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JHA		JHA Contrib	utors (mini	imum team o	of two)						
JHA No: 203	1.	Dave Penney	4.						Consequen	ce	
Revision No: V3	2.	Corey Penney	5.			Likelihood	Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
Date: Feb 2018	3.		6.			A (Almost Certain)	11	16	20	23	25
Review Date: On Site Review Requ Reviewed By:	uired		, ,			B (Likely)	7	12	17	21	24
Spec	ific	Permits & SO	Ps Require	d		(Likely)					
Hot Work		Cor	ntainment of Slu	ırry		C (Possible)	4	8	13	18	22
Working at Height		Geo	othermal Wells			D (Unlikely)	2	5	9	14	19
Excavation / Trenching		Cor	nfined Drill Spac	ce	V	E (Rare)	1	3	6	10	15
Equipment Isolation		Uns	stable Ground		V	Low	Me	edium	Higl	n	Extreme
Overhead power lines		<b>▽</b> Oth	ner			Reviewed at Pre	at Pre-Shift Meeting (where required):				
Client Permit to Work required:	Yes	□ No □	Other permi	its required (tick p	age 2)						
Prepared by:	Dave	Penney									
Trepared by.			Print Nam	ne			Signature			Date	
Work Order / Job No:			Plant No:				Plant Nam	e: Morool	ka		



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	HAZARD CHECK SHEET									
Substance ✓		Situation 🔽		Energy ~		Other Specific to Task				
Chemicals & Solvents		Confined Space	~	Biological						
Gasses, Fumes & Vapours		Manual Handling	~	Electrical						
Asbestos/Fibreglass		Materials Storage	~	Kinetic						
Flammable Materials		Working over Water		Mobile Equipment	~					
Process Materials		Working at Heights		Noise / Vibration	~					
Oils & Grease	~	Working Below/Above Level		Radiation						
Hydraulics	~	Moving / Mobile Equipment	<b>V</b>	Chemical						
Dust	~	Guarding	~	Gravitational						
Inhalation of gasses/fumes		Falling Objects		Mechanical	~					
Fuel Oil	~	Lighting		Muscular	~					
Diesel/Petrol	•	Adjacent Workers	~	Pressure Stored Energy	~					
Glue/Adhesive		Projectiles / Incorrect tools	~	Thermal						
		Slipping / Tripping	<b>V</b>	Blasting/ Mining						
		Struck By / Against	~	Heat / Furnace						
		Caught By / Between	~	Water / Ocean						



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Act No	Job Steps	Hazards Identified	Initial Risk Ranking	Systems, Checks and Controls Required	Inherent Risk Ranking
1.	Loading and unloading	<ul> <li>Unsecured ramps causing rig to become unstable during loading and unloading.</li> <li>Manual handling of ramps into position causing musculoskeletal injury.</li> </ul>	High	<ul> <li>Ramps purpose built to lock into position on transport truck.</li> <li>Ramps manually secured in place testing stability of ramps prior to unloading or loading.</li> <li>Checks to ensure ground is stable at point of unloading / loading.</li> <li>Awareness of body position and movement while handling ramp into position.</li> <li>Maintain safe distance if operating remote.</li> </ul>	Medium 9
2.	Site set up	Pedestrian, traffic and site access acute injuries and equipment damage through vehicle impact	High	<ul> <li>Formal procedure for Rigging Up and Drilling in place as per SOP-100 Rigging Up and Drilling Operations Procedure.</li> <li>Job Commencement JHA – Ensures site specific hazards are identified and controlled, including drill site set up to ensure all drill and ancillary equipment are positioned in stable and safe manner.</li> <li>Set out cones, signs and barriers around working area and vehicles, high visibility clothing to be worn and awareness of surroundings and any associated site specific hazards to be addressed.</li> </ul>	Medium 9
3.	Rig and ancillary equipment set up and stability	Uncontrolled movement of equipment causing equipment damage and acute injuries such as crushing, bruising or fracture	Extreme	<ul> <li>Level rig with stabilizing jacks and ensure the ground is level.</li> <li>Use timber blocks if requirement to make the rig stable.</li> </ul>	High 14
4.	Location of Services	Striking overhead or underground obstruction i.e. powerlines, gas pipes, water, services	Extreme	<ul> <li>Services must be located by services plans and scanner. Services must be clearly marked with high visibility paint.</li> <li>The works "Site Specific Plan" details responsible persons for underground service identification and clearance.</li> <li>Underground service plan made available on site.</li> <li>Drill rigs must be a minimum of 4 metres away from any overhead lines unless there is a written consent and close approach permit.</li> <li>SOP-101 Underground Services Identification Procedure</li> </ul>	High 14



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5.	Start up and set up	Uncontrolled movement or instability of rig causing injury or equipment damage	High	<ul> <li>Pre-Start Equipment Checks – ensures all operational parameters of rig are functioning and in safe order</li> <li>Checks on hoses, fittings, safety devices, guards, pressure levels are completed and documented prior to operations.</li> </ul>	Medium 9
6.	General Operations -	Environmental spills drill cuttings     Hydrocarbon spills	High	<ul> <li>Pre-start equipment checks include checks of hoses and fittings.</li> <li>Spill kits are supplied on all rigs and are checked monthly to ensure they are fully stocked with adsorbents.</li> <li>Re-fuel at yard where possible.</li> <li>Registered vacuum carriers for hydrocarbon.</li> <li>vacuum unit available for containment.</li> </ul>	High 13
7.	General Operations – Entanglement in rotating equipment	Entanglement of part of body or clothing in rotating equipment causing serious injury	High	<ul> <li>Procedures in place to ensure operator maintains ½ metre clearance from rotators.</li> <li>Standard PPE issue – no loose clothing.</li> <li>Long hair to be restrained.</li> <li>Clear drill site to prevent trips or slips.</li> <li>Limit access to drill site.</li> <li>Drill set up to reduces access to rotating rods.</li> </ul>	Medium 9
8.	General Operations – Walking around drill site.	Slips trips and falls	High	<ul> <li>Daily site inspection and documented log of hazards.</li> <li>Work areas to be kept clean and tidy all tools or equipment no longer being used to be put away.</li> <li>PPE Requirements – use of steel capped boots with good grip and ankle support.</li> <li>Job commencement JHA to consider drill site ground conditions and eliminate risks</li> </ul>	High 13
9.	General Operations – Drill Site	Fire risk	Medium	<ul> <li>Equipment preventative maintenance, servicing and licencing systems in place</li> <li>Pre-start equipment checks ensure fire extinguishers are in place and charged, in addition to checking for any ignition sources remaining on equipment or at drill site</li> <li>Pre-start JHA to include site clearance of debris or long grass that could be ignited by equipment operations,</li> </ul>	Low 5



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				exhaustions or other ignition sources generated from operations.	
10.	General Operations – Drill Site	Exposure to airborne contaminants	Low	<ul> <li>Pre-start JHAs to consider any potential contaminants that could be present in material that have potential to become airborne.</li> <li>Appropriate PPE to be applied where respiratory contaminants are identified.</li> </ul>	Low 5
11.	Vehicle Collision	Public vehicles or other site vehicle collision	Extreme	<ul> <li>Traffic control Plans in place for public roads, 1,2,3.</li> <li>Site specific inductions when operating on constructions site.</li> <li>Site specific plans to address radio controls, traffic movement.</li> </ul>	High 14
12.	Excessive Noise	Work Induced Hearing Loss	Extreme	<ul> <li>Supplied hearing protection including ear plugs and ear muffs.</li> <li>Induction requirements to wear hearing protection.</li> <li>Noise testing of rigs</li> <li>Consider surveillance testing of exposed workers.</li> </ul>	High 13
Additi	onal Site Specific Hazard A	assessment and Risk Controls to be	listed here a	at Job Start up by the on-site Drill Crew	
13.		•		•	
14.		•		•	

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AS/NZ4801 – 4.3.1, 4.4.6.1 & ISO14001 4.3.1

Signature to this JHA verifies that you have reviewed the work area for task job steps, have read and understand the risk/hazards and system, checks and control actions associated with the task, accept and will follow through with the system as outlined in all risk/hazard job steps and will follow up with further reviews through the JHA as job progresses with new job steps that have not been risk assessed.

Na	me	Signature	Date
Approved Dv			
Approved By:	Supervisor	Signature	Date

Review comments:	Is a detailed procedure required for this task?					Revision Details			
This JHA is an active document, that is reviewed by the Drill Crew at the start of each job where the Morooka is in	Yes		No	<b>V</b>	Rev	Date	Ву	Initial	
operation.	By Whom?								
	By When?								

The completed JHA remains on the rig for the duration of the works and is then submitted to records management system for filing and future audit.