Contract / region	C19008 Outfall Repairs – Hopeman, Inverboyndie & Cummingston				
Location	Moray	**Prepared by**	Iain Peteranna	**Job title**	Contracts Manager
Ref/Activity	RAIP01 Rev00 Site Works	**Group Affected**	Veolia, UBCivils, Other Contractors, visitors to site, members of public, road users	**Date performed**	02.10.23
				Date valid until	02.10.24

HAZARD	CONSEQUENCE	RISK RATING BEFORE CONTROL MEASURES				CONTROL MEASURES	RISK RATING AFTER CONTROL MEASURES		
		LIKELIHOOD (L)	SEVERITY (S)	RISK			LIKELIHOOD (L)	SEVERITY (S)	RISK
Offloading plant	Public/Operatives/plant.	2	4	8		All plant to have audible reversing warning devices and reversing lights, flashing beacons on at all times. Use recognised access/egress points which are clearly signed. Only trained certified drivers for all plant.	1	4	4
Excavations	Plant striking existing services	2	3	6		Area to be scanned prior to excavation by UBCivils. Permit to be issued for any restrictions. Service provider drawings to be checked for any known services. Trained and competent plant operators. All Utility Drawings on site and checked. Cat and Genny Scan excavation and surrounding area. Trial hole to find buried services. Mark up services with spray paint, ensure all located services are marked outside the area to be excavated. Follow safe digging practices as in HSG 47.	1	3	3
Vehicles / Plant Reversing	Striking personnel, toppling resulting in injury or death	2	4	8		PVM or physical barrier whenever reversing is unavoidable. All plant to have audible reversing warning devices, reversing lights, flashing beacons at all times, visual/physical aids provided at	1	4	4

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		LIKELIHOOD (L)	SEVERITY (S)	RISK			LIKELIHOOD (L)	SEVERITY (S)	RISK
						edges where risk of toppling is present 3m exclusion at all times.			
Plant defective or unsafe - Crushing	Crushing / Striking / Overturning resulting in injury or death	2	4	8		All plant subject to planned maintenance and daily pre-use checks. Registers and certs to be in order. Provide competent operators, drivers and banksmen.	1	4	4
Saw Cutting Concrete	Excessive Noise / Dust / Breathing Difficulties	2	2	4		Use appropriate PPE. Remove other trades from area if required. Dust suppression (dampening) to be implemented and ear protection to be worn as required.	1	2	2
Saw Cutting Concrete	Contact with cutting disc / being struck by flying debris.	3	2	6		Barrier to segregate activity from main site. Only competent personnel to operate plant. Impact goggles to be worn by operator & others in vicinity. Dust suppression & hearing protection to be used.	1	2	2
Saw Cutting Rebar	Contact with cutting disc / being struck by flying debris /excessive dust & noise	3	2	6		Barrier to segregate activity from main site. Only competent personnel to operate plant. Impact goggles to be worn by operator & others in vicinity. Dust suppression & hearing protection to be used. Hot Work Permit & Precautions Detailed therein to be used.	1	2	2
Break/remove Concrete	Excessive noise / excessive dust risk.	2	2	4		Use appropriate PPE. Dampen down broken material when	1	2	2

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		LIKELIHOOD (L)	SEVERITY (S)	RISK		LIKELIHOOD (L)	SEVERITY (S)	RISK
					loading in dry weather. Remove material to a licensed site for recycling. Keep detailed Waste Transfer records			
Using Cement, Concrete & Mortar	Cement is an irritant and can cause extreme damage to skin or eyes if it makes contact.	3	2	6	Smoking during handling of this product is strictly forbidden. Users to wear eye protection, rubber gloves and overalls to prevent contamination of skin. Ensure eye wash solution is fully stocked in first aid kit.	1	2	2
Manual Handling	Strains, back pain	2	2	4	Know your limits for lifting. Use mechanical means whenever possible. Correct posture to be used. Rotate squads, adequate rest breaks. Gloves to be worn.	1	2	2
Tripping hazard	Sprains/strains	2	2	4	Work areas to be kept clean and tidy at all times. Materials to be stored neatly and site to be kept tidy.	1	2	2
Damage to Environment by hydrocarbons / silt.	Spills, pollution of watercourse, pollution of land, noise and vibration, dust, waste.	2	3	6	Spill kits will be provided at the work area and all personnel trained in their use. Hierarchy of spill response to be available in accordance with Emergency Response Plan.	1	3	3
Poor Weather conditions.	Increases slips, trips and falls. Poor visibility, severe weather can lead to hyperthermia.	2	3	6	Observe weather reports and warnings. Provide quality PPE. Greater emphasis on poor weather conditions during	1	3	3

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		LIKELIHOOD (L)	SEVERITY (S)	RISK			LIKELIHOOD (L)	SEVERITY (S)	RISK
						induction process. Daily Risk assessments to be completed by competent person.			
Re-fuelling of plant - Pollution	Fuel spills, pollution of watercourses or land	2	3	6		Plant nappy to be stored next to fuel bowser and all mobile plant to have spill kits. Plant nappies to be used at all times when re-fuelling. No refuelling activities to be near water courses. Any used /contaminated spill kits to be disposed of separately in an oil/waste bag or bin.	1	3	3
Working near open water	Drowning	2	3	6		Works only to be carried out 'in the dry' when tidal conditions are right. No lone working. Artificial lighting to be provided after hours of darkness. Use life jackets.	1	3	3
Working near a live sewer	Disease/Leptospirosis	2	2	4		Comply with Water Industry Hygiene Standards. Use only trained personnel. Provide additional overalls / suitable washing facilities.	1	2	2
Interface with other contractors	Operatives/plant- risk of collision when accessing/egressing works resulting in injury or death.	2	4	8		PVM or physical barrier to be in place segregating contractors. All plant to have audible reversing warning devices and reversing lights, flashing beacons on at all times, visual and physical aids provided at edges where risk of toppling is present. Use	1	4	4

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					recognised access/egress points which are clearly signed. Vehicle to reduce speed accordingly as per TM.			

Risk Assessment Matrix

RISK RATING					
Severity 5					
4					
3					
2					
1					
	1	2	3	4	5
	Likelihood				

BEFORE CONTROL MEASURES		
	Critical Risk	Risk MUST be mitigated and risk level reduced to yellow
	High Risk	Risk MUST be mitigated and risk level reduced to yellow
	Moderate Risk	Supervision or monitoring of activity should be considered
	Minor Risk	Acceptable risk

AFTER CONTROL MEASURES		
	Critical Risk	Activity may not continue and must be added to the risk register
	High Risk	Activity may continue with management review and must be added to the risk register
	Moderate Risk	Supervision or monitoring of activity should be considered
	Minor Risk	Acceptable risk

LIKELIHOOD		
SCORE	DEFINITION	PROBABILITY
5	Very Likely	>90%
4	Likely	51% to 90%
3	Possible	11% to 50%
2	Unlikely	1% to 10%
1	Highly Unlikely	<1%

SEVERITY		
HEALTH	SAFETY	ENVIRONMENT
Multiple Deaths	Multiple Deaths	Irreversible Environmental Incident
Life shortening health effect	Single death or multiple major injuries	Significant environmental impact (e.g. contamination of a water source)
Irreversible health effect or serious illness with full recovery	Major injury or Over 3-day absence	Moderate environmental impact (e.g. fuel tank spillage)
Reversible health effect (e.g. minor dermatitis)	Minor injury or one day absence	Local environmental impact (e.g. excess inert waste left overnight)
Mild health effect ~ No lost time (e.g. local skin irritation)	First aid case, No lost time	Minor environmental impact (e.g. minor oil spill)