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# Job Safety and Environmental Analysis (JSEA) / Risk Assessment / Job Hazard Analysis (JHA) Sample Co Ltd

#### Part 1: Project and Task Identification

Client: TotalTrack LLC

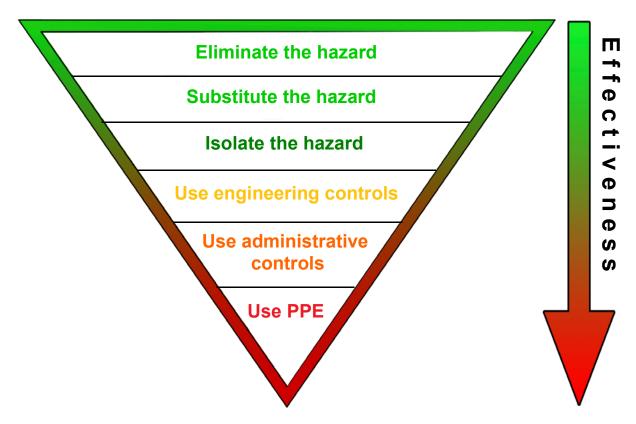
**Process** Initiators of JHAs are responsible for consulting the Project Supervisor, Quality OSH Manager or other persons directly in charge of the work and other personnel involved in the execution of the task (as appropriate) for input into the JHA. Other persons may be consulted for technical advice or review of the JHA to see that proposed measures are effective and workable. The task is to be broken up into steps. For each step, the safety hazards are identified. For each of the hazards identified, corrective action, precautions, equipment are identified to reduce the hazard. All involved in the task must review and sign this JHA form.

Site: ABC Building,	1200 Sample St Colorado Springs C	CO 80921				Job ID: TT982023
Contact Name	Job Title	Phone	Mobile	FAX	Email	
B Safe	Safety Manager		719 555 4444		b.safe@totaltr	ack.com
Will B. Watchin	Supervisor		719 555 5555		will.b.watchin@	②totaltrack.com
Scott LeBlanc	Project Manger	719 309 0380			scott.leblanc@	)totaltrack.com
JHA Initiated By	Ben Workin		Date:	<b>JHA No</b> . 12	<b>Rev:</b> 0	Rev. Date: 8/08/2023
Supervisor Review (Responsible for monito JHA compliance)	ring <b>B Watchin</b>		Date:	Work Location	s/Areas:	
Management Review _	Steady Walker	_	Date:			
Description of Work to be Undertaken:	Excavation and Installation of Dual \	Wall Polypropylen	e storm drainage pi	ipe		

First, identify and assess the risks, then decide the best way to control them by applying the Hierarchy of Control as follows:

LEVEL	CONTROL	DEFINITION
Level 1 Elimination Controlling the Hazard at source		Controlling the Hazard at source
Level 2	Substitution	Replacing one substance or Activity with a less hazardous one
	Isolation	Separating the hazard from the person
	Engineering	Installing Guards on machinery
Level 3	Administration	Implementing policies and procedures for safe work practices
	Personal Protective Equipment	Use of safety glasses, hardhats, protective clothing, etc.

# Hierarchy of Controls



	Job Safety and Environme	ntal Analysis (JSEA) / Risk Assessment		Job Hazard Analysi	s (JHA)	
Step No.	Process Steps List the steps needed to do the job in the sequence to be done.	Potential Hazard(s) / Risk Against each step list potential hazards that could cause injury when the job is done.	Risk Rating	Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.	New Risk Rating	Action By
1	Site Orientation/ Induction					
1.1	Report to client's reception	Entering restricted areas	19	Follow posted signs and go directly to reception	1	All
1.2	Undertake a site induction	Unfamiliarity with emergency procedures	14	Listen and ensure you obtain information and site emergency and evacuation procedures	1	All
		Unawareness of site specific hazards	14	Listen and ensure you obtain information about any and all site hazards	1	All
		Unawareness of restricted areas	18	Listen and ensure you obtain information about any restricted areas	1	All
		Unawareness of other operations or hazardous activities being undertaken on site	9	Listen and ensure you obtain information about any other activities being undertaken on site	5	All
2	Claim Work Area					
2.1	Access the site	Breaching minimum site PPE requirements	13	HI visibility clothing must be worn at all times whilst on site	1	All
				Steel toe safety boots must be worn at all times whilst on site	1	All
				Safety glasses must either be worn or carried at all times whilst on site	1	All
		Breaching site rules or requirements	13	NO SMOKING on site-designated smoking area will be available and ALL butts to be placed in bin	1	All
				Progressive housekeeping clean as you go	1	All
2.2	Establish safe perimeter	People entering work area	21	Controlled by Site Manager	5	Site Manager
				Establish an exclusion zone andhave clearly defined areas to keep pedestrians separate from mobile plant during all mobile plant operations.	2	Site Manager
3	Working where there is moveme	nt of powered mobile plant				
3.1	Enter the work area where powered mobile plant is or will be operating	Being hit or runover by powered mobile plant	22	All team members must wear Hi-Visibility vests or clothing	5	All
				Ensure constant communication with all personnel in the immediate area	5	Everyone working in the area of the plant
				Never assume the plant operator has seen you or knows where you are	5	Everyone working in the area of the plant
				Establish eye contact with the operator	3	Everyone working in the area of the plant
				Communicate your intentions with the plant operator via radio or hand or head signals and ensure an appropriate response	3	Everyone working in the area of the plant

	Job Safety and Environme	ntal Analysis (JSEA) / Risk Assessment		Job Hazard Analysis (JHA)				
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		Crushing	23	Never stand or traverse between the machine and a fixed structure at any time	3	Everyone working in the area of the plant		
				Never assume others have seen or are aware of any impeding obstacle	6	Everyone working in the area of the plant		
		Tripping hazard	12	Be aware of surroundings, risers and set downs	3	All		
4	Safety check and operation of Ex	ccavator for trenching and excavations						
4.1	Safety check of unit. Fill out Pre-trip/	Faulty equipment machine failure	14	Check for dents, cracks and faulty welds	3	Operator		
	Daily Inspection		ļ	Check all hydraulic rams and lines, controls for leaks	3	Driver		
				Check all safety devices	3	Operator		
				Check for leaking Fuids	1	Operator		
				Check tracks for tightness and rollers, idlers, and sprockets for damage	3	Plant Operator		
4.2	Boarding the machine	Falling from Ladder	23	Ensure 3 points of contact	3	All		
4.3	Operating / traveling with or without a load	Injury to people, damage to product or equipment from running into or over	13	Only trained and authorised employees may operate this equipment	3	All		
		Thrown out of cab or against cab interior	13	Always wear seatbelt	1	Plant Operator		
		Personal Injury	20	Allow no one to ride outside of the cab	1	Plant Operator		
				Never use the basket or other attachments as a staging platform for workers	1	Plant Operator		
		Tipping over	19	Be alert for trenches, open cuts, sump holes and pits	2	Driver		
				Keep the machine as level as possible when operating	3	Operator		
		Electrocution	25	Always check for overhead power lines	1	Driver		
4.4	Dig	Digging up underground services	18	Any suspected services should be uncovered by hand digging and clearly marked so as to be visible to plant operators on site	2	Site Supervisor		
				Obtain service location from property owner	3	Supervisor		
				Dial 811 before you dig	3	Site Manager		
		Ground collapse	22	If excavations exceed 5 feet (1.5m) no persons should work in the trench without support	2	All		
				Plant is not to travel up to 3 feet (1m) from edge of trench unless the trench is only 3 feet (1m) deep (zone of influence)	2	Plant Operator		
				All stockpile materials must be "put out of the zone of influence"	3	Operator		
		Environmental - Disturb Cultural Heritage Sites	9	Stop all works if sub-surface archaeological	1	All		

	Job Safety and Environme	ental Analysis (JSEA) / Risk Assessment		Job Hazard Analysis (JHA)				
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				deposits are discovered				
		Environmental - Spreading of Weeds and pests	4	Contain weeds if present for disposal	3	All		
		Environmental - Dust	16	Wet down area in dry dusty conditions	1	All		
4.5	Load the truck	Running over someone	15	Be aware of everyone's location in the work area	5	Plant Operator		
		Dropping material on cab and driver	9	Do not move bucket near cab of truck.	3	Plat Operator		
		Uneven loading may affect control of truck	13	Load truck evenly	5	Plat Operator		
4.6	Backing up	Reversing/ Running over people and equipment and not very good visual	22	Make sure that your back up alarm is working	5	Driver		
5	Working in open trench							
5.1	Gain access to trench via a ladder	Ground collapse	22	Inspect excavation daily for water, ground movement, undermining collapses and any other changes from previous day.	3	All trench workers		
				Ensure all team members have read and understand the Trench and Excavations Incident Emergency Response Procedure	6	Site Manager		
				If excavations exceed 5 feet (1.5m) no persons should work in the trench without support	2	All		
				If excavations exceed 5 feet (1.5m) undertake benching , battering or shoring	2	Site Manager		
		Falling from Ladder	23	Ensure firm ground support	3	Installer		
				Ensure correct slope of ladder (4m up - 1m out)	1	All		
				Do not face away from the ladder when going up or down	6	User		
				Materials or tools must not be carried while climbing the ladder—use a tool belt or side pouch	3	User		
5.2	Working in trench	Restricted entry or exit	22	Provide ladder access points required every 32 feet (10m)	2	All persons working on or in trench		
		Unauthorized access	18	Remove ladder if no one is working in excavation	1	All persons working on or in trench		
6	Dumping/Unloading load on gro	ound using a tip truck/ dump truck						
6.1	Inspect area to accept load	Electrocution	25	Always check for overhead power lines	1	Driver		
		Tipping over	19	Be alert for trenches, open cuts, sump holes and pits	2	Driver		
				Ensure firm ground support	5	Driver		
				Ensure gradient/slope within safe limits	1	Driver		
6.2	Reverse vehicle to position	Reversing/ Running over people and	22	Make sure that your back up alarm is working	5	Driver		

	Job Safety and Environme	ental Analysis (JSEA) / Risk Assessment		Job Hazard Analysis (JHA)				
Step No.	Process Steps List the steps needed to do the job in the sequence to be done.	Potential Hazard(s) / Risk  Against each step list potential hazards that could cause injury when the job is done.	Risk Rating	Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.	New Risk Rating	Action By		
		equipment and not very good visual		Use a spotter when reversing in the vicinity of other people or in congested areas	2	Driver		
6.3	Dump load	Obstructing access or egress	15	Do not block access or egress to site	1	Driver		
				Do not unload in close proximity to other vehicles. Ensure sufficient space between dump sites if several loads being dumped at same time	1	Driver		
		Personal Injury	20	Ensure that you have received training in safe use of the equipment	1	Driver		
				Driver to remain in cab with seatbelt on during unloading	1	Driver		
				Ensure that bottom hinge pin is in place	2	Driver		
				Ensure that tailgate release controls have been activated	1	Driver		
				Tailgate must not be operated when there is a load bearing against it	1	Driver		
				Do not leave cabin with engine running. Turn off and apply park brake before exiting cabin	1	Driver		
				Do not enter the box to clear remaining load. Use long-handled implements to nudge any product from side of box (high side if on slope)	2	Driver		
				Ensure gate is closed and locked before leaving site	3	Driver		
7	Spreading soil with Shovel and	Rake						
7.1	Spread with rake or shovel	Faulty or unsafe hand tools	13	Inspect rake or shovel for defects or damage (e.g., splintered, loose, bent, or cracked tool handles, loose connections, and damaged tines or blade)	3	All		
				If a rake or shovel fails your inspection, remove it from use	3	All		
		Muscle strain - musculoskeletal disorders	13	Do not over reach	3	Operator		
				Use a rake or shovel that is comfortable for your height and strength	3	Operator		
				Do not use a rake or shovel that is too long or heavy for you	3	Operator		
				Never twist your trunk when raking or moving a shovel load. Always turn your feet and body in the direction where you wish to pile leaves or spread or drop the shovel load.	3	All		
				Never overextend your arms or shoulders to load a shovel	3	All		
				Shovel loads should not be thrown above about	3	All		

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Process Steps   Process Steps   District the testing needed to do the pb   District the sequence to be done.   Process Steps   Process Steps   Process Activity Steps   P		Job Safety and Environme	ental Analysis (JSEA) / Risk Assessment		Job Hazard Analysi	s (JHA)	
Injury from using hand tools    Second Procedure of Anal tools   S		List the steps needed to do the job	Against each step list potential hazards that		For each hazard, identify control measures	Risk	Action By
See on the lockut for signs of repetitive stress.   6   All					4 fee or further than about 3 Feet		<del>.</del>
Early detection might prevent a serious injury   When raking, stand upright and use the rake to   3   Operator   Department   Operator   Oper			Injury from using hand tools	13		3	All
Before shoveling, inspect the area for obstructions such as cables and pipes   When shoveling, is showling, inspect the area for obstructions such as cables and pipes   When shoveling, stand upright and bend your   2   Operator knees so your legs carry most of the load   Push the shovel blade into the soil or material to   3   Operator obtain a shovel load   When shovel blade into the soil or material to   3   Operator obtain a shovel load   When shovel blade into the soil or material to   3   All when digging, use the ball of your foot to push   All when digging, use the ball of your foot to push   All when shovel blade into the ground   When raking or shoveling for long periods, vary   6   All your arm and leg positions and movements   Never land of when the showled always be pointing down with the teeth   3   All pointing up - the teeth should always be pointing down with the teeth   3   All   All      Back injury					Early detection might prevent a serious injury	6	All
Second Continue of the Conti					pull leaves or dirt towards you	3	Operator
Rines so your legs carry most of the load   Push the shove blade into the soil or material to   Obtain a shovel load   Push the shove blade into the soil or material to   Obtain a shovel load   Reep your arms and elbows close to your body   3   All   When digging, use the ball of your foot to push   All   When digging, use the ball of your foot to push   Showled load   When raking or shoveling for long periods, vary your arm and leg positions and movements   Never lay a garden rake down with the teeth pointing up - the teeth should always be pointing down   13   Lift the shovel load by straightening your legs   5   All   All   Striking foot   8   Wear gloves   1   All   All   All   Striking foot   8   Wear safety boots   1   All   A						3	Operator
Seep your arms and elbows close to your body when handling a shovel load   Keep your arms and elbows close to your body when handling a shovel load   When digging, use the ball of your foot to push the shovel blade into the ground   When raking or shoveling for long periods, vary your arm and leg positions and movements   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   Never lay   Never					knees so your legs carry most of the load	2	Operator
When finandling a shovel load   When digging, use the ball of your foot to push the shovel blade into the ground   When raking or shoveling for long periods, vary your arm and leg positions and movements   Never lay a garden rake down with the teeth yound your arm and leg positions and movements   Never lay a garden rake down with the teeth pointing up – the teeth should always be pointing down   13   Lift the shovel load by straightening your legs   5   All						3	Operator
the shovel blade into the ground  When raking or shoveling for long periods, vary your arm and leg positions and movements  Never lay a garden rake down with the teeth pointing down  Back injury 13 Lift the shovel load by straightening your legs 5 All hand injury 18 Wear gloves 1 All  Striking foot 8 Wear safety boots 1 All  Bigging up underground services Muscle strain - musculoskeletal disorders  Bigging up underground services  Muscle strain - musculoskeletal disorders  Environmental - Disturbance to Plants or animals - removal of vegitation  Environmental - Dust Environmental - Dust Environmental - Dust Environmental - Spreading of Weeds and pests  8.2 Check gradient and setting level  Moving Machinery  1 Ensure constant communication with co-workers 5 Operator  Wear Hi visibility clothing 1 All						3	All
your arm and leg positions and movements    Never lay a garden rake down with the teeth pointing up - the teeth should always be pointing down    Back injury						3	All
Back injury						6	All
hand injury Striking foot  8 Wear safety boots 1 All  8 Dig/ Clean trenches and setting grade by hand  8.1 Dig into ground with Shovel    Digging up underground services   18   Dial 811 before you dig   3   Site Manager					pointing up – the teeth should always be pointing	3	All
Striking foot 8 Wear safety boots 1 All  8.1 Dig into ground with Shovel    Digging up underground services   18			Back injury	13	Lift the shovel load by straightening your legs	5	All
Body   Clean trenches and setting grade by hand   Dig into ground with Shovel   Digging up underground services   18   Dial 811 before you dig   3   Site Manager			hand injury	18	Wear gloves	1	All
B.1   Dig into ground with Shovel   Digging up underground services   18   Dial 811 before you dig   3   Site Manager			Striking foot	8	Wear safety boots	1	All
Muscle strain - musculoskeletal disorders    13   Do not over reach with shovel   3   Operator	8	Dig/ Clean trenches and setting	g grade by hand				
Stand firmly in braced position before exerting force    Environmental - Disturbance to Plants or animals - removal of vegitation   16   Wet down area in dry dusty conditions   1   All	8.1	Dig into ground with Shovel	Digging up underground services	18	Dial 811 before you dig	3	Site Manager
Environmental - Disturbance to Plants or animals - removal of vegitation  Environmental - Dust  Environmental - Dust  Environmental - Dust  Environmental - Spreading of Weeds and pests  8.2 Check gradient and setting level  Moving Machinery  force  Ensure fragile vegetation is removed carefully for reinstatement  1 All  Contain weeds if present for disposal  3 All  Ensure constant communication with co-workers  Wear Hi visibility clothing  1 All			Muscle strain - musculoskeletal disorders	13	Do not over reach with shovel	3	Operator
animals - removal of vegitation reinstatement  Environmental - Dust 16 Wet down area in dry dusty conditions 1 All  Environmental - Spreading of Weeds and pests  8.2 Check gradient and setting level Moving Machinery 21 Ensure constant communication with co-workers 5 Operator  Wear Hi visibility clothing 1 All						5	Labourer
Environmental - Spreading of Weeds and pests  8.2 Check gradient and setting level  Moving Machinery  21 Ensure constant communication with co-workers 5 Operator  Wear Hi visibility clothing 1 All				17		1	All
8.2 Check gradient and setting level Moving Machinery  21 Ensure constant communication with co-workers 5 Operator  Wear Hi visibility clothing 1 All			Environmental - Dust	16	Wet down area in dry dusty conditions	1	All
Wear Hi visibility clothing 1 All			•	4	Contain weeds if present for disposal	3	All
Wear Hi visibility clothing 1 All	8.2	Check gradient and setting level	Moving Machinery	21	Ensure constant communication with co-workers	5	Operator
Falling into trench 13 Be aware of loose edges 2 All					Wear Hi visibility clothing	1	All
			Falling into trench	13	Be aware of loose edges	2	All

	Job Safety and Environm	ental Analysis (JSEA) / Risk Assessment		Job Hazard Analysi	s (JHA)	1
Step No.	Process Steps List the steps needed to do the job in the sequence to be done.	Potential Hazard(s) / Risk  Against each step list potential hazards that could cause injury when the job is done.	Risk Rating	Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.	New Risk Rating	Action By
				An additional JHA must be developed for shaft or trench with an excavated depth of greater than 5 feet	5	Site Manager
		Incorrect installation procedure	20	All pipe systems must be installed in accordance with ASTM D2321 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications	1	Installer
9	Acceptance of delivery to site for	or pipe and fittings				
9.1	Establish area to accept delivery	Other trades and or persons wanting to use area	11	Communicate with other site personnel to establish availability of area	2	All
		Uncontrolled movement	22	Choose flat areas for pipe storage with safe vehicle access and ensure that it is possible to safely unload the pipes and fittings	2	Site Manager
9.2	Direct vehicle to appropriate area	Running into objects and or persons	13	Place "spotter" to watch path of truck	3	Site Supervisor
9.3	Untie load	Load tipping or falling	12	Release straps slowly to ensure load does not move	3	Driver
9.4	Unloading	People entering work area	21	Establish an exclusion zone and have clearly defined areas to keep pedestrians separate from mobile plant during all operations	2	Site Manager
		Damage to product	13	Sockets should be protected from distortion during storage by ensuring all the sockets are placed at alternate ends and raised clear from ground and each other.	1	Person accepting the load
10	Lift pipes/ members into trench	using an excavator				
10.1	Sling the Member	member may slide from slings	13	Ensure the sling is firmly choked around the member	5	Installer
10.2	Lift member to desired location	Objects / other trades obstructing lifting path	17	Prior to lifting ensure no other objects/ trades are in the lifting path, do visual checks	3	Installer
		Uncontrolled load movement	24	Keep load as low as possible, just able to clear obstacles	3	Lifting Crew
				Conduct a trial lift	2	Lifting Crew
				Ensure all equipment is in good working order prior to all lifts being performed	3	Lifting Crew
				Position hook/lifting assembly over load to prevent load swinging on take off	2	Lifting Crew
		Rigging equipment failure	22	Ensure equipment is inspected before use, tagged and in date	3	Rigger
				Rigger to ensure attachments points are adequate for job	3	Rigger

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	Job Safety and Environme	ntal Analysis (JSEA) / Risk Assessment		Job Hazard Analysis (JHA)			
itep No.	Process Steps List the steps needed to do the job in the sequence to be done.	Potential Hazard(s) / Risk Against each step list potential hazards that could cause injury when the job is done.	Risk Rating	Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.	New Risk Rating	Action By	
				Ensure the weight of the load does not exceed the Safe Work Load (SWL) of the lifting jib	1	Operator	
).3	Unsling Member	Uncontrolled load movement	24	Ensure load is secure and stable prior to unsliging load	3	Lifting Crew	
1	Jointing of Polypropylene storm	drainage pipe					
1.1	Clean the pipe socket and spigot grooves, making sure both are free of soil and foreign material.	System failure from incorrect fitment	18	Ensure all surfaces are free of soil and foreign material	1	Installer	
1.2	Clean the rubber ring seal and ensure the ring is free from any soil and foreign matter. Install the rubber ring by stretching it over the spigot in the second trough from the end of the pipe.	System failure from incorrect fitment	18	Ensure the rubber ring sits evenly inside the trough by running your hands and fingers around its full circumference.	1	Installer	
1.3	Apply pipe jointing lubricant liberally to the insideof the socket and lead-in flare	Skin irritation	7	Refer to manufacturers Safety Data Sheet (SDS) prior to commencement	1	All	
1.4	Insert the leading edge of the spigot into the socket mouth.	System failure from incorrect fitment	18	It is essential that pipes are aligned in a straight line before attempting to make the joint.	1	Installer	
1.5	Push the pipes together applying force evenly on a timber-bridging	Muscle strain - musculoskeletal disorders	13	Stand firmly in braced position before exerting force	5	Installer	
	piece protecting the end of the pipe using a crowbar.	Pinch point injury	14	Ensure hands are well clear	2	Installer	
12	Back Fill trench using excavator	with sand and rubble					
2.1	Boarding the machine	Falling from Ladder	23	Ensure 3 points of contact	3	All	
2.2	Operating / traveling with or without a load	Injury to people, damage to product or equipment from running into or over	13	Only trained and authorised employees may operate this equipment	3	All	
		Thrown out of cab or against cab interior	13	Always wear seatbelt	1	Plat Operator	
		Personal Injury	20	Allow no one to ride outside of the cab	1	Plant Operator	
				Never use the basket or other attachments as a staging platform for workers	1	Plant Operator	
		Tipping over	19	Be alert for trenches, open cuts, sump holes and pits	2	Driver	
				Keep the machine as level as possible when operating	3	Operator	
		Electrocution	25	Always check for overhead power lines	1	Driver	
2.3	Fill the trench	Running over someone	15	Be aware of everyone's location in the work area	5	Plant Operator	
				Stop work immediately if the exclusion zone has been breached	5	Plant Operator	

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		Crushing	23	Check for services (tap stands, stormwater pipes etc)	1	All		
				Ensure rocks and sharp objects are not in contact with pipes	2	Plant Operator		
		Digging up underground services	18	Ensure warnng tape is placed in the trench when it is halfway back filled	2	Plant Operator		
2.4	Backing up	Reversing/ Running over people and equipment and not very good visual	22	Make sure that your back up alarm is working	5	Driver		
13	Compact area using a gasoline	powered leg rammer						
3.1	Carry the machine to the work area	Muscle strain - musculoskeletal disorders	13	Ensure correct manual handling procedures	3	Installer		
				Ensure adequate personnel is utilised to distribute the load	3	All		
13.2	Perform prestart inspection	Faulty equipment machine failure	14	Check for dents, cracks and faulty welds	3	Operator		
				Check and top up fuel levels	1	Operator		
				Check all hoses for cracks and leaks	1	Operator		
				Check for leaking Fuids	1	Operator		
				Check oil levels	1	Operator		
				Do not operate unit that has faulty parts or equipment. If a problem is found, contact supervisor to initiate repairs of any damage or abnormalities	2	Operator		
3.3	Start the machine	Inhalation of toxic and noxious fumes	25	Ensure adequate ventilation	1	All		
				Never start the machine indoors. Exhaust fumes can be dangerous if inhaled.	1	Operator		
		Damage to machinery and personal injury from incorrect operation	21	The operator must have received instruction and training in the safe operation of the equipment	1	Operator		
		Hearing damage	18	Use correct PPE - Ear Muffs / Ear Plugs	2	Operator		
3.4	Operate the machine	Runaway machinery	13	Do not let go of the handle	1	Operator		
		Striking foot	8	Wear safety boots	1	All		
		Vibration	13	Do not exceed the maximum hours of daily exposure as per the manufacturers recommendations	1	Operator		
14	Monitoring and review of JHA							
14.1	Monitor the JHA	Ineffective JHA	13	Review the JHA at a minimum of 3 monthly intervals	2	Supervisor		
				Monitor and complete an inspection of a minimum of 2 task observations	3	Supervisor		

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	JHA Failure		18	Stop Work	1	All	
				In conjunction with workers and all involved, review and formulate a new JHA	1	Supervisor	
				Implement new controls	1	All	
				Conduct a toolbox meeting with all personnel involved with work activity	1	Supervisor	

Job Safety and Environmental Analysis (JSEA) / Risk Assessment			Job Hazard Analysis (JHA)			
Step No.	Process Steps List the steps needed to do the job in the sequence to be done.	Potential Hazard(s) / Risk  Against each step list potential hazards that could cause injury when the job is done.	Risk Rating	Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.	New Risk Rating	Action By

Reference and Detail Applicable Sections of:

Personal Qualifications and Experience Required To Carry Out the Works:	Duties and Responsibilities of Personnel Completing the Task:	Formal or Specialized Training or Licenses Required to Complete Work or Operate Specific Plant or Equipment:	
Plant Operator	Maintain adequate house-keeping on site	Commercial Drivers License	
The ability to work unsupervised and part of a team Plumber	Reporting of any injuries / incidents to your Project Supervisor	Training and Competency in the Safe Operating Procedure of the selected power tools	
	Take reasonable care for your own health and safety	Heavy Equipment Training	
	Take reasonable care for the health and safety of others		
	Comply with any reasonable instruction by the employer		
	Cooperate with any reasonable policies and procedures of the employer		
	Operate safely and perform daily pre-shift inspections		
	Adherence to company's and the site's OSH policies and procedures		

#### JHA Sign Off - Your signature below indicates that you have been consulted in development of the JHA and accept and will implement the requirements of the JHA and control measures Classification **Signature** Date No. Name **Employed By** Sample Co Ltd Ben Workin Journeyman Plant Operator Dirt Dog Sample Co Ltd Will Shoveler Sample Co Ltd Laborer De Plumador Plumber Go with the Flow Plumbing Dump Truck Driver **Humpty Dumpty** Dumper Of The Day LLC 6 7 8 9 10 11

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✓ Site WHS

✓ Manufacturer Or Supplier Recommendations

✓ Legislation ✓ Codes Of Practice ☐ Project WHS

### ANSI/ASSP A10.12-1998 Safety Requirements For Excavation

ASTM D2321 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

Code of Federal Regulations (CFR): 1926 For Construction Subpart C - General Safety and Health Provisions

Occupational Safety and Health Regulation under the US Occupational Safety and Health Act of 1970

Plant and Equipment to be used for task:	Plant, Equipment and Area Safety Inspections:
Warning signs and bunting as required	Excavator Pre Operational Checks
Excavator	Gasoline Powered Tools Pre- Operational Checks
Ladder	Hand Tools Pre Operation Check
Shovel and Rake	Hand Tools Pre- Operational Checks
Rigging slings and chains	Rigging slings and chains Pre Operational checks
Hand Tools	
Tip Truck/ Dump Truck	
Gasoline powered Leg Rammer	

# PPE Requirements for Task: Sample Co Ltd



**Eye Protection** 



Gloves



Hard Hats



**Hearing Protection** 



Hi Visibility Vests or Clothing



**JSEAsy** 

Safety Boots

FREQUENCY	RISK MATRIX						
Almost certain	MODERATE 11	ні <b>G</b> Н <b>16</b>	EXTREME 20	EXTREME 23	EXTREME 25		
Likely	MODERATE 7	ні <b></b> 12	ні <b>б</b> н <b>17</b>	EXTREME 21	EXTREME 24		
Occasionally	LOW 4	MODERATE 8	ні <b>G</b> Н 13	ні <b>G</b> н <b>18</b>	EXTREME 22		
Unlikely	LOW 2	LOW 5	MODERATE 9	HIGH 14	ні <b>G</b> н <b>19</b>		
Rare	LOW 1	LOW 3	LOW 6	MODERATE 10	ні <b>G</b> Н 15		
CONSEQUENCE							
Safety	Minor	Medical	LTI	PTD	Fatality		
Environmental	Minor	Negligible	Marginal	Critical	Catastrophe		
	Low	Low Moderate Hig		gh	Extreme		

## **Acronyms and Abbreviations:**

LTI - Lost Time Injury

PPE - Personal Protection Equipment

PTD - Permanent and Total Disability