

		This Projec	ct Risk Assess	ment (PRA) mus	st be implement	ed prior to the sta	rt of the pro	ject works			
Client	Mousellis and Sons					Project Title	Wast	Waste Collection Works			
						Project Location	on Vario	s Locations NT			
Date Developed		May 2022			PRA Number	01	Versio	n No V3			
Project Scope of W	orks:	Sewage SILead, LeadContaminaAsbestos I	ap Waste – C udge and res d Compound ated Soils – C	Collection, Transidues includings – Collection, Collection, Transollection, Transollection, Transollection, Transo	g nightsoil and Transportation rsportation, Sto	orage		ion and Transportation sions including; Oil and Water or Hydrocarb			
Plant & Equipment (NOTE: PPE for spe	-				EPA identified approved; Loaders, Backhoes, Hydrovac Trucks, Excavators, End Tip Trucks						
Version Updates		Nil									
Reviews		Continuall	y Review thro	ugh the Daily Pr	estart Meeting 8	k Formal Annual Re	eview				
Project Risk Assess	ment Dev	eloped By			Nigel Foster, John Mousellis, Bill Mousellis						
Persons Responsib	le for revie	ewing:			Nigel Foster, John Mousellis, Bill Mousellis						
Permits, Approvals	, Licences	Required:	Dial Before	You Dig, Excava	vation Permit Confined Space Entry Permit, Asbestos Removal Licence, EPA Licence						
Competencies / Tio	kets Requ	ired:	Relevant P Licences,	lant / Equipmen	nt competencies, White Card, EPA Licences, Asbestos removal Class B competency, High Risk						
Project Site Minim	um Manda	tory PPE Require	ements			Se	nior Manag	ement Approval			
	Z)	1		T	Name	John Mousellis	Position	General Manager			
Other PPE as require	d for specif	works									
					Date of issue	May, 2022	Signature	Janeel .			

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This Project Risk Assessment (PRA) must be implemented prior to the start of the project works								
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LEGISLATIVE REQUIREMENTS

Consulted:

Regulations and Acts, Codes of Practice, Standards, Australian Standards, Industry best practice guides and other required items such as manuals.

Legislation	Australian Standards	Australian Standards	Codes of Practice:			
Workplace Health and Safety Act (National Uniform Legislation) 1 May 2016	AS/NZS 4801 Occupational Health and Safety Management Systems	AS2294 Earthmoving Machinery - Protective Structures - General	How to Manage Work Health and Safety Risks	Managing the Work Environment and Facilities.		
Work Health and Safety Regulations (National Uniform Legislation) 1 July 2017	OHSAS 18001 Occupational Health and Safety Standard	AS/NZS 3760 In Service Safety Inspection and Testing of Electrical Equipment	Managing Noise and Hearing Loss in the Workplace	Managing the Risk of Falls in the Workplace		
Electrical Act and Regulations	ISO 14001 Environmental	AS 1269 Hearing Protection	Hazardous Manual Tasks	Prevention of Falls in General Construction		
NT Building Legislation	AS/NZS 9001 Quality	AS-3745 Planning for Emergencies in Facilities	First Aid in the Workplace	Safe Work Australia COP - Excavation Work		
NT Building Act	ISO 31000 Risk Management - Principles and Guidelines	AS 4602 High Visibility Safety Garments	Fatigue Management	Construction Work		
Waste Management and Pollution Control Act	AS 1336 Eye Protection	NS for Occupational Noise	WHS Consultation, Co-Operation and Co-Ordination	Preparation of SDS for Hazardous Chemicals		
Waste Management and Pollution Control Regulations	AS 2210 Safety Footwear	AS/NZS1716:2012 Respiratory protective device	Labelling of Workplace Hazardous Chemicals	How to Manage and Control Asbestos in the Workplace		
Dangerous Goods Act NT 2011			Guide to managing risks of exposure to Carcinogens in the workplace	Managing the risk of hazardous chemicals in the workplace		
Other			NCOP for the Control of Work-related Exposure to Hepatitis and HIV (Blood- borne) Viruses [NOHSC:2010 (2003)]	How to Safely Remove Asbestos		
EPA			Safe Work Australia (2015) COP - Electrical risks at the workplace			
Manufacturer Operator's Manual Plant / Equipment			COP Formwork	NT Road Users Handbook		

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Guidance on interpretation of workplace exposure standards for airborne contaminants	COP Managing Risk of Mobile Plant in Workplace	
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					Likelihood				
	Consequences					4: Likely May probably occur in	3: Possible May occur at some	2: Unlikely	1: Rare
Quality	Health/ Safety	Environmental	NO		Could occur in most circumstances	most circumstances	time.	Could occur at some time.	May occur only in exceptional circumstances
Greater than \$5M in damage or cost	Fatality / Serious permanent disability	Disastrous Impact Long term impact, Major remediation	5	Catastrophic	EXTREME 25	EXTREME 24	HIGH 21	HIGH 20	MEDIUM 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	EXTREME 23	EXTREME 22	HIGH 19	MEDIUM 14	LOW 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	HIGH 17	HIGH 18	MEDIUM 13	MEDIUM 12	LOW 7
\$10K - \$100K in damage or cost	Medical Treatment injury/ Restricted work duties	Minor Impact, reversible impact, minor remediation	2	Minor	HIGH 16	MEDIUM 11	MEDIUM 10	LOW 6	LOW 3
Less than \$10K in damage or cost	Minor Incident / First Aid	Negligible reversible impact, minor remediation	1	Insignificant	MEDIUM 9	LOW 5	LOW 4	LOW 2	LOW 1

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EXTREME

22 - 25)
The activity MUST NOT
proceed. Stop Work
Immediately seek senior
management assistance

(16-21)

HIGH

The activity **CANNOT** 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

MED

(9-15)
The activity is to be reviewed by senior management prior to proceeding.

(1-8)

LOW

Acceptable risk, activity may proceed with current controls in place.

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1	Working in an area where there is a possibility of contracting an Infection. (Melioidosis / Hepatitis)	Contamination	13	Persons with a known medical condition or low immune system should seek medical advice prior to entering any work site where contamination is possible. • Ensure any existing cuts or breaks in skin are covered any new cuts or skin breaks are to be treated immediately, • Wear PPE including approved face masks, gloves and glasses, gumboots, (disposable overalls where necessary), • Avoid producing excess dust, • Avoid contact with muddy stagnant water, • Wash hands and face before eating, • Wash all footwear and equipment prior to leaving site, • Workers immunisations must be current.	7	Supervisor / Workers
2	Pre-Mobilisation	Vehicles / Plant / Trucks not identified as approved for use EPA	22	 Vehicle / Plant / Trucks to be EPA approved prior to undertaking the works Visual inspected prior to travel all components including but not limited to truck required tools, first aid kit, fire extinguisher, spill kit Registration current, Prestart inspection conducted. 	8	Project Manager / Supervisor All workers
		Vehicles / Plant / Trucks not having the required equipment, tools, emergency equipment	21	 First Aid Kit, Fire Extinguisher with current test date available onsite, Spill Kits available and fully stocked, PPE onsite in the event of any spill Confined space rescue equipment, with current test / tag, 	15	Supervisor / All workers

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PROJECT RISK ASSESSMENT (PRA) – Waste Collection

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				Gas Detector with current calibration, Required equipment for Vacuum Truck, Body Trucks and Mobile Plant.		
		Spread of containments	21	 All Machines and work vehicles are used for the selected works, to prevent any cross contamination, and further are washed down prior to entry / exit of work site. All other vehicles have a designated parking area outside the work site, this area has been previously cleared by others. 	15	Supervisor / All workers
3	Travelling	Not Obeying NT road rules	13	 Vehicle driver to hold the appropriate current licence (e.g. Car – C Class licence), All road rules, signage to be adhered to, Beware of other road users, cyclists, and potential hazards including road works, Always driver to the road speed limits, and conditions. 	7	All workers
		Fatigue – Long Distance Travel	19	 Call is to be made to a colleague or company office between service spots, Rotate driving between personnel in vehicle, Pull up and rest where person feels tied, Stop every two hours or so to have a break and refresh. 	8	All workers
		Use of Mobile Phone	19	 Mobile Phones are NOT to be used whilst driving any vehicles, Pull over off road to talk on the phone. 	8	All workers
		Unsecure Loads	21	 Ensure that all loads / items on vehicles or trucks are secure, and not able to fall off and or spill, Checking of loads is to be conducted on travel trip. 	15	All workers
		Wet Conditions	19	 Drive to road conditions, slow down to ensure that breaking distance can be achieved, Do not drive when vision is impaired. 	8	All workers
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		Off Road – Gravel Roads	19	 Slow down drive to road conditions, Ensure that a visual distance is maintained when following another vehicle. 	8	All workers
		Accidents	21	 Pull vehicle of road, Assist person/ if able to do so, Contact emergency services. 	15	All workers
		Wildlife	19	Beware of that wildlife animals are wondering on the road, Ensure that person visually looks ahead in travel path.	8	All workers
		Night-time Driving	19	 Night-time driving is not recommended, Where a required ensure that lights, windows are clean and no vision is impaired. 	8	All workers
		Breakdowns	13	 Ensure that vehicle is off road, clear from oncoming traffic, Contact emergency services if applicable, Where changing tyre etc., follow manufacturers guidelines, Ensure vehicle is secure prior to any tyre changing. 	7	All workers
4	Project Management	Hazards / risks requirements not identified	13	 Project Risk Assessment developed for the locations, All personnel to sign onto the Project Risk Assessment, SWMS developed for all High-Risk Activities as per NT Regulations. 	7	Supervisor / QHSE Manager
		Work approvals / Licences / Authorisations not obtained	19	 Approvals, licences to be obtained for the project works prior to any works commencing, All approvals, licences and authorisations to be available onsite; located in the project folder. 	8	Supervisor / QHSE Manager
5	Emergency Preparedness	Inadequate Emergency Response	21	 Muster Point identified as onsite vehicle, First Aid Kit, Fire Extinguishers available onsite, Personnel trained onsite with current First Aid, Emergency Response Plan current and assessible onsite, 	15	Supervisor / QHSE Manager

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				Confined Space rescue equipment available onsite.		
		Onsite Emergencies	21	 Fire extinguisher serviced and tested available, Water hoses available onsite (if possible), Cigarette Butts will be disposed of in onsite bins, NO fires are to be lit onsite. 	15	Supervisor / Workers
6	Health Monitoring	Heat Exhaustion	13	 Take regular breaks, drink plenty of fluids, Where correct PPE – Boots / hat. 	7	Supervisor / Workers
		Noise	13	 Hours of work will not exceed the approved times allocated, Plant / Machinery not to be modified from original manufacturers requirements, Ear protection to be worn when operating, compressors or other loud equipment, as per manufacturer's requirements. 	7	Supervisor / Workers
		Vibration – Personnel Injury	13	 Regular rest breaks when using equipment, Ensure correct use as per manufacturer's requirements. 	7	Supervisor / Workers
7	Hazardous Substances	Personnel Injury	13	 SDS current within 5 years, SDS for all chemicals onsite will be available via a Hard copy folder PPE available for use, Handle, storage and use of hazardous substance as per the specific SDS. 	7	Supervisor / Workers
		Environmental Incident	13	 Disposal of substance as per SDS, All waste to be taken back to Mousellis Yard for disposal, No disposal of substance within waterways, drains, and or emptying on the ground. 	7	Supervisor / Workers
		Incorrect use of chemicals / poisons / hazardous substances	19	 All personnel know where to access SDS, All substances to be used as per the SDS / Manufacturers requirements, 	8	Supervisor / Workers

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				 Products not to be used for other purposes then what is the product is identified to be used for. 		
8	Use of Subcontractors	Subcontractor not suitable for site scope of works	13	 Internal Subcontractor Pre-qualification completed, SWMS / Plan review completed by Mousellis Management, Subcontractor internally risk assessed against Mousellis Risk Matrix to determinate to level of risk controls to be implemented for the subcontractor. 	7	Supervisor / QHSE Manager
		Subcontractor Equipment not maintained meeting project requirements	13	 Identifiable ROPS / FOPS cabin and other requirements for equipment / machinery is easily identifiable and in good working order, Maintenance records available through subcontractor when requested, Electrical Equipment Tested / tagged, Devices calibrated for e.g. Gas detectors, Pre-Start Inspection checklists available on machinery for daily inspection – where not available the use of Mousellis inspection will be selected / implemented to suit the identified machine. 	7	Supervisor / QHSE Manager
9	Impacts on Project, Other Parties / Clients / Other Entities Impacted	Site activities impacting nearby stakeholders	13	 Prior notification (verbal) to stakeholders of the works that may impact the stakeholder, Implementation of exclusion zones, barricades, traffic management – where required. 	7	Project Manager/ Supervisor / QHSE Manager
10	General Mobile Plant and Equipment	Overhead / Underground Services	19	 Dial Before You Dig (Dial Before You Dig 1100) obtained, Internal excavation permit completed, Distance to overhead power lines checked prior to set up of any machine, Spotter may be required to be used. 	8	Supervisor / Workers / Operators

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		Lifting Equipment / Devices	19	 Lifting chains, slings to be visually inspected prior to use, Equipment used to lift any item to have the identified SWL, NO items lifted are to exceed the SWL ratting of the device / machine. 	8	Supervisor / Workers / Operators
		Un qualified operator	13	 Competent plant operator for the machine, Internal task observation conducted, SWMS current and signed onto, for each machine, Subcontractor SWMS to be reviewed by Mousellis Management Prior to use. 	7	Supervisor / Operator
		No ROPS / FOPS	13	 ROPS / FOPS cabin identified on machine, Plant pre – start inspection conducted daily. 	7	Supervisor / Operators
		Unmaintained equipment	13	 Plant daily inspection conducted, Service history available, Service records within plant log or displayed on service sticker. 	7	Supervisor / Operators
		Damage to other equipment / buildings	13	 Operation of machine not less than extended boom, blade maximum extended distance, Spotter used where required, Site personnel notified of where machines are working on site through the daily briefing. 	7	Supervisor / workers
		Traffic / Machine / worker interaction	21	 PRA signed on / completed by all on site, Ensure all workers on site are aware of works in progress, Competent operators, HI-VIS clothing must be worn by all on site, Prestart checks conducted on all plant, Implement Site traffic management where required, Two-way radio operational and used when required, Clearly define unloading area where necessary, place bollards and flags or barricade area, 	15	Supervisor / Workers

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			 Unloading area to remain clear of other operational plant and equipment, Reverse alarm and rotating beacon must be working on all operational machinery. 		
	Dust - Worker visibility	19	Be aware of wind conditions and dust travel Use water truck, hose used to keep dust to a minimum	8	Supervisor / Workers
Portable Ladders	Incorrect Installation of ladders	19	Initial consideration of scaffolds, EWP's, and any other applicable working at heights equipment is to be considered prior to the use of ladders onsite.	8	Supervisor / Workers
			Ladders are used onsite for only access / egress, which are not to be worked from, where minor works may only be achievable by the use of a ladder a further risk assessment is to be conducted considering scaffolds, EWPs etc.		
			 Inspections of overhead power lines and other hazards prior to set up, Visual inspection of ladder. 		
			 Ladder stable and secured to landing prior to entry; Ladder to be at least 1 Metre extended past landing, Working at heights SWMS signed on. 		
		Dust - Worker visibility Portable Ladders Incorrect Installation of	DESCRIPTION OF TASK Potential Hazards Risk with No Controls Dust - Worker visibility 19 Portable Ladders Incorrect Installation of 19	Potential Hazards Risk with No Controls Potential Hazards Risk with No Controls Potential Hazards Risk with No Controls Potential Hazards Potential Hazards Risk with No Controls Potential Hazards Potential Hazards Potential Hazards Potential Hazards Risk with No Controls Potential Hazards Potential Ha	Potential Hazards Potential Hazards Risk with No Controls E = Elimination / Design Modification, S = Substitution, I = Isolation, Eng = Engineering, A = Administration, PPE= Personal Protective Equipment Measures

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12	Pre-Site Mobilisation	Site not secure	19	Both hands on rails Always face ladder Secured at bottom Ground clear around base Follow all current traffic requirements for the site, where required	8	Supervisor /
		Incorrect vehicle / mobile	21	 implement controls, Temporary fencing to be installed around any open excavations / hazards onsite, Trenches to be covered, Site to be secure at the end of each shift. EPA identified vehicles / mobile plant or truck is to be used as per 	15	Workers Supervisor /
		Plant or Truck used		 identified, Inspection of item prior to use to ensure that there is no faults, or potential issues that may cause contaminating of areas. 		Workers
13	Site Mobilisation	Site set up in an unapproved area	13	 Access approval obtained by landowner, client prior to site set up, Set up of laydown areas as per approval, Clearly defined access and egress. 	7	Project Manager / Supervisor

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		Site activities impacting nearby stakeholders	13	 Prior notification (verbal) to stakeholders of the works that may impact the stakeholder, Implementation of exclusion zones, barricades, temp fencing or traffic management – where required, to prevent any unauthorised access to areas 	7	Project Manager / Supervisor
		Damage to flora / fauna	13	 Ensure that machinery / vehicles and containers are not damaging any flora / fauna, Where significant flora has been identified, marking out or placing surveys tape on item may be required, Update PRA to identify any significant areas. 	7	Project Manager / Supervisor
		Manual Handling	13	 Use Mechanical means where possible, Get assistance for loads that are heavy or assessed to be over 20kg or have awkward dimensions, Clear rubble to avoid difficult terrain. Get some help for longer distance carries, Use suitable gloves for the situation, Check the load condition, Face yourself in the direction of travel, Get as close to the load so your back can stay straight. Place one-foot forward and one-foot back. Have load in the palm of your hand and not the fingertips, Bend your knees and keep your back straight and your chin in. If adopting a two-person lift, have one person control the lift by saying." Prepare to lift", then "lift", Try not to twist and lift. 	7	Project Supervisor / All Workers
		Heat Stress	13	 Take regular breaks, drink plenty of fluids, Where correct PPE – Boots / Hat, 	7	Supervisor / All Workers

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				When working in wet conditions, short pants, short sleeve shirt is allowed due to the moisture / heaviness of wet clothes when wearing normal PPE.		
14	Employees / Onsite Personnel	Unaware of site hazards- control requirements	13	 PRA signed on, (Induction), Acknowledgement and Training in the site this document (PRA) and or appropriate SWMS for the task conducted, Hold relevant licences prior to driving any vehicle / Competencies / Tickets – Equipment, Stop/Start meeting on a daily basis. 	7	Project Manager / Supervisor / Workers
15	Visitors	Unaware of site hazards- control requirements	13	 Visitor verbal induction completed, Visitors to remain accompanied by an Mousellis and Sons representative at all times. 	7	Project Manager / Supervisor
16	Plant, Vehicle, Personnel Interaction onsite	Personnel Injury	19	 Parking of machinery vehicles to be away from existing road users, Personnel to use existing walkways, Plant / Trucks and Vehicles to obey all NT road rules, always trying to turn in the same direction as the traffic flow, Avoid walking on road where possible, Cross road at traffic lights or crossings in a safe manner, Look both ways before crossing. 	8	Supervisor / All Personnel
17	Use of Mobile Plant / Trucks	Non-Approved Mobile Plant / Truck	21	 Plant / Truck to be approved for use by EPA, Items to have the required EPA documents available 	15	Project Manager / Truck / Plant Operators
		Overhead / Underground Services	19	 Dial Before You Dig (Dial Before You Dig 1100) obtained, Excavation permit completed, Ensure that machine or collection vehicle/truck is set up away from excavation to prevent any collapse of excavation or roll over Spotter may be required to be used. 	8	Supervisor / Truck / Plant Operators

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		Noncompetent Operator	19	 Operators to hold the appropriate licence, or competency prior to undertaking the tasks works, SWMS current / approved by Mousellis and Sons prior to use onsite appropriate for the task undertaken, This Project risk assessment signed on 	8	Supervisor / Truck / Plant Operators
18	Entering Location / Chambers	Incorrect Access	13	 Access via the defined access ways, Work from allocated platforms, walkway, and other identified areas within pits, Ensure 3 points of contact at all times, Small pits - Removal of Lid as per Power and Water process, Ensure a safe distance is maintained from access hole to pit. 	7	Supervisor/ All Confined Space operators
		Inadequate Emergency Response	19	 Follow site requirements as per defined at each location, Ensure that visual inspection is conducted prior to working to communicate to all personnel working of location of equipment – muster points, Confined space rescue equipment to be visually inspected with the current test / tag date, Confined space rescue equipment to be installed as per manufacturers requirements, Rescue anchor points (Davit arm etc.) as installed onsite to be used where applicable, Where NO site anchor points are established and personnel are working in confined space, use of tri-pod or other device will be required to be used in accordance with the device manufacturers installation requirements to ensure that confined space rescue can be achieved, Gas detectors to be with the current calibration period. 	8	Supervisor/ All Confined Space operators

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PROJECT RISK ASSESSMENT (PRA) – Waste Collection

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		Manual Handling	13	 Follow safe manual handling procedures, Avoid twisting, Bend knees, Rotating task where necessary to prevent muscle strain, Use team lifts or mechanical means of lifting when required. 	7	Supervisor/ All Confined Space operators
19	Confined Space Works	Unauthorised access	19	 Confined Space Permit used, Device within calibration period of validation, Correct PPE to be worn as per permit requirements, Rescue equipment onsite, inspected prior to use. 	8	Supervisor/ All Confined Space operators
		Personnel not trained	19	 SWMS -17 Confined Space current and Signed on, by all personnel conducting confined space works, Personnel to be externally trained in the confined space entry course, Competent person to conduct gas detection device. 	8	Supervisor/ All Confined Space operators
		Inadequate Emergency Response	19	 Emergency response equipment to be onsite e.g. tripods, harnesses, Visual inspection of items prior to entry into confined space, Spotter available to assist in the confined space rescue. 	8	Supervisor/ All Confined Space operators
20	Grease Trap Waste – Collection, Transportation	Personnel Harm – Hygiene, Odour	21	 Masks to be worn that will prevent any breathing in of substance, PPE to be worn Clothing to be washed separately to normal clothes Area to have ventilation, and or breathing device where ventilation is limited No person to work alone 	15	Supervisor / Workers
		Fire / Explosion	21	 Gas detector within calibration date to conduct initial test for any gasses, Fire Extinguisher onsite Personnel to not work alone 	15	Supervisor / Workers
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		Contamination of areas	19	 Item of plant / truck / vehicle to be checked prior to any extraction to ensure that all connections are secure and no chance of leak, Area of extraction to be excluded, barricaded from any unauthorised person/s accessing areas, Load to be secure, connections closed prior to any transportation 	8	
21	Lead compounds – Collection, Transportation	Lead Poisoning	21	 Personnel to wear masks, and gloves, with appropriate footwear to prevent any lead poisoning, Well ventilated areas, or breath mask used in non-ventilated areas No person to work alone 	15	Supervisor / Workers
		Lead Dust – Contamination of other areas	21	 Item of plant / truck / vehicle to be checked prior to any extraction to ensure that all connections are secure and no chance of leak, Area of extraction to be excluded, barricaded from any unauthorised person/s accessing areas, Load to be secure, connections closed prior to any transportation 	15	Supervisor / Workers
22	Contaminated Soils- Collection, Transportation, Storage	Unidentified contaminate	19	 Visual inspection, and investigation where possible to identify the contaminate, Approved PPE worn as per identified contaminate No person to work alone 	8	Supervisor / Workers
		Spills	21	 Item of plant / truck / vehicle to be checked prior to any extraction to ensure that all connections are secure and no chance of leak, Area of extraction to be excluded, barricaded from any unauthorised person/s accessing areas, Load to be secure, connections closed prior to any transportation 	15	Supervisor / Workers
23	Asbestos Removal - Collection, Transportation	Asbestos Contamination of Site	21	 Asbestos management plan / SWMS in place, All personnel to hold the current asbestos removal licence Exclusion zone implemented to prevent any authorised access No person to work alone 	15	Supervisor / Workers

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STEP	DESCRIPTION OF TASK	Potential Hazards	R /B Risk with No Controls	Control Measures: Actions to be taken Hierarchy of Controls: E= Elimination/ Design Modification, S= Substitution, I= Isolation, Eng= Engineering, A= Administration, PPE= Personal Protective Equipment	R / A Risk After Control Measures	Responsible Person/s
		Incorrect methods used	21	 Asbestos to be identified by a qualified asbestos removal person Asbestos removal plan current / approved for use Relevant documentation / permits completed 	15	
24	Waste Mixtures or Waste Emulsions, of Oil and Water or Hydrocarbon and Water – Collection, Transportation	Personnel Injury	19	 Personnel to wear masks, and gloves, Well ventilated areas, or breath mask used in non-ventilated areas No person to work alone 	8	Supervisor / Workers
		Contamination	21	 Item of plant / truck / vehicle to be checked prior to any extraction to ensure that all connections are secure and no chance of leak, Area of extraction to be excluded, barricaded from any unauthorised person/s accessing areas, Load to be secure, connections closed prior to any transportation 	15	Supervisor / Workers
25	Sewage Sludge - Collection, Transportation	Spills	21	 Item of plant / truck / vehicle to be checked prior to any extraction to ensure that all connections are secure and no chance of leak, Area of extraction to be excluded, barricaded from any unauthorised person/s accessing areas, Load to be secure, connections closed prior to any transportation 	15	Supervisor / Workers
		Personnel Injury	19	 Personnel to wear masks, and gloves, Well ventilated areas, or breath mask used in non-ventilated areas No person to work alone 	8	Supervisor / Workers
26	Use of Hand Tools	Incorrect Selection of Tool	13	 Tool to be selected to meet the requirement for the task e.g. ¾ spanner, Tools to be visually inspected prior to use, PPE required to be worn as per manufacturer's requirements. 	7	Supervisor / Workers

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		Faulty Equipment	13	Faulty items to be removed from site (tagged out), taken back to Mousellis Yard for repair.	7	Supervisor / Workers
27	Use of Electrical Tools	Faulty Equipment	19	 All electrical tools to have the current test/tag sticker on items, Tools to be visually inspected prior to use, Faulty items to be removed from site (tagged out), taken back to Mousellis Yard for repair. 	8	Supervisor / Workers
28	Carting Material from site	Un road worthy vehicle	13	 Appropriate licenced person to drive Prime Mover (e.g. HR-MC) dependant on trailers and body of truck, Registration current, Permits obtained prior to use. 	7	Supervisor / Workers
		Traffic	19	Obey NT road rules,Drive to conditions of roads.	8	Supervisor / Workers
		Load not secure	13	 Ensure that the item is inspected prior to travelling and that no waste / materials can unexpectedly leak from the vehicle Spill kit and emergency numbers available 	7	Supervisor / Workers
		Unloading in non-approved areas or site		 Unloading to only occur at the approved EPA location identified, Internally at Mousellis and sons depots ensure that the location bunding etc is still sufficient, and the load will fit in area without over flowing 		Supervisor / Workers
29	Waste Management	Environmental	13	 Remove all waste from site, Dispose of at appropriate waster transfer station, Reinstate site to original condition. 	7	Supervisor / All personnel
		Waste and by products	13	 Obey site rules, processes, approval obtained prior to entry, Regular site inspections, 	7	Supervisor / All personnel

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				Provision of appropriate waste containers.		
		General Construction Waste	13	 Where required, waste generated from maintenance activities will be sorted and amounts estimated and recorded, All construction waste materials generated on site not able to be 	7	Supervisor / All personnel
				recycled will be removed from site immediately and disposed of at appropriate waste disposal facility,		
				The site will be left in a clean and tidy state on completion of the maintenance works.		
30	Site Demobilisation	Security	13	Site to be secure as when arrived after all works, vehicles have exited the site compound.	7	Supervisor
		Unclear site / Waste	13	 All waste to be removed from site and disposed of at local waste facilities, 	7	Supervisor / All personnel
				 Supervisor to conduct a visual inspection of site prior to leaving premises. 		
		Tools / Equipment	13	All tools are to be collected onsite, cleaned and placed back in truck or vehicle prior to leaving site,	7	Supervisor / All personnel
				Visual inspection of site prior to leaving site.		·

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Emergency Rescue Procedure Associated with the Activity

Should a worker require rescuing for any reason (i.e. equipment failure, injury / illness of the operator) the following procedures may need to be implemented:

- Contact the Emergency Rescue Services on 000 or Mobile on 112 / See Site Emergency Contact List
- If it is safe to do so, ensure that the casualties injuries are not made worse, support the load or isolate the danger from the casualty
- Do not attempt to move the casualty until trained help arrives, unless there is a certainty that the persons life will be placed in further endangerment

NOTE: At no time is a worker to place themselves at risk whilst attempting to undertake any of the above procedures.

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This PRA has been developed in consultation with employees and has been read and understood by site personnel involved in this project work activities.

By Signing below I understand the requirments, preventative actions and skills required for the works associated with this Project and agree to conduct all work activities involved with this Project in accordance with this Project Risk Assessment:

Date	Name	Location	Company	Signature

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No	Reviewer Name	Location	Stop / Start Card Completed	Any Job Step/s changes or Issues Identified in controls	Remedial Action Taken	Signature

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