

JOB SAFETY ANALYSIS (JSA)

Hazard identification and management of processes that are new, changed, or out of the normal SOP scope



JSA Name: *Dismantle and Removal of Playground at Arthur Crescent, Taupo*

- Scope of Works:
1. Establish construction site
 2. Dismantle playground equipment and external seat
 3. Extract and removal of concrete foundations
 4. Removal of bark cushioning surface

Equipment: *Power tools – grinder / cutting blades*
Jack hammer
Generator
Excavator and Rigging Equipment
Isuzu Flat deck truck

Date: 13/09/2017

JSA TEAM NAMES	
L. Smith	Foreman
R. Jones	Digger Operator
P. Brown	Jack Hammer Operator
J. Thomas	Labourer
M. Peters	Health & Safety Representative

TASK DESCRIPTION

Dismantle and Removal of Playground Equipment

Assessment Matrix on last page

STEP#	STEP DESCRIPTION	POTENTIAL RISK	RAW RISK SCORE*	CONTROL MEASURES	RESIDUAL RISK SCORE*	BY WHOM
1	PLANNING- establish construction site	1. Underground Services 2. Public Access	High	1.Contact Dial before you Dig 2. Temporary Fencing erected Residential Notification-mail drop off. Public Notification –local paper	Medium	Foreman Admin
2	SET-UP - remove wooden fence lateral post to allow vehicle access to playground	Exposed Nails (Minimize manual handling of equipment)	Medium	Flatten any upright nails and associated sharp hazards	Medium	Foreman
3	Set Up generator	1. Fuel spill 2. Noise	Medium	1. Use designated 5L fuel containers/ spill mats Fuel stored on Isuzu deck 2. Ear muffs to be worn when generator is operating	Medium	All
4	Power Tools / leads	1. Electrocution 2. Laceration	High	1.Tag and test dates within 6 months 2. RCD's in place 3. guards have not been removed	Medium	Foreman
5	Systematically dismantle playground equipment with power tools and manual tools	1.Cuts and abrasions 2. Noise 3. Manual handling	Medium	1. PPE- gloves 2. PPE –Hearing protection 3. mechanical assistance or 2 person lifts	Medium	All

STEP#	STEP DESCRIPTION	POTENTIAL RISK	RAW RISK SCORE*	CONTROL MEASURES	RESIDUAL RISK SCORE*	BY WHOM
6	Use of Excavator to uplift concrete foundations	<ol style="list-style-type: none"> 1. Malfunction of Excavator 2. Incompetent operator 3. Strops breaking or not holding load 4. Caught between plant and excavator 		<ol style="list-style-type: none"> 1. Maintenance checks 2. Only competent and trained Operator 3. strops in good conditions –no tears and weight assessed for load 4. good line of sight with all workers and Communication 5. Situational awareness 		Digger Operator
7	Break Concrete up with Jack Hammer to manageable weights	<ol style="list-style-type: none"> 1. Electrocutation 2. Noise 3. Silica Dust 		<ol style="list-style-type: none"> 1. Tag and test date checked RCD in place 2. Hearing Protection 3. Dust Masts MUST be worn 		Jack Hammer Operator
8	Load Isuzu Flat deck	Weight exceeds Isuzu safe work load limit – 4 Tonne		1 x cube of concrete =2.46 Tonne DO NOT exceed 1.5 cubic metres of concrete per load – visual		Digger Operator
9	Tie down loads	Unsecure or unstable load		Use appropriate ratchet tie downs – check that are in good condition with no frays or damages		Labourer
10	Removal of Cushion fall Bark	Airborne Dust		Use Masks and eye protection		All
11	Remove external park seat	Holes left in ground – trip hazard		Fill in holes and compact		Labourer
12	Complete housekeeping check for handover to contractors	Holes and uneven surfaces Sharp objects /rubbish		Grade ground surfaces Ensure all bolts nails and rubbish is removed.		Digger Operator All

RISK ASSESSMENT MATRIX

		Consequences				
		Insignificant (1) No injuries / minimal financial loss	Minor (2) First aid treatment / medium financial loss	Moderate (3) Medical treatment / high financial loss	Major (4) Hospitalable / large financial loss	Catastrophic (5) Death / massive financial loss
Likelihood	Almost Certain (5) Often occurs / once a week	Moderate (5)	High (10)	High (15)	Catastrophic (20)	Catastrophic (25)
	Likely (4) Could easily happen / once a month	Moderate (4)	Moderate (8)	High (12)	Catastrophic (16)	Catastrophic (20)
	Possible (3) Could happen or known it to happen / once a year	Low (3)	Moderate (6)	Moderate (9)	High (12)	High (15)
	Unlikely (2) Hasn't happened yet but could / once every 10 years	Low (2)	Moderate (4)	Moderate (6)	Moderate (8)	High (10)
	Rare (1) Conceivable but only on extreme circumstances / once in 100 years	Low (1)	Low (2)	Low (3)	Moderate (4)	Moderate (5)

JSA APPROVER:

Name: M Peters

Position: Health and Safety Representative _____

Signature: _____ Date: 13/09/2017

I have read, understand and agree to the procedure and controls documented.

PERSON(S) PERFORMING THE WORK:	DATE:
<i>Each person involved in the task to sign off</i>	

NOTES

Any changes in the steps or additional hazards that become apparent during the work – Hold an informal meeting with the workers and discuss what controls need to be implemented and document in these notes.

For example – Wash out occurred on day 3 of task due to heavy down pour of rain causing exposed soil to leave construction site and flow down onto reserve

Add step # between Step 6 &7

Potential risk– Loss of containment – soil running off construction site
Controls Create bund or install sediment silt fence
Whom Site Foreman

DIAGRAMS

