

Activity	Environmental Aspects	Environmental Impact/s	L	C	RB	Control Measures	L	C	RA
Excavation	Heritage & Archaeology	Accidental excavation of heritage items, damage to protected environment	3	4	H 19	<b><i>Mous-WI-12 Heritage &amp; Archaeology</i></b> Consult with State EPA prior to start of works Insure all staff and Contractors are aware of the work instructions Site risk assessment prior to commencement of works Regular site inspections Obtain EPA Permit where necessary SWMS training and awareness Excavations to be kept to a minimum	1	4	L 8
Storage of Oils & Fuels, Acids	Faulty Storage facility, leaching into soil	Refuelling Spills causing ground water contamination, Soil Contamination	3	4	H 19	<b><i>Mous-WI-06 Waste Management Plan</i></b> <b><i>Mous-WI-04 Storage of Fuels and Chemicals</i></b> <b><i>Mous-WI-20 Fuel Spill Control and Clean-up</i></b> Insure all staff and Contractors are aware of the work instructions Regular Site Inspections Environmental Protection Measures implemented and monitored Spill kits on site / in vehicle/machine Personnel trained in spill prevention and containment Spills cleaned up in accordance with SDS Waste disposed of at appropriate waste transfer station	1	4	L 8
Extraction and transportation of Sewerage waste	Sewerage Spills	Soil Contamination	3	4	H 19	<b><i>Mous-WI-63 Vacuum Extraction of Waste</i></b> EPA Licence for disposal Adequate Spill kits available on vehicle All workers / operators aware of work instructions Personnel trained in spill preventions and containment SWMS training and awareness Waste disposed of at appropriate waste transfer station	1	4	L 8
Repairs, servicing to plant and equipment	Hazardous Spills	Soil Contamination	3	4	H 19	<b><i>Mous-WI-06 Waste Management Plan</i></b> <b><i>Mous-WI-04 Storage of Fuels and Chemicals</i></b> <b><i>Mous-WI-20 Fuel Spill Control and Clean-up</i></b> Regular Site Inspections Environmental Protection Measures implemented and monitored Spill kits on site / in vehicle/machine Personnel trained in spill prevention and containment Spills cleaned up in accordance with SDS Waste disposed of at appropriate waste transfer station	1	4	L 8

Activity	Environmental Aspects	Environmental Impact/s	L	C	RB	Control Measures	L	C	RA
Land clearing, grubbing, excavation Earthworks and Ground compaction	Noise Vibration Emissions to Air	Heavy machinery use during construction causing noise to residents and local fauna  Vibration may impact on ground compaction. Loss of native habitat  Fumes from plant operations  Dusty Site Conditions	3	3	M 13	<b><i>Mous-WI-10 Community Relations</i></b> <b><i>Mous-WI-11 Flora &amp; Fauna</i></b> <b><i>Mous-WI-19 Vibration Control</i></b> Insure all staff and Contractors are aware of the work instructions Experienced Operators Regular Site Inspections Site assessment prior to commencement of works Environmental Protection Measures implemented Plant should not be left idling when not in use Turn off ignition when plant not in use Operating hours to be kept with in City Council Guidelines Use of water truck to keep dust to a minimum	1	3	L 7
Mechanical and Hydro Excavation, demolition near asbestos	Asbestos contamination	Release of materials to air by water or demolition Worker exposure (airborne fibres)	3	5	H	<b><i>Mous-WI-5.11 Asbestos Removal (Non Friable)</i></b> Insure all staff and Contractors are aware of the work instructions Notification to NT Worksafe for removal of Asbestos greater than 10m2 Obtain Approval for the removal from NT Worksafe Environmental Protection Measures implemented Asbestos control plan followed Asbestos removal procedure in place and followed Trained, licenced workers to complete the removal process Trained, licenced asbestos supervisor on site Licenced Asbestos Assessor to conduct air monitoring, provide clearance inspection and issue clearance certificates for non friable asbestos removal greater than 10m2 PPE as prescribed in the COP for Safe Removal of Asbestos (NT Worksafe) Disposal of asbestos as per Asbestos waste containment and disposal procedure (NT Worksafe) SWMS Training	2	5	M
Earthworks Construction Culverts Trenching Stockpiles	Soil Erosion & Sedimentation	Excessive wet weather causing sediment flow from stockpiles onto roads and into trenches causing slippery surfaces and damage to trenches	4	3	H	<b><i>Mous-WI-07 Soil Erosion and Sediment Control</i></b> Insure all staff and Contractors are aware of the work instructions Regular Site Inspections Environmental Protection Measures Implemented and monitored	3	3	M
Construction	Concrete Spill	Ground Water contamination	3	3	M	<b><i>Mous-WI-15 Concrete Clean Up</i></b> Insure all staff and Contractors are aware of the work instructions Site Inductions	1	3	L

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						SWMS Training Regular Site Inspections Waste management plan			
Site Construction works	Waste Management	Strong winds - Waste blowing onto residential & public areas	3	3	M	<b><i>Mous-WI-06 Waste Management Plan</i></b> <b><i>Mous-WI-08 Waste Minimisation</i></b> Insure all staff and Contractors are aware of the work instructions Site Waste management plan implemented Regular Site Inspections Lids on bins Regular waste removal from site Environmental Protection Measures implemented and monitored	1	3	L
	Weed Management	Weeds & seeds carried onto or off sight from vehicles and machines.  Introduction of weeds that may cause habitat problems.	2	3	M	<b><i>Mous-WI-11 Flora &amp; Fauna</i></b> Ensure all staff and Contractors are aware of the work instructions Regular Site Inspections Environmental Protection Measures implemented and monitored	1	3	L

					Likelihood				
Consequences					5: Almost Certain <i>Could occur in most circumstances</i>	4: Likely <i>May probably occur in most circumstances</i>	3: Possible <i>May occur at some time.</i>	2: Unlikely <i>Could occur at some time.</i>	1: Rare <i>May occur only in exceptional circumstances</i>
Quality	Health/ Safety	Environmental	NO						
Greater than \$5M in damage or cost	Fatality / Serious permanent disability	Disastrous Impact Long term impact, Major remediation	5	Catastrophic	<b>EXTREME</b> 25	<b>EXTREME</b> 24	<b>HIGH</b> 21	<b>HIGH</b> 20	<b>MEDIUM</b> 15
\$1M - \$5M in damage or cost	Minor permanent disability more than 5 days lost	Serious Impact, medium time frame effect, significant remediation	4	Major	<b>EXTREME</b> 23	<b>EXTREME</b> 22	<b>HIGH</b> 19	<b>MEDIUM</b> 14	<b>LOW</b> 8
\$100K - \$1M in damage or cost	Less than 5 days lost, Major system breach, reportable incident	Moderate impact, short term effect, moderate remediation	3	Moderate	<b>HIGH</b> 18	<b>HIGH</b> 17	<b>MEDIUM</b> 13	<b>MEDIUM</b> 12	<b>LOW</b> 7
\$10K - \$100K in damage or cost	Medical Treatment injury/ Restricted work duties	Minor Impact, reversible impact, minor remediation	2	Minor	<b>HIGH</b> 16	<b>MEDIUM</b> 11	<b>MEDIUM</b> 10	<b>LOW</b> 6	<b>LOW</b> 5
Less than \$10K in damage or cost	Minor Incident / First Aid	Negligible reversible impact, minor remediation	1	Insignificant	<b>MEDIUM</b> 9	<b>LOW</b> 4	<b>LOW</b> 3	<b>LOW</b> 2	<b>LOW</b> 1

<b>EXTREME</b>	<b>22 - 25) The activity <i>MUST NOT</i> proceed. Stop Work Immediately seek Senior Management Assistance</b>	<b>HIGH</b>	<b>(16-21) The activity <i>CANNOT</i> proceed until additional supervision or use of permit systems has been actioned as required. The controls are to be reviewed by senior management prior to proceeding</b>	<b>MED</b>	<b>(9-15) The activity can proceed as under the applied control measures, and applicable supervision</b>	<b>LOW</b>	<b>(1-8) The activity may proceed with applied control measures.</b>
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