

1. PURPOSE

The purpose of the SWI is to provide a safe system of work for carrying out the ***operation of the iron ore washdown pad and sump***. The sump is used for washdown of vacuum trucks and Front-End loaders of the contracted operators in the iron ore circuit.

2. FATAL 5 RISK / ENVIRONMENTAL

2.1 Select the applicable Fatal 5 risk (s)









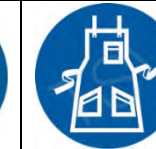



	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Fall from height		Stored Energy		Collision		Asphyxiation		Entanglement	

2.2 Environmental and Hygiene Considerations

<input checked="" type="checkbox"/> Environmental Spills	<input type="checkbox"/> Air Pollution (incl. dust)	<input type="checkbox"/> Noise Pollution	<input type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Bio Security (Pests/Weeds)	<input type="checkbox"/> Flora & Fauna
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3. PLANNING

3.1 Specialised PPE Required

											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goggles	Double Eye Protection	Welding Mask	Face Mask	Respirator	Gas Detector	Gloves	Hearing Protection	Apron	PFD	Fall Protection	

3.2 Permits Required

<input type="checkbox"/> Working at Heights	<input type="checkbox"/> Confined Space	<input type="checkbox"/> Hot Work	<input type="checkbox"/> Excavation	<input type="checkbox"/> Penetration	<input type="checkbox"/> Rail Corridor	<input type="checkbox"/>
<input type="checkbox"/> Isolation Guide #	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.3 Tools, Plant and Equipment Required

Inspection Completed?

Vacuum truck	Yes <input type="checkbox"/>	N/A <input type="checkbox"/>
Sump located at the west end of Shed 3	Yes <input type="checkbox"/>	N/A <input type="checkbox"/>
High pressure water hose	Yes <input type="checkbox"/>	N/A <input type="checkbox"/>
Electrical supply	Yes <input type="checkbox"/>	N/A <input type="checkbox"/>

3.4 Hazardous Chemicals Required

Safety Data Sheet

N/A	Attached <input type="checkbox"/>
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3.5 Training and Competencies Required


Competency

	Held <input type="checkbox"/>
	Held <input type="checkbox"/>
	Held <input type="checkbox"/>

4. PROCEDURE

4.1 Job Steps


Circle which step numbers are relevant to the current task. **Strike out** steps which do not apply.

PREPARATION (Access, egress, barricades etc.)			Risk Level
0.1	<p>Familiarise yourself with the purpose, location, and function of the iron ore sump.</p> <p>Familiarise yourself with site emergency procedures and phone numbers, the nearest muster point, and the location of first aid equipment (final page of this document).</p> <p>The plant is located at the western end of Shed 3 as shown in overhead image on the RHS.</p>		L


SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

0.2	Vacuum truck and Front End loader operators to ensure the majority of iron ore solids are washed onto the shed 3 stockpiles.			L
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SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

0.3	<p>Before washdown check there is sufficient capacity in the sump to washdown your truck/FEL to avoid it overflowing.</p> <p>If water needs lowering call the cleaning operator to suck out water from the sump and seek direction from the Shift Superintendent on whether to either:</p> <ol style="list-style-type: none"> 1) Discharge this water into the general washwater sump; or 2) Spray onto iron ore stockpiles in any of sheds 1, 2 or 3. 		M
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SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

0.4	<p>Ensure the hose is has been put to the side and not in the line of your vehicle wheels before you back onto the pad.</p> <p>Also note location of electrical supply under black rubber flap. Avoid water deflecting under the flap and causing a potential electrical hazard</p>	 <p>Hose coiled to the side of pad</p>	 <p>Electrical supply with rubber flap lifted</p>	M
0.4	<p>If the washwaters are visibly contaminated by any substance other than iron ore please contact the Shift Superintendent or the Environment Team for advice.</p>			L

SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

Step #	Washdown of trucks/FELs		Risk Level
1			
1.1	Use hose situated on north side of sump to rinse off truck/FEL		L
1.2	Check water level in sump to confirm the sump is not going to overflow		M
1.3	If spraying the top of the truck use the work platform provided and maintain three points of contact when going up and down the steps		L
Step #	CLEAN OUT SUMP SOLIDS		
2			

SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

2.1	The contracted cleaning operator will clean out solids from the sump on a quarterly (or as required) basis to ensure the sump was sufficient water capacity to enable practical washdown of trucks/FELs without overflowing. The solids are to be returned to the iron ore stockpiles in sheds 1, 2 or 3 as directed by the Shift Superintendent.		L
Step # 3	CLEAN UP OPERATIONS		Risk Level
3.1	Ensure that the pad, sumps and all equipment used are neat and tidy prior to leaving the work site		L

4.2 Variation(s) or other considerations to above (location, access, egress, others working nearby)

#	Steps	Hazards	Controls	Risk Level
4.1	Other contamination	Chemical	<p>Ensure only iron ore wash waters with low contamination enter the iron ore wash water sump.</p> <p>The following washwaters must not be put into the sump:</p> <ul style="list-style-type: none"> • No sulphur waters (need to go to sulphur sump) • No oily waters (need to go to Oily Water Separator) • No waters contaminated with fertiliser or metal concentrates, including nickel and copper (this needs to go to Myrup liquid waste facility as controlled waste) <p>Contact the Environmental Team if unsure of where waters are to be deposited.</p>	L

SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

4.2	Caught Between truck tub and truck during lowering	Line of fire	Keep all body parts clear from between truck tub and truck while lowering tub.	L
4.3	Emptying water into sump, backflushing and treating water through zeolite filters	Slips, trips and falls on slippery surfaces, over plumbing or other equipment	Maintain good housekeeping. Keep equipment out of walkways and driveways as much as possible. Minimise walking on wet, slippery surfaces. Test surface for grip before stepping on.	L

4.3 Immediate Emergency Steps

#	Scenario	Controls	Risk Level

5. AUTHORISATION & SIGN ON

5.1 Acknowledgement

All personnel working under this SWI have read and understand this SWI and the additional hazards where identified.

What will trigger us to stop the task? I/we will stop this task and contact our supervisor if any of the following occur:

Examples: changes in weather, traffic, equipment issues, communication failure, unauthorised entry, working outside this SWI.

Trigger 1: Sump is full before emptying washwaters into it

Trigger 2: Washwaters in sump appear to be contaminated with something other than iron ore

5.2 Authorisation

Supervisor Name:		Supervisor Signature:		Date:	
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5.3 Daily Sign On

Date	Name	Signature	Date	Name	Signature

SAFE WORK INSTRUCTION (SWI) *Operation of iron ore washdown sump*

EMERGENCY AND FIRST AID INFORMATION					
What to do in an on the job EMERGENCY:	<ul style="list-style-type: none"> ➤ Immediately raise the alarm ➤ Stop all machines or make safe ➤ Administer first aid if required 	NEAREST First Aid kit		Site Emergency Number	0428 712 111
		NEAREST Defibrillator	Maintenance Mechanical Workshop	Emergency Radio Channel	Channel 1
What to do in the event of an EVACUATION:	<ul style="list-style-type: none"> ➤ Shut down power sources and make systems safe ➤ Proceed to nearest safe muster point. ➤ On arrival at muster point, swipe access card ➤ Report to the Muster Marshal ➤ Follow instructions from Muster Marshal 	NEAREST Fire extinguisher		Shift Superintendent no.	0447 838 290
				Supervisor's Phone no.	
		NEAREST Muster Point	1 2 3 4	ALTERNATIVE Muster Point	1 2 3 4



DRSABCD action plan

In an emergency call triple zero (000) for an ambulance

D DANGER
Ensure the area is safe for yourself, others and the patient.

R RESPONSE
Check for response—ask name—squeeze shoulders
No response
• Send for help.
Response
• make comfortable
• check for injuries
• monitor response.

S SEND for help
Call Triple Zero (000) for an ambulance or ask another person to make the call.

A AIRWAY
Open mouth—if foreign material is present:
• place in the recovery position
• clear airway with fingers.
Open airway by tilting head with chin lift.

B BREATHING
Check for breathing—look, listen and feel.
Not normal breathing
• Start CPR.
Normal breathing
• place in recovery position
• monitor breathing
• manage injuries
• treat for shock.

C CPR
Start CPR—30 chest compressions : 2 breaths
Continue CPR until help arrives or patient recovers.

D DEFIBRILLATION
Apply defibrillator if available and follow voice prompts.

Learn First Aid | 1300 360 455 | www.stjohn.org.au

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