



Environmental Aspects and Impacts Register

Likelihood	Consequences
Almost certain => 5	Catastrophic => 5
Likely => 4	Major => 4
Possible => 3	Moderate => 3
Unlikely => 2	Minor => 2
Rare => 1	Limited => 1

Conseq	Likelihood				
	1	2	3	4	5
5	6	7	8	9	10
4	5	6	7	8	9
3	4	5	6	7	8
2	3	4	5	6	7
1	2	3	4	5	6

Location: Tarcoola to Darwin Railway Corridor
 Assessor/ Auditor: HF / HF
 Date: August-2023

Background: This Register relates to the Environmental Management Plan for the Tarcoola to Darwin Railway Corridor (BC-ENV-001)

Scope of the Register : This environmental Aspects and Impacts Register (Risk Register) aims to formally identify all the activities of which ABC conduct within the railway corridor between the locations of Tarcoola and Darwin. As a result of these activities, ABC has attempted to identify all the relating environmental aspect and impact as a result of these activities. This also includes control measures ABC have adopted to assist with the adequate management of these activities.

Exclusions: Exclusions to this Aspects and Impacts Register (Risk Register), include those activities that are not conducted within the geographical scope of the Tarcoola-to-Darwin railway corridor. Rollstock Maintenance activities are also excluded from this register, as they have been covered in other specific ABC Aspects and Impacts for Sites.

Notes: 1. Ammended from OneRail prepared document in 2023 to meet AZJ Requirements, 22 Aug 2023

#	Activity	Aspect (cause of impacts)	Potential Impact(s) (soil/ water/ air/ noise/ habitat/community/ resources)	Original			Control Measures (to mitigate impacts)	Revised			Additional Actions/Controls Required	
				Likli	Conseq	Signif.		Likli	Conseq	Signif.		
1	Operation of rollingstock, including transport of freight	> Potential for spill of oil, fuel, chemicals, product from the rollingstock, or the freight being transported by the rollingstock	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna negatively > Potential for legal non compliance > Potential for community complaint(s)	5	2	7	> Oil and fuel systems on the locomotive are maintained and inspected regularly > ABC incident reporting procedure and notification guidelines > Volume of oil and fuel is limited by how much is being transported at the time (in-line fuelling) > Electronic monitoring systems on the rollingstock including alarms if fuel / oil is being lost, pressure drop of systems > Workers / operators have completed Dangerous Goods Training > Workers / Operators have completed Spill Management Training > Workers / operators are experienced, trained and competent > Freight is containerised and packaged in most cases > Dangerous goods paperwork, placards and relating SDSs	3	2	5	Y	Not Required
2	Operation of rollingstock (all areas)	> Locomotives standing or stabled in yard leaking oil, fuel, hydrocarbons, coolant, onto track and/or track corridor	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential for legal non compliance > Potential for community complaint(s)	5	2	7	> Oil and fuel systems on the locomotive are maintained and inspected regularly > ABC incident reporting procedure and notification guidelines > Locos to be stabled in same location within yards and fuel matting placed if there is potential to leak to unsealed areas. > Electronic monitoring systems on the rollingstock including alarms if fuel / oil is being lost	3	2	5	Y	Not Required
		> Potential for excessive dust be generated as a result of the operation of the rollingstock	> Potential for environmental nucience > Potential for legal non-compliance > Potential for community complaint(s)	4	3	7	> All rollingstock is regularly inspected and maintained and records are kept of these processes > All containers used for carrying dust producing products are in enclosed containers or they are loaded to a level that is not above the top of the wagon.	2	2	4	Y	Not Required
		> Potential for excessive noise to be generated	> Potential for environmental nucience > Potential for legal non-compliance > Potential for community complaint(s)	4	3	7	> All rollingstock is regularly inspected and maintained and records are kept of these processes > Rollingstock design incorporates reduction of the impact of noise as a result of operation > Maintenance is completed by an accredited rollingstock maintainer > ABC incident reporting procedure and notification guidelines > Operators / workers are trained, competent and experienced > Electronic monitoring systems on the rollingstock including alarms > Backup / substitute rollingstock is available > Rollingstock rollbys (visual inspections) are conducted on departure from each terminal > Rollingstock is shutdown when not required to be operated	2	2	4	Y	Not Required



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		> Energy consumption by the locomotive(s)	> Potential to use excessive energy for the operation to be undertaken > Potential to trigger legal reporting requirements > Potential for legal non-compliance > Potential for community complaint(s)	4	3	7	> All rollingstock is regularly inspected and maintained and records are kept of these processes > Rollingstock design incorporates energy efficiency > Maintenance is completed by an accredited rollingstock maintainer > ABC incident reporting procedure and notification guidelines > Operators / workers are trained, competent and experienced > Electronic monitoring systems on the rollingstock including alarms > Backup / substitute rollingstock is available > Rollingstock rollbys (visual inspections) are conducted on departure from each terminal > Rollingstock is shutdown when not required to be operated	2	2	4	Y	Not Required
		> Potential for locomotive exhaust emissions to be vented to the atmosphere > Potential for emissions level to exceed the defined limits	> Potential for environmental nuisance > Potential to trigger legal reporting requirements > Potential for legal non-compliance > Potential for community complaint(s)	1	3	4	> All rollingstock is regularly inspected and maintained and records are kept of these processes > Rollingstock design incorporates reduction of the impact of emissions as a result of operation > Maintenance is completed by an accredited rollingstock maintainer > ABC incident reporting procedure and notification guidelines > Operators / workers are trained, competent and experienced > Electronic monitoring systems on the rollingstock including alarms > Backup / substitute rollingstock is available > Rollingstock rollbys (visual inspections) are conducted on departure from each terminal > Locomotives are shutdown when not required to be operated	2	2	4	Y	Not Required
		> Potential for the generation of waste > Potential for littering > Potential for generation of prescribed / listed waste	> Potential for land and soil contamination > Potential for stormwater contamination > Potential to dispose of waste incorrectly > Potential to trigger legal non-compliance for waste disposal > Potential to impact natural flora or fauna, and ground water systems negatively > Potential for legal non compliance > Potential for community complaint(s)	4	4	8	> Waste generated is disposed of correctly, using a third party for prescribed wastes > Vacuum truck is used to remove liquid waste > Waste tracking certificates are obtained > Third party waste removalists are approved > Segregation and recycling of waste products is available > Small volumes of waste is generated	2	2	4	Y	Not Required
		> Potential for excessive black smoke or excessive smoke to be generated	> Potential for environmental nuisance > Potential for air contamination > Potential for legal non-compliance > Potential for community complaint(s)	4	4	8	> All rollingstock is regularly inspected and maintained and records are kept for this > Rollingstock which is operation on this section of track is new fleet > Maintenance is completed by an accredited rollingstock maintainer > ABC incident reporting procedure and notification guidelines > Operators / workers are trained, competent and experienced > Electronic monitoring systems on the rollingstock including alarms > Backup / substitute rollingstock is available > Rollingstock rollbys (visual inspections) are conducted on departure from each terminal	2	2	4	Y	Not Required

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3	Transport of Dangerous Goods	> Potential for spill, explosion, fire or emergency situation when ignition source interacts with dangerous goods	> Potential for serious injury and property damage > Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> Oil and fuel transport systems are maintained and inspected regularly > ABC incident reporting procedure and notification guidelines > Workers / operators have completed Dangerous Goods Training > Workers / operators are experienced, trained and competent > Freight is containerised and packaged in most cases > Freight is segregated where required and this is considered when loading freight > Dangerous goods paperwork, placards and relating SDSs are available and inspected > Dangerous Goods handbooks are available > Emergency response procedure and training provided > Waste tranport licences are maintained for transport of haardous waste liquids.	2	2	4	Y	Not Required
4	Locomotive re-fuelling (Berrimah) by ABC or third party provider	> Potential for spill of fuel from the rollingstock, or the freight being transported by the rollingstock > Potential for a spill from the fuel provider / tanker / fuel source	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available	2	2	4	Y	Not Required
5	Locomotive re-fuelling (Manguri) by ABC or third party provider	> Potential for spill of fuel from the rollingstock, or the freight being transported by the rollingstock > Potential for a spill from the fuel provider / tanker / fuel source	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available	2	2	4	Y	Not Required
6	Locomotive re-fuelling (any where on this section of track) by ABC or third party provider	> Potential for spill of fuel from the rollingstock, or the freight being transported by the rollingstock > Potential for a spill from the fuel provider / tanker / fuel source	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available	2	2	4	Y	Not Required



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		> Potential for bunding to be unavailable or inadequate	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available	2	2	4	Y	Not Required
7	Transferring fuel from tanker to rollingstock	> Potential to overfill the rollingstock resulting in uncontrolled release to environment	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available	2	2	4	Y	Not Required
8	Transferring fuel from tanker to a storage location (above ground or underground)	> Potential to overfill the tank resulting in uncontrolled release to the environment	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available > Site audits and inspections are conducted regularly > Protocols and specifications for tank storage, bunding and fuel infrastructure requirements > Contractor Management programs > ABC Incident reporting programs	2	2	4	Y	Not Required
9	Operation of fuel pipework system and pump system, including level control and nozzle	> Malfunction of the fuel pipework, and or storage tank > Damaged pipework > Damaged storage tank > Malfunction of the nozzle	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for fire, explosion or emergency situation	4	4	8	> Site audits and inspections are conducts regularly > Protocols and specifications for tank storage, bunding and fuel infrastructure requirements > Contractor Management programs > ABC Incident reporting programs > Fuel process includes automatic shutoff valve > ABC / third party operator is to be positioned at re-fuelling point at all times > Bunding at the fuelling point > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available > Workers stay at the fuel loading point when process is being undertaken	2	2	4	Y	Not Required



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10	Storage of Dangerous Goods including freight (Berrimah)	> Potential for uncontrolled spill from the stored dangerous goods > Potential for storage to be inadequate for the dangerous goods > Potential for quantity and class of stored dangerous goods be trigger licencing requirements > Potential for emergency response procedures to be inadequate for the class and quantity of dangerous goods being stored > Potential for fire/explosion/ emergency incident	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> Adequate bunding for the storage of dangerous goods > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available > Operators have received training for dangerous goods storage and transportation > SDS are available for the dangerous goods stored > Regular visual inspections of the storage and bunding (workplace inspections and audits) > Conditions in EPA licences (SA/NT) > Dangerous good licence > ABC incident reporting programs and risk controls measures including communication protocols and regulatory reporting	2	2	4	Y	Not Required
11	Storage of Dangerous Goods including freight (Manguri, Katherine and Tennant Creek)	> Potential for uncontrolled spill from the stored dangerous goods > Potential for storage to be inadequate for the dangerous goods > Potential for quantity and class of stored dangerous goods to trigger licencing requirements > Potential for emergency response procedures to be inadequate for the class and quantity of dangerous goods being stored > Potential for fire/explosion/ emergency situation	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> Adequate bunding for the storage of dangerous goods > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available > Operators have received training for dangerous goods storage and transportation > SDS are available for the dangerous goods stored > Regular visual inspections of the storage and bunding (workplace inspections and audits) > Conditions in EPA licences (SA/NT) > Dangerous good licence > ABC incident reporting programs and risk controls measures including communication protocols and regulatory reporting	2	2	4	Y	Not Required
12	Storage of Dangerous Goods including freight (any other location)	> Potential for security incident, whereby fuel / oils / dangerous goods are accessed by unauthorised person > Potential for dangerous goods storage to be tampered with	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> Adequate bunding for the storage of dangerous goods > Trained, experienced and competent operators > Spill response materials are available and maintained > Emergency response procedures are available > Operators have received training for dangerous goods storage and transportation > SDS are available for the dangerous goods stored > Regular visual inspections of the storage and bunding (workplace inspections and audits) > Conditions in EPA licences (SA/NT) > Dangerous good licence > ABC incident reporting programs and risk controls measures including communication protocols and regulatory reporting	2	2	4	Y	Not Required



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13	Emergency situation	> Fire, explosion, uncontrolled hydrocarbon release	> Potential for serious injury, illness or property damage > Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> ABC induction training > Facilities at ABC depots can aid in emergency response e.g. extinguishers, alarms etc. > ABC Emergency response procedures > Drivers trained in emergency response and how to use a fire extinguisher > Alarms within the cab of the rollingstock > Visual inspection of rollingstock > Emergency evacuation procedures > Train control > Desktop emergency drills with key stakeholders	2	2	4	Y	Not Required
14	Rollingstock derailment	> Rollingstock derailment causes damage to rollingstock and/or freight being transported by rollingstock resulting in fuel, oil, dangerous goods, coolant and general product release to the environment	> Potential for serious injury, illness or property damage > Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance	4	4	8	> ABC Emergency response procedures > Drivers trained in emergency response and how to use a fire extinguisher > ABC induction training > Facilities at ABC depots can aid in emergency response e.g. extinguishers, alarms etc. > Alarms within the cab of the rollingstock > Visual inspection of rollingstock > Emergency evacuation procedures > Train control	1	4	5	Y	Potential for derailment remains SFAIRP, although considered rare (least allowable probability).
		> Track infrastructure damage including the surrounding rail infrastructure corridor	> Potential for adverse impact to nearby native vegetation > Potential to impact a significant site > Potential to impact a heritage site > Potential for legal non compliance	4	4	8	> ABC Integrated Management System including work instructions for the management of flora, fauna, heritage and significant sites > Trained, experienced, competent workers > Contractor management program > GIS review before entering site > Derailment procedures > Incident reporting and investigation procedures	1	4	5	Y	Potential for derailment remains SFAIRP, although considered rare (least allowable probability).
15	Operation of rollingstock	> Potential for an emergency situation including but not limited to: Fire Explosion Chemical spill Flammable liquid spill Product release	> Potential for serious injury, illness or property damage > Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely Potential for legal non compliance	4	4	8	> ABC Emergency response procedures > Drivers trained in emergency response and how to use a fire extinguisher > ABC induction training > Facilities at ABC depots can aid in emergency response e.g. extinguishers, alarms etc. > Alarms within the cab of the rollingstock > Visual inspection of rollingstock > Emergency evacuation procedures > Train control	3	2	5	Y	Not Required
16	Maintenance of rollingstock	> Potential for asbestos exposure while conducting maintenance activities	> Potential for serious injury or illness > Potential for legal non-compliance	4	4	8	> Rollingstock fleet is a new fleet that operates on this corridor, therefore potential for exposure has been eliminated / reduced > ABC conduct asbestos awareness training with all maintainers > ABC incident reporting and investigation procedures > ABC Emergency procedures > If asbestos is found, third party is engaged to manage this process	2	2	4	Y	Not Required



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17	Conducting business operations in the Northern Territory	> Conduct business operations without the knowledge of all the NT legislative requirements, including but not limited to permits, licences, communication protocols, engaging with the EPA and other applicable government agencies > Not continuing to keep up to date information of changing state legislative requirements	> Potential for legal non-compliance > Potential for community complaints	4	4	8	> ABC Integrated Management System including legal register > Experienced, trained and competent WHSE Managers > Communication protocols for obtaining information > Regular contact with government agencies > External third party auditing > Subscriptions to government programs > Member of Industry programs	2	2	4	Y	Not Required
18	Conducting business operations in South Australia	> Conduct business operations without the knowledge of all the SA legislative requirements, including but not limited to permits, licences, communication protocols, engaging with the EPA and other applicable government agencies > Not continuing to keep up to date information of changing state legislative requirements	> Potential for legal non-compliance > Potential for community complaints	4	4	8	> ABC Integrated Management System including legal register > Experienced, trained and competent WHSE Managers > Communication protocols for obtaining information > Regular contact with government agencies > External third party auditing > Subscriptions to government programs > Member of Industry programs	2	2	4	Y	Not Required
19	Storage of chemicals at a ABC facility	> Uncontrolled chemical release > Chemicals could be stored inadequately > Potential for emergency response procedure to be inadequate	> Potential for emergency situation > Potential for legal non-compliance > Potential for a community complaint	4	4	8	> ABC Emergency response procedures > Drivers trained in emergency response and how to use a fire extinguisher > ABC induction training > Facilities at ABC depots can aid in emergency response e.g. extinguishers, alarms etc. > Alarms within the cab of the rollingstock > Visual inspection of rollingstock > Emergency evacuation procedures > Train control	2	2	4	Y	Not Required
20	Operation of Crew Car(s)	> Potential for sewerage from crew cars to be released to the environment during rollingstock operation	> Potential for land and soil contamination > Potential for stormwater contamination > Potential for groundwater contamination > Potential to impact natural flora or fauna adversely > Potential for legal non compliance > Potential for communicate complaints	4	4	8	> ABC rollingstock have automatic alarms and electronic control system > Waste cannot be discharged during operation > Valves and pipework are engineered, maintained and inspected > ABC incident reporting > Availability of other crew cars	2	2	4	Y	Not Required
21	Maintenance of Crew Car(s)	> Sewerage disposal	> Potential for soil contamination > Potential for stormwater contamination > Potential for legal non compliance > Potential for community complaints	4	4	8	> Third party provider is engaged to dispose of waste adequately > ABC Contractor management procedures > Sealed, banded and adequate storage and containment > Approved waste management provider utilised	2	2	4	Y	Not Required
Track and Rail Infrastructure Related Aspects and Impacts												



Likelihood	Consequences
Almost certain => 5	Catastrophic => 5
Likely => 4	Major => 4
Possible => 3	Moderate => 3
Unlikely => 2	Minor => 2
Rare => 1	Limited => 1

Conseq	Likelihood					Location:	Assessor/ Auditor:	Date:
	1	2	3	4	5			
5	6	7	8	9	10	Tarcoola to Darwin Railway Corridor	HF / HF	August-2023
4	5	6	7	8	9			
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Notes: 1. Ammended from OneRail prepared document in 2023 to meet AZJ Requirements, 22 Aug 2023

#	Activity	Aspect (cause of impacts)	Potential Impact(s) (soil/ water/ air/ noise/ habitat/community/ resources)	Original			Control Measures (to mitigate impacts)	Revised			Additional Actions/Controls Required	
				Likli	Conseq	Signif.		Likli	Conseq	Signif.		
22	Maintenance of rail corridor and rail infrastructure	> Cut back and removal of native vegetation within the rail corridor	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> ABC Contractor Management procedures > GIS system to review and confirm significant sites register before undertaking work > Procedures for track maintenance > Tasks are supervised > Workers are trained, experienced and competent > ABC Integrated Management Systems > Selection of area where chemicals can and cannot be used > Risk assessments and inspections of corridor > Review of area against significant site register and heritage site register before work commences	2	2	4	Y	Not Required
		> Maintenance activities using heavy machinery, road vehicles accessing the area, other machinery and heavy vehicles accessing the area and moving in and around the area	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > SDSs for all chemicals used including Hazardous Substance risk assessments > Procedures and Risk assessments for tasks to be undertaken > Review of area against significant site register and heritage site register before work commences	2	2	4	Y	Not Required
		> Maintenance activities using heavy machinery, road vehicles accessing the area, other machinery and heavy vehicles accessing the area and moving in and around the area	> Potential for area to be left disturbed after work has been completed > Potential for area to be left in an unacceptable condition after work is completed > Potential for legal non-compliance	4	4	8	> Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > SDSs for all chemicals used including Hazardous Substance risk assessments > Procedures and Risk assessments for tasks to be undertaken > Review of area against significant site register and heritage site register before work commences	2	2	4	Y	Not Required
		> Use of herbicides and pesticides	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways Potential for legal non-compliance	4	4	8	> ABC Integrated Management System > SDSs for all chemicals used including Hazardous Substance risk assessments > Chemical Handling training > Selection of products for use > Review and selection of the area where chemicals can and cannot be used before work commences > Chemicals with less harmful properties selected where able > Risk assessments and inspections of corridor > Safety Observations conducted > Review of area against significant site register and heritage site register before work commences	2	2	4	Y	Not Required

Likelihood	Consequences
Almost certain => 5	Catastrophic => 5
Likely => 4	Major => 4
Possible => 3	Moderate => 3
Unlikely => 2	Minor => 2
Rare => 1	Limited => 1

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				Likli	Conseq	Signif.		Likli	Conseq	Signif.		
		> Activity causes stormwater contamination	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> Review of area against significant site register and heritage site register before work commences > Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Track Inspection and Maintenance procedures and work instructions > Supervised work	2	2	4	Y	Not Required
		> Disturbance of the natural habitat of animal species and vegetation species	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> ABC Contractor Management procedures > GIS system to review and confirm significant sites register before undertaking work > Procedures for track maintenance > Tasks are supervised > Workers are trained, experienced and competent > ABC Integrated Management Systems > Selection of area where chemicals can and cannot be used > Risk assessments and inspections of corridor > Review of area against significant site register and heritage site register before work commences	2	2	4	Y	Not Required
		> Noxious weed removal, including chemical usage and access to the corridor	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> Conducted by third party provider / expertise > Weed surveys conducted > ABC Contractor Management > Contractor is experienced, trained and competent > Significant sites register is reviewed before work commences > Annual maintenance and rail infrastructure plan > Environmental Management Plan and relating procedures	2	2	4	Y	Not Required
		> Clearing of fire breaks using machinery	> Potential for damage to natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways	4	4	8	> Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Review of area against significant site register and heritage site register before work commences > Track Inspection and Maintenance procedures and work instructions > Supervised work	2	2	4	Y	Not Required
		> Maintenance activities using heavy machinery, road vehicles accessing the area, other machinery and heavy vehicles accessing the area and moving in and around the area	> Potential for damage to natural habitat > Potential to impact a heritage site > Potential to impact local flora and fauna > Potential to impact local water ways	4	4	8	> Review of area against significant site register and heritage site register before work commences > Track Inspection and Maintenance procedures and work instructions > Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Supervised work	2	2	4	Y	Not Required



Likelihood	Consequences
Almost certain => 5	Catastrophic => 5
Likely => 4	Major => 4
Possible => 3	Moderate => 3
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				Likli	Conseq	Signif.		Likli	Conseq	Signif.	
	> Accessing rail infrastructure using heavy machinery, road vehicles and trucks	> Damage to rare or endangered flora and fauna species > Damage to native vegetation > Potential for oil or fuel spill	4	4	8	> Trained, experienced and competent workgroup including contractors > ABC Integrated Management Systems > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Review of area against significant site register and heritage site register before work commences > Track Inspection and Maintenance procedures and work instructions > Supervised work	2	2	4	Y	Not Required
	> Potential for accidental removal of vegetation outside the rail corridor or not where work is required	> Damage to rare or endangered flora and fauna species > Damage to native vegetation > Potential to impact significant site	4	4	8	> ABC review significant sites, via register and the Aboriginal Significant sites register > ABC utilise GIS to accurately track where significant sites are located, and mark these as no go zones > Workers conduct Environmental Awareness Training > Workers conduct an Induction which includes a review of the EMP and relating procedures to the work they conduct	2	2	4	Y	Not Required
	> Third party conducting rail corridor maintenance activities on behalf of ABC	> Potential for removal of endangered vegetation > Potential for work to be conducted outside the rail corridor > Potential for third party operator to be unaware of the requirements with respect to the tasks they are conducting, resulting in legal non compliance or non compliance to ABC protocols	4	4	8	> ABC contractor Management Program > Visual inspection of work completed > Track Inspections > Incident Reporting > Use of reputable Track Infrastructure companies and contractors > Trained, experienced and competent workers and contractors > ABC Integrated Management System > Adequate tools and machinery	3	2	5	Y	Not Required
	> Rehabilitation activities including vegetation restoration	> Potential for area to be harmed during conservation activities > Potential for activities to not be conducted when required	4	4	8	> Track inspections are conducted using a road vehicle and access is only conducted when required > Selection of vehicles to attend the corridor > Frequency of restoration activities > Limit access flora and fauna where able > Significant sites register > GIS system to review and confirm significant sites register before undertaking work > ABC Integrated Management system > ABC Environmental Management Plan > Trained and experienced Track inspection crews	2	2	4	Y	Not Required
	> Conducting Track Inspections in road vehicles, resulting in disturbance of habitat	> Damage to flora and fauna > Damage to natural habitat > Damage to soil banks, beds and waterways	4	4	8	> Track inspections are conducted using a road vehicle and access is only conducted when required > Selection of vehicles to attend the corridor > Frequency of attendance > Significant sites register > GIS system to review and confirm significant sites register before undertaking work > ABC Integrated Management systems > ABC Environmental Management Plan > Trained and experienced Track inspection crews	2	2	4	Y	Not Required



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				Likli	Conseq	Signif.		Likli	Conseq	Signif.		
		> Flora and fauna conservation activities	> Potential for removal of endangered vegetation > Potential for work to be conducted outside the rail corridor > Potential for third party operator to be unaware of the requirements with respect to the tasks they are conducting, resulting in legal non compliance or non compliance to ABC protocols	4	4	8	> Significant sites register > GIS system to review and confirm significant sites register before undertaking work > ABC Integrated Management systems > ABC Environmental Management Plan > Track inspections are conducted using a road vehicle and access is only conducted when required > Trained and experienced Track inspection crews	2	2	4	Y	Not Required
		> Spread of soil born diseases due to movement of soil, carrying soil on machinery, tyres of vehicles to other areas	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact a significant site > Potential for erosion > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> Wash-down of equipment when required > Track maintenance procedures > ABC Integrated Management Systems > Trained, experienced and competent workers > Wash-down of soiled plant and machinery > Supervised activities	2	2	4	Y	Not Required
23	Attending to derailment site / location with heavy machinery, crane, road vehicles	> Driving on flora and fauna > Movement of soil and digging into ground by tyres > Air emissions from motor vehicles > Braking trees and branches to access area > Air emissions from vehicles	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact a significant site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	4	8	> ABC Emergency Response Procedures > Review of area against significant site register and heritage site register before work commences > Track Inspection and Maintenance procedures and work instructions > Trained, experienced and competent workgroup including contractors > ABC Integrated Management System > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Supervised work	4	3	7	Y	Derailment may occur at a location which is located, near / next to an area of significance. The risk however, has been reduced SFAIRP
24	Attending to derailment site / location with heavy machinery, crane, road vehicles and conducting recovery activities of rollingstock	> Disturbing natural flora, fauna > Digging and movement of soil, soil erosion > Cutting of trees, preparation of ground bed area using machinery > Disturbing the area during crane set up	> Potential to disturb natural habitat > Potential to impact a heritage site > Potential to impact a significant site > Potential to impact local flora and fauna > Potential to impact local water ways > Potential for legal non-compliance	4	5	9	> Review of area against significant site register and heritage site register before work commences > ABC Emergency Response Procedures > Track Inspection and Maintenance procedures and work instructions > Trained, experienced and competent workgroup including contractors > ABC Integrated Management System > ABC Contractor Management System > Procedures and Risk assessments for tasks to be undertaken > Supervised work	4	3	7	Y	Due to the significance of this corridor it is paramount that business operations commence as soon as possible after a derailment, therefore recovery activities treat this as the priority. Risk has been reduced SFAIRP



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				Likli	Conseq	Signif.		Likli	Conseq	Signif.		
25	Waste transport	> Inappropriate handling and management of waste during transport.	> Loss of containment and inappropriate end management of wastes.	3	4	7	> All waste transport to be undertaken in accordance with - Waste Tracking Guidelines - Tarcoola to Darwin Network (BC-ENV012)	2	3	5	Y	Due to the significance of this corridor it is paramount that business operations commence as soon as possible after a derailment, therefore recovery activities treat this as the priority. Risk has been reduced SFAIRP