


Job Title:		Concrete Coring		Operations Approval (Name; Position):	
JHA Developed By (Name; Position):				Austin Lee, Project Manager	
JHA Revised By (Name; Position):				HSE Approval (Name; Position):	
JHA Revision Date:		June 3 2022		Dean Neuburger; Director, OHS&E	
Job Steps		Potential Hazards	Risk Rating (Before Controls)	Hazard Controls	Risk Rating (After Controls)
1	Tool Selection	1.Unintended Use selecting the wrong tool for the job	C4	1. Read and understand the manufacturer's user manual. Select the correct tool and use the tool in the way it was intended to be used by the manufacture, ask for assistance if needed. Do not use the tool if you do not know how to operate it safely. Watch hand and body placement. Stretch and flex before starting task.	C5
2	Inspecting Core Machine	1.Cuts/Lacerations/Punctures from disabled or missing safety devices 2.Defective tool use follow the appropriate tag/lockout procedures to remove a defective tool from use 3.Musculoskeletal Injuries from lifting the tool incorrectly 4.Crush Injury from dropping the tool 5.Pinch Points from dropping the tool or rolling the tool over your fingers	C3	1. Inspect the tool before you pick it up and check for sharp edges, wear CR gloves and watch hand placement. 2. Ensure the tool is disconnected from the power source before you inspect the tool. 3. Tag/lockout unsafe tools or ones that need maintenance and report them to your supervisor. Never use a tool that is missing a safety device or is damaged. 4. Always pick up or hold the tool with both hands while inspecting and inspect the tool on a stable surface, away from an edge. 5. Keep your hands out of the line of fire; do not roll the tool over your hands. Wear all site-specific PPE	C5
3	Using Coring Machine	1. MSI from the tool jamming in the material, kicking back, not carrying the tool properly or carrying too many tools at once, jams from dull blades or bits. 2. Slips/Trips/Falls from ice and/or snow, uneven ground, ruts, tools and debris on ground. 3. Cuts/Lacerations/Punctures from exposed bits, metal, contact with materials, inattention, or distraction. 4. Amputations from improper tool use. 5. Struck by material not secured properly, tool jamming in material, falling material when cut 6. Eye injuries from flying debris 7. Hearing Loss from high levels of noise	B2	1. Ensure you are properly trained and authorized to operate the tool. Ask your supervisor if you have questions and do not use a tool if you do not know how to operate it safely. Sign out the tool before you remove it from the tool crib. Ensure the tool is equipped with blades and drill bits that are sharp and in good condition. Keep proper hand placement and posture/body position. 2. Watch your footing, wear work boots that are in good condition, clean as you go and always keep your work area free of debris, material and tools. 3. Keep your hands away from sharp edges and blades, always wear CR gloves, check the material for sharp exposed edges; remove as required. Stay focused on the task at hand so as to not get distracted.	D4

		<p>8. Electrocution from faulty tools, wet and outdoor use.</p> <p>9. Caught in moving parts from jewelry, loose clothing or long hair</p> <p>10. Silica Dust</p>		<p>4. Only use the tool as per the manufacturer's instructions. Ask your supervisor if you have questions and do not use a tool if you do not know how to operate it safely.</p> <p>5. Keep your hands out of the line of fire, ensure the material is secured before cutting, clamp material when drilling, hang onto the tool correctly to prevent kick-back, keep the material from pinching against the tool, prevent the cut material from falling, communicate with other workers in the area of possible falling material and use a spotter if required to create a safe zone.</p> <p>6. A face shield or safety glasses must be worn at all times</p> <p>7. Wear hearing protection to prevent hearing loss.</p> <p>8. Disconnect the tool from the power source when not in use or when unattended and always use GFI outlets. Ensure electrical cords are not sitting in water.</p> <p>9. Do not wear any jewelry or loose clothing when operating tool and ensure long hair is tied back</p> <p>10. Water is to be used to reduce or eliminate airborne ca dusts.</p>		
4	Performing Maintenance, Adjustments or Repairs	<p>1. Unauthorized personnel completing tool maintenance</p> <p>2. Cuts and/or Punctures from disabled or missing safety devices.</p> <p>3. Defective tool use follow the appropriate tag/lockout procedures to remove a defective tool from use</p> <p>3. Musculoskeletal Injuries from lifting the tool incorrectly</p> <p>4. Crush Injury from dropping the tool</p> <p>5. Pinch Points from dropping the tool or rolling the tool over your fingers</p>	C3	<p>1. Only competent, qualified, and authorized workers can repair tools. Ensure the tool is disconnected from its power source before beginning any maintenance.</p> <p>2. Inspect the tool before you pick it up and check for sharp edges, wear CR gloves and watch hand placement.</p> <p>3. Ensure the tool is disconnected from its power source, fill out and attach the "remove from service" tag to the tool. Place the tool in the appropriate location so the repairs can be completed.</p> <p>4. Always pick up or hold the tool with both hands while inspecting and inspect the tool on a stable surface, away from an edge.</p> <p>5. Keep your hands out of the line of fire; do not roll the tool over your hands. Wear all site-specific PPE.</p>	C5	
Highest Task Risk Rating			B2 (High)	Highest Task Risk Rating		D4 (Low)

Safety Guidelines Required For task									
Process		PPE		Health		Training		Environment	Security
<input type="checkbox"/>	Pre Job Hazard Analysis	<input type="checkbox"/>	Arc flash coveralls	<input type="checkbox"/>	Yak tracks - Cleats	<input type="checkbox"/>	Nitrile glove	<input type="checkbox"/>	Working Alone
<input checked="" type="checkbox"/>	FLRA	<input type="checkbox"/>	Disposable coveralls	<input type="checkbox"/>	Goggles	<input type="checkbox"/>	Hand Washing	<input type="checkbox"/>	Daylight time only
<input checked="" type="checkbox"/>	JHA review	<input checked="" type="checkbox"/>	Ear plugs	<input type="checkbox"/>	Face shield	<input type="checkbox"/>	Ergonomics	<input type="checkbox"/>	Guards & barriers
<input type="checkbox"/>	Signage (Safety/Wet Floor)	<input type="checkbox"/>	Ear muffs	<input checked="" type="checkbox"/>	Cut gloves	<input type="checkbox"/>	Other	<input type="checkbox"/>	Journey Mgt.
<input type="checkbox"/>	Spotter	<input checked="" type="checkbox"/>	Hard hat	<input type="checkbox"/>	Chain-mail gloves	<input type="checkbox"/>		<input type="checkbox"/>	Buddy system
<input type="checkbox"/>	LOTO	<input type="checkbox"/>	Harness	<input type="checkbox"/>	Leather gloves	<input type="checkbox"/>		<input type="checkbox"/>	Radio contact
<input type="checkbox"/>	PTW (Permit to Work)	<input type="checkbox"/>	Lanyard	<input type="checkbox"/>	½ Respiratory mask	<input type="checkbox"/>		<input type="checkbox"/>	ERP contact list
<input type="checkbox"/>	Toolbox	<input type="checkbox"/>	Life line	<input type="checkbox"/>	Other	<input type="checkbox"/>		<input type="checkbox"/>	Other
<input type="checkbox"/>	Ventilation	<input type="checkbox"/>	Knee pads	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	SDS review	<input type="checkbox"/>	Sealed eyewear	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	Fall Protection Plan	<input type="checkbox"/>	Steel toed boots	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Barricades	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	Temp logs and verification	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	Other	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Probability	Severity						
		Catastrophic Death or multiple life-threatening principals	Major Life threatening injury or multiple serious injuries causing hospitalization	Moderate Significant serious injury Non-permanent injury	Minor Medical Help needed, Treatment by medical professional	Insignificant Injuries or ailments not requiring medical treatment	
		1	2	3	4	5	
	A	Almost Certain: Almost certain to occur in most circumstances	1	1	1	2	2
	B	Likely: Likely to occur frequently	1	1	2	2	2
	C	Possible: Possible and likely to occur at some time	1	2	2	2	3
	D	Remotely Possible: May occur in rare and exceptional circumstances	2	2	2	3	3



HSE Safety Management System

Job Hazard Analysis

[illegible][illegible]