
Confined Spaces

Mirvac Retail

Moonee Ponds Central

September 2011

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1. Introduction

This report presents the findings of confined space assessments completed during August and September 2011. Cameron Hunter from Vital Safety Pty Ltd conducted the assessments in consultation with Operations Managers at the following Mirvac shopping centres:

- Como Centre
- Gippsland Centre
- Moonee Ponds Central
- Riverside Quay
- 380 StKilda Road
- Waverley Gardens

2. Purpose

The purpose of this assessments were to:

- Identify potential confined spaces as defined in Mirvac Group – Confined Space Entry Procedure
- Provide a site register of spaces
- Provide a hazard identification and risk assessment for spaces classed as Confined Space

3. Findings

Each space was assessed to determine the potential for specific, defining hazards and classed as either:

- Confined Space – Confined Space Regulations apply
- Restrictive Space – Manage by safe systems of work
- Standard work area – Manage by safe systems of work
- Non-entered space – A space not intended or likely to be entered

The hazards that were considered when defining spaces were:

1. the space is enclosed or partially enclosed space, and
2. is not designed or intended primarily to be occupied by a person; and
3. is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space; and
4. is or is likely to be a risk to health and safety from:
 - a) an atmosphere that does not have a safe oxygen level, or
 - b) contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or
 - c) harmful concentrations of any airborne contaminants, or
 - d) engulfment

A confined space meets condition 1, 2, 3 and 4.

A restricted space meets conditions 1, 2 and 3 only. Restricted spaces are not defined in Regulations or Australian Standards. Restricted spaces may become confined spaces when tasks are conducted within the space which may alter the atmosphere (such as welding, painting or extinguishing a fire).

The register of spaces including classification is attached in Appendix A.

4. Discussion

4.1 Confined space definition

At the time of reporting there were proposed changes to confined space definitions around Australia. The changes formed part of the Harmonisation of Occupational Health and Safety Regulations, co-ordinated by Safe Work Australia. It was proposed that the new definition be adopted 1 January 2012.

Both the Victorian and the Safe Work Australia Confined Space definitions were considered when assessing spaces at the Mirvac shopping centres.

The intent of the confined space definition and regulation is described in the Safe Work Australia, Code of Practice – Confined Spaces:

Confined spaces pose dangers because they usually have poor ventilation which allows hazardous atmospheres to develop quickly, especially if the space is small. The hazards are not always obvious and may change from one entry to the next.

The risks of working in confined spaces include:

- *loss of consciousness, impairment, injury or death due to the immediate effects of airborne contaminants*
- *fire or explosion from the ignition of flammable contaminants*
- *difficulty rescuing and treating an injured or unconscious person, and*
- *asphyxiation resulting from oxygen deficiency or immersion in a free-flowing material, such as grain, sand, fertiliser or water*

Many of the spaces at the Mirvac shopping centres were classed as Restricted Space. It must be noted that Restricted Spaces may become confined spaces were tasks are conducted within the space which may alter the atmosphere such as:

- Welding
- Applying chemicals for cleaning
- Using internal combustion engines (such as pumps or generators)
- Following a fire

During entry to Restricted Spaces strict safety control measures may be required such as isolation or working in pairs.

Storm water pits with open grate covers vary in the level of risk depending on the depth of the pit. To provide clear direction and avoid confusion all storm water pits were classed as Confined Space.

4.2 Confined Space Signs

According to Victoria OHS Regulations:

An employer must ensure that signs are erected ... in the immediate vicinity of a confined space for any period that—

(a) work is performed in the confined space; or

(b) work is performed in preparation for, or completion of, work in the confined space.

Although there is no legal or Mirvac procedural requirement, permanent confined space danger signs should be displayed where there may be confusion or easy access to spaces.

4.3 Confined Space Entry

It was noted that contractors were most likely to be engaged to access spaces classed as Confined Space, such as Grease Interceptor Traps, Sewer and Storm Water Pits. Site managers must ensure that contractors entering confined spaces hold current Confined Space Entry certificates of competency and are familiar with Mirvac Confined Space Entry Procedures and are familiar with potential confined space hazards. Contractors should be issued with a generic confined space assessment for the space they intend to enter. The assessment should be supplemented with a Safe Work Method Statement, specific for the task.

4.4 Standby personnel and retrieval capabilities

There is a regulatory requirement for retrieval plans tailored for each confined space. The retrieval method must be rehearsed to demonstrate that it is effective.

Sites Managers must ensure that contractors entering confined spaces have the equipment and capability to retrieve a person from a confined space and must not rely solely on external emergency services.

Recommended retrieval procedures are included with the confined space assessments.

5. Recommendations

-
- Provide access to the site confined space register for contractors to reference when planning works.
 - Provide confined space risk assessments to personnel accessing confined spaces on site.
 - Use an induction checklist for contractors intending to enter confined spaces on site and ensure contractors adhere to Mirvac Group – Confined Space Entry Procedure
 - Display permanent Confined Space Danger Signs on spaces where there may be confusion or easy entry.

6. References

1. Mirvac Group – Confined Space Entry Procedure, MG-CS-HSEP4.09-B-0409
2. Victoria Occupational Health and Safety Regulations (2007)
3. Draft Code of Practice – Confined Spaces, Safe Work Australia (August 2011)
4. AS 2865:2009 – Confined Spaces, Standards Australia (September 2009)

TABLE OF APPENDICES

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Appendix B - Register of Spaces

Appendix C – Confined Space Risk Assessments

Appendix A – Confined Space Definition

Safe Work Australia, Workplace Health and Safety Regulations (August 2011)

The WHS Regulations define a confined space as an enclosed or partially enclosed space that:

1. is not designed or intended primarily to be occupied by a person; and
2. is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space; and
3. is or is likely to be a risk to health and safety from:
 - a) an atmosphere that does not have a safe oxygen level, or
 - b) contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or
 - c) harmful concentrations of any airborne contaminants, or
 - d) engulfment

Victoria – Occupational Health and Safety Regulations 2007

Confined Space – means a space in any vat, tank, pit, pipe, duct, flue, oven, chimney, silo, reaction vessel, container, receptacle, underground sewer, well, or any shaft, trench or tunnel or other similar enclosed or partially enclosed structure if the space:

- a) is, or is intended to be, or is likely to be, entered by any person; and
- b) has a limited or restricted means for entry or exit that makes it physically difficult for a person to enter or exit the space; and
- c) is, or is intended to be, at normal atmospheric pressure while any person is in the space; and
- d) contains, or is intended to contain, or is likely to contain –
 - i. an atmosphere that has a harmful level of any contaminant; or
 - ii. an atmosphere that does not have a safe oxygen level; or
 - iii. any stored substance, except liquids, that could cause engulfment

Appendix B – Register of Spaces

Mirvac Group REGISTER OF SPACES

Site: Moonee Ponds Central			PHYSICAL CHARACTERISTICS				IDENTIFIED HAZARD CRITERIA				Classification
Reg No.	Location	Name	Question 1 Is the Space enclosed or partially enclosed?	Question 2 Is the Space intended or designed primarily to be occupied or entered by a person?	Question 3 Is there restricted means of entry or exit?	Question 4 Is there normal atmospheric pressure while a person is in the space?	Question 5A Is there a risk of an atmosphere that does not have a safe oxygen level?	Question 5B Is there a risk of contaminants that may cause injury from fire or explosion?	Question 5C Is there a risk of a harmful concentration of any airborne contaminant?	Question 5D Is there a risk of Engulfment?	
			Requires Yes	Requires No	Requires Yes	Requires Yes	Requires YES to either 5A, B, C or D				Calculated
S001	Carparks	Exhaust plenums	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S002	Carparks	Pump pits	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S003	Kmart Mall - Upper Carpark	Air Handling Units	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S004	Kmart Loading Bay	Grease Interceptor Traps	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S005	Puckle Mall	Lift Well	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S006	Puckle Mall	Ceiling Space	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S007	Coles Loading Bay	Grease Interceptor Traps	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S008	Kmart Mall	Travellator Pits	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S009	Kmart Mall	Lift Well	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S010	Kmart Mall - Carpark	Bulkhead	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S011	Kmart Mall - Carpark	Grease Interceptor Trap	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S012	Kmart Mall	Lift well - 1st Choice Goods	Yes	No	Yes	Yes	No	No	No	No	Hazardous

Note: Classification of spaces is based on inherent hazards.
A Job Safety Environment Analysis (JSEA) is required before entry to confined or hazardous spaces.

Mirvac Group
REGISTER OF SPACES - IMAGES



Reg No. Space / Location Classification

S001

Exhaust plenums :
Carparks

Hazardous



S002

Pump pits :
Carparks

Confined Space



S003

Air Handling Units
: Kmart Mall -
Upper Carpark

Hazardous



S004

Grease Interceptor
Traps : Kmart
Loading Bay

Confined Space



Mirvac Group
REGISTER OF SPACES - IMAGES

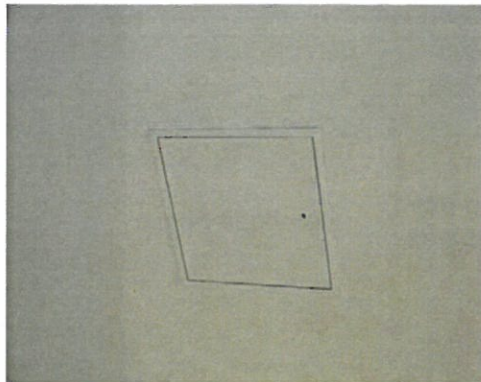


Reg No. Space / Location Classification

S005 Lift Well : Puckle Mall Hazardous



S006 Ceiling Space : Puckle Mall Hazardous



S007 Grease Interceptor Traps : Coles Loading Bay Confined Space



S008 Travellator Pits : Kmart Mall Hazardous



Mirvac Group
REGISTER OF SPACES - IMAGES



Reg No. Space / Location Classification

S009

Lift Well : Kmart
Mall

Hazardous



S010

Bulkhead : Kmart
Mall - Carpark

Hazardous



S011

Grease Interceptor
Trap : Kmart Mall - Confin ed Space
Carpark

S012

Lift well - 1st
Choice Goods Lift :
Kmart Mall

Hazardous

Appendix C – Confined Space Risk Assessments

Confined Space Assessment



1. CONFINED SPACE DETAILS:

Item: Storm Water Pits	Equip #:	Assessed: August 2011
Description: Construction: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fibreglass <input type="checkbox"/> Rubber lined <input type="checkbox"/> Brick lined		
Shape: <input type="checkbox"/> Rectangular <input type="checkbox"/> Cylinder <input type="checkbox"/> Hopper <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Above <input checked="" type="checkbox"/> Below ground		
Reasons for entry: Remove blockage or retrieve dropped items Alternative method to eliminate entry: Conduct drain clearing and cleaning from outside the pit		
Access/Egress: Method <input type="checkbox"/> Climb in / out <input type="checkbox"/> Scaffold / Platform (external) <input type="checkbox"/> Scaffold (internal) <input type="checkbox"/> Scaffold access stairs <input checked="" type="checkbox"/> Ladder / step irons <input type="checkbox"/> Technical access		
Assessor: Cameron Hunter - Vital Safety Pty Ltd		

Images



2. INHERENT HAZARDS: (Note: task related hazards will be recorded in the Task Hazard Analysis (THA))

MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input checked="" type="checkbox"/> Unsafe Oxygen	<input checked="" type="checkbox"/> Oxygen deplete/displace <input type="checkbox"/> High oxygen (O2 leak)	Ventilation <input checked="" type="checkbox"/> Ventilate - Forced air blower <input type="checkbox"/> Ventilate - Filtered air extraction <input type="checkbox"/> Ventilate - Use permanent/installed ventilation <input type="checkbox"/> Ventilate - Natural Monitoring <input checked="" type="checkbox"/> Conduct continuous gas monitoring during entry <input type="checkbox"/> Test gas levels daily before entry <input type="checkbox"/> Test for contamination around / under the space <input type="checkbox"/> Monitor atmosphere outside the space Preparation Cleaning <input type="checkbox"/> Empty / drain before entry <input checked="" type="checkbox"/> Wash down space before entry <input type="checkbox"/> Drain space completely <input type="checkbox"/> Flush lines <input checked="" type="checkbox"/> Vacuum space before entry <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Toxic / harmful atmosphere	<input checked="" type="checkbox"/> Hydrogen sulphide <input checked="" type="checkbox"/> Carbon monoxide <input type="checkbox"/> Carbon dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Argon <input type="checkbox"/> Ammonia <input type="checkbox"/> Chlorine <input type="checkbox"/> Sulphur dioxide <input type="checkbox"/> Toxic hydrocarbon <input type="checkbox"/> Dusts <input type="checkbox"/> Other	Additional Protective Clothing & Equipment <input type="checkbox"/> Breathing apparatus (airline) <input type="checkbox"/> Full face respirator <input type="checkbox"/> Powered air respirator (eg. Racal helmet) <input type="checkbox"/> Half face respirator / Dust mask <input type="checkbox"/> Chemical suit (encapsulated / splash) <input type="checkbox"/> Disposable coveralls <input type="checkbox"/> Chemical gloves <input type="checkbox"/> Leather gloves <input type="checkbox"/> Chemical goggles <input type="checkbox"/> Dust goggles <input type="checkbox"/> Chemical boots <input checked="" type="checkbox"/> Safety Harness <input checked="" type="checkbox"/> Helmet (with chin strap) <input type="checkbox"/> Knee pads (Entrant / Standby) <input type="checkbox"/> Additional communication equipment (hardwire / 2-way) <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Fire	<input checked="" type="checkbox"/> Flammable gas <input type="checkbox"/> Flammable liquid <input type="checkbox"/> Combustible solid <input type="checkbox"/> Combustible dust	
<input checked="" type="checkbox"/> Engulfment or flooding	<input checked="" type="checkbox"/> Product feed <input type="checkbox"/> Collapse (hung material) <input type="checkbox"/> Release of material below <input type="checkbox"/> Bridging (hollow below)	
<input type="checkbox"/> Hazardous material or dangerous goods	<input type="checkbox"/> Sulphuric Acid <input type="checkbox"/> Hydrochloric Acid <input type="checkbox"/> Caustic solutions <input type="checkbox"/> Toxic heavy metals <input type="checkbox"/> Harmful dusts	
<input checked="" type="checkbox"/> Infection	<input type="checkbox"/> Bacteria <input checked="" type="checkbox"/> Sharp objects/needles	
<input type="checkbox"/> Radiation	<input type="checkbox"/> Comms antenna or dish <input type="checkbox"/> Radiation gauges	


MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input type="checkbox"/> Activation of energy	<input type="checkbox"/> Caught in moving parts <input type="checkbox"/> Electrical <input type="checkbox"/> Pressure release <input type="checkbox"/> Crushing	<input type="checkbox"/> Isolate power supply <input type="checkbox"/> Disconnect drive lines <input type="checkbox"/> Connect to Earth Leakage Breaker (outside space) <input type="checkbox"/> Use low voltage equipment where possible <input type="checkbox"/> Depressurise <input type="checkbox"/> Chock or pin equipment
<input checked="" type="checkbox"/> Fall from heights	<input checked="" type="checkbox"/> Entry / Exit <input type="checkbox"/> Retrieval <input type="checkbox"/> Working <input checked="" type="checkbox"/> Open hole (Risk to Standby)	<input checked="" type="checkbox"/> Erect a temporary edge rail <input type="checkbox"/> Build a temporary platform (scaffold / prefabricated) <input type="checkbox"/> Use a work positioning system (harness & lanyard) <input checked="" type="checkbox"/> Wear fall prevention PPE <input type="checkbox"/> Barricade the area to keep others clear
<input type="checkbox"/> Heat strain / stress	<input type="checkbox"/> Direct sunlight <input type="checkbox"/> High air temperature <input type="checkbox"/> Low air flow <input type="checkbox"/> High humidity <input type="checkbox"/> High operating temp. <input type="checkbox"/> Restrictive clothing	<input type="checkbox"/> Allow the space to reach ambient temperature <input type="checkbox"/> Schedule work for coolest times where practical <input type="checkbox"/> Ventilate with cool air where practical <input type="checkbox"/> Rotate work or increase the work:rest ratio <input type="checkbox"/> Maintain water intake
<input type="checkbox"/> Heat or cold burns	<input type="checkbox"/> High surface temperature <input type="checkbox"/> Cold surface temperature	<input type="checkbox"/> Erect shade over work area <input type="checkbox"/> Guard potential hazards <input type="checkbox"/> Wear PPE – gloves, coveralls, boots, eye safety <input type="checkbox"/> Cool area before entry
<input checked="" type="checkbox"/> Moving plant / vehicles	<input checked="" type="checkbox"/> Road near by <input type="checkbox"/> Vehicles loading / unloading	<input type="checkbox"/> Stop or relocate external works <input checked="" type="checkbox"/> Display signs and barricades to prevent access
<input checked="" type="checkbox"/> Slips and trips	<input type="checkbox"/> Poor lighting <input checked="" type="checkbox"/> Obstructions or trip points <input type="checkbox"/> Head strike points	<input checked="" type="checkbox"/> Provide temporary lighting (Extra Low Voltage / EX rated) <input type="checkbox"/> Guard or barricade obstructions <input checked="" type="checkbox"/> Maintain housekeeping / keep work area clear and tidy
<input type="checkbox"/> Noise		<input type="checkbox"/> Relocate noise generating equipment <input type="checkbox"/> Wear hearing protection with internal comms
<input checked="" type="checkbox"/> Other: Manual Handling	Lifting lids	Use load lifting aids Group lifter heavier items

☒ Indicates the consequence is unacceptable and the risk is conceivable

NOTE: ALWAYS REVIEW HAZARDS AND IDENTIFY CHANGES PRIOR TO ENTERING SPACE

Comments:

4. ACCESS / EGRESS AND FIRST RESPONSE EQUIPMENT:

A	<p>EMERGENCY STEPS – S.C.R.A.M.</p> <ol style="list-style-type: none">1. Stop all work. Evacuate the space. DO NOT ENTER A HAZARDOUS ATMOSPHERE Assess the dangers or nature of the incident2. Call for assistance3. Respond Assist people to exit the space Initiate First Response (Non-entry retrieval) steps Remove immediate hazards if safe to do so.4. Account for personnel5. Medical - Provide 1st Aid treatment
B	<p>Equipment:</p>  <p>Images – Recommended Equipment</p>

FIRST RESPONSE DISCRIPTION / METHOD:**D**

Set-up Diagram – Tripod

Note – The standard tripod is free standing and can collapse if lateral force is applied.

Set-up

- Assemble the tripod away from an open manhole or pit.
- Attach the pulley system to the centre anchor point using a triple action carabiner. Orientate the pulley for a downward pull.
- Fully extend the legs of the tripod to maximize overhead height. Adjust leg length if the surface is unlevel.
- Move each leg outward to maximize stability. Restrain legs with the keeper rope or chain (if provided). Anchor or stabilize legs if necessary.
- Erect an edge barrier or assemble a work-restraint system to prevent the standby person from falling into the space.

Retrieval

1. Haul on the pulley system to raise the entrant from the space.
2. Guide the entrant's head and upper body out of the space.
3. Close or cover the manhole and lower the entrant to the ground. (DO NOT LOAD THE TRIPOD SIDEWAYS, TRIPOD MAY TIP.)

Confined Space Assessment

1. CONFINED SPACE DETAILS:

Item: Sewer Pits	Equip #:	Assessed: August 2011
Description: Construction: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fibreglass <input type="checkbox"/> Rubber lined <input type="checkbox"/> Brick lined		
Shape: <input type="checkbox"/> Rectangular <input type="checkbox"/> Cylinder <input type="checkbox"/> Hopper <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Above <input checked="" type="checkbox"/> Below ground		
Reasons for entry: Remove blockage or retrieve dropped items Alternative method to eliminate entry: Conduct drain clearing and cleaning from outside the pit		
Access/Egress: Method <input type="checkbox"/> Climb in / out <input type="checkbox"/> Scaffold / Platform (external) <input type="checkbox"/> Scaffold (internal) <input type="checkbox"/> Scaffold access stairs <input checked="" type="checkbox"/> Ladder / step irons <input type="checkbox"/> Technical access		
Assessor: Cameron Hunter - Vital Safety Pty Ltd		

Images



2. INHERENT HAZARDS: (Note: task related hazards will be recorded in the Task Hazard Analysis (THA))

MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input checked="" type="checkbox"/> Unsafe Oxygen	<input checked="" type="checkbox"/> Oxygen deplete/displace <input type="checkbox"/> High oxygen (O2 leak)	Ventilation <input checked="" type="checkbox"/> Ventilate - Forced air blower <input type="checkbox"/> Ventilate - Filtered air extraction <input type="checkbox"/> Ventilate - Use permanent/installed ventilation <input type="checkbox"/> Ventilate - Natural Monitoring <input checked="" type="checkbox"/> Conduct continuous gas monitoring during entry <input type="checkbox"/> Test gas levels daily before entry <input type="checkbox"/> Test for contamination around / under the space <input type="checkbox"/> Monitor atmosphere outside the space Preparation Cleaning <input type="checkbox"/> Empty / drain before entry <input checked="" type="checkbox"/> Wash down space before entry <input type="checkbox"/> Drain space completely <input type="checkbox"/> Flush lines <input checked="" type="checkbox"/> Vacuum space before entry <input type="checkbox"/> Other: Additional Protective Clothing & Equipment <input type="checkbox"/> Breathing apparatus (airline) <input type="checkbox"/> Full face respirator <input type="checkbox"/> Powered air respirator (eg. Racal helmet) <input checked="" type="checkbox"/> Half face respirator / Dust mask <input type="checkbox"/> Chemical suit (encapsulated / splash) <input checked="" type="checkbox"/> Disposable coveralls <input type="checkbox"/> Chemical gloves <input type="checkbox"/> Leather gloves <input checked="" type="checkbox"/> Chemical goggles <input type="checkbox"/> Dust goggles <input type="checkbox"/> Chemical boots <input checked="" type="checkbox"/> Safety Harness <input checked="" type="checkbox"/> Helmet (with chin strap) <input type="checkbox"/> Knee pads (Entrant / Standby) <input type="checkbox"/> Additional communication equipment (hardwire / 2-way) <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Toxic / harmful atmosphere	<input checked="" type="checkbox"/> Hydrogen sulphide <input checked="" type="checkbox"/> Carbon monoxide <input type="checkbox"/> Carbon dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Argon <input type="checkbox"/> Ammonia <input type="checkbox"/> Chlorine <input type="checkbox"/> Sulphur dioxide <input type="checkbox"/> Toxic hydrocarbon <input type="checkbox"/> Dusts <input type="checkbox"/> Other	
<input checked="" type="checkbox"/> Fire	<input checked="" type="checkbox"/> Flammable gas <input type="checkbox"/> Flammable liquid <input type="checkbox"/> Combustible solid <input type="checkbox"/> Combustible dust	
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<input type="checkbox"/> Hazardous material or dangerous goods	<input type="checkbox"/> Sulphuric Acid <input type="checkbox"/> Hydrochloric Acid <input type="checkbox"/> Caustic solutions <input type="checkbox"/> Toxic heavy metals <input type="checkbox"/> Harmful dusts	
<input checked="" type="checkbox"/> Infection	<input checked="" type="checkbox"/> Bacteria <input checked="" type="checkbox"/> Sharp objects/needles	
<input type="checkbox"/> Radiation	<input type="checkbox"/> Comms antenna or dish <input type="checkbox"/> Radiation gauges	

MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input type="checkbox"/> Activation of energy	<input type="checkbox"/> Caught in moving parts <input type="checkbox"/> Electrical <input type="checkbox"/> Pressure release <input type="checkbox"/> Crushing	<input type="checkbox"/> Isolate power supply <input type="checkbox"/> Disconnect drive lines <input type="checkbox"/> Connect to Earth Leakage Breaker (outside space) <input type="checkbox"/> Use low voltage equipment where possible <input type="checkbox"/> Depressurise <input type="checkbox"/> Chock or pin equipment
<input checked="" type="checkbox"/> Fall from heights	<input checked="" type="checkbox"/> Entry / Exit <input type="checkbox"/> Retrieval <input type="checkbox"/> Working <input checked="" type="checkbox"/> Open hole (Risk to Standby)	<input checked="" type="checkbox"/> Erect a temporary edge rail <input type="checkbox"/> Build a temporary platform (scaffold / prefabricated) <input type="checkbox"/> Use a work positioning system (harness & lanyard) <input checked="" type="checkbox"/> Wear fall prevention PPE <input type="checkbox"/> Barricade the area to keep others clear
<input type="checkbox"/> Heat strain / stress	<input type="checkbox"/> Direct sunlight <input type="checkbox"/> High air temperature <input type="checkbox"/> Low air flow <input type="checkbox"/> High humidity <input type="checkbox"/> High operating temp. <input type="checkbox"/> Restrictive clothing	<input type="checkbox"/> Allow the space to reach ambient temperature <input type="checkbox"/> Schedule work for coolest times where practical <input type="checkbox"/> Ventilate with cool air where practical <input type="checkbox"/> Rotate work or increase the work:rest ratio <input type="checkbox"/> Maintain water intake
<input type="checkbox"/> Heat or cold burns	<input type="checkbox"/> High surface temperature <input type="checkbox"/> Cold surface temperature	<input type="checkbox"/> Erect shade over work area <input type="checkbox"/> Guard potential hazards <input type="checkbox"/> Wear PPE – gloves, coveralls, boots, eye safety <input type="checkbox"/> Cool area before entry
<input checked="" type="checkbox"/> Moving plant / vehicles	<input checked="" type="checkbox"/> Road near by <input type="checkbox"/> Vehicles loading / unloading	<input type="checkbox"/> Stop or relocate external works <input checked="" type="checkbox"/> Display signs and barricades to prevent access
<input checked="" type="checkbox"/> Slips and trips	<input type="checkbox"/> Poor lighting <input checked="" type="checkbox"/> Obstructions or trip points <input type="checkbox"/> Head strike points	<input checked="" type="checkbox"/> Provide temporary lighting (Extra Low Voltage / EX rated) <input type="checkbox"/> Guard or barricade obstructions <input checked="" type="checkbox"/> Maintain housekeeping / keep work area clear and tidy
<input type="checkbox"/> Noise		<input type="checkbox"/> Relocate noise generating equipment <input type="checkbox"/> Wear hearing protection with internal comms
<input checked="" type="checkbox"/> Other: Manual Handling	Lifting lids	Use load lifting aids Group lifter heavier items

☒ Indicates the consequence is unacceptable and the risk is conceivable

NOTE: ALWAYS REVIEW HAZARDS AND IDENTIFY CHANGES PRIOR TO ENTERING SPACE

Comments:

4. ACCESS / EGRESS AND FIRST RESPONSE EQUIPMENT:

A

EMERGENCY STEPS – S.C.R.A.M.

1. **Stop** all work. Evacuate the space.
DO NOT ENTER A HAZARDOUS ATMOSPHERE
Assess the dangers or nature of the incident
2. **Call for assistance**
3. **Respond**
Assist people to exit the space
Initiate First Response (Non-entry retrieval) steps
Remove immediate hazards if safe to do so.
4. **Account** for personnel
5. **Medical** - Provide 1st Aid treatment

B

Equipment:

**Images – Recommended Equipment**

D

FIRST RESPONSE DISCRIPTION / METHOD:

Set-up Diagram – Tripod

Note – The standard tripod is free standing and can collapse if lateral force is applied.

Set-up

- Assemble the tripod away from an open manhole or pit.
- Attach the pulley system to the centre anchor point using a triple action carabiner. Orientate the pulley for a downward pull.
- Fully extend the legs of the tripod to maximize overhead height. Adjust leg length if the surface is unlevel.
- Move each leg outward to maximize stability. Restrain legs with the keeper rope or chain (if provided). Anchor or stabilize legs if necessary.
- Erect an edge barrier or assemble a work-restraint system to prevent the standby person from falling into the space.

Retrieval

1. Haul on the pulley system to raise the entrant from the space.
2. Guide the entrant's head and upper body out of the space.
3. Close or cover the manhole and lower the entrant to the ground. (DO NOT LOAD THE TRIPOD SIDEWAYS, TRIPOD MAY TIP.)

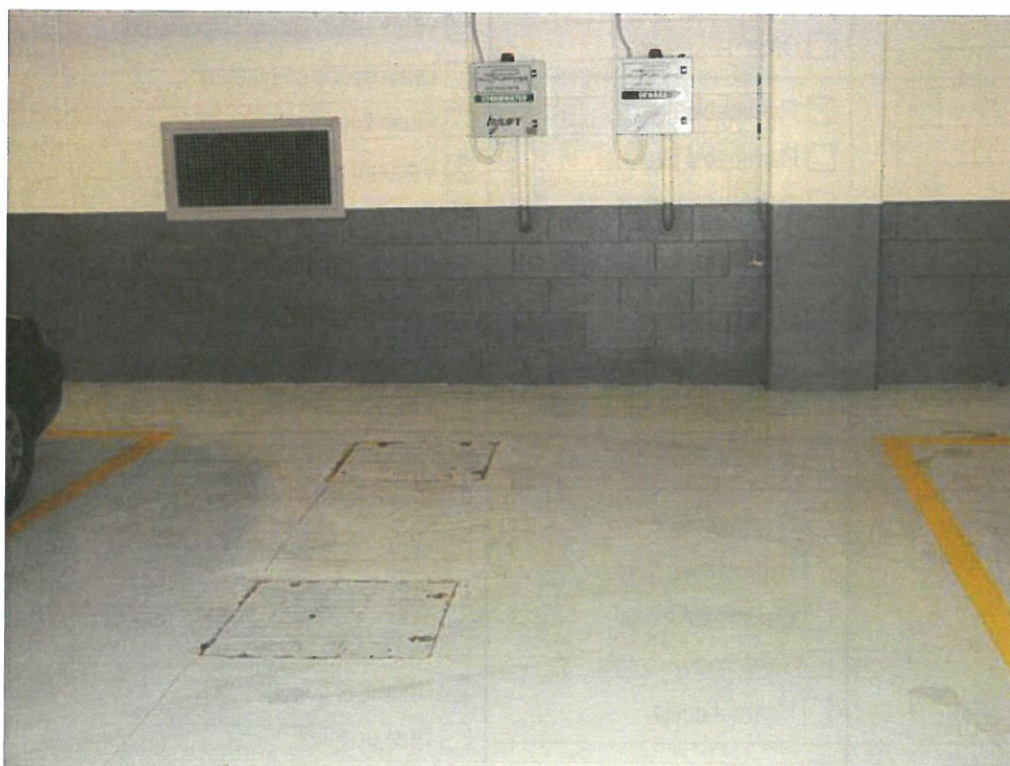
Confined Space Assessment



1. CONFINED SPACE DETAILS:

Item: Pump Pits	Equip #:	Assessed: August 2011
Description: Construction: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fibreglass <input type="checkbox"/> Rubber lined <input type="checkbox"/> Brick lined		
Shape: <input type="checkbox"/> Rectangular <input type="checkbox"/> Cylinder <input type="checkbox"/> Hopper <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Above <input checked="" type="checkbox"/> Below ground		
Reasons for entry: Pump repair or maintenance Alternative method to eliminate entry: Lift pump from pit and repair outside the pit		
Access/Egress: Method <input type="checkbox"/> Climb in / out <input type="checkbox"/> Scaffold / Platform (external) <input type="checkbox"/> Scaffold (internal) <input type="checkbox"/> Scaffold access stairs <input checked="" type="checkbox"/> Ladder <input type="checkbox"/> Technical access		
Assessor: Cameron Hunter - Vital Safety Pty Ltd		

Images



2. INHERENT HAZARDS: (Note: task related hazards will be recorded in the Task Hazard Analysis (THA))

MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input checked="" type="checkbox"/> Unsafe Oxygen	<input checked="" type="checkbox"/> Oxygen deplete/displace <input type="checkbox"/> High oxygen (O2 leak)	Ventilation <input checked="" type="checkbox"/> Ventilate - Forced air blower <input type="checkbox"/> Ventilate - Filtered air extraction <input type="checkbox"/> Ventilate - Use permanent/installed ventilation <input type="checkbox"/> Ventilate - Natural Monitoring <input checked="" type="checkbox"/> Conduct continuous gas monitoring during entry <input type="checkbox"/> Test gas levels daily before entry <input type="checkbox"/> Test for contamination around / under the space <input type="checkbox"/> Monitor atmosphere outside the space Preparation Cleaning <input type="checkbox"/> Empty / drain before entry <input checked="" type="checkbox"/> Wash down space before entry <input type="checkbox"/> Drain space completely <input type="checkbox"/> Flush lines <input checked="" type="checkbox"/> Vacuum space before entry <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Toxic / harmful atmosphere	<input checked="" type="checkbox"/> Hydrogen sulphide <input checked="" type="checkbox"/> Carbon monoxide <input type="checkbox"/> Carbon dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Argon <input type="checkbox"/> Ammonia <input type="checkbox"/> Chlorine <input type="checkbox"/> Sulphur dioxide <input type="checkbox"/> Toxic hydrocarbon <input type="checkbox"/> Dusts <input type="checkbox"/> Other	Additional Protective Clothing & Equipment <input type="checkbox"/> Breathing apparatus (airline) <input type="checkbox"/> Full face respirator <input type="checkbox"/> Powered air respirator (eg. Racal helmet) <input checked="" type="checkbox"/> Half face respirator / Dust mask <input type="checkbox"/> Chemical suit (encapsulated / splash) <input checked="" type="checkbox"/> Disposable coveralls <input type="checkbox"/> Chemical gloves <input type="checkbox"/> Leather gloves <input checked="" type="checkbox"/> Chemical goggles <input type="checkbox"/> Dust goggles <input type="checkbox"/> Chemical boots <input checked="" type="checkbox"/> Safety Harness <input checked="" type="checkbox"/> Helmet (with chin strap) <input type="checkbox"/> Knee pads (Entrant / Standby) <input type="checkbox"/> Additional communication equipment (hardwire / 2-way) <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Fire	<input checked="" type="checkbox"/> Flammable gas <input type="checkbox"/> Flammable liquid <input type="checkbox"/> Combustible solid <input type="checkbox"/> Combustible dust	
<input checked="" type="checkbox"/> Engulfment or flooding	<input checked="" type="checkbox"/> Product feed <input type="checkbox"/> Collapse (hung material) <input type="checkbox"/> Release of material below <input type="checkbox"/> Bridging (hollow below)	
<input type="checkbox"/> Hazardous material or dangerous goods	<input type="checkbox"/> Sulphuric Acid <input type="checkbox"/> Hydrochloric Acid <input type="checkbox"/> Caustic solutions <input type="checkbox"/> Toxic heavy metals <input type="checkbox"/> Harmful dusts	
<input checked="" type="checkbox"/> Infection	<input checked="" type="checkbox"/> Bacteria <input checked="" type="checkbox"/> Sharp objects/needles	
<input type="checkbox"/> Radiation	<input type="checkbox"/> Comms antenna or dish <input type="checkbox"/> Radiation gauges	


MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input checked="" type="checkbox"/> Activation of energy	<input checked="" type="checkbox"/> Caught in moving parts <input checked="" type="checkbox"/> Electrical <input type="checkbox"/> Pressure release <input type="checkbox"/> Crushing	<input checked="" type="checkbox"/> Isolate power supply <input type="checkbox"/> Disconnect drive lines <input type="checkbox"/> Connect to Earth Leakage Breaker (outside space) <input type="checkbox"/> Use low voltage equipment where possible <input type="checkbox"/> Depressurise <input type="checkbox"/> Chock or pin equipment
<input checked="" type="checkbox"/> Fall from heights	<input checked="" type="checkbox"/> Entry / Exit <input type="checkbox"/> Retrieval <input type="checkbox"/> Working <input checked="" type="checkbox"/> Open hole (Risk to Standby)	<input checked="" type="checkbox"/> Erect a temporary edge rail <input type="checkbox"/> Build a temporary platform (scaffold / prefabricated) <input type="checkbox"/> Use a work positioning system (harness & lanyard) <input checked="" type="checkbox"/> Wear fall prevention PPE <input type="checkbox"/> Barricade the area to keep others clear
<input type="checkbox"/> Heat strain / stress	<input type="checkbox"/> Direct sunlight <input type="checkbox"/> High air temperature <input type="checkbox"/> Low air flow <input type="checkbox"/> High humidity <input type="checkbox"/> High operating temp. <input type="checkbox"/> Restrictive clothing	<input type="checkbox"/> Allow the space to reach ambient temperature <input type="checkbox"/> Schedule work for coolest times where practical <input type="checkbox"/> Ventilate with cool air where practical <input type="checkbox"/> Rotate work or increase the work:rest ratio <input type="checkbox"/> Maintain water intake
<input type="checkbox"/> Heat or cold burns	<input type="checkbox"/> High surface temperature <input type="checkbox"/> Cold surface temperature	<input type="checkbox"/> Erect shade over work area <input type="checkbox"/> Guard potential hazards <input type="checkbox"/> Wear PPE – gloves, coveralls, boots, eye safety <input type="checkbox"/> Cool area before entry
<input checked="" type="checkbox"/> Moving plant / vehicles	<input checked="" type="checkbox"/> Road near by <input type="checkbox"/> Vehicles loading / unloading	<input type="checkbox"/> Stop or relocate external works <input checked="" type="checkbox"/> Display signs and barricades to prevent access
<input checked="" type="checkbox"/> Slips and trips	<input type="checkbox"/> Poor lighting <input checked="" type="checkbox"/> Obstructions or trip points <input type="checkbox"/> Head strike points	<input checked="" type="checkbox"/> Provide temporary lighting (Extra Low Voltage / EX rated) <input type="checkbox"/> Guard or barricade obstructions <input checked="" type="checkbox"/> Maintain housekeeping / keep work area clear and tidy
<input type="checkbox"/> Noise		<input type="checkbox"/> Relocate noise generating equipment <input type="checkbox"/> Wear hearing protection with internal comms
<input checked="" type="checkbox"/> Other: Manual Handling	Lifting lids or pumps	Use load lifting aids Group lifter heavier items

☒ Indicates the consequence is unacceptable and the risk is conceivable

NOTE: ALWAYS REVIEW HAZARDS AND IDENTIFY CHANGES PRIOR TO ENTERING SPACE

Comments:

4. ACCESS / EGRESS AND FIRST RESPONSE EQUIPMENT:

A	<p>EMERGENCY STEPS – S.C.R.A.M.</p> <ol style="list-style-type: none">1. Stop all work. Evacuate the space. DO NOT ENTER A HAZARDOUS ATMOSPHERE Assess the dangers or nature of the incident2. Call for assistance3. Respond Assist people to exit the space Initiate First Response (Non-entry retrieval) steps Remove immediate hazards if safe to do so.4. Account for personnel5. Medical - Provide 1st Aid treatment
B	<p>Equipment:</p>  <p>Images – Recommended Equipment</p>

D

FIRST RESPONSE DISCRIPTION / METHOD:

Set-up Diagram – Tripod

Note – The standard tripod is free standing and can collapse if lateral force is applied.

Set-up

- Assemble the tripod away from an open manhole or pit.
- Attach the pulley system to the centre anchor point using a triple action carabiner. Orientate the pulley for a downward pull.
- Fully extend the legs of the tripod to maximize overhead height. Adjust leg length if the surface is unlevel.
- Move each leg outward to maximize stability. Restrain legs with the keeper rope or chain (if provided). Anchor or stabilize legs if necessary.
- Erect an edge barrier or assemble a work-restraint system to prevent the standby person from falling into the space.

Retrieval

1. Haul on the pulley system to raise the entrant from the space.
2. Guide the entrant's head and upper body out of the space.
3. Close or cover the manhole and lower the entrant to the ground. (DO NOT LOAD THE TRIPOD SIDEWAYS, TRIPOD MAY TIP.

Confined Space Assessment



1. CONFINED SPACE DETAILS:

Item: Grease Interceptor Trap	Equip #:	Assessed: August 2011
Description: Construction: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fibreglass <input type="checkbox"/> Rubber lined <input type="checkbox"/> Brick lined		
Shape: <input type="checkbox"/> Rectangular <input type="checkbox"/> Cylinder <input type="checkbox"/> Hopper <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Above <input checked="" type="checkbox"/> Below ground		
Reasons for entry: Cleaning or repairs Alternative method to eliminate entry: Pressure wash and clean from outside the pit		
Access/Egress: Method <input type="checkbox"/> Climb in / out <input type="checkbox"/> Scaffold / Platform (external) <input type="checkbox"/> Scaffold (internal) <input type="checkbox"/> Scaffold access stairs <input checked="" type="checkbox"/> Ladder <input type="checkbox"/> Technical access		
Assessors: Cameron Hunter - Vital Safety Pty Ltd		

Images



2. **INHERENT HAZARDS:** (Note: task related hazards will be recorded in the Task Hazard Analysis (THA))

MAJOR HAZARDS	DETAIL	SAFETY CONTROL MEASURES
<input checked="" type="checkbox"/> Unsafe Oxygen	<input checked="" type="checkbox"/> Oxygen deplete/displace <input type="checkbox"/> High oxygen (O2 leak)	Ventilation <input checked="" type="checkbox"/> Ventilate - Forced air blower <input type="checkbox"/> Ventilate - Filtered air extraction <input type="checkbox"/> Ventilate - Use permanent/installed ventilation <input type="checkbox"/> Ventilate - Natural Monitoring <input checked="" type="checkbox"/> Conduct continuous gas monitoring during entry <input type="checkbox"/> Test gas levels daily before entry <input type="checkbox"/> Test for contamination around / under the space <input type="checkbox"/> Monitor atmosphere outside the space Preparation Cleaning <input type="checkbox"/> Empty / drain before entry <input checked="" type="checkbox"/> Wash down space before entry <input type="checkbox"/> Drain space completely <input type="checkbox"/> Flush lines <input checked="" type="checkbox"/> Vacuum space before entry <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Toxic / harmful atmosphere	<input checked="" type="checkbox"/> Hydrogen sulphide <input checked="" type="checkbox"/> Carbon monoxide <input type="checkbox"/> Carbon dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Argon <input type="checkbox"/> Ammonia <input type="checkbox"/> Chlorine <input type="checkbox"/> Sulphur dioxide <input type="checkbox"/> Toxic hydrocarbon <input type="checkbox"/> Dusts <input type="checkbox"/> Other	Additional Protective Clothing & Equipment <input type="checkbox"/> Breathing apparatus (airline) <input type="checkbox"/> Full face respirator <input type="checkbox"/> Powered air respirator (eg. Racal helmet) <input checked="" type="checkbox"/> Half face respirator / Dust mask <input type="checkbox"/> Chemical suit (encapsulated / splash) <input checked="" type="checkbox"/> Disposable coveralls <input checked="" type="checkbox"/> Chemical gloves <input type="checkbox"/> Leather gloves <input type="checkbox"/> Chemical goggles <input type="checkbox"/> Dust goggles <input type="checkbox"/> Chemical boots <input checked="" type="checkbox"/> Safety Harness <input type="checkbox"/> Helmet (with chin strap) <input type="checkbox"/> Knee pads (Entrant / Standby) <input type="checkbox"/> Additional communication equipment (hardwire / 2-way) <input type="checkbox"/> Other:
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<input type="checkbox"/> Noise		<input type="checkbox"/> Relocate noise generating equipment <input type="checkbox"/> Wear hearing protection with internal comms
<input checked="" type="checkbox"/> Other: Manual handling	Lifting lids	Use lifting aids / rollers Group lift heavier items

☒ Indicates the consequence is unacceptable and the risk is conceivable

NOTE: ALWAYS REVIEW HAZARDS AND IDENTIFY CHANGES PRIOR TO ENTERING SPACE

Comments:

4. ACCESS / EGRESS AND FIRST RESPONSE EQUIPMENT:

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EMERGENCY STEPS – S.C.R.A.M.

1. **Stop** all work. Evacuate the space.
DO NOT ENTER A HAZARDOUS ATMOSPHERE
Assess the dangers or nature of the incident
2. **Call for assistance**
3. **Respond**
Assist people to exit the space
Initiate First Response (Non-entry retrieval) steps
Remove immediate hazards if safe to do so.
4. **Account** for personnel
5. **Medical** - Provide 1st Aid treatment

Equipment:

B

**Images – Recommended Equipment**

C

FIRST RESPONSE DISCRIPTION / METHOD:

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Note – The standard tripod is free standing and can collapse if lateral force is applied.

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Mirvac Group
REGISTER OF SPACES - IMAGES



Reg No. Space / Location Classification

S001

Exhaust plenums :
Carparks

Hazardous



S002

Pump pits :
Carparks

Confined Space



S003

Air Handling Units
: Kmart Mall -
Upper Carpark

Hazardous



S004

Grease Interceptor
Traps : Kmart
Loading Bay

Confined Space



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REGISTER OF SPACES - IMAGES



Reg No. Space / Location Classification

S005

Lift Well : Puckle
Mall

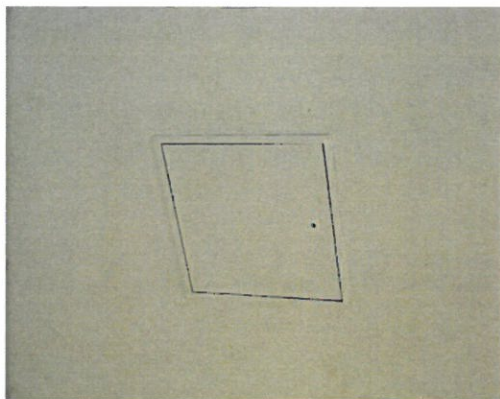
Hazardous



S006

Ceiling Space :
Puckle Mall

Hazardous



S007

Grease Interceptor
Traps : Coles
Loading Bay

Confined Space



S008

Travellator Pits :
Kmart Mall

Hazardous



Mirvac Group
REGISTER OF SPACES - IMAGES



Reg No. Space / Location Classification

S009

Lift Well : Kmart
Mall

Hazardous



S010

Bulkhead : Kmart
Mall - Carpark

Hazardous



S011

Grease Interceptor
Trap : Kmart Mall - Confin ed Space
Carpark

S012

Lift well - 1st
Choice Goods Lift :
Kmart Mall

Hazardous

Mirvac Group
REGISTER OF SPACES



Site: Moonee Ponds Central			PHYSICAL CHARACTERISTICS			IDENTIFIED HAZARD CRITERIA					
Reg No.	Location	Name	Question 1 Is the Space enclosed or partially enclosed?	Question 2 Is the Space intended or designed primarily to be occupied or entered by a person?	Question 3 Is there restricted means of entry or exit?	Question 4 Is there normal atmospheric pressure while a person is in the space?	Question 5A Is there a risk of an atmosphere that does not have a safe oxygen level?	Question 5B Is there a risk of contaminants that may cause injury from fire or explosion?	Question 5C Is there a risk of a harmful concentration of any airborne contaminant?	Question 5D Is there a risk of Engulfment?	Classification
			Requires Yes	Requires No	Requires Yes	Requires Yes	Requires YES to either 5A, B, C or D				Calculated
S001	Carparks	Exhaust plenums	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S002	Carparks	Pump pits	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S003	Kmart Mall - Upper Carpark	Air Handling Units	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S004	Kmart Loading Bay	Grease Interceptor Traps	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S005	Puckle Mall	Lift Well	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S006	Puckle Mall	Ceiling Space	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S007	Coles Loading Bay	Grease Interceptor Traps	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
S008	Kmart Mall	Travellator Pits	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S009	Kmart Mall	Lift Well	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S010	Kmart Mall - Carpark	Bulkhead	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S011	Kmart Mall - Carpark	Grease Interceptor Trap	Yes	No	Yes	Yes	No	No	No	No	Hazardous
S012	Kmart Mall	Lift well - 1st Choice Goods Lift	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Confined Space
							No	No	No	No	Hazardous

Note: Classification of spaces is based on inherent hazards.
A Job Safety Environment Analysis (JSEA) is required before entry to confined or hazardous spaces.

