

# University of South Australia

## Confined Space Audit

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## Acknowledgments

The auditor would like to take this opportunity to thank the management and employees of the University of South Australia for their co-operation, sincerity and tolerance during the occupational health and safety management systems audit.

In particular, Mr Barry Mather (Electrical Services Officer) for his assistance and accompaniment during the audit process. His knowledge and understanding of the campuses was extremely helpful.

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## Executive summary

Sustainable Risk Solutions were engaged by Ms Leanne Haller Facilities Management Unit on behalf of the University of South Australia. The project brief was to carry out an UniSA Confined Space Audit. In line with the requirements a report detailing the findings, together with an action plan for improvement has been produced.

The audit was conducted between the 28 August 2006 and the 27 October 2006 at the Magill Campus, Mawson Lakes campus, City East campus, City West campus, Whyalla campus, Flexible Learning Centre and 160 Currie Street and involved an inspection of each of the documented workspaces in current registers.

The auditor is of the opinion:

- The majority of the documented spaces on the Universities registries are authorised entry only and should be signed accordingly. These spaces are primarily communication and electrical risers, electrical switchboard access, general and airconditioning plant rooms.
- The following provides a summary of determined confined spaces within campuses:

<b>Campus</b>	<b>Number of Confined Spaces Identified</b>	<b>Authorised Entry Only</b>
Magill	7	58
City East	13	196
City West	7	302
Flexible Learning Centre	4	10
160 Currie Street	0	1
Whyalla	5	25
Mawson Lakes	33	309

- There is a need to introduce a maintenance program for all sewer and storm water gatics across all campuses. Many of the gatics are fused/corroded and are unable to be lifted. Many of the gatics have their plastic covers missing preventing the correct fitting of gatic lifters due to ingrained dirt and stones presenting manual handling risks. The maintenance program should include the regular breaking of seals, cleaning and greasing of seals before the replacement of gatic covers

- That the information available with respect to the identification of gatics was difficult. It is suggested that gatics from existing drawings be labelled for better identification of their purpose.
- That the floor hole that provides tunnel access via ladders behind keyed doors presents a significant risk with falls from heights. It is recommended that a hinged steel or aluminium mesh frame be inset into the floor level to prevent accidental falls.
- That the tunnel at the Mawson Lakes campus should remain an authorised access only. Oxygen levels appear to be more than adequate within the tunnel. Sumps within the tunnel as a precautionary measure should remain as confined spaces. To prevent persons entering the sumps the grate covers should be hinged and lockable. Anyone needing to unlock the grate covers will be required to adhere to the confined space permit and procedures.
- Signs are only required to be erected for the preparation of the work in a confined space, during work in a confined space and for completion of the work. There is not a requirement to erect signage for an access hole to a sewer, where access hole was located in a road or footpath until that space is to be entered, thus portable signs could be used. Portable signs would be where spaces are entered on an occasional or infrequent space basis.

# UniSA Confined Space Audit

## Introduction

In 2001, an audit was conducted across all campuses excluding Mawson Lakes for Confined Spaces and Restricted Areas with comprehensive registers developed for each campus. An audit similar had been previously conducted on the Mawson Lakes campus in 1999.

This project was developed to ensure that accurate and up to date information is available for all confined spaces across UniSA owned buildings. The UniSA procedure relating to Confined Spaces is also being updated to reflect a recommended five year timeline for reviewing and conducting audits of confined spaces.

The University does not want to continue with the space categorisation of "Restricted Access/Areas", however, wish to determine whether the spaces are confined or not.

## Scope

The scope and agreed outcomes of the assignment:

- Review actual spaces documented in current registers for accuracy of information/classification.
- Review the format of current registers to determine best practice in provision of audit information.
- Develop new confined space registers (format and content) for each campus location in consultation with UniSA Project Manager and OHSW Services.
- Review signage requirements for all audited spaces to ensure legislative compliance is being met.
- Conduct risk assessments for all designated spaces within new buildings.
- Identify signage requirements for all designated spaces.

## Methodology

- The confined space audit involved both the visual inspection and assessment against the defined criteria for the determination of a confined space in accordance with AS/NZS 2865:2001, and HB 213:2003.
- The following worksites were inspected during the audit process: Magill campus, Mawson Lakes campus, City East campus, City West campus, Whyalla campus, Flexible Learning Centre and 160 Currie Street.

## Legislative Requirements

The legislative requirements for entry into confined spaces in South Australia are defined in the **OHS&W Regulation 1995; Division 2.4 – Confined Spaces**.

The Employers specific requirements are defined;

- “ (1) *An employer must identify any confined space associated with the performance of work and any reasonably foreseeable hazards associated with working in the confined space.*
- (2) *An employer must ensure, before any work which involves entry into a confined space is commenced for the first time, that a risk assessment is undertaken by a competent person.”*

The regulations use the ASNZS 2865 – 2001 “Safe Working in A Confined Space” as an Approved Code of Practice. This standard is designed to provide mandatory guidelines covering all aspects of confined space entry.

### Definition of a confined space

In the event of having to enter a confined space, certain hazards may be present. These hazards can be controlled as long as three basic factors are understood:

1. What is a confined space?
2. What areas on the worksite are confined spaces?
3. What types of hazards exist and how can they be eliminated or controlled?

### “Confined Space

An enclosed or partially enclosed space that is at atmospheric pressure during occupancy and is not intended or designed primarily as a place of work, and –

- (a) is liable at any time to -
  - (i) have an atmosphere which contains potentially harmful levels of contaminant; or
  - (ii) have an oxygen deficiency or excess; or
  - (iii) cause engulfment; and
- (b) could have restricted means of entry and exit.
- (c)

Confined spaces may include, but are not limited to vessels, tanks, bins, hoppers, pits, ducts, sewers, including open-topped spaces such as pits or degreasers.

It is intended where, for the purposes of the confined space entry or work, the characteristics set out in the definition have been controlled or temporarily eliminated, the enclosed or partially enclosed space still remains defined as a confined space and all the safety provisions set out in the standard (AS2865) would still apply (AS2865:2001 – Safe Entry to A confined Space, Appendix C, Sect C2, Note 5)

### Competent Person

A person who has, through a combination of training, education and experience, acquired knowledge and skills enabling that person to perform correctly a specified task.

### Contaminant

Any dust, fume, mist, vapour, biological matter, gas or other substance in liquid or solid form, the presence of which may be harmful to health and safety.

### Entry (to a confined space)

When a person's head, i.e. the breathing zone or upper body is within the boundary of the confined space.

### Atmospheric Monitoring

The continuous measurement of oxygen levels or selected atmospheric contaminants over an uninterrupted duration of time.

### Atmospheric Testing

The short term testing, which is not continuous, of oxygen level and atmospheric contaminants.

### Hot Work

Welding, thermal or oxygen cutting, heating, including fire-producing or spark-producing operations that may increase the risk of fire or explosion.

### Safe Oxygen Range

Minimum oxygen content of 19.5% and a maximum content of 23.5% by volume."  
(AS/NZS 2865:2001)

### **Signage**

Clause 10.46 of AS/NZS 2865, states that "prior to any person entering a confined space, and during any occupancy of the confined space, appropriate signs and protective barriers shall be erected to prevent entry of persons not involved in the work.

Clause 10.61 Signs of HB213:2003, Page 37, further explains that signs should warn against entry by persons other than those authorized to enter a confined space. Employers may also wish to indicate on the signs that entry is permitted after signing the written authority for entry. An appropriate sign is shown below.



FIGURE 9 CONFINED SPACE ENTRY SIGN

(Clause 10.61 Signs of HB213:2003, Page 37)

Signs are only required to be erected for the preparation of the work in a confined space, during work in a confined space and for completion of the work. For example, employers would not be required to erect signage for an access hole to a sewer, where access hole was located in a road or footpath until that space is to be entered, thus portable signs could be used. Portable signs would be where spaces are entered on an occasional or infrequent space basis.

Where unauthorized or unintentional entry to a space is likely to occur and that space is likely to be a confined space, it is recommended that employers erect permanent signage or signage or secure confined spaces with locks to indicate that authorized entry only is permitted.

## Australian Standard Specifications for Danger Signs



(a) Landscape

### APPENDIX C DESIGN OF DANGER SIGN SYMBOLS (Normative)

The DANGER symbol shall comprise a red oval shape with the word DANGER superimposed in white letters. The symbol shall be placed on a black background, covering the full width or height of the sign depending on whether the symbol is at the top or to the left side of the sign.

Design of the symbol shall be as shown in Figure C1.

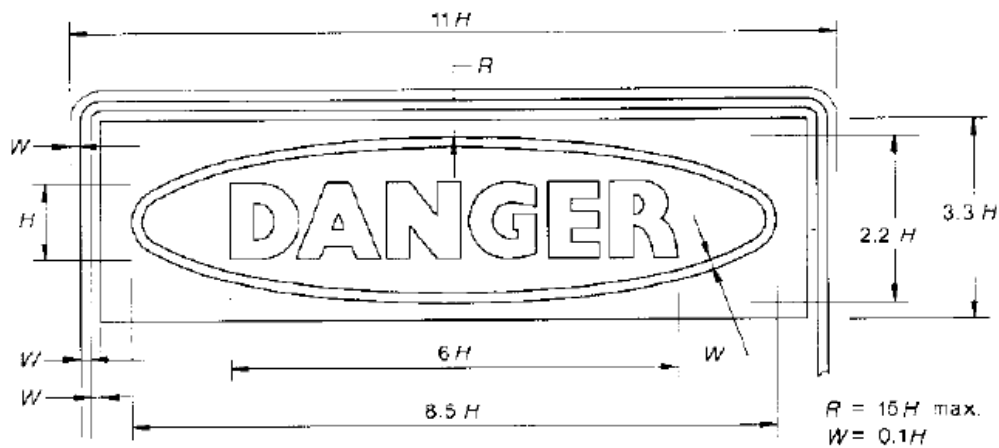
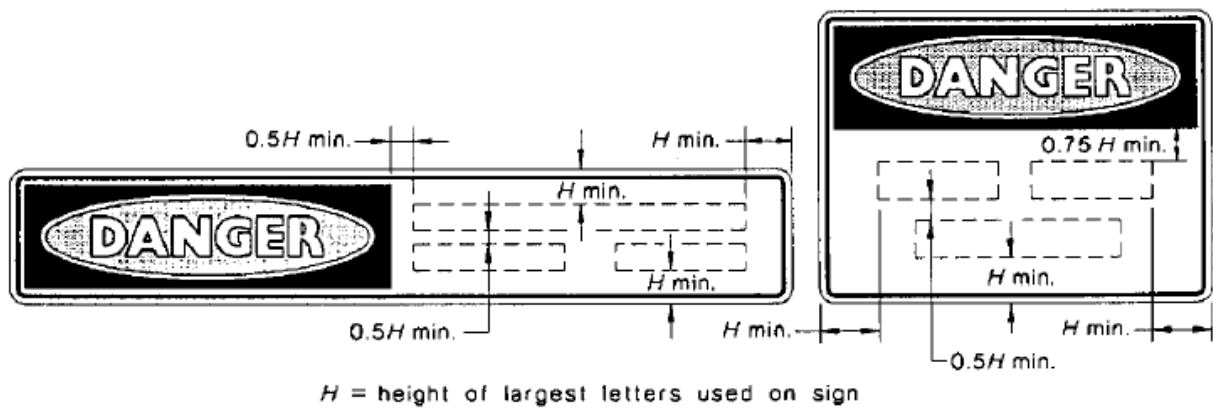


FIGURE C1 DANGER SIGN SYMBOL



NOTES:

- 1 Requirements for the design of the DANGER symbol are given in Appendix C.
- 2 For widths of borders, where provided, see Figure D1.

FIGURE D6 CRITICAL DIMENSIONS FOR DANGER SIGNS

## Confined Space Registry Summary

### Magill campus

#	Description	Location	Potential Hazards
1	Service Sumps (x 2)	Building F, Plant and Pump Room	1,7,8,14,19 & 24
2	Enclosed Sand Filter	Building F, Plant and Pump Room	1,7,8,14,19, 23 & 24
3	Quad Gatic Covered Sewer Pit	Building F, North West Corner	1,2, 7,8, 11, 14,19, 23 & 24
4	Quad Gatic Covered Sewer Pit	Building E, West Lawn Area	1,2, 7,8, 11, 14,19, 23 & 24
5	Quad Gatic Covered Sewer Pit	Building F, North East Corner	1, 2, 7,8,11,14,19, 23 & 24
6	Quad Gatic Covered Sewer Pit	Building C	1, 2, 7,8,11,14,19, 23 & 24

## City East

<b>#</b>	<b>Description</b>	<b>Location</b>	<b>Potential Hazards</b>
1	Sullage Settling pits	Reid Building Northern Wall	1, 7, 8, 14, 20, 24 & 25
2	Sump and Valve Pits	Reid Building, External Service Doors (North/East Side)	1, 7, 8, 14, 20 & 24
3	3 Steel Gatic Covers and Access to Sullage Settling Pits	Reid Building , Northern Side (External Grounds	1, 7, 8, 14, 20 & 24
4	3 Sewer Gatics Pits	Basil Hetzel Building, Northern Side (External)	1, 7, 8, 14, 20, 42 & 26
5	Storm Water Gatics (x3)	Laneway between Brookman and Centenary Buildings.	1, 7, 8, 14, 20 & 24
6	Storm Water Gatics (x3)	Laneway between Brookman and Buildings A.	1, 7, 8, 14, 20 & 24
7	Storm Water Gatics (x4)	Laneway between Playford and Basil Hetzel Building	1, 7, 8, 14, 20 & 24
8	Sump and Pumping System in Corridor	Reid Building Level 0	1, 8 & 20
9	Airconditioning Plant	Western side of Brookman Building between Centenary Building	2, 7, 8, 20 & 26

10	Acid Neutralising Pit	Laneway Between Playford & Bonython Jubilee Buildings	2, 8, 20 & 26
11	2 Poly Water Tanks	Centenary Building, Level 2, C2-17C	1,8 & 20
12	3 Galvanised Water Tanks	Playford Building, Level 8, P8-05	1,8 & 20
13	RO Water Tank	Basil Hetzel Building, H1-26	1,8 & 20

City West

#	Description	Location	Potential Hazards
1	6 Sewer Gatic Covers	Dorrit Black Building, Undercroft DB3-10	1,7,8,14,19, 23 & 24
2	Dust Extractor Hopper and Bin	Dorrit Black Building, Undercroft DB3-10	1,7,8,14,19, 23 & 24

160 Currie Street

#	Description	Location	Potential Hazards
-	-	-	-

### Flexible Learning Centre, Underdale

#	Description	Location	Potential Hazards
1	Storm Water Gatic	Northern Wall	1,8 & 20
2	Storm Water Gatic	Northern Wall	1,8 & 20
3	Storm Water Gatic	Southern Carpark	1,8 & 20
4	Storm Water Gatics	Eastern wall in raised grassed area	1,8 & 20

### Whyalla

No:#	Description	Location	Potential Hazards
1	Underground Rain Water Tank	Building M, Between North and South Wings (external)	1, 7, 8, 14, 20 & 24
2	Sewer Gatic Covers (x 4)	Building J, North West and South West Corners	1, 2, 7, 8, 14, 20, 23, 24 & 26

### Mawson Lakes

#	Description	Location	Potential Hazards
1	Pressure vessel	Building PH	20 & 26
2	Chilled and Hot Water Makeup Vessel	Building PH	1, 8, 20 ,24 & 26
3	Water Makeup Vessel	Building PH	1, 8, 14, 20, 23 & 26
4	Redundant Pressure Vessel	Building PH	1, 8, 20 & 26
5	Steam Generator (decommissioned)	Building M	1, 8, 20 & 26

6	Steam Generator (decommissioned)	Building M	1, 8, 20 & 26
7	Cooling Tower	Building M	1, 8, 20 & 26
8	Poly Tank	Building L	1, 8, 20, 24 & 26
9	Poly Tank	Building L	1, 8, 20, 24 & 26
10	Sand and metal hoppers	Building N, N1-17	8, 20, 23 & 27
11	Green Fibre Glass Water Tank	Building N, N2-06	1, 8, 20 & 23
12	Pump Room	Building N1-14, Water Hydrology	8, 20 & 26
13	Cylindrical Cone Water Reticulation	Building N, N2-06 Roof Top	1, 8, 20 & 26
14	Seepage Pit	Building N Northern Wall	1, 8, 20 & 26
15	Dust Extraction Unit	Building N Northern Wall	1, 8, 20, 23 & 26
16	Cement Water Tanks (x2)	Building N Northern Wall	1,8, 20, 23 & 26
17	Sump	SCT 1-46 General Plant Room	1,8, 20, 23 & 26
18	Sump	Building P	1,8, 20, 23 & 26
19	Acid Neutralising Pits	Building IW, (External)	1,8, 20 & 26
20	Rain Water Tank	Building IW	1,8 & 20
21	Storm Water Sump	Building R Southern Side (External)	1,8 & 20

22	Sewer Gatics (x2)	Building A, Eastern Side (External)	1,7, 11,20, 24 & 26
23	Tunnel Sumps	Buildings F,H J, R, N & M , Western & T Junction Tunnel Sumps	1,8,20 & 26

### Potential Hazards Legend

- |                                |                                  |                              |
|--------------------------------|----------------------------------|------------------------------|
| 1. Low oxygen                  | 10. Electric shock/electrocution | 19. Noisy environment        |
| 2. Asphyxiants                 | 11 . Fire/explosion              | 20. Manual handling          |
| 3. Poisoning (inhalation/skin) | 12. Heat stress                  | 21. Constrained movement     |
| 4. Head impact                 | 13. Cold stress                  | 22. Entrapment               |
| 5. Eye impact                  | 14. Drowning                     | 23. Engulfment               |
| 6. Falling objects             | 15. Burial beneath solids        | 24. Biological               |
| 7. Fall from heights           | 16. Ionizing radiation           | 25. Vermin                   |
| 8. Slips, trips or falls       | 17. Electric shock/electrocution | 26. Atmospheric contaminants |
| 9. Mechanical motion           | 18. Non-ionizing radiation       | 27. Other hazards            |

# **UniSA, Magill campus**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**29 August 2006**

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 01	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building F, Plant and Pump Room	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	Service Sumps (x 2) associated with Enclosed Sand Filter
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Photograph 1 – Sump 1



Photograph 2 – Sump 2



Photograph 3 – Sump 2 (Closed grate & stencil)

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**1. Description of space**

- Sumps (x 2) associated with Enclosed Sand Filter.
- As shown in Photograph 1, 2 & 3 .

**1.1 Description on the use of the Sumps**

- Service sumps associated with the sand filter tank, excess water collection point.

**1.1.1 Type of Structure:**

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** Top grid plates
- **Adequacy for rescue:** considered sufficient
- **Exposure frequency:** Infrequent

**1.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- 4 – 5 metres depth
- Vertical ladder, difficult retrieval of injured person
- Have an oxygen deficiency

**1.1.3 Activities likely to be performed in the Confined Space**

- Servicing & maintenance

**1.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips or falls	• biological

**1.1.5 It is recommended that consideration be given to:**

- Apply lock out and tag out procedure as per UniSA’s work instructions
- JSA to be completed prior to entry (if a JSA hasn’t been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 02	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building F, Plant and Pump Room	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	Enclosed Sand Filter
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Photograph 4 – Enclosed Cement Sand Filter System

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure No.

## 2. Description of space

- Enclosed Sand Filter
- As shown in Photograph 4

### 2.1 Description on the use of the Filter

- Pool Water Cleansing

#### 2.1.1 Type of Structure:

- **Area Contents & use:** Enclosed Cement Tank
- **Access: (Entry & Exit):** Top grid plates (x2), Fixed
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

#### 2.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- 2.5 – 3 metres depth
- Ladder to access top of tank, difficulty retrieval of injured person
- Have an oxygen deficiency

#### 2.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 2.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips or falls	• biological
• engulfment	

#### 2.1.5 It is recommended that consideration be given to:

- Replace existing sign with "Danger, Confined Space, Authorised Entry Only.
- Apply lock out and tag out procedure as per UniSA's work instructions
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 03	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building F, North West Corner	Assessed by: R Palubinski / B Mather

<b>3.0</b>	<b>Description of the Space:</b>	Quad Gatic Covered Sewer Pit
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Photograph 5 – Quad Gatic Covered Sewer Pit

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

### 3. Description of space

- Quad Gatic Covered Sewer Pit. As shown in Photograph 5.

#### 3.1 Description on the use of the Pit

- Access to sewer system

##### 3.1.1 Type of Structure:

- **Area Contents & use:** Enclosed Cement structure
- **Access: (Entry & Exit):** Quad Gatic covers. Gatic ladders required
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

##### 3.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Have an oxygen deficiency
- Atmospheric monitoring required
- Forced ventilation system required

##### 3.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

##### 3.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• asphyxiants	• manual handling
• slips, trips or falls	• biological
• vermin	• fire/explosion
• manual handling	

##### 3.1.5 It is recommended that consideration be given to:

- Portable signage to be used with the "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 04	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building E, West Lawn Area	Assessed by: R Palubinski / B Mather

<b>4.0</b>	<b>Description of the Space:</b>	Quad Gatic Covered Sewer Pit
------------	----------------------------------	------------------------------



Photograph 6 – Quad Gatic Covered Sewer Pit

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

#### 4. Description of space

- Quad Gatic Covered Sewer Pit As shown in Photograph 6

#### 4.1 Description on the use of the Pit

- Access to sewer system

#### 4.1.1 Type of Structure:

- **Area Contents & use:** Enclosed Cement structure
- **Access: (Entry & Exit):** Quad Gatic covers. Gatic ladders required.
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

#### 4.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Have an oxygen deficiency
- Atmospheric monitoring required
- Forced ventilation system required

#### 4.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 4.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• asphyxiants	• manual handling
• slips, trips or falls	• biological
• vermin	• fire/explosion
• manual handling	

#### 4.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 05	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building F, North East Corner	Assessed by: R Palubinski / B Mather

<b>5.0</b>	<b>Description of the Space:</b>	Quad Gatic Covered Sewer Pit
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Photograph 7 – Quad Gatic Covered Sewer Pit

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**5. Description of space**

- Quad Gatic Covered Sewer Pit As shown in Photograph 7

**5.1 Description on the use of the Pit**

- Access to sewer system

**5.1.1 Type of Structure:**

- **Area Contents & use:** Enclosed Cement structure
- **Access: (Entry & Exit):** Quad Gatic covers. Gatic ladders required.
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

**5.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Have an oxygen deficiency
- Atmospheric monitoring required
- Forced ventilation system required

**5.1.3 Activities likely to be performed in the Confined Space**

- Servicing & maintenance

**5.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• asphyxiants	• manual handling
• slips, trips or falls	• biological
• vermin	• fire/explosion
• manual handling	

**5.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only..
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 06	Date: 28 August 2006
Site: University of South Australia Magill Campus	Revision Date: August 2011
Location: Building C, Storm Water Pit	Assessed by: R Palubinski / B Mather

<b>6.0</b>	<b>Description of the Space:</b>	Quad Gatic Covered Storm Water Pit
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Photograph 8 – Quad Gatic Storm Water Pit

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

6. **Description of space**

- Quad Gatic Covered Storm Water Pit. As shown in Photograph 8

6.1 **Description on the use of the Pit**

- Access to storm drainage system

6.1.1 **Type of Structure:**

- **Area Contents & use:** Enclosed Cement structure
- **Access: (Entry & Exit):** Quad Gatic covers. Gatic ladders required.
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

6.1.2 **Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Have an oxygen deficiency
- Atmospheric monitoring required
- Forced ventilation system required

6.1.3 **Activities likely to be performed in the Confined Space**

- Servicing & maintenance

6.1.4 **Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• slips, trips or falls	• manual handling
• vermin	• biological
• manual handling	• fire/explosion

6.1.5 **It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

# **UniSA, City East campus**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**11 September 2006**

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 01	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Reid Building	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	3 Storm Water Sullage Pits
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Photograph 1 – Opened hatch



Photograph 2 – 3 Steel Plate Covers to access hatches

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**1. Description of space**

- 3 Storm water Sullage Pits
- As shown in Photograph 1 & 2

**1.1 Description on the use of the Sullage pits**

- Collection of waste and storm water

**1.1.1 Type of Structure:**

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** 3 steel plates covering entry hatches to pits
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**1.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Undetermined depth water
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

**1.1.3 Activities likely to be performed in the Confined Space**

- Servicing, maintenance and pumping waste

**1.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• vermin
• slips, trips or falls	• manual handling
• biological	

**1.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 02	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Reid, External Service Doors (North/East Side)	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	Sump and Valve Pits
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Photograph 3 – Sump and valve pits



Photograph 4 – Opened Gatic

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

## 2. Description of space

- Sump and valve pits (waste and storm water)
- As shown in Photograph 3 & 4

### 2.1 Description on the use of the Dust Extractor

- Collect of waste and storm water

#### 2.1.1 Type of Structure:

- **Area Contents & use:** Cement structure and underground sump & pit
- **Access: (Entry & Exit):** Top Gatics (3 Access points
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

#### 2.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, requires detachment of roller bin
- Have an oxygen deficiency
- Restricted access/entry

#### 2.1.3 Activities likely to be performed in the Confined Space

- Maintenance, cleaning and pumping of waste material

#### 2.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• slips, trips and falls	• manual handling
• biological	

#### 2.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 03	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Reid , Northern Side (External Grounds)	Assessed by: R Palubinski / B Mather

<b>3.0</b>	<b>Description of the Space:</b>	3 Steel Covers and Access to Sullage Settling Pits
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Photograph 5 – Open Gatic Cover



Photograph 6 – 3 Steel Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

### 3. Description of space

- Sullage Settling Pits
- As shown in Photograph 4

#### 3.1 Description on the use of the Settling Pits

- Storm and waste water collection

##### 3.1.1 Type of Structure:

- **Area Contents & use:** Cement structure pits
- **Access: (Entry & Exit):** Top Gatics
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

##### 3.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person through Gatic
- Have an oxygen deficiency

##### 3.1.3 Activities likely to be performed in the Confined Space

- Cleaning, maintenance and pumping for removal of waste material

##### 3.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• slips, trips and falls	• manual handling
• biological	

##### 3.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only..
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 04	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Basil Hetzel, Northern Side (External Grounds)	Assessed by: R Palubinski / B Mather

<b>4.0</b>	<b>Description of the Space:</b>	3 Sewer Gatics Pits
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Photograph 7 – Open Sewer Gatic



Photograph 8 – 3 Steel Sewer Gatic Covers

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

#### 4. Description of space

- Sewer pits
- As shown in Photograph 7 & 8

#### 4.1 Description on the use of the Sewer Pits

- Sewer

##### 4.1.1 Type of Structure:

- **Area Contents & use:** Cement structure pits
- **Access: (Entry & Exit):** 3 Top Gatics
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

##### 4.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person through Gatic
- Have an oxygen deficiency
- Potential atmospheric contaminants

##### 4.1.3 Activities likely to be performed in the Confined Space

- Access and maintenance

##### 4.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips and falls	• biological
• potential atmospheric contaminants	

##### 4.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 05	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Laneway Between Brookman and Centenary Buildings.	Assessed by: R Palubinski / B Mather

<b>5.0</b>	<b>Description of the Space:</b>	3 Storm Water Gatics
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Photograph 9 – Open Storm Water Gatic Cover



Photograph 10 & 11 Storm Water Gatic Covers

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**5. Description of space**

- Storm water
- As shown in Photograph 9, 10 & 11

**5.1 Description on the use of the Storm Water Access Points**

- Storm Water Access

**5.1.1 Type of Structure:**

- **Area Contents & use:** Cement cylindrical access
- **Access: (Entry & Exit):** 3 Top Gatics
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

**5.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space, 4 - 5 metres depth
- Difficulty retrieval of injured person through Gatic, A frame winch & harness.
- Have an oxygen deficiency

**5.1.3 Activities likely to be performed in the Confined Space**

- Access and maintenance

**5.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips and falls	• biological

**5.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 06	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Laneway Between Brookman and Kafe Buildings.	Assessed by: R Palubinski / B Mather

<b>6.0</b>	<b>Description of the Space:</b>	Storm Water Gatics (x3)
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Photograph 12 Storm Water Gatic Covers

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

## 6. Description of space

- Storm water access
- As shown in Photograph 12

### 6.1 Description on the use of the Storm Water Access Points

- Storm Water Access

#### 6.1.1 Type of Structure:

- **Area Contents & use:** Cement cylindrical access
- **Access: (Entry & Exit):** 3 Top Gatics
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

#### 6.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space, 4 - 5 metres depth
- Difficulty retrieval of injured person through Gatic, "A" frame winch & harness.
- Have an oxygen deficiency

#### 6.1.3 Activities likely to be performed in the Confined Space

- Access and maintenance

#### 6.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips and falls	• biological

#### 6.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 07	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Laneway Between Playford and Basil Hetsel	Assessed by: R Palubinski / B Mather

<b>7.0</b>	<b>Description of the Space:</b>	Storm Water Gatics (x4)
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Photograph 13, 14, 15 - Storm Water Gatic

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

## 7. Description of space

- Storm water access
- As shown in Photograph 12

### 7.1 Description on the use of the Storm Water Access Points

- Storm Water Access

#### 7.1.1 Type of Structure:

- **Area Contents & use:** Cement cylindrical access
- **Access: (Entry & Exit):** 3 Top Gatics
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

#### 7.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space, 4 - 5 metres depth
- Difficulty retrieval of injured person through Gatic, "A" frame winch & harness.
- Have an oxygen deficiency

#### 7.1.3 Activities likely to be performed in the Confined Space

- Access and maintenance

#### 7.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips and falls	• biological

#### 7.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 08	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Reid Building Level 0	Assessed by: R Palubinski / B Mather

<b>8.0</b>	<b>Description of the Space:</b>	Sump and Pumping System in Corridor
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Photograph 16 - Corridor Gatic

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

## 8. Description of space

- Sump and Pumping System
- As shown in Photograph 16

### 8.1 Description on the use of the Sump

- Storage of Waste Water

#### 8.1.1 Type of Structure:

- **Area Contents & use:** Cement pit structure
- **Access: (Entry & Exit):** Top Gatics
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

#### 8.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space
- Difficulty retrieval of injured person through Gatic.
- Have an oxygen deficiency

#### 8.1.3 Activities likely to be performed in the Confined Space

- Access and maintenance

#### 8.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• manual handling
• slips, trips and falls	

#### 8.1.5 It is recommended that consideration be given to:

- "Danger, Confined Space, Authorised Entry Only" to Gatic covers (Stencil in Place).
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 09	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Western side of Brookman Building between Centenary Building	Assessed by: R Palubinski / B Mather

<b>9.0</b>	<b>Description of the Space:</b>	Airconditioning Plant
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Photograph 17 - Air Conditioning Plant

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**9. Description of space**

- Airconditioning Plant
- As shown in Photograph 17

**9.1 Description on the use of the plant**

- Airconditioning and filters

**9.1.1 Type of Structure:**

- **Area Contents & use:** Light Steel fabricated Structure
- **Access: (Entry & Exit):** 2 Front panels
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**9.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space,
- Difficulty in retrieval of injured person through ladder/platform.
- Asphyxiants/atmospheric contaminants if hot work performed within space

**9.1.3 Activities likely to be performed in the Confined Space**

- Access, change of filters and maintenance

**9.1.4 Potential hazards likely to be encountered due to the activities performed:**

• asphyxiants	• atmospheric contaminants
• fall from heights	• manual handling
• slips, trips and falls	

**9.1.5 It is recommended that consideration be given to:**

- "Danger, Confined Space, Authorised Entry Only" (Signage in place).
- Apply lock out and tag out procedure as per UniSA's work instructions
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 10	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Laneway Between Playford & Bonython Jubilee Buildings	Assessed by: R Palubinski / B Mather

<b>10.0</b>	<b>Description of the Space:</b>	Acid Neutralising Pit
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Photograph 18 - Acid Neutralising Pit

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**10. Description of space**

- Acid neutralising pit
- As shown in Photograph 18

**10.1 Description on the use of the pit**

- Neutralising of chemical waste

**10.1.1 Type of Structure:**

- **Area Contents & use:** Cement Collection Pit Structure
- **Access: (Entry & Exit):** Top
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**10.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space,
- Difficulty retrieval of injured person through ladder/platform.
- Asphyxiants/atmospheric contaminants

**10.1.3 Activities likely to be performed in the Confined Space**

- Access, change of filters and maintenance

**10.1.4 Potential hazards likely to be encountered due to the activities performed:**

<ul style="list-style-type: none"><li>• asphyxiants</li></ul>	<ul style="list-style-type: none"><li>• atmospheric contaminants</li></ul>
<ul style="list-style-type: none"><li>• slips, trips and falls</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>

**10.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 11	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Centenary Building, Level 2, C2-17C	Assessed by: R Palubinski / B Mather

<b>11.0</b>	<b>Description of the Space:</b>	2 Poly Water Tanks
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Photograph 19 - 2 Poly Rain Water Tanks

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**11. Description of space**

- Storage of Water
- As shown in Photograph 19

**11.1 Description on the use of the tanks**

- Water storage

**11.1.1 Type of Structure:**

- **Area Contents & use:** Poly
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**11.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space,
- Difficult in retrieval of injured person through ladder/platform.
- Low oxygen, oxygen depletion

**11.1.3 Activities likely to be performed in the Confined Space**

- Cleaning and maintenance

**11.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• manual handling
• slips, trips and falls	

**11.1.5 It is recommended that consideration be given to:**

- Post and appropriately fix "Danger, Confined Space, Authorised Entry Only"
- Apply lock out and tag out procedure as per UniSA's work instructions
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 12	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Playford Building, Level 8, P8 05	Assessed by: R Palubinski / B Mather

<b>12.0</b>	<b>Description of the Space:</b>	3 Galvanised Water Tanks
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Photograph 20 & 21 - 3 Galvanised Water

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**12. Description of space**

- Storage of Water
- As shown in Photograph 20 &21

**12.1 Description on the use of the tanks**

- Water storage

**12.1.1 Type of Structure:**

- **Area Contents & use:** Galvanized
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**12.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space,
- Difficulty retrieval of injured person through ladder/platform.
- Low oxygen, oxygen depletion

**12.1.3 Activities likely to be performed in the Confined Space**

- Cleaning and maintenance

**12.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• manual handling
• slips, trips and falls	

**12.1.5 It is recommended that consideration be given to:**

- Post and appropriately fix "Danger, Confined Space, Authorised Entry Only"
- Apply lock out and tag out procedure as per UniSA's work instructions
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 13	Date: 11 September 2006
Site: University of South Australia City East Campus	Revision Date: September 2011
Location: Basil Hetzel Building, H1-26	Assessed by: R Palubinski / B Mather

<b>13.0</b>	<b>Description of the Space:</b>	RO Water Tank
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Photograph 22 - RO Water Tank

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**13. Description of space**

- Storage of Water
- As shown in Photograph 22

**13.1 Description on the use of the tanks**

- Water storage

**13.1.1 Type of Structure:**

- **Area Contents & use:** Green Poly Tank
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**13.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space,
- Difficulty in retrieval of injured person through ladder/platform.
- Low oxygen, oxygen depletion

**13.1.3 Activities likely to be performed in the Confined Space**

- Cleaning and maintenance

**13.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• manual handling
• slips, trips and falls	

**13.1.5 It is recommended that consideration be given to:**

- Post and appropriately fix "Danger, Confined Space, Authorised Entry Only"
- Apply lock out and tag out procedure as per UniSA's work instructions
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

# **University of South Australia**

**City West Campus**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**31 August 2006**

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 01	Date: 31 August 2006
Site: University of South Australia City West Campus	Revision Date: August 2011
Location: Dorrit Black Building, Undercroft (DB 3-10)	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	6 Sewer Gatics
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Photograph 1



Photograph 2



Photograph 3

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure.

**1. Description of space**

- Sewer Gatic Covers
- As shown in Photograph 1, 2 & 3

**1.1 Description on the use of the Sewer**

- Collection sumps/chambers associated with art schools, clay waste and sludge rather than sewerage

**1.1.1 Type of Structure:**

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** 6 Gatic covers
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

**1.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- 3 metres depth, undetermined depth of sludge depth
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

**1.1.3 Activities likely to be performed in the Confined Space**

- Servicing, maintenance and cleaning

**1.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips or falls	• biological

**1.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 02	Date: 28 August 2006
Site: University of South Australia City West Campus	Revision Date: : August 2011
Location: Dorrit Black, Undercroft Area, DB 3-10	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	Dust Extraction Collection Hopper & Bin
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Photograph 4 – Dust Extraction Hopper and Collection Bin

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 2. Description of space

- Dust Extraction hopper and collection bin
- As shown in Photograph 4

### 2.1 Description on the use of the Dust Extractor

- Dust extraction and collection

#### 2.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated hopper and attached roller bin
- **Access: (Entry & Exit):** Side hatch door
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Rare

#### 2.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Whilst changing filters may fall into hopper and bin
- Difficulty in retrieval of injured person, requires detachment of roller bin
- Have an oxygen deficiency

#### 2.1.3 Activities likely to be performed in the Confined Space

- Replacement of filters

#### 2.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• engulfment	• biological
• noise	

#### 2.1.5 It is recommended that consideration be given to:

- Post sign "Danger, Confined Space, Authorised Entry Only" to hopper & bin.
- Apply lock out and tag out procedure as per UniSA's work instructions
- Develop a standard operating procedure for the changing of filters and isolating the fan that initiates the airblast mechanism
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

# **University of South Australia**

**Flexible Learning Centre**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**19 December 2006**

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 01	Date: 19 December 2006
Site: University of South Australia	Revision Date: December 2011
Location: Flexible Learning Centre, North Wall	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	Storm Water Gatic
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Photograph 1 – Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

**1. Description of space**

- Gatic Cover
- As shown in Photograph 1.

**1.1 Description on the use of the Storm Water**

- Collection sumps/chambers of storm water

**1.1.1 Type of Structure:**

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** Gatic cover
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

**1.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown depth
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

**1.1.3 Activities likely to be performed in the Confined Space**

- Servicing, maintenance and cleaning

**1.1.4 Potential hazards likely to be encountered due to the activities performed:**

<ul style="list-style-type: none"><li>• low oxygen</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>
<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>	

**1.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 02	Date: 19 December 2006
Site: University of South Australia	Revision Date: December 2011
Location: Flexible Learning Centre, North Wall, Lawn	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	Storm Water Gatic
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Photograph 2 – Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces

**2. Description of space**

- Gatic Cover
- As shown in Photograph 2.

**2.1 Description on the use of the Storm Water**

- Collection sumps/chambers of storm water

**2.1.1 Type of Structure:**

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** Gatic cover
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

**2.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown depth
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

**2.1.3 Activities likely to be performed in the Confined Space**

- Servicing, maintenance and cleaning

**2.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• manual handling
• slips, trips or falls	

**2.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Apply lock out and tag out procedure as per UniSA's work instructions
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 03	Date: 19 December 2006
Site: University of South Australia	Revision Date: December 2011
Location: Flexible Learning Centre, North Wall	Assessed by: R Palubinski / B Mather

<b>3.0</b>	<b>Description of the Space:</b>	Storm Water Gatic
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Photograph 3 – Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces

### 3. Description of space

- Gatic Cover
- As shown in Photograph 3.

#### 3.1 Description on the use of the Storm Water

- Collection sumps/chambers of storm water

##### 3.1.1 Type of Structure:

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** Gatic cover
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

##### 3.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown depth
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

##### 3.1.3 Activities likely to be performed in the Confined Space

- Servicing, maintenance and cleaning

##### 3.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• low oxygen</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>
<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>	

##### 3.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Apply lock out and tag out procedure as per UniSA's work instructions
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 04	Date: 19 December 2006
Site: University of South Australia	Revision Date: December 2011
Location: Flexible Learning Centre, East Wall in raised lawn Area	Assessed by: R Palubinski / B Mather

<b>4.0</b>	<b>Description of the Space:</b>	Storm Water Gatic (Dual)
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Photograph 4 – Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

#### 4. Description of space

- Dual Gatic Covers
- As shown in Photograph 4.

#### 4.1 Description on the use of the Storm Water

- Collection sumps/chambers of storm water

##### 4.1.1 Type of Structure:

- **Area Contents & use:** Cement wall structure
- **Access: (Entry & Exit):** Metal Gatic cover
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Rare

##### 4.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown depth
- Vertical ladder, difficulty retrieval of injured person
- May have an oxygen deficiency

##### 4.1.3 Activities likely to be performed in the Confined Space

- Servicing, maintenance and cleaning

##### 4.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• low oxygen</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>
<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>	

##### 4.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- Job Safety Analysis to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

# **University of South Australia**

**Whyalla Campus**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**17 October 2006**

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 01	Date: 17 October 2006
Site: University of South Australia Whyalla Campus	Revision Date: October 2011
Location: Between North and South Building	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	Underground Rain Water Tank
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Photograph 1 – Underground Rain water Tank



As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

**1. Description of space**

- Underground Rain Water Tank
- As shown in Photograph 1

**1.1 Description on the use of the Rain Water Tank**

- Cement Underground Tank, Unknown depth

**1.1.1 Type of Structure:**

- **Area Contents & use:** Cement holding tank structure
- **Access: (Entry & Exit):** Top Gatic Cover plates
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

**1.1.2 Justification**

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown depth
- Vertical ladder, difficulty retrieval of injured person
- Have an oxygen deficiency

**1.1.3 Activities likely to be performed in the Confined Space**

- Servicing & maintenance

**1.1.4 Potential hazards likely to be encountered due to the activities performed:**

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips or falls	• biological

**1.1.5 It is recommended that consideration be given to:**

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 02	Date: 17 October 2006
Site: University of South Australia Magill Campus	Revision Date: October 2011
Location: North West and South West Corners Nurses Training Building	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	4 Sewer Gatic Covers
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Photograph 2, 3, 4 and 5 – Sewer Gatic Covers

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 2. Description of space

- Sewer Access
- As shown in Photograph 2,3, 4 & 5

### 2.1 Description on the use of the Sewer

- Sewer Access pits

#### 2.1.1 Type of Structure:

- **Area Contents & use:** Cement Pits
- **Access: (Entry & Exit):** Top Gatic
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

#### 2.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Unknown Depth
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants

#### 2.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 2.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• fall from heights	• manual handling
• slips, trips or falls	• biological
• engulfment	• atmospheric contaminants

#### 2.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only..
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

# **UniSA, Mawson Lakes campus**

## **Confined Space Identification & Assessment Report**

**Date of Assessment**

**27 October 2006**

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 01	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: Power House	Assessed by: R Palubinski / B Mather

<b>1.0</b>	<b>Description of the Space:</b>	Pressure Vessel
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Photograph 1 – Pressure Vessel



As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 1. Description of space

- Pressure Vessel
- As shown in Photograph 1

### 1.1 Description on the use of the Pressure Vessel

- Compressed air

#### 1.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated Cylinder
- **Access: (Entry & Exit):** Side Cover plate
- **Adequacy for rescue:** Considered insufficient
- **Exposure frequency:** Very Rare

#### 1.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.

#### 1.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 1.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• Potential atmospheric contaminants with any hot work performed</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>
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#### 1.1.5 It is recommended that consideration be given to:

- Replace existing sign with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 02	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: Power House	Assessed by: R Palubinski / B Mather

<b>2.0</b>	<b>Description of the Space:</b>	Chilled and Hotwater Makeup Vessel
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Photograph 2 Chilled and Hotwater Makeup

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 2. Description of space

- Makeup Vessels
- As shown in Photograph 2

### 2.1 Description on the use of the vessel

- Chilled and Hot Water Storage

#### 2.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated Vessels
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

#### 2.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants

#### 2.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 2.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• manual handling
• atmospheric contaminants with any hot work	• biological
• slips, trips or falls	

#### 2.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 03	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: Power House	Assessed by: R Palubinski / B Mather

<b>3.0</b>	<b>Description of the Space:</b>	Water Makeup Vessel
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Photograph 3. Water Makeup Vessel

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

### 3. Description of space

- Water Makeup Vessel
- As shown in Photograph 3

#### 3.1 Description on the use of the Vessel

- Steel Fabricated Vessel for water storage

##### 3.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated Vessels
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered sufficient
- **Exposure frequency:** Very Rare

##### 3.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants

##### 3.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

##### 3.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• drowning
• atmospheric contaminants with any hotwork	• manual handling
• slips, trips or falls	• biological

##### 3.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 04	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: Power House	Assessed by: R Palubinski / B Mather

<b>4.0</b>	<b>Description of the Space:</b>	Redundant Pressure Vessel
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Photograph 4. Redundant Vessel

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

#### 4. Description of space

- Redundant Pressure Vessel
- As shown in Photograph 4

#### 4.1 Description on the use of the Vessel

- Steel Fabricated Vessel (redundant)

##### 4.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated vessel
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

##### 4.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants if hot work performed

##### 4.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

##### 4.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• slips, trips or falls
• atmospheric contaminants with any hot work	• manual handling

##### 4.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 05	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: M Building	Assessed by: R Palubinski / B Mather

<b>5.0</b>	<b>Description of the Space:</b>	Steam Generator (decommissioned)
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Photograph 5. Steam generator

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 5. Description of space

- Steam Generator Vessel
- As shown in Photograph 5

### 5.1 Description on the use of the Vessel

- Steel Fabricated Vessel (decommissioned)

#### 5.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated vessel
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

#### 5.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants if hot work performed

#### 5.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 5.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• slips, trips or falls
• atmospheric contaminants with any hot work	• manual handling

#### 5.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 06	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: M Building	Assessed by: R Palubinski / B Mather

<b>6.0</b>	<b>Description of the Space:</b>	Steam Generator (decommissioned)
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Photograph 6. Steam generator

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 6. Description of space

- Steam Generator Vessel
- As shown in Photograph 6

### 6.1 Description on the use of the Vessel

- Fabricated corrugated iron structure (decommissioned)

#### 6.1.1 Type of Structure:

- **Area Contents & use:** Corrugated iron structure
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

#### 6.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants if hot work performed

#### 6.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 6.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• low oxygen</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• atmospheric contaminants with any hot work</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>

#### 6.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

## DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE

Confined Space Register No.: 07	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: M Building	Assessed by: R Palubinski / B Mather

<b>7.0</b>	<b>Description of the Space:</b>	Cooling Tower
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Photograph 7. Cooling Tower

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 7. Description of space

Cooling Tower

- As shown in Photograph 7

### 7.1 Description on the use of the Cooling Tower

- Fabricated Fibre Glass Structure (Turbine Condenser) for airconditioning

#### 7.1.1 Type of Structure:

- **Area Contents & use:** Fabricated Fibre Glass Structure
- **Access: (Entry & Exit):** Side hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

#### 7.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants if hot work performed

#### 7.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance by contractors

#### 7.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• low oxygen</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• oxygen deficiency/atmospheric contaminants with any hot work</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>

#### 7.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage in place*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 08	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: L Building	Assessed by: R Palubinski / B Mather

<b>8.0</b>	<b>Description of the Space:</b>	Poly Tank
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Photograph 8. Poly Tank

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 8. Description of space

Water Tank

- As shown in Photograph 8

### 8.1 Description on the use of the water tank

- Poly water storage tank

#### 8.1.1 Type of Structure:

- **Area Contents & use:** poly Tank
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

#### 8.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants

#### 8.1.3 Activities likely to be performed in the Confined Space

- Servicing & maintenance

#### 8.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• slips, trips or falls
• oxygen deficiency/atmospheric contaminants	• manual handling
• biological	

#### 8.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 09	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: L Building	Assessed by: R Palubinski / B Mather

<b>9.0</b>	<b>Description of the Space:</b>	Poly Tank
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Photograph 9. Poly Tank

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 9. Description of space

Water Tank

- As shown in Photograph 9

### 9.1 Description on the use of the water tank

- Poly water storage tank use with research conducted on sewerage

#### 9.1.1 Type of Structure:

- **Area Contents & use:** Poly Tank
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered difficult access
- **Exposure frequency:** Very Rare

#### 9.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Have an oxygen deficiency/atmospheric contaminants

#### 9.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 9.1.4 Potential hazards likely to be encountered due to the activities performed:

• low oxygen	• slips, trips or falls
• oxygen deficiency/atmospheric contaminants	• manual handling
• biological	

#### 9.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 10	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building	Assessed by: R Palubinski / B Mather

<b>10.0</b>	<b>Description of the Space:</b>	Sand and metal hoppers
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Photograph 10 & 11. Steel fabricated hoppers

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure No.

## 10. Description of space

Metal and Sand Storage Hoppers

- As shown in Photograph 10 and 11

### 10.1 Description on the use of the hoppers

- Storage of sand and metal

#### 10.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated metal hopper
- **Access: (Entry & Exit):** Open top
- **Adequacy for rescue:** Considered adequate access
- **Exposure frequency:** Rare

#### 10.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Possible engulfment

#### 10.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 10.1.4 Potential hazards likely to be encountered due to the activities performed:

• bridging of sand	• slips, trips or falls
• engulfment	• manual handling

#### 10.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Signage already posted*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 11	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building, N2-06	Assessed by: R Palubinski / B Mather

<b>11.0</b>	<b>Description of the Space:</b>	Green Fibreglass Water Tank
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Photograph 12. Fibre Glass Water Tank

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 11. Description of space

Fibre glass rain water tank

- As shown in Photograph 12

### 11.1 Description on the use of the storage tank

- Storage of water

#### 11.1.1 Type of Structure:

- **Area Contents & use:** fibreglass storage water tank
- **Access: (Entry & Exit):** Top
- **Adequacy for rescue:** Considered adequate access
- **Exposure frequency:** Rare

#### 11.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Possible engulfment
- Biological and oxygen depletion

#### 11.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 11.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• biological and oxygen depletion</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• engulfment</li></ul>	<ul style="list-style-type: none"><li>• manual handling</li></ul>

#### 11.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 12	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building , Water Hydrology Area	Assessed by: R Palubinski / B Mather

<b>12.0</b>	<b>Description of the Space:</b>	Pump Room
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Photograph 13. Pump Room

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 12. Description of space

Pump Room

- As shown in Photograph 13

### 12.1 Description on the use of the pump room

- Access to pumps

#### 12.1.1 Type of Structure:

- **Area Contents & use:** Cement structure room
- **Access: (Entry & Exit):** Trap door
- **Adequacy for rescue:** Considered adequate access, ladder access
- **Exposure frequency:** periodically

#### 12.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person

#### 12.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance on pumps

#### 12.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants if hot work performed	• slips, trips or falls
• manual handling	

#### 12.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 13	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building, Water Hydrology Area	Assessed by: R Palubinski / B Mather

<b>13.0</b>	<b>Description of the Space:</b>	Cylindrical Cone – Water Reticulation
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Photograph 14. Cylindrical Cone (Water Reticulation System)

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

### 13. Description of space

Cylindrical cone

- As shown in Photograph 14

#### 13.1 Description on the use of the cylindrical cone

- Water reticulation

##### 13.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated structure
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered adequate access, ladder access
- **Exposure frequency:** Very Rare

##### 13.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, ladder access

##### 13.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance on reticulation system

##### 13.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• atmospheric contaminants if hot work performed</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• manual handling</li></ul>	<ul style="list-style-type: none"><li>• biological and oxygen depletion</li></ul>

##### 13.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 14	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building, Northern wall	Assessed by: R Palubinski / B Mather

<b>14.0</b>	<b>Description of the Space:</b>	Seepage Pit
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Photograph 15. Seepage Pit

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 14. Description of space

Seepage pit

- As shown in Photograph 15

### 14.1 Description on the use of the pit

- Water collection

#### 14.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated structure
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered adequate access, ladder access, 7-8m depth
- **Exposure frequency:** Very Rare

#### 14.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, ladder access

#### 14.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 14.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• atmospheric contaminants</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• manual handling</li></ul>	<ul style="list-style-type: none"><li>• biological and oxygen depletion</li></ul>

#### 14.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Replace weathered sign*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 15	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building Northern	Assessed by: R Palubinski / B Mather

<b>15.0</b>	<b>Description of the Space:</b>	Dust Extraction Unit
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Photograph 16. Dust Extraction unit

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 15. Description of space

Dust Extraction unit

- As shown in Photograph 16

### 15.1 Description on the use of the extraction unit

- Dust collection

#### 15.1.1 Type of Structure:

- **Area Contents & use:** Steel fabricated structure
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered inadequate access, ladder access
- **Exposure frequency:** Very Rare

#### 15.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, ladder access
- Engulfment
- Oxygen depletion

#### 15.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 15.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	• engulfment
• oxygen depletion	

#### 15.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Replace weathered sign*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- If welding is required a Hot Work permit MUST be filled out
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 16	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: N Building Northern	Assessed by: R Palubinski / B Mather

<b>16.0</b>	<b>Description of the Space:</b>	Cement Water Tanks
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Photograph 17. Cement Water Tanks

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	Yes	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 16. Description of space

Water Tanks

- As shown in Photograph 17

### 16.1 Description on the use of the water tanks

- Storage of water

#### 16.1.1 Type of Structure:

- **Area Contents & use:** Cement water tanks
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered inadequate access, ladder access
- **Exposure frequency:** Very Rare

#### 16.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, ladder access
- Engulfment
- Biological and Oxygen depletion

#### 16.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 16.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	• engulfment
• biological oxygen depletion	

#### 16.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only. (*Replace weathered signs*)
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 17	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: SCT General Plant Room	Assessed by: R Palubinski / B Mather

<b>17.0</b>	<b>Description of the Space:</b>	Sump
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Photograph 18. - Sump

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

\  
If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 17. Description of space

Sump

- As shown in Photograph 18

### 17.1 Description on the use of the sump

- Storage of water

#### 17.1.1 Type of Structure:

- **Area Contents & use:** Cement Structure
- **Access: (Entry & Exit):** Open sump (Grate Cover)
- **Adequacy for rescue:** Considered adequate access, ladder access
- **Exposure frequency:** Very Rare

#### 17.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person, ladder access
- Depth 2 metres
- Biological Algae and Oxygen depletion

#### 17.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 17.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	• engulfment
• algae - oxygen depletion	

#### 17.1.5 It is recommended that consideration be given to:

- Post Signage and appropriately fix with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry if required to enter into the sump(if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001
- Use pulley system to remove and access pumps from sump

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 18	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: P Building	Assessed by: R Palubinski / B Mather

<b>18.0</b>	<b>Description of the Space:</b>	Sump
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Photograph 19.

As per AS/NZS 2865: 2001 "Safe working in a confined space."			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an "Entry permit" **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 18. Description of space

Sump

- As shown in Photograph 19

### 18.1 Description on the use of the sump

- Storage of water

#### 18.1.1 Type of Structure:

- **Area Contents & use:** Cement Structure
- **Access: (Entry & Exit):** Open sump (Grate Cover)
- **Adequacy for rescue:** Considered adequate access, ladder access
- **Exposure frequency:** Very Rare

#### 18.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Depth 2 metres
- Difficulty retrieval of injured person, ladder access
- Biological Algae and Oxygen depletion

#### 18.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 18.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	• engulfment
• algae - oxygen depletion	

#### 18.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only (Signage in situ)
- JSA to be completed prior to entry if required to enter into the sump(if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001
- Use pulley system to remove and access pumps from sump

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 19	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: IW Building	Assessed by: R Palubinski / B Mather

<b>19.0</b>	<b>Description of the Space:</b>	Acid Neutralising Pits
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Photograph 20. – Acid Neutralising Pits

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 19. Description of space

- Acid Neutralising Pits
- As shown in Photograph 20

### 19.1 Description on the use of the pit

- Neutralise chemicals

#### 19.1.1 Type of Structure:

- **Area Contents & use:** Collection and storage of chemicals for neutralising
- **Access: (Entry & Exit):** Steel checker plate cover
- **Adequacy for rescue:** Considered adequate access,
- **Exposure frequency:** Very Rare

#### 19.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Atmospheric contaminants

#### 18.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 19.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	

#### 19.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry if required to enter into the sump(if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 20	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: IW Building	Assessed by: R Palubinski / B Mather

<b>20.0</b>	<b>Description of the Space:</b>	Rain Water Tank
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Photograph 21. – Black Poly Rain water Tank

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 20. Description of space

- Water Storage
- As shown in Photograph 21

### 20.1 Description on the use of the tank

- Water storage

#### 20.1.1 Type of Structure:

- **Area Contents & use:** Water storage
- **Access: (Entry & Exit):** Top hatch
- **Adequacy for rescue:** Considered adequate access,
- **Exposure frequency:** Very Rare

#### 20.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Atmospheric contaminants –algae oxygen depletion

#### 20.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 20.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants –algae and oxygen depletion	• slips, trips or falls
• manual handling	

#### 20.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry if required to enter into the sump(if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 21	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: R Building , Southern Side	Assessed by: R Palubinski / B Mather

<b>21.0</b>	<b>Description of the Space:</b>	Storm water sump
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Photograph 22 and 23. – Storm water sump

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 21. Description of space

- Water Storage
- As shown in Photograph 22 and 23

### 21.1 Description on the use of the tank

- Water storage

#### 21.1.1 Type of Structure:

- **Area Contents & use:** water storage
- **Access: (Entry & Exit):** Checker Plate Cover
- **Adequacy for rescue:** Considered adequate access,
- **Exposure frequency:** Very Rare

#### 21.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Atmospheric contaminants –algae oxygen depletion

#### 21.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 21.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants –algae and oxygen depletion	• slips, trips or falls
• manual handling	

#### 21.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry if required to enter into the sump(if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit)as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 22	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: A Building, Eastern Side	Assessed by: R Palubinski / B Mather

<b>22.0</b>	<b>Description of the Space:</b>	Sewer Gatic x 2
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Photograph 24. – Sewer Gatic Cover

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 22. Description of space

- Sewer x 2
- As shown in Photograph 24

### 22.1 Description on the use of the sewer

- Sewer access

#### 22.1.1 Type of Structure:

- **Area Contents & use:** Sewer
- **Access: (Entry & Exit):** Sewer gatic
- **Adequacy for rescue:** Considered adequate access,
- **Exposure frequency:** Very Rare

#### 22.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Atmospheric contaminants

#### 22.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 22.1.4 Potential hazards likely to be encountered due to the activities performed:

• atmospheric contaminants	• slips, trips or falls
• manual handling	• fall from heights
• low oxygen	• explosion/fire
• biological	

#### 22.1.5 It is recommended that consideration be given to:

- Portable signage to be used with "Danger, Confined Space, Authorised Entry Only.
- JSA to be completed prior to entry (if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001

**DETERMINATION OF A SPACE TO UNDERSTAND IF IT IS A CONFINED SPACE**

Confined Space Register No.: 23	Date: 27 October 2006
Site: University of South Australia Mawson Lakes Campus	Revision Date: October 2011
Location: F,H J, R, N & M Building Western & T Junction Tunnel Sumps	Assessed by: R Palubinski / B Mather

<b>23.0</b>	<b>Description of the Space:</b>	Tunnel Sump
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Photograph 25. –Tunnel Sumps

As per AS/NZS 2865: 2001 “Safe working in a confined space.”			
This is a CONFINED SPACE	<input checked="" type="checkbox"/>	This is Not a Confined Space but other controls may need to be in place to minimise risk	<input type="checkbox"/>

AND			OR			AND
Enclosed or partially enclosed	Atmospheric pressure during occupancy	Not intended as a place of work	Potential atmospheric contaminants	Potential O2 deficiency or excess	May cause engulfment	Restricted entry or exit
Yes	Yes	Yes	Yes	Yes	No	Yes

This document only looks at the management of risks in, and related to, a confined space. Other areas or spaces may need to have a risk assessment completed and control actions put in place to ensure the minimisation of risk.

If the criteria for CONFINED SPACE entry have been met then:-

- All entry or Exit points must be sign posted as such.
- A risk assessment **must** be completed before entry.
- Before entry (even entry of head and shoulders) an “Entry permit” **must** be completed and signed by a Responsible line manager and all people who enter.
- For further information refer to Health & Safety Procedure for Confined Spaces.

## 23. Description of space

- Sump
- As shown in Photograph 25

### 23.1 Description on the use of the sump

- Sump

#### 23.1.1 Type of Structure:

- **Area Contents & use:** Sump
- **Access: (Entry & Exit):** Metal grate
- **Adequacy for rescue:** Considered adequate access,
- **Exposure frequency:** Very Rare

#### 23.1.2 Justification

- The breathing zone or upper body is within the boundary of the confined space.
- Difficulty retrieval of injured person
- Varying Depth from 1.2 to 1.7 metres depth
- Potential atmospheric contaminants

#### 23.1.3 Activities likely to be performed in the Confined Space

- Cleaning & maintenance

#### 23.1.4 Potential hazards likely to be encountered due to the activities performed:

<ul style="list-style-type: none"><li>• potential atmospheric contaminants</li></ul>	<ul style="list-style-type: none"><li>• slips, trips or falls</li></ul>
<ul style="list-style-type: none"><li>• manual handling</li></ul>	

#### 23.1.5 It is recommended that consideration be given to:

- Signage with "Danger, Confined Space, Authorised Entry Only (*Signage already Posted*).
- JSA to be completed prior to entry if required to enter into the sump (if a JSA hasn't been completed)
- Use appropriate P.P.E. for the task being performed
- Ensure that a spotter is used on the task
- Fill out confined space entry permit (and adhere to all conditions on the permit) as per AS / NZS 2865:2001
- Use chain/rope pulley system to remove and access pumps from sump, SOP required.