## HEALTH, SAFETY & ENVIRONMENT CONSTRUCTION BASELINE RISK ASSESSMENT

## BASELINE SAFETY, HEALTH & ENVIRONMENTAL (SHE) RISK PROFILE FOR CoCT- CLEANING OF SEWER INFRASTRUCTURE BY MECHANICAL MEANS

ACTIVITY	HAZARD / SOURCE	RISK	ASSESSMENT OF RISK		RISK
Site establishment	Off-site transportation accidents	Project completion, disruption, fatalities and property damage	LOW	MEDIUM	HIGH
	No notice of arrivals on-site	Delays, resulting with loss of production time		9	
	Incorrect loading & off-loading	Injuries / Unsafe work practices		6	
	Use of unsafe lifting equipment resulting to equipment failure	Death, injury and damage to property			12
	Unsafe stacking and storage practices	Damage to property, injury to people	5		
	Conducting work activities on poor ground conditions	Damage to property, injury to people	3		I
	Hoarding and Barricading public access	Public Liability		10	1
	Speeding and movement of vehicles on poor ground conditions	Damage to property, injury to people		8	l
	Vehicles in substandard conditions	Property damage, damage to surroundings and personnel injuries			12
	Unsafe/Unsecured storage of equipment and materials	Property damage, disruption		6	
	Provision of inadequate/substandard ablution facilities and disposal of sewerage	Spillages, unhygienic conditions resulting in disease	5		
	Provision of inadequate facilities (sheltered eating areas, lockers, etc.)	Poor facility management		6	
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Liability Exposure	Unauthorized access of kids to construction site	Fatality, Injury to people			15
	Unaccompanied visitors/persons moving on construction site	Fatality, Injury to people	-		15
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Excavations	Employees not visible to operators/moving machinery	Accidents resulting in death or injury		10	16
Trenching & Working in Trenches	Excavations conducted without supervision of competent person	Injury to people, damage to property		10	15
	Inadequate shoring or bracing of excavation works	Sliding of ground resulting in death or injury			15
	Unsafe usage of hand tools (picks, shovels) when conducting excavation work	Injury to other workers as a result of overcrowding		6	
	Access in and out of trenches not provided with ladders, etc.	Escape routes not available in the event of an emergency		10	
	Presence of overhanging rocks or poor soil conditions	Collapsing of walls, falling objects resulting in injury to people			12
	Presence and/or operation of vibrating machinery close to trenches	Collapsing of walls resulting in injury to people		9	1
	Overcrowding of workers in trenches	Injury to other workers as a result of overcrowding		8	
	Excavations not adequately barricaded	Employees falling and vehicles driving into excavations resulting in injury or damage to property		8	
	Failure to comply with SHE specifications	Damage to property and rework		6	
	Confined space	inundation, Fatality			16
	Spoil and back fill ground.	Injury to workers. Slipping and Falling	4		
	Slippery, uneven surfaces and tripping hazards	Injury to workers. Slipping and Falling	5		
	Inadequate barricading of excavations, unauthorized access to excavations	Injury to people		8	
Backfilling in Trenches	Wearing of inadequate and incorrect PPE during operations	Injury to people	4		
	Collapsing of trenches during backfilling operations	Death, falling, injury to people			16
	Trenches not cleared and unmanned before backfilling commences	Death, injury to people as a result of being buried			20
	Presence and/or operation of vibrating machinery close to trenches	Collapsing of walls resulting in injury to people		8	
	Presence of overhanging rocks or poor soil conditions	Collapsing of walls, falling objects resulting in injury to people		8	
	Access in and out of trenches not provided with ladders, etc.	Escape routes not available in the event of an emergency		6	



ACTIVITY	HAZARD / SOURCE RISK		ASSESSMENT OF RISK		
	Hand tools damaged, splintered, unmaintained and not inspected	Injury to hands, e.g. splinters and body as a result of damaged hand tools	5		
	Overcrowding of workers in trenches	Injury to other workers as a result of overcrowding		6	
	· · · · · · · · · · · · · · · · · · ·				40
	Employee census not conducted when working in trenches	Not extracting buried persons in time due to not knowing where they worked.			16
Dealing with and identification of	Major power/water services failure	Loss of production time		9	
existing services	Unidentified existing infrastructure	Injuries and damage to property		9	
	Bursting pipe	Flooding		10	
	Electrical cables	Electrocutions, Power outage, Public interference,			15
	Subsiding surfaces	Injury to people and damage to property		8	
	Opening/Damage to sewage pipes and exposure to raw sewage	Exposure to employees and public			12
Work in the vicinity of neighbouring buildings and structures	Damage to surrounding property as a result of construction activities	Injury to people and damage to property		8	
	Ecological disturbance as a result of dust and other Total Solid Particle emissions depositing on adjacent properties	Air & Soil pollution		6	
	Noise pollution as a result of construction activities	Noise pollution		6	
	Contaminated storm-water runoff from site onto adjacent properties	Surface water and soil pollution		6	
	Dumping of wastes and other materials on surrounding land uses. Visual disturbances.	Waste generation & disposal	5		
	Uncontrolled access of other parties to construction premises	Injury to people		10	
Movement of and working with	Usage of unsafe, unmaintained vehicles	Injury to people, damage to property		9	
	Pedestrian accidents and collisions of vehicles	Injury to people, damage to property		9	
	Plant colliding into co workers working on site	Injury to employees, damage to plant			12
	Speeding of construction vehicles on school	Injury to people, damage to property, fatality			20
	Passengers falling from truck	Injury to people		9	
	Unauthorized driving / operating of vehicles	Accidents, collisions, injury to people, damage to property		10	
	Unskilled/ trained operators	Accidents, collisions, injury to people, damage to property		10	
	Overloading of vehicles	Accidents, collisions, injury to people, damage to property		8	
Confined spaces	Entering manholes and pipes	Injury to employees			12
	Failure of equipment	Exposure to fumes or gases.			12
	Insufficient emergency assitance	Exposure to dust and low oxygen levels			12
		Exposure to animals living in confined space			12
		Failure in equipment resulting in injury to people and damage to property			15
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_		Insufficient emegerncy equipment			15
Fuel storage & supply	Fuelling of engines while running	Sparks, explosion causing injury to people		9	
	Spillages of fuel during refuelling operations	Environmental pollution		6	
	Smoking or fires during refuelling operations or at fuel storage tanks	Open flames, explosion causing injury to people & damage to property		10	
Health hazards	Exposure to insects, bees, snakes, rats etc.	Bites, stings, etc.		10	
Hazardous Chemicals	Exposure to insects, bees, shakes, has etc.	Exposure to employees and public		10	12
Hydro Carbons	Exposure to gases and fumes in working environment	Inhalation resulting in breathing problems		6	12
Paints, thinners etc.	Exposure to extreme temperatures in working environment	Dehydration, cold		8	
	Exposure to noise	Noise induced hearing loss		6	
	Exposure to dust and total solid particles	Inhalation resulting in breathing problems	5	, , , , , , , , , , , , , , , , , , ,	
	Exposure to vapours or explosions	Inhalation resulting in breathing problems Inhalation resulting in breathing problems. Explosions resulting in death, injury to people & excessive damage to Property.		10	
	Exposure to vibration	Injury to people		6	
	Ergonomic hazards from manual handling & mechanical operations	Back strains, backaches, spasms, etc.		8	
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ACTIVITY	HAZARD / SOURCE	RISK	ASSESSMENT OF		RISK
	Fatigue	Injury to people, damage to property		6	
	Lack of supervision	Injury to people, damage to property		8	
				8	
	Security	Security uncontrolled access. Theft, Sabotage, Damage to property. Personal injury. Liability claims		8	
Use of hand tools	Use of substandard/broken hand tools	Injuries and damage to property		8	
	Misuse of hand tools by untrained personnel	Injuries and damage to property		6	
	Tools falling from heights as a result of not being adequately secured	Injuries and damage to property			12
Emergencies Fire fighting and	Inadequate fire fighting equipment provided of suitable capacity and located at suitable locations	Fires burning out of control resulting in injury to people and/or damage to property		8	
Fire prevention	Fire fighting equipment not maintained and serviced	Death and/or injury to people due to failure of fire fighting equipment		9	
	Fire fighting equipment not accessible and unobstructed	Death and/or injury to people due to inaccessibility of fire fighting equipment		9	
	Application of incorrect type of fire fighting equipment on various type of fires	Electrocution, increased spreading of fires, explosions, etc.			12
		Death and/or injury to people due to failure of fire fighting equipment		6	
	Fire team members untrained, unfamiliar with emergency procedures and alert	Slow response from fire fighting team resulting in deaths, injury to people and excessive damage to property		9	
	Excessive smoke emissions from fires	Smoke inhalation resulting in suffocation			12
	Excessive smoke emissions from fires	Air pollution		6	
	Excessive heat emissions from fires	Death, burns, injury to people & damage to property			12
	Disposal of waste, ash and coal after fire is extinguished	Waste generation & disposal	5		
	Usage of water from hydrant during fire fighting operations	Depletion / Use of natural resources	3		
	Contaminated water runoff from emergency scene	Surface water & soil pollution	3		
	Fire fighting done without or with incorrect PPE	Death, burns, injury to people		8	
	Stress, trauma during fire fighting operations	Psychological effect on fire fighters, e.g. depression		8	
	Explosion of combustible or flammable materials during emergency situations	Explosions, deaths, injury to people & excessive damage to property			15
	Smoking and burning cigarette butts on site	Starting of fires as a result of poor smoking management	5		
	Hysteria due to panic state during fire emergency situation as a result of lack of emergency drills	Long-term psychological effects on employees, e.g., depression, fear as a result of emergency situation		6	
	Flanges	Burns		6	
Adjacent land users & Surrounding property exposures	Damage to surrounding property as a result of construction activities	Injury to people and damage to property		8	
	Ecological disturbance as a result of dust and other Total Solid Particle emissions depositing on adjacent properties	Air & Soil pollution	4		
	Noise pollution as a result of construction activities	Noise pollution	5		
	Contaminated storm-water runoff from site onto adjacent properties	Surface water and soil pollution	5		
	Dumping of wastes and other materials on surrounding land uses	Waste generation & disposal	5		
	No rehabilitation of area	Legal action against company	5		
_oading & Off-loading of trucks	Movement of vehicles and pedestrians on construction site	Accidents, injury to people as a result of moving traffic onsite		6	
- Aggregate/sand and other materials delivery	Inadequate directional and traffic signs	Accidents, injury to people and damage to property as a result of inadequate directional and traffic signs		6	
	Inadequate warning systems in place when reversing and off-loading	Accidents, injury to people and damage to property as a result of poor warning systems		9	
	Collision with skips and other equipment	Injury to people, damage to property		8	
	Load throws as a result of poor driving	Injury to people, damage to property and loss of raw materials	5		
	Load throws as a result of poor road conditions	Injury to people, damage to property and loss of raw materials	5		
	Unsafe Stacking and Storage	Accidents, injury to people and damage to property as a result of poor stacking and storage discipline systems		6	
	Spillages from materials	Waste generation & disposal	5		

/ITY	HAZARD / SOURCE	RISK	ASSESSMENT OF RISK		
Use of portable electrical equipment: Electrical drilling	Portable electrical equipment damaged or electrical wiring exposed	Injury to people due to failure in portable electrical equipment		9	
	Plug and electrical cord damaged, uncovered or incorrectly wired	Electrical shock		9	
machine	Connecting portable electrical equipment to electricity supply while switched on	Uncontrolled operation of portable electrical equipment resulting in injury to people and/or damage to property		6	
	Operating portable electrical equipment close to water or other conducting environments	Electrical shock from electrical current		9	
	Usage of wrong drill bits/discs for the type of material	Breaking of drill bits resulting in uncontrolled flying objects resulting in injury to people and/or damage to property		6	
	Long extension cords lying around operator while using portable electrical equipment	Cluttered working environment causing tripping or falling	5		
	Dust and other solid particles emitted/flying into surrounding atmosphere	Inhalation of excessive dust, particle emissions by operator		6	
	Noise generated	Excessive noise emissions resulting in decline of hearing ability (Noise induced hearing loss)		9	
	Operator operating portable electrical equipment without or with wrong PPE.	Injury to eyes, hands and feet		9	
	Working in hard to reach (narrow, high) places requiring crouching or stretching	Excessive repetitive crouching and stretching resulting in permanent back muscle injury		8	
Flammable liquid, oil & paint					
storage areas	Storage and transportation of flammable/hazardous chemicals & products	Fire risk, injury to people & damage to property		8	
	Accumulation of waste and debris in areas	Waste generation & disposal	4		
	Provision of inadequate ventilation system	Fire risk, injury to people & damage to property		9	
	Inadequate Symbolic safety signs & notices	Ensure adequate symbolic safety signs & notices are displayed		8	
	Fire fighting equipment, systems, etc. not inspected and maintained	Fire fighting equipment, systems, etc. not inspected and maintained		10	
	Spillages from paints. chemicals & wastes	Surface water pollution		8	
	Chemical gas and fume emissions from chemicals, oils & paints	Respiratory injuries and diseases		8	
	Incorrect usage of Personal Protective Equipment. No MSDS.	Injury to people		9	
	Poor housekeeping practices in area	Fire risk, injury to people & damage to property		6	
	No provision made to prevent any means of fire, flame or naked light or anything which may generate static electricity or anything which may ignite a flammable liquid or its vapour, to be used or taken into storage area	Fire risk, injury to people & damage to property		10	
	No prevention of smoking in areas where flammable liquids are stored	Fire risk, injury to people & damage to property		9	
	No provision made for the prevention of the accumulation of combustible materials	Fire risk, injury to people & damage to property		8	
	All containers and drums containing flammable liquids are not tightly sealed when not in use	Fire risk, injury to people & damage to property		6	
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Lifting equipment.	Failure in lifting equipment due to poor maintenance and inspections	Failure in equipment resulting in injury to people and damage to property			16
	Wrong lifting equipment used	Injury to people, damage to property		8	
	Rigger not competent	Injury to people, damage to property		10	<u> </u>
	Not wearing correct P PE	Injury to people.		6	
Fabricate and modifying	Nip points.	Injury to people	5		
piping	Incorrect and unsafe material handling.	Damage to property, injuries to people		6	
-	Poor communication.	Damage to property, injuries to people	5		
	Restricted access.	Damage to property, injuries to people		8	
	Substandard house keeping, tripping and slipping hazard.	Injury to people	5		
	Unsafe stacking of material.	Injury to people	5		
	No pipe supports ( Trestles )	Damage to property, injuries to people		6	
		Exposure to employees and public. Employees to wear personal samplers, respirators, goggles, elbow rubber gloves and			

ACTIVITY	HAZARD / SOURCE	RISK		ASSESSMENT OF RISK		
	Blockages	Exposure to employees and public. Employees to wear personal samplers, respirators, goggles, elbow rubber gloves and specilized overall and rubber gumboots			12	
	Entering sewer manhole	Injuries and exposure.Employees to wear personal samplers, respirators, goggles, elbow rubber gloves and specilized overall and rubber gumboots			12	
	Spillages during pumping	Injuries and exposure to employees and public.Employees to wear personal samplers, respirators, goggles, elbow rubber gloves and specilized overall and rubber gumboots			12	
Install piping	Unsafe material handling practices.	Damage to property, injury to people		6		
	Nip points	Injury to people	5		1	
	Poor communication between workers.	Damage to property, injury to people		8		
	Pipes falling from position (not secured )	Damage to property, injury to people		9		
	Overhead work	Damage to property, injury to people		9		
	Substandard, incorrect and faulty lifting tackle and equipment.	Damage to property, injury to people		10		
	Incorrect use of lifting tackle and equipment	Damage to property, injury to people		10		
	Incompetent people performing task	Damage to property, injury to people		8		
	Unsafe lifting practices.	Damage to property, injury to people		10		
Tie into existing services	No permit to work	Damage to property, injury to people		10		
	No lock out procedures followed	Damage to property, injury to people			12	
	Unsafe material handling practices	Damage to property, injury to people		6		
	Nip Points	Injury to people		6		
	Poor communication between workers.	Damage to property, injury to people		8		
	Pipes falling from position (not secured)	Damage to property, injury to people		9		
	Contaminating liquid leaks out of existing (old) services Lines not perched	Injury to people, environmental		8		
	Tie in into wrong services	Damage to property, injury to people		8		
	Not wearing proper P PE	Injury to people		6		
Commissioning,	Working on live pipe lines, valves, pumps and machinery	Damage to equipment, injury to people		9		
Clean area and equipment	Lock out procedures not followed	Damage to equipment, injury to people			16	
	Incompetent workers	Damage to equipment, injury to people		6		
	Not wearing proper P PE	Injury to people		6		
Pressure Testing.	Incompetent workers	Damage to property, injury to people		6		
	No safe work procedure and method statement	Damage to property, injury to people		6		
	Faulty pressure testing equipment	Damage to property, injury to people		8		
	Not wearing proper P PE	Injury to people		6		
Water Management	Incompetent person to identify potential drowning areas (No Plan )	Drowning		10		
trater management	Working in water without assistance	Drowning		8		
	People working in water that can not swim	Drowning			15	
	Slip, trip and fall on slippery surfaces when working in or near water	Drowning		6		
	Confined spaces containing water	Drowning			15	
	Vehicle accidents into water	Drowning		8		
	No life savings equipment, life jackets etc.	Drowning		9		
	Wrong PPE	Drowning		10		
	Storms, floods	Drowning		10		
	Mud/Slurry	Suffocate		8		
	In rushes	Drowning, Suffocate		10		
	Electricity	Electrocution			15	
Pressure vessels / Compressors	Incompetent workers			10		
TESSURE VESSERS / COMDRESSORS		Injury to people		10		

Max press         Hoses/Pig No fire ext Substanda Vibration         Substanda Vibration         Noise         No per-us No whipla         Transporting of employees with company vehicles         Unroadwo Driver dri Driver dri Driver dri Driver fat         Stacking & Storage of materials         Base is no the load         Pallets an exerted or Employee         Stacks the Stacks are not placed         Ise of step ladders and extension ladders         Ladders n the upper         Utilizing la or object	nics / wrong body position use inspection lash slings attached to hoses worthy vehicle driving under the influence riving negligently peeding t with third party vrized use of vehicle atigue not level and not capable of sustaining the weight exerted on it by and containers are in a poor condition that the weight of the load is	Explosion, Fatalities         Explosion, Fatalities         Burst, injury to people         Fire, injury to people         Possible deaf         Injury to people         Injury to people         Possible deaf         Injury to people         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Damage to property, injuries to people and multiple fatalities         Unbalanced and materials stacked to high could fall onto employees         Employees fall	10           8           8           6           8           10           10           10           10           10           10           10           10           6           6           6           10           10           10           10           10           10           10           10           10           10           8	
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se of step ladders and extension ladders Ladders Ladders at Ladders a Ladders Ladders a stability of Ladders n the upper Utilizing la or object		Loads falling over and falling onto employees, serious injuries and fatalities		
ladders purpose it Ladders a stability of Ladders n the upper Utilizing la or object			10	
ladders purpose it Ladders a stability of Ladders n the upper Utilizing la or object				
stability of Ladders n the upper Utilizing la or object	not constructed of sound material and not suitable for the it is to be used	Serious injuries to people and fatalities	10	
the upper Utilizing la or object	are not lashed, held or secured whilst being used to ensure the of the ladder	Serious injuries to people and fatalities	10	
or object	not fitted with non skid devices at the bottom ends and hooks at er ends	Serious injuries to people and fatalities	8	
Wooden Is	ladders in excess of 9 meters which is leaned against a structure t	Serious injuries to people and fatalities		12
	a ladders are painted, obscuring possible defects and damage	Serious injuries to people and fatalities	8	
inclination	r in excess of 5 meters is set up against a vertical structure with an on to the horizontal level of 75 degrees has its rungs placed less mm away from the structure	Serious injuries to people and fatalities		12
Does not ensure sta	t protrude 900 mm above a landing and is not suitably fixed to stability	Serious injuries to people and fatalities	10	
	collapsing are a result of inadequate design/erection	Fatalities, serious injuries and damage to property		20
, , , , , , , , , , , , , , , , , , ,	ubstandard shoring, bracing and untrained personnel falling from	Fatalities and damage to property		20
	excavation deeper than 1m)			
	d erectors, inspectors. Lack of planning.	Fatalities, serious injuries and damage to property		15
	lamaged and poor quality material	Fatalities, serious injuries and damage to property		15
	inadequate access.	Fatalities, serious injuries and damage to property		15
	ent, material falling from edge	Fatalities, serious injuries and damage to property		16
	ate/ unsafe edge protection ate safety signs and notices	Fatalities, serious injuries and damage to property	10	20
inadequat		Injuries and damage to property	10	

ACTIVITY	HAZARD / SOURCE	HAZARD / SOURCE RISK		ASSESSMENT OF RISK		
	No fall protection plan	Non Conformance. Legal action.	9			
	Personnel falling from heights due to unprotected edges. Unsafe barriers, barricading and edge protection	Fatalities and property damage		16		
		Fatalities and property damage		15		
	Personnel not using safety equipment (Untrained, poor quality, wrong application, negligent, fall arrest equipment, not inspected)	Fatalities and property damage		15		
Welding operations	Operating of welding machinery by untrained personnel	Injury to people, damage to property	6			
		Injury to people, damage to property	8			
		Electrocution, fire, injury to people & damage to property	9			
		Burns, injury to people	10			
	Welding machinery not earthed	Shocks		12		
		Exposure to gases and fumes, exposure to other workers resulting in injuries	9			
	· · ·	Injury to people	6			
		Explosions, deaths, injury to people & excessive damage to property	8			
Use of angle grinders.	Inadequate inspection on grinder.	Damage to equipment, injury to people	10			
Use of angle grindere.		Damage to equipment, injury to people		12		
		Injury to people		12		
		Injury to people		15		
		Injury to people	10			
		Injury to people	10			
		Radiation	9			
		Injury to people	8			
	Sub-standard working conditions - Wet slippery windy dusty work	Injury to people	9			
	Poor lighting.	Injury to people	6			
Contractor interface	No communication	Damage to property, injuries to people and fatalities	6			
oonnaotor mieriaee		Damage to property, injuries to people and fatalities	6			
	No safety documentation submitted for approval prior to work commencing		10			
	Lifting and slewing	Damage to property, injuries to people and fatalities		12		
	Portable electric equipment	Electrocution		12		
	No handover and acceptance documentation in place	Damage to property, injuries to people and fatalities	6			