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VOID SPACE INSPECTION AND
CLEANING

Andrew Tuckey
JST

SWMS - Light Landing Craft

Project:	Light Landing Craft 4410	SWMS Prepared By:	Andrew Tuckey
Principal Contractor:	Sydney City Marine ROZELLE	SWMS No:	SWMS01
Location:	Sydney City Marine ROZELLE	Last Reviewed:	21/08/25
Contact:	Jerin Prasad 0413 535 114	SWMS Completed By:	Andrew Tuckey 0411 701 570
Description of Work:	Remove diesel, clean & oil diesel tanks. Clean & survey all voids	Date Completed:	

Applicable OHS Legislation

NSW Work Health & Safety Act 2011
NSW Work Health & Safety Regulations 2011

Minimum Licence/Competency requirements for Task

Construction White Card
Enter Confined Space
Gas Test Atmospheres
Issue Work Permit
Conduct Risk Assessment
Confined Space Rescue
NSM LLC Induction
NSM General Induction

Applicable Hazard Control Standards for Task

AS2865-2009 Confined Spaces
Confined Spaces Code of Practice 2018
Hazardous Manual Tasks Code of Practice 2018
Managing Risk of Falls at Workplaces Code of Practice 2018

Preceding Works & Requirements

This section is to be used to specify any processes and/or standard requirements prior to conducting the activity and does not need to be repeated in the main body of the SWMS

All persons must report Fit for Work e.g. - Not affected by Drugs (includes prescription medication), Alcohol or Fatigue, & must complete a Medical Declaration

A JSA addressing the task and worksite hazards must be completed and signed by all personnel before work commences each shift

Standard PPE to be worn for all steps included in this SWMS. This includes; full length clothing / hard hat / safety footwear / hi-vis clothing / safety glasses / task suitable gloves (as required)

Confined Spaces Entry Permit and/or other applicable permits (Hot Work etc)

Emergency Plan

The following specialised equipment / emergency provisions must be readily accessible at the worksite prior to commencement:

- Dry chemical fire extinguisher
- Atmospheric monitoring device, tested and within calibration.
- Barricades & signage
- Communication devices (Phone, Radio etc)
- First aid kit and trained 1st aider
- Rescue equipment

Monitoring and Review of Risk Controls

- Daily pre-start meeting conducted with work crew prior to commencement.
- JSA prepared prior to commencement of task.
- Incident Reports
- SWMS reviewed on an annual basis or following any material change to the task or risks.

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RISK ASSESSMENT MATRIX						
What would the CONSEQUENCE of an occurrence be?	What is the LIKELIHOOD of an occurrence?					Hierarchy of Controls
	Almost Certain A	Likely B	Possible C	Unlikely D	Rare E	
Catastrophic - 5 Fatalities. On or off site release with severe, long-term damage.	E-1	E-2	E-4	E-7	H-11	Can the hazard be Eliminated or removed from the work place?
Major - 4 Severe injuries or illness (amputation, LTI). Off site release with significant damage.	E-3	E-5	E-8	H-12	H-16	Can the product or process be Substituted for a less hazardous alternative?
Moderate - 3 Medical treatment required. On site release with significant damage.	E-6	H-9	H-13	M-17	M-20	Can the hazard be Engineered away with guards or barriers?
Minor - 2 First aid treatment. On site release, minor short-term damage and immediately contained.	H-10	H-14	M-18	L-21	L-23	Can Administration Controls be adopted? (i.e. procedures, job rotation etc)
Insignificant - 1 No injury or illness. Minor localised spill, limited damage to insignificant area.	H-15	M-19	L-22	L-24	L-25	Can Personal Protective Equipment & Clothing be worn to safe guard against hazards?

Enter space	Manual handling heavy access plates	Muscle strain	M18	Follow Manual Handling SWP	L23
	Use of 18V power tools	Hand &/or eye injury	M18	Gloves & eye protection to be worn	L23
	Opening unvented/closed space	Dangerous gases	E4	Follow Gas Test Atmosphere guidelines for opening space	L23
		Low oxygen	E4	Check tank contents before opening, disinfect when necessary	L23
		Biological hazards	H13	Gloves, respiration & face/eye protection to be worn as required	L23
Enter unvented/closed space	Low oxygen	Skin irritants	H13	Constantly monitor atmosphere around access panel	L23
		Flammable gases	E4	Leave space open for 24 hours before accessing	
		Paint or chemical fumes	M18		
	Large drop at entry	Falls	E4	Follow Gas Test Atmosphere guidelines before entering space	L23
		Skin irritants	H9	Mechanically ventilate space	L23
Space filling when inside	Chemical fumes	Chemical burns	H9	Harness & fall arrestor to be used	L23
		Chemical fumes	H9	Chemical resistant suit, shoes, gloves to be worn.	L23
	Drowning/engulfment	Chemical fumes	H9	Mechanically ventilate space	L23
		Chemical fumes	H9	Flush space before entry	L23
	Distance or barriers between entrant & standby	Difficulty communicating	E4	Pumps to be locked out & tagged if identified in Permit	M20
Use of electrical equipment	Ignition source	Difficulty communicating	E4	Regular vocal communication between standby & entrant, as well as sighting entrant.	L25
		Ignition source	E2	Use intrinsically safe equipment if identified in JSA	L25
	Use of electrical equipment	Ignition source	E2	Mechanically ventilate space	L25
		Ignition source	E2		
	Use of electrical equipment	Ignition source	E2		

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Steps	Hazards	Risks	Initial Risk	Controls	Residue Risk
	Space heated from sun	Heat exhaustion Dehydration	H9 H13	Check MSDS for flashpoint, ensure temp in space is below flash point Fire extinguisher Mechanically ventilate space Drinking water on hand	L25 L25
	Exterior works	Noise Fumes	H9 E4	Short shifts in space Arrange work in space around exterior works Mechanically ventilate space Ensure permits & SWMS at project sign in station	L25 L21
	Untrained/unqualified persons entering space	Injury/Death	E7	Wear appropriate PPE as identified in JSA All workers including sentry must be confined space trained by an RTO. Confined space activities must be assessed & approved by an Authorised Officer & a permit issued.	L25

A Confined Space Risk Assessment is to be conducted by an Authorised Officer in addition to the task JSA created by the work team

An emergency Rescue Plan is to be developed by an emergency response team & issued for all confined space tasks.

Isolations are applied by system/equipment owner & stored energy released.

Physical Locking Devices are to be secured to isolation point(s) by system/equipment owner.

All energy sources and equipment are treated as live until tested for dead by a competent person.

Personal danger tags are to be completed & recorded in accordance with site owners processes, & placed at points where isolations & master tags are applied

All energy sources & equipment are treated as live until tested for dead by a competent person.

Exclusion zones & signage are to be established around the Confined Space whenever the Confined Space is unoccupied.

Pre-use and periodic inspections of Confined Space equipment carried out by a competent person.

Communication methods are to be established between work team, sentries, and emergency response team and documented in JSA.

Ventilation systems are to be established and maintained in accordance with the permit.

Continuous atmospheric monitoring of the Confined Space to be carried out in accordance with the permit.

Sentry(s) are to be utilised at all times during Confined Space activities.

Reverification of isolations & physical locking devices to be undertaken prior to recommencing work at isolation points.

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Hazchem is handled, labelled and stored in accordance with SDS requirements.
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Prior to taking Hazchem on-board, personnel shall complete the Vessel Hazchem Register and file a copy of the SDS in the Hazchem Folder. SDS shall be collected from the folder when disembarking the vessel.

All known sources of asbestos containing material, zinc chromate, cadmium and beryllium are identified, labelled (where practicable) and recorded in the Hazardous Materials Register.

If asbestos containing material, zinc chromate, cadmium and beryllium is identified or suspected, work is to cease immediately, an Exclusion Zone and signage established and site owner notified.

Removal and disposal of asbestos containing material, zinc chromate, cadmium and beryllium shall be conducted by a licensed contractor.

Clean space	Pressure cleaning	Flying debris Noise Burns	E5 H9 E8	Entrant to wear eye protection & suitable gloves.	L25 L25 L21
	Degreasing/disinfecting	Chemical fumes	H9	Chemical resistant suit, shoes, gloves & supplied air mask to be worn.	L23
		Chemical burns	H9	Mechanically ventilate space Ensure necessary MSDS available	L23
	Skin irritants	Chemical burns Chemical fumes	H9 H9	Chemical resistant suit, shoes, gloves & supplied air mask to be worn. Mechanically ventilate space Flush space before entry	L23 L23
	Use of electrical equipment	Ignition source Electrocution	H11 E4	Use intrinsically safe equipment if identified in ISA Mechanically ventilate space	L25 H11
				Check MSDS for flashpoint, ensure temp in space is below flash point Use of RCD with 240v tools Fire extinguisher 240v equipment to be tested & tagged Use of waterproof plug protectors	
	Space heated from hot water	Heat exhaustion Dehydration	H9 H13	Mechanically ventilate space Drinking water on hand Short shifts in space	L25 L25

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Steps	Hazards	Risks	Initial Risk	Controls	Residue Risk
Pumping liquids/fuels	Pump or pipe join leaks	Environmental damage		Pump to be banded	L23
		Potential fire/explosion risk	E4	Hose joins to be banded	L23
		Fumes or spray in eyes	H13	Spill kit at hand	L23
				Transfer attempted in well ventilated area	
				Hoses, camlocks & hose clamps inspected before onset of transfer	
				Camlock plugs & caps to be used when packing up	
				Eye protection to be worn	L25
				Stop valve not to be used when pumping over water to eliminate pressure in lines.	
				Allow fuel to syphon where possible to eliminate pressure in lines.	
				Constant monitoring of transfer procedure at all points of possible failure	
	Vessel fuel system not connected	Fuel leak into vessel	M18	Fuel system inspected during onset of transfer into vessel	L24
				Regular checks during transfer	
	Multiple tanks with levelling valves	Uneven amount of fuel in vessel	E4	Mechanics, engineers & project manager notified before transfer	L23
		Overflow	E4	Ensure valves between tanks are open	L23
Storage tank overflow	Storage tank overflow	Environmental damage		Ensure filling rate matches levelling between tanks	L23
		Potential fire/explosion risk	E4	Only camlock fittings to tank lids to be used	
	Combustion of flammables	Fire/explosion	E4	Storage tanks to be banded	L25
				Constant monitoring of transfer procedure	
				Use of RCD to avoid short circuits	
				Extinguisher to be kept nearby at all times	
	Working at height	Falls	H9	Flammables to be kept 5m from ignition sources	
				Comply with site smoking regulations	
				Storage containers to be clearly labelled	
				Harness & fall arrestor to be worn outside barricading	L25
Skin irritants	Skin irritants	Dehydration	H13	Ladders to be checked & chosen for safety & suitability	L25
		Chemical burns	H9	Gloves, eye protection & respirator to be worn	L23
	Chemical fumes	Chemical fumes	H9		
		Ignition source	H11		
	Use of electrical equipment	Electrocution	E4	Use intrinsically safe equipment if identified in JSA	L25
				Check MSDS for flashpoint, ensure temp in space is below flash point	H11
				Use of RCD with 240v tools	
				Fire extinguisher	
				240v equipment to be tested & tagged	
				Use of waterproof plug protectors	

Steps

Hazards

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Risks

Initial Risk

Controls

Residue Risk

Emergency Rescue

Difficulty removing injured entrant

Can remove entrant externally
Unable to extract injured worker externally

E4
E4

Respiration & eye protection worn when decanting
Spill kit on hand
Ensure work area & access way adequately protected
Entrants to be harnessed and connected to winch at all times
Communication method followed as described in JSA
Rescue equipment & personnel as identified in JSA in close proximity

L22
L22

Confirmation of review & acceptance

26/11/25
26/11/25
26/11/25

Thomas Seiler

Cumilo Calcedo

Signature _____

Signature