. Camp facilities will have secure (lidded) putrescible waste facilities to prevent access by fauna. Littering will not be permitted. Oily waste will be removed separately and placed in the specified area for removal offsite by the specified contractor. Aluminium cans will be separated and sent offsite to contribute to community fundraising activities. Where waste can not be reused or recycled it will be removed from site at regular intervals in sealed containers/bags and transported to the Morawa Shire disposal facility. Housekeeping inspections of facilities will be undertaken by the Environmental Manager or delegate, including the identification of any fire hazards. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> High standard of general house keeping on site is maintained. Wastes are segregated and recycling opportunities have been maximised. 	
<p>Monitoring</p> <ul style="list-style-type: none"> Housekeeping inspections will be undertaken by the Environmental Manager or delegate. This will include inspecting putrescible and intractable waste storage containers and areas. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> Non-compliance with this procedure will be investigated using the Incident and Non-conformance Report Form – EMS Form 5. Waste management will be reported in the AER. 	

EMP-12 Bushfire Control	Section 4
Objective <ul style="list-style-type: none"> To prevent bushfires resulting from activity within the Karara camp area. 	
Management <ul style="list-style-type: none"> Vehicles will carry fire fighting equipment complying with the relevant Australian standards and staff will be trained in the use of this equipment. Fire fighting equipment will be located at campsite, appropriate nearby worksites, and at powered equipment such as generators and pumps. Fire safety inspections will be periodically undertaken by the Environmental Manager or delegate using during environmental inspections. An adequate firebreak will be constructed and maintained around the Karara camp. Diesel powered vehicles will be used on site, unleaded fuel vehicles fitted with catalytic converters (which operate at high temperatures) will be avoided to reduce the chance of fire. 	
Performance Indicators <ul style="list-style-type: none"> No unplanned fires due to site activities. 	
Monitoring <ul style="list-style-type: none"> Housekeeping inspections and routine maintenance of fire fighting equipment will be undertaken by the Environmental Manager or delegate. All equipment that may cause fires will be inspected and potential fire hazards addressed. Pre-start checks are to be recorded on the appropriate daily inspection form. 	
Reporting & Review <ul style="list-style-type: none"> Bushfire frequency and details will be recorded and maintained on site by the Environmental Manager or delegate on a Incident and Non-conformance Report Form – EMS Form 5, Incidents will be reported to DoIR and the Department of Environment and Conservation as required and in the AER. 	

EMP-13 Asbestos Removal	Section 4
<p>Objective</p> <ul style="list-style-type: none"> • To minimise the impact of asbestos building materials currently in the Karara Homestead, on Midwest employees and other people travelling through the area. • Ensure asbestos materials are managed in such a way that does not compromise the health and well being of personnel at any stage. with minimal impact to the environment and the health and well being of personnel will not be comprised at any stage of the camp construction, use or decommissioning. 	
<p>Management</p> <ul style="list-style-type: none"> • The Homestead and shearing shed will be demolished by a government approved contractor. • The asbestos waste will be transported to an appropriate waste facility that will adequately deal with the asbestos. • Asbestos that is not suitable for removal will be buried and the site fenced off with access to the area restricted to personnel approved by the Environmental Manager. A licence to bury this material will be obtained prior to work commencement if this is required. Also DEC will be notified of this action if it is carried out, so they can add this to their contaminated sites register. • Ambient air quality assessments will be conducted quarterly at the camp. 	
<p>Performance Indicators</p> <ul style="list-style-type: none"> • No Asbestos incidents from camp, development related activities 	
<p>Monitoring</p> <ul style="list-style-type: none"> • Midwest will conduct quarterly ambient air quality assessment of the Karara camp, ensuring asbestos fibres are not present within the camp area. • Topsoil of the contaminated area will be inspected to ensure asbestos is contained within the area specified for isolation. 	
<p>Reporting & Review</p> <ul style="list-style-type: none"> • Results and details of asbestos monitoring will be recorded and maintained on site by the Environmental Manager or delegate. • Incidents will be reported to DoIR, DoCEP & DEC as required and in the AER. 	

EMP-14 Rehabilitation	Section 4
<p>Objectives</p> <ul style="list-style-type: none"> • To meet the tenement conditions with respect to the rehabilitation of camp sites. • To meet commitments to best practice environmental management. • To encourage the re-establishment of self-sustaining ecosystems compatible with surrounding undisturbed areas. 	
<p>Management</p> <p><i>Rehabilitation</i></p> <ul style="list-style-type: none"> • Disturbed areas will be rehabilitated once the cleared areas are no longer utilised. • Where practicable, project areas will be progressively rehabilitated to ensure that the rate of rehabilitation is similar to the rate of clearing. • All camp related infrastructure, where no longer required for the following land use, will be removed. • Compacted surfaces will be ripped or scarified to a depth of approximately 300 mm should ground condition and hydrology allow. • Where practicable, natural drainage patterns will be reinstated. • Disturbed areas to be recovered with topsoil or rock to match adjacent undisturbed areas to a depth of approximately 100 mm. • Local provenance seed and plants may be utilised to boost flora density. • Management of noxious or environmental weeds in rehabilitated areas will be in accordance with EMP-04 Weed Management. • Midwest will monitor and manage rehabilitated areas until such time as criteria for relinquishment are met, in accordance with relevant government agencies. • Midwest will restore the surface profile and prepare the surface to a condition of roughness to resist erosion and accelerate natural revegetation by containing runoff, ensuring infiltration and seed trap. • Rehabilitation will be looked at and implemented based on advice provided DEC. <p><i>Decommissioning</i></p> <p>Should Midwest undertake no further related mining activities beyond the extent of the granted leases, the following management procedures will apply:</p> <ul style="list-style-type: none"> • Infrastructure, including camp and storage facilities, will be dismantled and removed from the lease. • Waste will be removed and disposed of in appropriate licensed facilities – there will be no burial of waste on-site. • Rehabilitation of impacted areas will be undertaken in accordance with Rehabilitation procedures detailed above. <p><i>Completion Criteria</i></p>	

- There should be no access tracks apparent which are left to be used by others and develop into permanent features.
- There should be no actual or potential erosion sites.
- There should be no permanent markers, spoil or litter.
- There should be no open holes sumps or unstable landforms.
- All disturbed areas should be re-contoured to pre disturbance conditions and prepared for natural plant regeneration when weather permits. Re- contouring should be such that natural water flow is retained or re-established, or that it encourages micro topographical water harvesting.
- There should be no disturbances likely to remain visible from the air where these could be removed by immediate remedial action (camp infrastructure).
- Weeds and exotic plant and animal species should neither be introduced nor spread. Treatment must be undertaken, as required, in consultation with DEC.

Performance Indicators

- Rehabilitation of sites when areas are no longer in use;
- All sumps and depressions stabilised;
- Demobilisation and removal of all equipment, supplies, vehicles, waste and infrastructure associated with the camp facility on lease;
- Monitoring of rehabilitated areas at set intervals using standard sampling techniques and an annual basis; and
- No breach of tenement conditions and commitments within the PER.

Monitoring

- Site inspections will be undertaken to ensure progressive rehabilitation is undertaken where feasible.
- Decommissioning of temporary construction facilities will be monitored for compliance with procedures.
- The Environmental Manager or delegate will routinely inspect rehabilitation areas and maintain a **Site Disturbance and Rehabilitation Register**.

Reporting & Review

- A record of rehabilitation undertaken will be maintained in the **Rehabilitation Register**.
- Rehabilitation will be addressed in an AER as required.

5.0 CONTINGENCIES

This section demonstrates the appropriate method of providing response and resolution to incidents if they occur during camp construction or daily operation.

An Incident Contingency Plan is provided below (Figure 5-1). In the event of non-compliance immediate action will be taken to rectify the issue followed by a review of procedures.

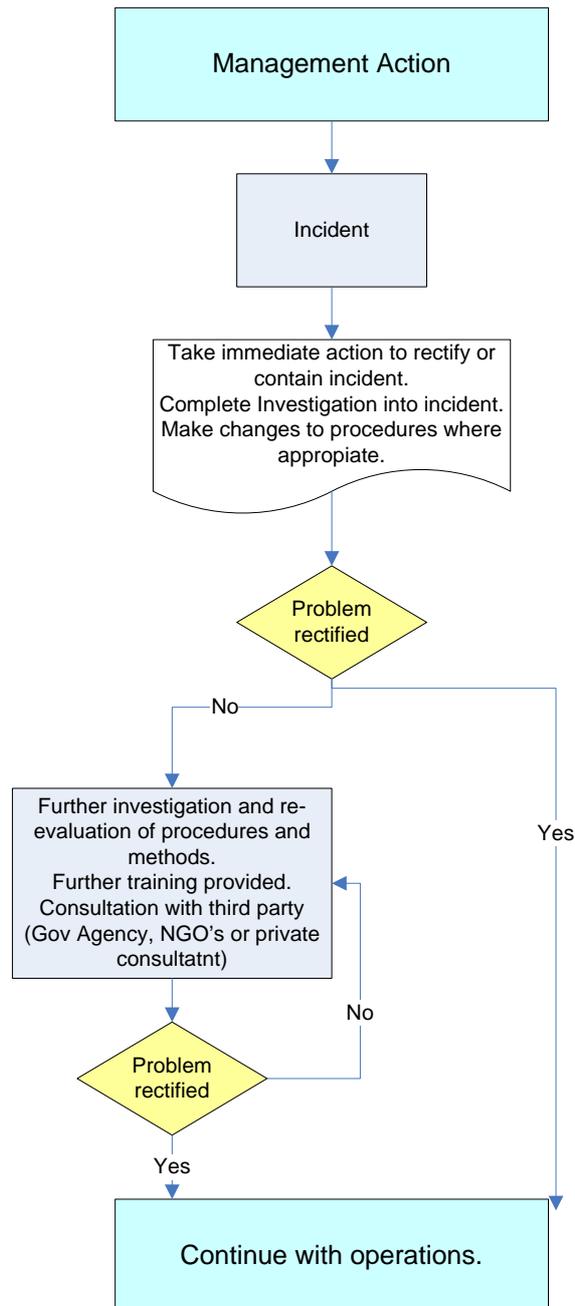


Figure 5-1 Contingency Plan

6.0 STAKEHOLDER CONSULTATION

Consultation with relevant stakeholders was required as part of the environmental approval process for the DSO Project and this is ongoing. A number of methods have been used to engage the public on the proposed Project, depending on the issue or information required.

Two public consultation meetings were held at Morawa on 22 June 2004 and 6 December 2006 and one in Perenjori on 7 December 2006. During these consultation meetings DSO Project information was presented to the communities and the public were given an opportunity to raise queries or concerns.

Midwest has also undertaken ongoing consultation and liaison with the Shires of Morawa and Perenjori. Two local council special sessions were held on 6 and 7 December 2006 respectively, to discuss the DSO Project scope. The Shires of Morawa and Perenjori support the recommencement of operations at the mine site. Other issues raised included benefits to the town and district and alternative employment opportunities.

A briefing session similar to the public meetings in Morawa and Perenjori was held in Perth on 24 January 2007. Invitees to this meeting included representatives from government agencies and Non-Government Organisations (NGO's), including the Conservation Council of WA and the Wildflower Society. Discussions revolved around the scope of DSO Project works and the types of investigations being conducted

Midwest has undertaken ongoing consultation and liaison with the landowners in the vicinity of the mine site. As required by the Mining Act, 1978, Midwest is entering into agreements with each of the landowners that own freehold land subject to Mining Leases owned by Midwest.

Briefings, meetings and discussions have been held with a range of state and regional agencies and advisory bodies. Discussions have been held with:

- Department of Environment and Conservation (DEC Perth).
- Department of Environment and Heritage (DEH, Canberra).
- Department of Indigenous Affairs (DIA, Perth).
- Department of Industry and Resources (DoIR, Perth).
- Department of Planning and Infrastructure (DPI, Perth).
- Department of Premier and Cabinet (DPC, Perth).
- Environmental Protection Authority (EPA, Perth).
- Environmental Protection Authority Services Unit (EPASU, Perth).

These agencies have been involved in DSO Project discussions and invited to comment on relevant aspects of the scope and adequacy of investigation methodologies. Accordingly, Midwest has refined and expanded the scope of environmental investigations.

Midwest will continue consultation with regulators throughout the DSO Project planning, construction and operation to ensure that issues regarding the DSO Project are managed appropriately.

Specific consultation undertaken with agencies and individuals is further detailed in the DSO PER document.

7.0 REVIEW

This KCEMP will be reviewed every two years or at such time as the project scope changes. A review will be undertaken within 6 months of approvals or licence conditions being granted. The revision status will be recorded as directed by the Midwest Document Control Procedure.

The review will seek to incorporate any new investigations, information and new working techniques.

8.0 SUMMARY OF ENVIRONMENTAL MANAGEMENT

The following table summarises the objectives and management measures that will apply to the Karara Camp. This information will be provided to the nominated contractors with a contractual requirement to demonstrate that the management measures have been included in the relevant scope of works, such as through the preparation of specific management procedures, and that an adequate budget has been allowed for to implement the procedures.

Table 8-1: Summary of Environmental Management Procedures

Issue	Objective	Key Management Actions
Incident Reporting	<ul style="list-style-type: none"> • To minimise the impacts of environmental incidents; and • To track and record remedial measures and reduce the risk of re-occurrence. 	<ul style="list-style-type: none"> • Staff and contractors are required to report environmental incidents, near-misses and potential hazards via their supervisor by completing an Incident and Non-conformance Report Form – EMS Form 5. • Notifiable incidents and emergency events will be reported in accordance with relevant government regulation requirements. • Spills that do not form an environmental hazard, and can be cleaned up effectively by the Midwest response personnel will be reported as a minor spill. • More significant hydrocarbon incidents that form an environmental hazard and cannot be cleaned up effectively by Midwest response personnel will be treated as emergencies. • Incidents that require reporting include: <ul style="list-style-type: none"> ○ unauthorised clearing; ○ inappropriate management of topsoil; ○ new infestations of pests or weeds; ○ death of fauna; ○ contamination of ground or surface water; ○ failure of containment sumps; ○ major erosion of access tracks; ○ disturbance to existing, or identification of new Aboriginal, or Non-Indigenous Heritage Sites; ○ fires; ○ hydrocarbon or chemical spills; ○ incorrect disposal of waste; ○ issues with asbestos removal; and ○ breaches or potential breaches of regulations.
Aboriginal Heritage	<ul style="list-style-type: none"> • To avoid disturbance to Aboriginal Heritage sites unless approval has been given under Section 18 of the Aboriginal Heritage Act 1972. • To report any new or suspected sites. 	<ul style="list-style-type: none"> • No Aboriginal Heritage sites have been identified within the camp impact area, but if disturbance to any aboriginal heritage site or artefact is required, this will only occur after appropriate approvals have been obtained. • Mine site inductions will provide information on Aboriginal Heritage sites within the mine lease area. • Heritage protection procedures will be adopted through agreement made between Midwest and the Widi Mob, Pandawn Descendants, Yamatji Marpla Barna Baaba Aboriginal Corporation and the Amangu Mob. • Qualified Anthropologists/Archaeologists will be used as circumstances dictate and require. • To identify any Aboriginal Heritage sites not currently included on the Aboriginal Sites Register, ethnographic surveys will be undertaken prior to any surface disturbing activities.

Issue	Objective	Key Management Actions
		<ul style="list-style-type: none"> No ground clearing will commence without the presence of an Aboriginal monitor. Any Aboriginal site or suspected sites, which have not previously been identified, will be reported to the Environmental Manager or delegate immediately upon discovery.
Native Flora & Fauna	<ul style="list-style-type: none"> To undertake camp activities in a manner which minimises the adverse impact to flora and fauna. To ensure that any adverse impacts to threatened species are avoided. 	<ul style="list-style-type: none"> Vehicles will only use designated tracks. Native fauna will not be captured or intentionally harmed. Introduction of feral/domesticated animals will be prohibited. Areas found to contain Rare or Endangered species will be avoided and advice sought upon immediate notification of DEC. Disturbed areas will be rehabilitated as soon as practicable to facilitate fauna habitat restoration and flora propagation. Waste will be managed according to best practice principles in order to not provide a source of harm to flora or fauna. Employees will be required to comply with management actions of vegetation clearance to minimise habitat disturbance as outlined in EMP-05 Vegetation Clearance. Management will comply with commitments and strategies discussed in the project Threatened Species Management Plan.
Weed Management	<ul style="list-style-type: none"> To prevent the introduction of weeds to weed free areas within the camp area. To prevent the transfer of weed species between mining and camp areas. To minimise the risk of outbreaks and to control/reduce any existing infestation of target weed species in the camp. 	<p>Weed Prevention</p> <ul style="list-style-type: none"> No plants will be brought into the camp area. Disturbance to natural vegetation will be minimised to limit invasion by introduced species. Baseline surveys of undisturbed areas to be cleared will be undertaken to establish status of weed species. A Weed Register will be maintained by the Environmental Manager throughout the life of the camp. Information such as distribution, abundance, relevant biological information and effective control methods is to be contained in the register. All vehicles, earthmoving/mobile plant and construction equipment will be washed down and cleaned of all vegetative, soil and rock material, if deemed necessary by the Environmental manager. Records of this process will be maintained by completing a Mobilisation Hygiene Certificate (Appendix 2). Approval will be required before entering or leaving known weed infested quarantine areas. <p>Weed Control</p> <ul style="list-style-type: none"> A weed control program will be implemented if target species are found to be present in the Karara camp. The standing crop of target species will be reduced by appropriate methods within the vicinity of areas to be affected by camp activities. Quarantine areas encompassing known infestation will be established and demarcated by the Environmental Manager or delegate to prohibit vehicular access. Spot spraying of emergent weed species within the camp and surrounding areas will be carried out to gradually deplete seed stocks and reduce or eliminate any new colonisation, generated by work activities. <p>Ruby Dock <i>Rumex vesicarius</i> If generated by work activities:</p> <ul style="list-style-type: none"> Ruby Dock plants will have a suitable glyphosphate herbicide, eg Roundup, applied. Where practicable, the appropriate herbicide will be applied once Ruby Dock is fully foliated and actively growing, and before it sets seed. <p>Patterson's Curse <i>Echium plantagineum</i> This is a Priority 1 listed weed under the ARR Act 1976, and exists within the Karara Station.</p> <ul style="list-style-type: none"> The area surrounding the camp will be surveyed regularly for Patterson's Curse, commonly found at the mine site. Where practicable, the appropriate herbicide will be applied.
Vegetation Clearance	<ul style="list-style-type: none"> To minimise adverse impact to vegetation communities surrounding the camp area. 	<ul style="list-style-type: none"> Before clearing activities commence in previously undisturbed areas, approval for clearing will be sought from the Environmental Manager or delegate, the Site Disturbance Report Form – EMS Form 8, will be completed and work will be carried out in accordance with EMP-06 Vegetation Clearing Demarcation Standards. Vehicles and machinery will only use designated tracks/roads. Off-road/track traversing will be prohibited.

Issue	Objective	Key Management Actions
	<ul style="list-style-type: none"> To undertake construction and operation activities in a manner which minimises adverse impact to Declared Rare and Priority flora. To control the spread of weeds into new areas. 	<ul style="list-style-type: none"> All employees/contractors will be inducted on the importance of minimising vegetation clearing and disturbance, and the avoidance of weed infested EMP-04 Weed Management. Mature trees will be avoided where practicable with the exception of Pepper trees in close proximity to the Camp area. Any significant flora identified during the project duration will be clearly demarcated and avoided. Any Declared Rare Flora (DRF) that will be impacted requires Ministerial approval prior to disturbance. The Environmental Manager or delegate will consult with DEC regarding any threatened/significant flora which may be impacted. Cleared vegetation will be stockpiled away from streams/creeks. Erosion and sedimentation will be minimised by the construction of erosion control berms. Where large areas of vegetation are disturbed resulting in exposed soil, soil stabilizing techniques, such as the application of water, will be employed to minimise dust, where this is required and practicable. All clearing activities will be scheduled to minimise the time between initial clearing and rehabilitation. No burning of vegetation spoil will occur. Work is to be carried out in accordance with EMP-12 Bushfire Control.
Vegetation Clearance and Demarcation Standards	<ul style="list-style-type: none"> To clearly and unambiguously identify clearing boundaries for site preparatory works. 	<ul style="list-style-type: none"> The access tracks will be clearly pegged or flagged (PINK and YELLOW) to identify the allowable access route. Priority flora not to be cleared will be flagged BLUE and YELLOW, although site surveys have not identified any priority flora within the impact area; Pegs or flagging will be positioned at intervals not exceeding 25 meters. Clearing will be the minimum possible but sufficient to allow access for the size of equipment needing to traverse the track – in places due to terrain this may be up to 5 metres wide.
Surface and Ground Water	<ul style="list-style-type: none"> To undertake construction and operation activities in a manner which minimises adverse impacts to surface and ground water quality and quantity, and to natural hydrology. 	<p>Hydrology/Watercourses</p> <ul style="list-style-type: none"> Design of access tracks and camp facilities will be done in a manner to minimise interference to natural drainage. The establishment and construction of drainage structures will be monitored to ensure compliance with the design specifications. Washing vehicles and equipment will occur only in appropriate and designated locations. <p>Water Quality</p> <ul style="list-style-type: none"> DoW Groundwater Licences will be complied with. Water quality samples will be taken if potential contaminants are believed to have reached natural drainage channels. Water sampling will be undertaken in a manner which ensures sample integrity. All chemicals stored on-site will be in accordance with Dangerous Goods Regulations. (Refer to section EMP-09 Hydrocarbon and Chemical Management and also EMP-10 Hydrocarbon and Chemical Spills for specific guidelines.
Sumps and Contaminated Water	<ul style="list-style-type: none"> To undertake regular camp activities in a manner which minimises adverse impacts to the environment from water use. To contain and control contaminated water. 	<p>Grey Water</p> <ul style="list-style-type: none"> Waste water will be immediately disposed of in a sub-surface grey water leach sump. The grey water leach sump will be located below ground level, away from any identified water courses or bores, and will not interfere with ground water quality. The grey water leach sump will be constructed to prevent pooling and designed to be capable of accommodating the total calculated output from the workforce. All activities concerning grey water will comply with Health Act 1911 regulations. <p>All Sumps</p> <ul style="list-style-type: none"> Hydrocarbon spill kits will be located in the vicinity of all operative sumps.

Issue	Objective	Key Management Actions
		<ul style="list-style-type: none"> • Oily films/spillage will be removed immediately from sumps in accordance with EMP-10 Hydrocarbon and Chemical Spills and EMP-09 Hydrocarbon and Chemical Management. • Sumps will be located down slope of the activity site to ensure capture of all run-off. • Water will be allowed to evaporate before sumps are backfilled. • Stockpiled substrates will be returned in the reverse order to that of removal (subsoil first followed by topsoil). • Sump sites will be scarified and rehabilitated in accordance with EMP-14 Rehabilitation. <p>Management During the Wet Season During the Wet Season, it may be impracticable to fully contain surface water run-off due to the volume of rainfall and natural catchments of areas. Midwest has committed to reducing its impacts on surface run-off alteration through the following commitments:</p> <ul style="list-style-type: none"> • The design and location of water sumps will aim to reduce surface in-flow. • Ensure that sumps are checked before rains to ensure they are clear of contaminants.
Hydrocarbon and Chemical Management	<ul style="list-style-type: none"> • To minimise the impact of hydrocarbons/chemicals (solvents, cleaning fluids etc) on the local and regional environment through the appropriate use, storage and transport of hydrocarbons and chemicals. 	<p>Management</p> <ul style="list-style-type: none"> • All chemicals will be approved for use by the Environmental Manager prior to being transported to site. • Material Safety Data Sheets (MSDS) will be available for all chemicals used on site. MSDS will be filed by the Environmental Manager at the point of storage. Handling, use and storage of chemicals will be compliant with the relevant MSDS. • Hydrocarbons and chemicals will be stored, used, transported and disposed in accordance with Dangerous Goods Regulations and DoIR guidelines. • Hydrocarbons will be stored in accordance to Australian Standards for the Storage and Handling of Flammable and Combustible Liquids (AS 1940 – 1993) and will be segregated, where required, to ensure that incompatible classes of chemical are not stored together. • Bunded and lined storage facilities will be located away from watercourses. • Storage facilities will be equipped with adequate fire control equipment and spill response material/equipment. • Hydrocarbons and chemicals will be transported to and from the camp and work sites by a Service Vehicle with secondary containment. • Drums and containers on the service vehicle will be properly secured to restrict movement and spillage. • The service vehicle will have a spill kit on board. • Contractor Emergency Response Plans will be in place and suitable training will be undertaken to ensure swift and effective clean up in the event of contamination of surface and groundwater. • Portable gensets will be stored on drip trays and semi permanent gensets will be stored on drip trays and in lined earthwork bunds. <p>Disposal Used hydrocarbons and chemicals:</p> <ul style="list-style-type: none"> • Used hydrocarbon containers will be adequately labelled and stored appropriately for future use or disposal. • Empty drum and containers will be periodically removed from site and disposed or recycled according to EMP-11 Putrescible and Intractable Waste. • Hydrocarbons and oily wastes (e.g. fuels, greases, de-greaser, emulsified oils and oily waste water) generated on site, will be stored for removal from site to the Cue tip. • Hydrocarbons, oily wastes and chemicals will be stored in contained areas. • Contaminated soil will be collected and removed from site. • Regular reviews of waste management practices and storage of hydrocarbons and chemicals will be undertaken.
Hydrocarbon and Chemical Spills	<ul style="list-style-type: none"> • To ensure that minor hydrocarbon and chemical spills are properly contained, cleaned up and disposed. 	<p>Management</p> <ul style="list-style-type: none"> • Hydrocarbon and Chemical spills will be managed according to the recommendations in the manufacturer’s Material Safety Data Sheets (MSDS). • Emergency Services both on site and external, will be contacted in the event of a large spill or if hazardous chemicals are involved, where this is possible. • Hydrocarbon spill response kits will be provided at all nearby work sites and at the camp administration.

Issue	Objective	Key Management Actions
		<ul style="list-style-type: none"> • The spilt substance will be identified and if time permits and the risk is warranted, an MSDS obtained. • The spill will be controlled, the leak stopped, and then contained as soon as possible. This will include blocking the source of the spill, blocking access to waterways and building dams/dykes around the spill. • If safe and prudent to do so, spills will be cleaned up using absorbent materials. • Soaked absorbent material will be segregated and removed from site. • Soils contaminated with hydrocarbons will be excavated, sealed and removed from site. • Spill kits will be restocked. • The likelihood of the spill recurring will be investigated and steps taken to prevent its recurrence. These measures will be documented and made available to the workforce. • The DEC's Reporting of Known or Suspected Contaminated Sites (2001) process will be utilised to determine the level of reporting required for each incident. • Spills greater than 205 litres will be considered as significant and reported immediately to the Environmental Manager or delegate and Emergency personnel will be called on to coordinate cleanup. • Response procedures for spills considered significant will be in accordance with the Emergency Response Plan of the responsible contractor.
Putrescible and Intractable Waste	<ul style="list-style-type: none"> • To minimise the impact of putrescible (food wastes) and intractable waste on the local and regional environment and prevent pollution of the air, land and water. • To ensure putrescible and intractable waste management practices comply with current legislature, industry standards and waste disposal guidelines. 	<p>Management</p> <ul style="list-style-type: none"> • Vehicles and worksites will have secure (lidded) rubbish containers for the containment of waste to prevent contamination of the site and the spread of wind blown litter. • Camp facilities will have secure (lidded) putrescible waste facilities to prevent access by fauna. • Littering will not be permitted. • Oily waste will be removed separately and placed in the specified area for removal offsite by the specified contractor. • Aluminium cans will be separated and sent offsite to contribute to community fundraising activities. • Where waste can not be reused or recycled it will be removed from site at regular intervals in sealed containers/bags and transported to the Morawa Shire disposal facility. • Housekeeping inspections of facilities will be undertaken by the Environmental Manager or delegate, including the identification of any fire hazards.
Bushfire Control	<ul style="list-style-type: none"> • To prevent bushfires resulting from activity within the Karara camp area. 	<p>Management</p> <ul style="list-style-type: none"> • Vehicles will carry fire fighting equipment complying with the relevant Australian standards and staff will be trained in the use of this equipment. • Fire fighting equipment will be located at campsite, appropriate nearby worksites, and at powered equipment such as generators and pumps. • Fire safety inspections will be periodically undertaken by the Environmental Manager or delegate using during environmental inspections. • An adequate firebreak will be constructed and maintained around the Karara camp. • Diesel powered vehicles will be used on site, unleaded fuel vehicles fitted with catalytic converters (which operate at high temperatures) will be avoided to reduce the chance of fire.
Asbestos Removal	<ul style="list-style-type: none"> • To minimise the impact of asbestos building materials currently in the Karara Homestead, on Midwest employees and other 	<p>Management</p> <ul style="list-style-type: none"> • The Homestead and shearing shed will be demolished by a government approved contractor. • The asbestos waste will be transported to an appropriate waste facility that will adequately deal with the asbestos. • Asbestos that is not suitable for removal will be buried and the site fenced off with access to the area restricted to personnel approved by the Environmental Manager. A licence to bury this material will be obtained prior to work commencement if this is required. Also DEC will be notified of this action if it is carried

Issue	Objective	Key Management Actions
	<p>people travelling through the area.</p> <ul style="list-style-type: none"> • Ensure asbestos materials are managed in such a way that does not compromise the health and well being of personnel at any stage. with minimal impact to the environment and the health and well being of personnel will not be comprised at any stage of the camp construction, use or decommissioning. 	<p>out, so they can add this to their contaminated sites register.</p> <ul style="list-style-type: none"> • Ambient air quality assessments will be conducted quarterly at the camp.
Rehabilitation	<ul style="list-style-type: none"> • To meet the tenement conditions with respect to the rehabilitation of camp sites. • To meet commitments to best practice environmental management. • To encourage the re-establishment of self-sustaining ecosystems compatible with surrounding undisturbed areas. 	<p>Rehabilitation</p> <ul style="list-style-type: none"> • Disturbed areas will be rehabilitated once the cleared areas are no longer utilised. • Where practicable, project areas will be progressively rehabilitated to ensure that the rate of rehabilitation is similar to the rate of clearing. • All camp related infrastructure, where no longer required for the following land use, will be removed. • Compacted surfaces will be ripped or scarified to a depth of approximately 300 mm should ground condition and hydrology allow. • Where practicable, natural drainage patterns will be reinstated. • Disturbed areas to be recovered with topsoil or rock to match adjacent undisturbed areas to a depth of approximately 100 mm. • Local provenance seed and plants may be utilised to boost flora density. • Management of noxious or environmental weeds in rehabilitated areas will be in accordance with EMP-04 Weed Management. • Midwest will monitor and manage rehabilitated areas until such time as criteria for relinquishment are met, in accordance with relevant government agencies. • Midwest will restore the surface profile and prepare the surface to a condition of roughness to resist erosion and accelerate natural revegetation by containing runoff, ensuring infiltration and seed trap. • Rehabilitation will be looked at and implemented based on advice provided DEC. <p>Decommissioning</p> <p>Should Midwest undertake no further related mining activities beyond the extent of the granted leases, the following management procedures will apply:</p> <ul style="list-style-type: none"> • Infrastructure, including camp and storage facilities, will be dismantled and removed from the lease. • Waste will be removed and disposed of in appropriate licensed facilities – there will be no burial of waste on-site. • Rehabilitation of impacted areas will be undertaken in accordance with Rehabilitation procedures detailed above. <p>Completion Criteria</p> <ul style="list-style-type: none"> • There should be no access tracks apparent which are left to be used by others and develop into permanent features. • There should be no actual or potential erosion sites. • There should be no permanent markers, spoil or litter. • There should be no open holes sumps or unstable landforms. • All disturbed areas should be re-contoured to pre disturbance conditions and prepared for natural plant regeneration when weather permits. Re- contouring should be such that natural water flow is retained or re-established, or that it encourages micro topographical water harvesting. • There should be no disturbances likely to remain visible from the air where these could be removed by immediate remedial action (camp infrastructure). • Weeds and exotic plant and animal species should neither be introduced nor spread. Treatment must be undertaken, as required, in consultation with DEC.

9.0 REFERENCES

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10.0 Appendix 1: Environmental Policy

Midwest Corporation Ltd Pty. shares the community's desire to both develop resources and protect and preserve the environment

All Midwest activities will meet statutory requirements as a minimum standard and be planned and performed so that adverse effects on the environment are either avoided or appropriately managed.

In fulfilling this policy, Midwest will:

- Establish a set of policies, objectives and commitments for all activities;
- Identify its legal environmental responsibilities and comply with all applicable laws and regulations;
- Develop and apply responsible management where laws and regulations do not exist;
- Assess potential environmental impacts before conducting new activities;
- Institute a management system that, amongst other aspects, identifies environmental responsibilities for all its employees and contractors;
- Design and implement a system of work procedures and training programs that will encourage concern and respect for the environment prevent and/or reduce pollution and allow its employees and contractors to know exactly how they are to achieve their environmental objectives and discharge their environmental responsibilities.
- Implement monitoring and auditing systems that will ensure the company's environmental commitments and objectives are being achieved; and
- Develop and foster a corporate culture that encourages continuous improvement in environmental performance.

Sijun ("Tony") Cheng
Managing Director
June 2006

11.0 Appendix 2: Mobilization Hygiene Certificate

