# CONTRACTOR ASBESTOS MANAGEMENT GUIDE

# For ACM Related Works on Telstra's Network

Version: 10 Issued: 20 March 2015 ASA-3148





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### 1.0 INTRODUCTION

This document is aimed at providing contractors with a set of minimum requirements and expectations when undertaking work where asbestos is present or likely to be present during works associated with Telstra's Network.

This document is divided into the following key areas:

- ACM Activities and SWMS Requirements
- Non-friable Asbestos Removal
  - Licensing and Competency Requirements
  - Clearance Certificate Requirements
  - Statutory Notification Requirements
- Friable Asbestos Removal
- Asbestos Transport, Storage and Disposal Requirements and excess soil management requirements
- Guidance on the prevalence of Asbestos Containing Pits and Ducts in Telstra's network

Prior to the commencement of any ACM modification or removal works alternatives to the disturbance or modification of ACM products <u>must</u> always be considered as a first option. Only after ruling out these alternatives on the grounds of reasonable practicability should modification works be considered.

### Works in Telstra's Access Network

Telstra requires Contractors to treat all non-plastic pits and cement ducts/conduits as potentially containing asbestos, and apply the processes outlined in this document accordingly.

All excess soils need to comply with the requirements set out in the Excess Soil Management Process document AXR-6145.

### Works in Telstra's Equipment Building Network

Contractors accessing Telstra's Equipment Building Network in accordance with our access requirements will participate in the WINS (Working in Network Sites) process, which includes specific requirements to provide documentation of proposed works to the relevant facilities manager. This document does not replace any part of the requirements of the WINS process.

**Note:** Telstra requires its contractors to ensure that all of their workers (direct or subcontracted) comply with the requirements of this document.

### 1.1 Document Hierarchy





### 2.0 **DEFINITIONS**

TERM	DEFINITION			
Access Network	The parts of Telstra's telecommunications infrastructure made up of housings, ducts, pits, manholes and lead-in conduit.			
ACM	Asbestos Containing Material			
Asbestos Removal Works	"Work undertaken to deliberately remove all or part of an in-situ ACM product"			
	This means the intentional removal of pieces of asbestos material from a location e.g. removing sections of vinyl tiles. This excludes the removal of decontamination materials to wipe down tools and surfaces.			
	This definition is consistent with the WHS regulations and Codes of Practice which defines 'asbestos removal work' as:			
	<ul> <li>Work involving the removal of asbestos or ACM; or</li> </ul>			
	Class A or Class B licensed asbestos removal work.			
Asbestos Disturbance Works	"Work undertaken that has the potential to disturb an in-situ ACM product"			
	This means work undertaken where ACM products are present and have the ability to be disturbed without deliberate removal occurring. e.g. fixing something to an ACM Sheet Wall such as signage or a fire extinguisher (using screws).			
	This definition includes the disposal of decontamination materials following an activity that is required to touch / interact with ACM products.			
Cellulose fibre	Plant based fibre typically used in paper making.			
Equipment Building Network	The parts of Telstra's telecommunications infrastructure made up of buildings or any part of a building owned or leased by Telstra, and used primarily to house telecommunications assets.			
Fibre Cement	A cement product that contains fibrous material to provide structural rigidity. The fibres can either be asbestos or cellulose fibre.			
Friable (asbestos)	A type of asbestos that, when dry, may be crumbled, pulverised or reduced to powder by hand pressure.			
Inert Waste	Solid waste that has no active chemical or biological properties. These wastes do not undergo environmentally significant physical, chemical or biological transformation and have negligible potential to cause environmental harm.			
Non-Friable (asbestos)	A type of asbestos that, when dry, cannot be crumbled, pulverised or reduced to powder by hand pressure.			
Workplace Assessment (WPA)	Process to verify that workers engaged to complete Key ACM Activities are assessed as being able to work to the SWMS of their company.			



### 3.0 SWMS REQUIREMENTS FOR ACM ACTIVITIES

### 3.1 Key ACM Related Activities

The WHS Regulations identify works that disturb or are likely to disturb asbestos as being "High Risk Construction Work", and therefore require the development and implementation of a Safe Work Method Statement (SWMS).

Contractors that are not operating under Telstra's direct supervision are to provide and work to SWMS that meet or exceed relevant WHS/OHS Legislative requirements, have been reviewed by an occupational hygienist, and meet the requirements of Telstra's ACM SWMS Review Checklists (where applicable).

Specifically, Telstra has identified the following key activities that are likely to require the disturbance of Asbestos within our network infrastructure (*Key ACM Activities*):

- ACM Pit Removal;
- ACM Pit Break-In;
- ACM Duct Removal and Repair;
- Collection of ACM Debris;
- Cutting ACM Vinyl Tiles in Telstra Exchanges; and
- Make Safe Damaged ACM Pits.

If a contractor is performing any of the *Key ACM Activities*, the contractor must develop and work to SWMS that meet the requirements of the SWMS checklist and meet the minimum controls documented within the sample SWMS provided.

Where a contractor SWMS does not meet the minimum requirements of the SWMS Checklist, the contractor will be advised to review their SWMS taking the points not addressed into consideration prior to the commencement of works.

No contractor shall be permitted to engage in ACM related works without going through a Telstra review and verification process, including a review of SWMS and associated processes for adequacy (for work in the Access Network) and verification process for work in the Equipment Building Network. Your Telstra contact will provide you with details of the verification process.

For additional information refer to the following:

- Appendix 1 Contractor SWMS Checklist
- <u>Appendix 2 Sample SWMSs</u>

**NOTE:** Contractors are to take their own requirements and expertise into consideration when viewing the sample SWMS, and are not to solely rely on the documents as a substitute for creating their own SWMS.

### 3.2 Other ACM Related Activities

Where an activity requires the disturbance (or likely disturbance) of Asbestos but falls outside of the *Key ACM Activities*, the contractor must notify Telstra (via their Telstra contact) of their intent to complete the task, and provide a SWMS for the proposed activity that identifies the following:

- The training and competency required to complete the activity
- Site setup requirements (including traffic management and location of underground assets if applicable)
- Processes to prevent the creation / spread of airborne asbestos fibres
- The tools to be used to complete the activity (no power tools are to be used directly on ACM without authorisation from Telstra's HSW Team following detailed risk assessment and consultation with a hygienist)
- Decontamination processes / requirements
- Potential contaminated soil identification and handling requirements



- Transport and disposal requirements for ACM waste and excess soil (where applicable).
- Details of worker induction into the SWMS

Works are not to commence until the relevant Contract Manager, a member of the Telstra HSW Team or one of their delegates completes a review of the SWMS using the Contractor SWMS Checklist. Your Telstra contact will notify you of the progress of the review.

For additional information refer to the following:

• <u>Appendix 1 – Contractor SWMS Checklist</u>

### 3.3 **Prohibited Activities**

The following activities are strictly prohibited, and should not be completed on Telstra infrastructure:

• Positive pressure roping (blowing) in ACM Ducts

**NOTE:** Activities not included on the list above may still not be permitted. Each activity is to be assessed on its merits, and meet Telstra and minimum legislative requirements.

### 4.0 TELSTRA PIT AND DUCT/CONDUIT REMEDIATION

Due to the prevalence of ACM Pits and Conduits within Telstra's Access Network, Telstra does not consider it to be reasonably practicable to simply remove Asbestos related infrastructure when it is encountered.

A risk based approach / assessment must be applied to determine the structural integrity of the infrastructure and determine whether asbestos related work is permissible (consistent with relevant Codes of Practice) or if removal is required. In short, ACM infrastructure will be removed where it presents as an unacceptable health hazard or where the proposed will work expedite the deterioration of the ACM.

The assessment to be applied is outlined in s10.1 "ACM Related Work Assessment"

### 4.1 ACM Related Work Assessment in Telstra's Access Network

Prior to commencing any Asbestos related works in the Access Network, workers are to consider alternative construction methods that will avoid asbestos disturbance.

Where no other alternatives have been identified, the following process must be followed:

- If the ACM pit/conduit/duct is deteriorated with extensive loose cement debris present or has lost its structural integrity:
  - the asbestos related work should not proceed (unless using a split conduit repair kit or pit collar replacement); and
  - the pit or conduit should be removed and replaced as soon as practicable by competent workers in accordance with Section 6 of this document "Non-Friable Asbestos Removal"
- If the pit/conduit/duct has cracks or fractures that extend through its thickness and along its depth or length, then the following must be considered prior to commencing modification works:
  - Is it likely that modification works will accelerate deterioration of the ACM?
  - Is it likely that modification works will cause unacceptable health risk to others?

If yes, the pit/conduit/duct is to be removed and replaced as soon as practicable by competent workers in accordance with Section 6 of this document "Non-Friable Asbestos Removal"

 If the ACM pit/conduit/duct is free from damage or deterioration, modification works may be considered in accordance with Section 6 of this document "Non-Friable Asbestos Removal"



### 5.0 NON-FRIABLE ASBESTOS REMOVAL

### 5.1 Licensing and Competency Requirements

Telstra requires that contractors completing activities that disturb or alter ACM be appropriately trained and competent to complete the works that they have been engaged to complete.

As a minimum, Telstra requires that contractor employees (including their subcontractors) completing ACM works hold the following minimum competencies (or approved equivalents) prior to commencing any ACM related activities:

- Remove Non-Friable Asbestos (CPCCDE3014A)
- Work Safely in the Construction Industry (CPCCOHS1001A)

Further, for all ACM works, a supervisor who has completed the Supervise Asbestos Removal (CPCCBC4051A) competency in addition to those nominated above, must be readily available at the worksite

### 5.1.1 Class B Asbestos Removalist Requirements

Telstra requires contractor companies completing non-friable ACM removal or disturbance to hold a Class B license for the removal of non friable asbestos (or state/territory regulator approved equivalent) as a minimum.

Workers completing non-friable ACM removal or disturbance must be a direct employee of the Class B License holder

### 5.2 Workplace Assessment (WPA) / Chief Operating Officer (COO) Endorsement Requirements

Contractors engaged to complete 'Key ACM Activities' as identified in this document are to:

- Only engage workers that have successfully completed the Workplace Assessment process
- Only engage workers that have a current COO endorsement or COO delegated endorsement status as 'Endorsed'
- Not engage workers with a lapsed or 'not endorsed' COO status

**NOTE:** Telstra will conduct periodic audits and inspections to verify the COO endorsement status of workers completing Key ACM Activities. Contracting companies found to be operating outside of the requirements above may be subject to significant contractual penalties.

### 5.3 Notification Requirements

Contractors completing ACM works are to:

- Notify the State/Territory based Workplace Safety Regulator in accordance with the WHS/OHS Regulations that apply to the State/Territory being worked in (e.g. 5 days before commencing licensed asbestos removal work in NSW, QLD, TAS, ACT, NT etc); and
- If the contractor is required to provide notification in accordance with WHS/OHS Regulations, evidences of that notification must be provided to Telstra prior to commencement of works.
- NOTE: where a contractor has established an agreement with a regulator that varies from the regulations, the contractor is to provide a copy of the completed agreement to the applicable Telstra Contract Manager.

### 5.3.1 Retention of Notification Records

Where a contractor has been required to notify the relevant regulator of their intent to complete non-friable asbestos removal works, the contractor is to maintain the records of the notification with the relevant project / work order documentation.

The records are to be kept for a minimum of 7 years, or as determined by the applicable WHS legislative requirements.

The records must be made available to Telstra on request for audit and verification purposes.



### 5.4 Clearance Certificates

Where a ticket or scope of work requires the removal of more than 10m<sup>2</sup> of non-friable asbestos, a clearance inspection must be conducted by an independent competent person or licensed asbestos assessor (depending on the State in which the work is being conducted) for each work location that is part of the ticket / scope of work.

The person completing the inspection is to supply a Clearance Certificate for the ticket/scope of work once satisfied that non-friable asbestos is no longer present in the location.

**NOTE**: the Clearance Certificate is to identify all work areas assessed as part of the clearance inspection.

### 5.4.1 Retention of Clearance Certificates

Where a clearance certificate is required in accordance with s5.4 "Clearance Certificates", the contractor is to provide the applicable Telstra Contract / Project Manager with a copy of the certificate. The applicable Telstra Contract Manager or Project Manager is to maintain a copy of the clearance certificate with the project documentation.

Where work has been completed at a Telstra Network Facility (e.g. Telstra Exchange) the applicable Property / Facilities Manager is also to be provided a copy to facilitate updating of the relevant Property Asbestos Register.

The contractor completing the works must also maintain a copy of the clearance certificate in accordance with the applicable WHS legislative requirements that apply to the contractor where the work is being performed.

### 5.5 Asbestos Control Plans

Asbestos control plans shall be developed prior to the completion of licenced Asbestos Removal Work.

The Asbestos Control Plans shall include:

- details of how the asbestos removal will be carried out, including the method to be used and the tools, equipment and personal protective equipment to be used; and
- details of the asbestos to be removed, including the location, type and condition of the asbestos.

A Safe Work Method Statement may be used for this purpose provided that it details the information above.

### 5.6 Additional Requirements for Network Sites

In addition to the other requirements of s5.0 "Non-Friable Asbestos Removal," contractors working in Telstra Equipment Building sites must:

- Comply with Telstra's access procedure for equipment buildings, including following the requirements of the Working in Network Sites (WINS) 013731 procedure and the associated WINS training requirements prior to beginning any ACM works in any Telstra Equipment Building;
- Comply with the requirements of the Asbestos Management Telstra Network Buildings Document (007338 C8-11); and
- Access the Asbestos Management Plan and associated asbestos register (for the building being worked in) prior to any disturbance activity.

### 5.7 Surface Penetration in Non-Telstra controlled premises

In the cases of residential and commercial customer premises, workers must not penetrate surfaces (e.g. walls, floors, roofs, ceilings etc) where there are indicators that ACM is present (unless an exemption is provided by Telstra's CEO or Board).

Where surface penetration is required (e.g. drilling holes into walls or ceilings), the Asbestos register for the work location is to be obtained from the building/property/facility manager prior to commencing work. The register should be used to assist in determining the likely presence of Asbestos.

The asbestos register should not be relied upon in isolation. Other indicators such as the age of the building, types of materials used and the location that works are taking place should also be considered.



In residential premises, the property owner should also be consulted prior to commencement of works to assist in determining the likely presence of Asbestos.

In circumstances where there is any doubt regarding the presence of Asbestos, surface penetration should not commence. The relevant Telstra contract manager should be contacted to determine an appropriate course of action which may include testing by an occupational hygienist.

**NOTE:** ACM disturbance inside a residential or commercial customer's premises is not permitted unless working under a Telstra CEO Leadership Team approved exemption (e.g. NBN FTTP Trial).

### 6.0 FRIABLE ASBESTOS REMOVAL

If friable asbestos is encountered during any works within Telstra's Network, works are to cease immediately and not continue until the following has occurred:

- Telstra is notified of the presence of the friable asbestos (via your Telstra contact);
- A Class A Licensed asbestos removalist is engaged to complete the removal work; and
- A Clearance Certificate is provided by a licensed asbestos assessor or equivalent depending on the State the work is being conducted.

**NOTE:** Friable asbestos removal requires specialist training and equipment to complete, and should not be attempted by those without the appropriate competency and equipment to do so.

### 7.0 ASBESTOS TRANSPORT, STORAGE AND DISPOSAL REQUIREMENTS

Telstra requires contractors removing ACM to dispose of the waste in accordance with relevant State / Territory legislative requirements that apply to the location where the waste was generated

Movements of ACM waste materials across state or territory borders may also trigger requirements under the Australian Dangerous Goods Code.

Contractors must hold relevant licences where applicable for transport and storage of ACM Waste. This includes transport to landfill facilities that may lawfully receive asbestos waste.

ACM that has been removed following remediation activities must not be left unattended in any public areas (even if double bagged or appropriately wrapped) and should be transported from the worksite and disposed of as soon as practicable.

Where ACM materials are to be stored on a temporary basis prior to disposal they must only be stored in accordance with the relevant State Environment Agency requirements. Contractors must provide details of temporary storage sites (including registration or exemption from registration/licensing)

**NOTE:** Contractors are to ensure that their temporary storage locations meet regulatory requirements relating to licensing and other conditions (i.e. maximum storage quantities / storage durations)

### 7.1.1 Waste Transport Certificates & Receipts of Disposal

Where a contractor has completed or coordinated the disposal of ACM Waste associated with works undertaken for, or on behalf of Telstra, they are to obtain a waste transport certificate from the registered waste recipient that meets the requirements of the relevant state or territory Environmental Protection legislation.

In addition to the Waste Transport Certificate, Contractors are also required to retail a copy of the receipt of payment from the disposal facility (Waste Disposal Receipts). This is to verify that the disposal facility has been paid to receive and dispose the asbestos waste material.

Contractors are to retain copies of Waste Transport Certificates and Waste Disposal Receipts with the relevant project files. These records should be retained for a minimum of 7 years (unless nominated otherwise in relevant state or territory legislation) and be made available to Telstra on request for auditing and verification purposes.

Appendix 2.8 – "State Requirements for Transport and Disposal of ACM Waste" lists the relevant state and territory legislative instruments that must be complied with for this section.



### 8.0 SOIL ASSESSMENT AND MANAGEMENT REQUIREMENTS

Works likely to involve excess soil must follow the Telstra Excess Soil Management Procedure document AXR-6145.

This process involves:

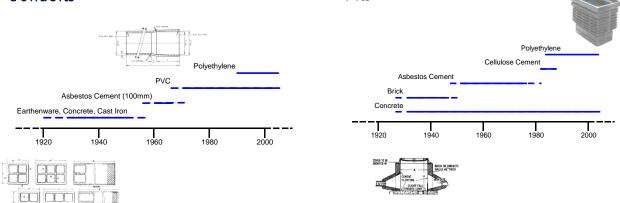
- Preliminary soil screening (desktop review) to categorise the potential for soil contamination. This will also dictate the preferred methods for excavation, or if soil sampling is required.
- Visual assessment of the site prior to and during excavation to identify potential contaminants
- Disposal from site in accordance with known and observed contaminants (including ACM)

For additional information refer to the Excess Soil Management Procedure.

### 9.0 PREVALENCE OF ASBESTOS CONTAINING PITS AND DUCTS IN TELSTRA'S NETWORK

Conduits/pipes, manholes and pits hold Telstra cable. Older conduits and pits may contain fibre cement materials with fibres made up of either asbestos or cellulose. Two timelines demonstrate when these materials were placed into the Telstra network.

### Conduits



**Pits** 

The timeline demonstrates that many fibre cement pits are likely to contain ACM, as such Telstra applies the presumptive test that all fibre cement pits or conduits must be treated as ACM. Older suburbs adjacent to modern CBD areas are likely to have a larger number of pits and conduits that are likely to contain ACM.



### 10.0 DOCUMENT CONTROL SHEET

Document Owners	Paul Jones	Mark Jorgensen
Position	Executive Director, Health, Safety and Environment	Director NBN Access Network Delivery

lssue number	Issue date	Details on the change
10	20 March 2015	S5.1.1 updated / reverted back to wording in Version 8 of CAMG.
		"Workers completing the non-friable ACM removal or disturbance must be a direct employee of the Class B License holder"
		NOT
		"Where it is a requirement of the relevant state based legislation, workers completing non-friable ACM removal or disturbance must be a direct employee of the Class B License holder."
9	02 March 2015	Minor wording change to introduction
Ū.		S3.1 – inclusion of requirement for contractors to have SWMS reviewed by an occupational hygienist
		<ul> <li>s3.3 – Inclusion of section for prohibited activities</li> </ul>
		<ul> <li>s5.1.1 – Included "Where it is a requirement of the relevant state based legislation" for requirement to be a direct employee of the Class B License holder.</li> </ul>
		s5.2 – Inclusion of WPA / COO Endorsement requirements
		<ul> <li>s5.3.1 – Inclusion of document retention requirements for regulator notifications</li> </ul>
		<ul> <li>s5.4.1 – Inclusion of document retention requirements for clearance certificates</li> </ul>
		<ul> <li>S5.5 – Inclusion of requirement to "Comply with the requirements of the Asbestos Management – Telstra Network Buildings Document (007338 C8-11)" when working in Telstra Network Sites</li> </ul>
		S5.6 – Inclusion of details on Asbestos Control Plans
		<ul> <li>s5.7 – Inclusion of requirements for surface penetration in customer premises not controlled by Telstra</li> </ul>
		• s7.1.1 – Inclusion of specific requirements for waste transfer certificates
		<ul> <li>Appendix 1 – SWMS Checklist 'updated to include requirement for SWMS to be reviewed by occupational hygienist'</li> </ul>
		Inclusion of Example Site Setup (Appendix 2.7)
		<ul> <li>Inclusion of table for state EP requirements re: transport and disposal of ACM Waste (Appendix 2.8)</li> </ul>
		<ul> <li>Minor wording updates to SWMS to clarify soil management requirements</li> </ul>
		<ul> <li>Included updated references to Excess Soil Management Process – AXR-6145</li> </ul>
1-8	N/A	<ul> <li>See version 8.0 on EDMS for details of changes made from v1.0 to v7.0.</li> </ul>



### 11.0 APPENDICES

Appendix 1 – SWMS Checklist

### Appendix 2 – Telstra SWMSs (provided as samples)

- <u> Appendix 2.1 ACM Pit Removal</u>
- Appendix 2.2 ACM Duct Removal / Repair
- Appendix 2.3 ACM Pit Break In
- Appendix 2.4 Collection of ACM Debris
- Appendix 2.5 Make Safe Damaged ACM Pits
- Appendix 2.6 Cutting ACM Vinyl Tiles
- Appendix 2.7 Example Site Setup

Appendix 2.8 - State Requirements for Transport and Disposal of ACM Waste



### 11.1 Appendix 1 – SWMS Checklist

This document is to be used by Telstra and its Contractors in the development and review of Safe Work Method Statements (SWMS) for ACM works completed within Telstra's network/infrastructure.

Date:

A copy of this review is to be attached to the SWMS for future reference if required.

### CONTRACTOR NAME:

### ACTIVITY / TASK REVIEWED:

SWMS ID:

Components Minimum content to be included in SWMS covered in SWMS Y/N The training and competency required to complete the activity. Hazards & risks associated with the task are clearly identified in the SWMS. The following points are addressed throughout the SWMS as a minimum. Site setup requirements (including traffic/pedestrian management and location of underground • services/assets - if applicable). Processes to prevent the creation / spread of airborne asbestos fibres. • The tools to be used to complete the activity (no power tools are to be used without . authorisation from Telstra Management following detailed risk assessment and consultation with a hygienist). Contaminated and excess soil handling and management requirements. • Decontamination processes / requirements. • Transport and disposal requirements for ACM waste and excess soil (where applicable). • Control measures outlined in the SWMS are relevant and in keeping with the hierarchy of control and relevant legislation? The SWMS has been assessed by an occupational hygienist as being appropriate for the works being carried out. Details of worker induction for the SWMS. The SWMS is current for the activity being undertaken (i.e. not more than 1 year old / site specific considerations remain unaltered)?

If the answer to any of the above is "NO", please ensure that the SWMS is updated to reflect these points prior to being accepted.

Reviewed By:		
Date:		

### Signature:

This signoff is **only** for the criteria outlined above. Telstra and its employees engaged to review SWMS's do not take responsibility for the technical accuracy of the content within the Contractors SWMS.



### 11.2 Appendix 2.1 – ACM Pit Removal SWMS

Activity	Pit Remediation – ACM Pit Removal			SWMS	Version	v.11	
SWMS ID	ARS-5385			Versior	n Date	01 March 2015	
Organisation Name	Telstra Corporat	ion Limited		ACN/AI	BN	33 051 775 556	
List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>Risk of a person falling more than 2m</li> <li>Work Involving the Disturbance of Asbestos</li> <li>Work Near Energised Electrical Services</li> </ul>			✓ Mov	<ul> <li>Carried out on or near pressurised gas distribution mains or piping</li> <li>Movement of powered mobile plant</li> <li>Work undertaken adjacent to a road</li> </ul>		
Pre-Start checks / maintenance required	<ul> <li>Daily pre-start checks of powered mechanical plant</li> <li>Plant maintenance in accordance with manufacturers requirements and recommendations</li> </ul>						
PPE Required to complete the activity:							
	Hearing Protection	Eye Protection	P1 / P2 Respirator	Protective Footwear	Disposable Gloves	Type 5 – Cat 3 Coveralls	
Associated Training (qualifications and competencies):	<ul> <li>NBN 01099C-Asbestos awareness</li> <li>CPCCOHS1001A-Working Safely in the Construction Industry</li> <li>Traffic Management Competency (for relevant State of operation)</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>CPCCBC4051A – Supervise asbestos removal (required for supervisors</li> </ul>				equired for		
Telstra Standards, Procedures or other documents applicable to the works	<ul> <li>Asbestos Management Procedure in Telstra – AJZ-9070</li> <li>Excess Soil Management Process – AXR-6145</li> </ul>						

### **Consequence Table**

Number	Description	Rank
1	Injury or harm to one person	Minor
2	Serious injuries or disability sustained to one person	Moderate
3	Serious injuries or disability sustained to multiple persons	Major
4	Total permanent disability or fatality of one person	Severe
5	Total permanent disability or fatality of multiple persons	Extreme

### Likelihood Assessment Table

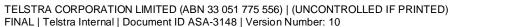
Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

	RISK EXPOSURE
Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.
High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.
Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.
Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.

# Extreme (5) Extreme (5) Image: Colspan="4">Image: Colspan="4" Image: Colspan="4" Image: Colspan="4" Image: Colspan="4" <th colspan="4"

Likelihood

Consequence







Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
1	Site planning and setup	<ul> <li>Workers being hit by passing vehicles</li> <li>Vehicle collisions</li> <li>Pedestrian / MOP hit by passing vehicle</li> <li>Movement of heavy materials and equipment</li> <li>Slips / trips and falls</li> <li>UV / Thermal Stress</li> </ul>	High 4C	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Review preliminary soil screening assessment for the site to determine the category of soil and how excess soil is to be managed.</li> <li>Using Telstra's <i>Low Impact Worksites Traffic Management Plans</i> (1007298), select the most appropriate 'Traffic Situation' (including safe vehicle parking locations).</li> <li>Where a 'Traffic Situation' cannot be matched to the worksite, contact your Supervisor for assistance as professional traffic management may be required.</li> <li>High visibility clothing must be worn when working on the road side. Where work is to be conducted in low light situations, the high visibility clothing must have reflective strips.</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and falls / hazardous flora and fauna, and remove/control where possible</li> <li>Assess the weather conditions for the works location to determine increased risks associated with UV and thermal stress.</li> <li>Establish processes to minimise the risks of Thermal Stress (e.g. when to put on / take off PPE, job rotation, mandatory breaks)</li> <li>Ensure that appropriate equipment / PPE is available and provided</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised or within the site specific details section of this SWMS)</li> </ol>
2	Notify affected residents in person by door knocking	<ul> <li>Aggressive Customers / members of public</li> <li>Dog bites</li> <li>Spiders and other dangerous fauna</li> </ul>	Low 2B	<ol> <li>Follow the process for notifying affected residents as outlined in the "Communication Strategy for Activity on Telstra's Pit and Pipe Infrastructure" (ARU-7102)</li> <li>Prior to entering resident's property, conduct a visual inspection of the customer premises to identify potential hazards such as dogs, waste material and debris.</li> <li>Where an unrestrained dog is identified, <b>DO NOT ENTER</b> the premises until</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
		• Slips / trips and falls		<ul> <li>contact with the owner has been achieved (e.g. via phone or gate intercom) and the dog has been restrained/secured or isolated.</li> <li>4. If a resident becomes agitated or aggressive, do not confront or provoke. Seek advice from your Supervisor to determine the most appropriate course of action. Where the customer is threatening or becoming physically aggressive, remove yourself from the site immediately.</li> </ul>
3	Opening and Accessing Pits and Manholes	<ul> <li>Asbestos</li> <li>Sharps (syringes etc)</li> <li>Hazardous Manual Handling of Pit Lids</li> <li>Contaminated air (particularly for manholes)</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>All cement pits must be treated as asbestos containing material (ACM). The only exception to this is where you have received documented instruction from Telstra to treat the specific pit as not containing asbestos</li> <li>If opening a manhole, use gas detector to check for contamination / low oxygen levels and follow <i>"Working in Telstra pits and manholes 007753"</i></li> <li>Inspect the pit for hazards e.g. sharps, contaminants, spiders and snakes and other hazardous fauna</li> <li>If sharps are identified (DO NOT PICK UP SYRINGES WITH YOUR HANDS – USE APPROPRIATE DISPOSAL KIT) - Refer to the Safe Management of Sharps – Syringes &amp; Needles Procedure (006501)</li> <li>Follow standard manual handling process for opening / accessing pit/manhole a) Use correct length pit key / tool to open pit / manhole lid</li> <li>Bend at your knees / use your legs to lift the weight of the lid (not your back)</li> </ol>
4	Mark out Excavation Area	<ul> <li>Spray Paint / Line Marker</li> <li>Manual handling</li> </ul>	High 3C	<ol> <li>Mark out excavation area using suitable means to minimise the amount of soil removal / excavation required</li> <li>Dial Before You Dig Plans (DBYD PLANS) must be obtained prior to any soil penetration. This can be either email &amp; printed or using the Smartphone App.</li> <li>Verify that the DBYD Plans are in-date and matches the work site.</li> <li>Undertake a visual inspection of the work site to identify potential underground</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
5	Removal of turf or pavers (if applicable)	<ul> <li>Manual handling</li> <li>Slips / trips and falls</li> </ul>	Medium 2C	<ul> <li>asset locations, depths &amp; alignment (e.g. pot-holing, use of plant location devices, Visual assessment of site and possible routes of services, where is the gas/power/water)</li> <li>5. Using the DBYD Plans, mark out services using marker paint. Mark the depth and what service has been highlighted.</li> <li>6. If required, adjust the Traffic and Pedestrian Management setup to cater for the proposed excavation works.</li> <li>7. If the proposed digging technique is mechanical plant, ensure that all underground services are carefully pot-holed to visually identify their depth &amp; alignment.</li> <li>8. If pot-holing results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>1. When removing turf, follow safe work process for using hand tools (including shovel) <ul> <li>a) Warm up with muscle stretches/flexes</li> <li>b) Don't overload the shovel</li> <li>c) Position yourself to minimise bending and twisting</li> <li>d) Bend at the knees (not at the waist)</li> </ul> </li> <li>2. When removing pavers, follow standard manual handling techniques <ul> <li>a) Select appropriate hand tools to lift the pavers (i.e. non-conductive digging bar / shovel)</li> <li>b) Position yourself to minimise bending and twisting</li> <li>c) Bend at the knees (not at the waist)</li> </ul> </li> </ul>
6	Concrete cutting (if applicable)	<ul> <li>Dust (including silica dust)</li> <li>Excessive Noise</li> </ul>	Critical 4D	<ol> <li>DO NOT USE CONCRETE CUTTING SAW UNLESS YOU HAVE BEEN TRAINED IN ITS USE BY A COMPETENT OPERATOR</li> <li>Follow safe operating procedure for using concrete saw</li> <li>Complete a Pre-Start Checklist for the Concrete Saw</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
		<ul> <li>cuts, lacerations etc</li> <li>Trip hazards (hoses and power leads)</li> <li>Heavy materials</li> <li>Slippery surfaces (concrete slurry)</li> </ul>		<ul> <li>4. Wet-cut techniques are to be used unless not possible</li> <li>5. The following PPE is to be worn by operator: <ul> <li>a) P1/P2 Mask</li> <li>b) Hearing Protection</li> <li>c) Eye protection</li> <li>d) Cut Resistant Protective Gloves</li> <li>e) Protective Footwear</li> <li>f) No loose clothing is to be worn</li> </ul> </li> <li>6. Establish exclusion zone. Ensure no other Worker other than the saw operator is in the immediate vicinity of the saw whilst in operation. Workers in close proximity are to wear Hearing Protection.</li> <li>7. Get assistance or mechanical aid to move heavy materials</li> <li>8. Clean up concrete slurry caused by cutting activities as soon as possible</li> </ul>
	Excavation Around Pit – Using Hand Tools	<ul> <li>Live services</li> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> <li>Potentially contaminated soil</li> </ul>	High 4B	<ol> <li>If the pit can be collapsed in without the need to dig around the pit, skip this step and proceed to "Step 10 - Prepare Site for ACM Pit Removal"</li> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection Field Card.</li> <li>Identify suitable location for stockpiling excavated soil and place 200 micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area. (N.B – poly sheeting may not be reused if it has been used for stockpiling of soil containing ACM materials, Class 1 soil, or any soil failing Field Card Inspection or is not in good condition).</li> <li>Tools should be selected to minimise the risk of striking concrete pits resulting in ACM debris being released. E.g.         <ul> <li>Shovels (non-conductive handle)</li> <li>Mattocks (non-conductive handle)</li> <li>Digging Bars (non-conductive handle – if live electrical services are</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>identified)</li> <li>5. The following PPE must be worn by Workers when undertaking hand digging: <ul> <li>a) Protective Gloves</li> <li>b) Protective Footwear</li> </ul> </li> <li>6. When digging, take care to avoid contact with the pit and any underground services.</li> <li>7. If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>8. If loose ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>9. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal and follow Step 11 "Break Up and Remove ACM Pit". In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on Preliminary Soil Screening (PSS) and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill facility.</li> </ul>
8	Excavation around pit – using mechanical excavation (if applicable)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead or underground services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	Critical 4D	<ol> <li>If the pit can be collapsed in without the need to dig around the pit, skip this step and proceed to "Step 10 - Prepare Site for ACM Pit Removal"</li> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection Field Card.</li> <li>Identify suitable location for stockpiling excavated soil and place 200 micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area. (N.B – poly sheeting may not be reused if it has been used for stockpiling of soil containing ACM materials, Class 1 soil, or any soil failing Field Card Inspection or is not in good condition).</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
			Ranking	<ol> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE:         <ul> <li>Hearing Protection</li> <li>Protective Safety Footwear</li> <li>Establish an exclusion zone to ensure no Workers are within the excavator slew range when excavator is in operation.</li> <li>Where practical, a toothless bucket is to be used ensuring that the bucket safety pin is installed.</li> <li>To avoid damaging the pit with the bucket or other part of the mechanical plant, maintain a minimum of 50mm distance between the pit wall and plant while digging.</li> <li>Remove all soil around the pit in accordance with the ESMP. If soil remains on the pit wall, this can be manually removed using a shovel or other hand tool. If the soil that is being removed and stockpiled soil is kept separate from any ACM debris.</li> </ul> </li> <li>If excavation results in damage to an underground service immediately remove operator and workers from the area and contact your supervisor and emergency services if required</li> <li>If loose ACM debris is identified in the soil during excavation, the ACM debris is</li> </ol>
				<b>v</b> .



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>17. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal and follow Step 11 "Break Up and Remove ACM Pit". In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on Preliminary Soil Screening (PSS) and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill</li> </ul>
9	Excavation around pit – using vacuum excavation (if applicable)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead or underground services</li> <li>Noise</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	High 4B	<ol> <li>If the pit can be collapsed in without the need to dig around the pit, skip this step and proceed to "Step 10 - Prepare Site for ACM Pit Removal"</li> <li>Undertake a visual inspection of the work site to identify if the vacuum truck's apparatus may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>VACUUM EXCAVATOR OPERATORS TO FOLLOW THEIR OWN SWMS FOR VACUUM EXCAVATION PROCESS</li> <li>Establish an exclusion zone to ensure no Workers are within the Vacuum Truck's Operating Range when truck is in operation.</li> <li>Workers in close proximity are to wear Hearing Protection.</li> <li>To avoid damaging the pit with the high pressure water, maintain a minimum of 50mm distance between the pit wall and the water jet.</li> <li>Remove all soil around the pit in accordance with Telstra's Excess Soil Management Process. If soil remains on the pit wall, this can be manually removed using a shovel or other hand tool.</li> <li>If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>If ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
10	Prepare Site for ACM Pit Removal	<ul> <li>ACM-airborne fibre release</li> <li>Manual handling</li> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> <li>UV / Thermal Stress</li> </ul>	High 4B	<ol> <li>Establish an Asbestos Work Area and an inner Asbestos Removal Area.         <ul> <li>a) The Asbestos Removal Area is to be established using a physical barrier to restrict access (e.g. Pit Guards)</li> <li>b) The Asbestos Work Area is to be established using self-supporting barriers or bollards and barrier tape</li> <li>c) The distance between the inner Asbestos Removal Area and outer Asbestos Work Area "Buffer Zone" should be sufficient to prevent unauthorised persons entering the area. Where possible, the buffer zone should be no less than 1m</li> <li>d) Set up 2 'Danger Asbestos Removal' signs on the 'Asbestos Work Area' (one facing each direction of traffic flow)</li> <li>Note: Appendix 2.7 "Example Ste Setup (Pit and Pipe Remediation Works)" within the Contractor Asbestos Management Guide provides an example of acceptable site setup.</li> </ul> </li> <li>Within the Asbestos Removal Area, establish a decontamination zone by placing 200 micron poly sheeting on the ground and doubled asbestos disposal bags dedicated for waste generated during the decontamination process. Asbestos disposal bags must be labelled "Caution- Asbestos. Do not open or break bag. Do not inhale dust"</li> <li>The following PPE is to be worn by <u>All</u> Workers within the exclusion zone:         <ul> <li>a) Type 5, Category 3 Disposable Coveralls (taped at ankle &amp; wrist)</li> <li>b) P1 or P2 disposable mask</li> <li>c) Protective eyewear</li> <li>d) Protective toe capped rubber boots with suitable tread</li> <li>e) Disposable gloves</li> </ul> </li> <li>NOTE: Due to potential risks associated with thermal stress (overheating), ensure that PPE noted above is only worn when required.</li> <li>Where possible, slide 200 micron poly sheets under the pit (at least 1m either side of each breaking point) to be removed, extending the sheeting on the side</li></ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				5. If the 200 micron poly sheet cannot pass under the pit, place poly sheeting on the side of the pit in the excavation area to capture any loose pieces
11	Break Up and Remove ACM Pit	<ul> <li>ACM-airborne fibre release</li> <li>Manual handling</li> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> </ul>	Critical 5C	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Where possible, consider the removal of the pit in its intact form by wrapping in 200 micron poly sheeting and lifting out of ground by mechanical means.</li> <li>If removal of the intact pit is not possible, then thoroughly wet down exposed surfaces of the ACM pit using a knap sack or other suitable means. In dry &amp; windy conditions, this may need to be performed regularly</li> <li>Using one of the following techniques, break the pit inwards attempting to keep pieces as large as possible (select the best option to reduce the amount of fragments released during breakup):         <ul> <li>a) Using a shovel, lever the outside of the pit wall from the outside</li> <li>c) Using a digging bar, leaver the pit wall from the outside</li> <li>d) Using a mash or sledge hammer, hit the pit wall from the outside (least desirable option)</li> </ul> </li> <li>Keep pieces as large as possible, place into double bagged asbestos disposal bags</li> <li>Any large pieces removed from the pit that cannot fit into a disposal bag are to be double wrapped in 200 micron poly sheeting (DO NOT BREAK UP FURTHER IF PRACTICABLE)         <ul> <li>a) Wrap the piece(s) of ACM in poly sheeting like a present and tape up</li> <li>b) Repeat the process above,</li> <li>c) Use asbestos warning tape or other appropriate asbestos identifier to label the outer layer of poly sheeting</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>double bagged asbestos disposal bags.</li> <li>8. Once all visible ACM debris has been collected from the excavation, using a small trowel or shovel scrape the immediate area below the pit to a depth of approximately 20 mm and dispose of the soil as contaminated waste in double bagged asbestos disposal bags.</li> <li>9. Do not fill bags beyond half full.</li> <li>10. Once bags are ready to be sealed, pick up and twist the inner bag and fold it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape. Repeat the process for the outer bag.</li> <li>11. When lifting poly sheeting or asbestos disposal bags that are heavy, ensure manual handling techniques are followed.</li> </ul>
12	Decontamination of work area	<ul> <li>Asbestos -airborne fibre release</li> </ul>	Medium 4A	1. Where pit was in close proximity to a structure such as a fence, building or post box, use a damp cloth to wipe down the structure. Dispose of cloths in an asbestos disposal bag.
13	Decontamination of tools	Asbestos -airborne fibre release	Medium 4A	<ol> <li>Setup up Asbestos disposal bags to be used for decontamination processes of tools and personnel (e.g. double bagging by placing one Asbestos Disposal bag inside another).</li> <li>All hand tools used during the breaking up of the pit and scraping of top layer (20mm) of soil must be decontaminated.</li> <li>Take required hand tools to the decontamination zone</li> <li>Only Workers who were involved in the ACM removal work and are wearing the required PPE may participate in decontamination.</li> <li>Whilst standing on the poly sheeting, ensure hand tools are wiped down using damp cloths (e.g. wet wipes or wet Chux cloths) unless tool is being disposed. The hand tools should be placed in the dedicated sealable container or in an asbestos disposal bag.</li> <li>Cloths used for decontamination are to be disposed of into the setup asbestos disposal bags</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
14	Decontamination of Workers	Asbestos -airborne fibre release	High 4B	<ol> <li>Once decontamination of hand tools is complete, decontamination of Workers is to occur.</li> <li>Workers are to wipe down their coveralls with a damp cloth (e.g. wet wipe or wet Chux cloth) and place the cloths into the decontamination asbestos disposal bag.</li> <li>Remove tape from cuffs (ankles and wrists) and place into the decontamination asbestos disposal bag.</li> <li>Remove protective eyewear and wipe down with damp cloths. Dispose of cloths in an asbestos disposal bag. Protective eyewear must be placed in a dedicated sealable container marked with the following wording; 'Asbestos Dedicated Protective Equipment - Not to be used on Non Asbestos Work'.</li> <li>Carefully remove coveralls turning them inside out to trap any remaining dust or debris and place into the decontamination asbestos disposal bag.</li> <li>Decontaminate boots by wiping down / removing any debris from the tread.</li> <li>Once boots are decontaminated, step out of the decontamination area and dispose of sheeting in the decontamination asbestos disposal bag.</li> <li>Take off disposable gloves place in the decontamination asbestos disposal bag.</li> <li>Seal the inner bag by picking it up and twisting the inner bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Now place the mask into the outer decontamination asbestos disposal bag and seal by picking it up and twisting the outer bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Wash hands thoroughly</li> <li>Once decontamination processes have been completed, remove the asbestos removal signage and barrier tape.</li> </ol>
15	Excavate area to allow for installation of new pit	• N/A	N/A	If the area around the pit requires further excavation to allow for the installation of the new pit, follow one of the following to complete the excavation:



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>Step 7 "Excavation Around Pit – Using Hand Tools"</li> <li>Step 8 "Excavation around pit – using mechanical excavation (if applicable)"</li> <li>Step 9 "Excavation around pit – using vacuum excavation (if applicable)"</li> <li>Once area is excavated, continue to Step 16 – "Install new pit"</li> </ul>
16	Install new pit	<ul> <li>Manual Handling</li> <li>Slips, trips and falls</li> <li>Mechanical Plant (if required)</li> </ul>	Medium 2C	<ol> <li>Follow the installation guidelines relevant for the Pit being installed</li> <li>When installing new pits, follow standard manual handling techniques         <ul> <li>a) Position yourself to minimise bending and twisting</li> <li>b) Bend at the knees (not at the waist)</li> <li>c) DO NOT TRY TO LIFT LARGE PITS WITHOUT A MECHANICAL AID</li> </ul> </li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> </ol>
18	Backfill of excavation (by hand)	<ul> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> </ul>	Medium 4A	<ol> <li>Soil that has not been identified as potentially contaminated (in accordance with the Field Inspection Guide) may be used as backfill, as long as it is a suitable material and can achieve the appropriate compaction results.</li> <li>When backfilling excavation, follow safe work process for using hand tools (including shovel)         <ul> <li>a) Warm up with muscle stretches/flexes</li> <li>b) Don't overload the shovel</li> <li>c) Position yourself to minimise bending and twisting</li> <li>d) Bend at the knees (not at the waist)</li> </ul> </li> <li>The following PPE must be worn by Workers when backfilling excavations by hand:         <ul> <li>a) Protective Gloves</li> <li>b) Protective Footwear</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				4. Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.
19	Backfill of excavation (using mechanical plant)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	Critical 4D	<ol> <li>Soil that has not been identified as potentially contaminated (in accordance with the Soil Inspection Field Card) may be used as backfill, as long as it is a suitable material and can achieve the appropriate compaction results.</li> <li>No excess soil can be reused at another site as any excess soil from a location must be disposed of at a licensed facility</li> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator (if not completed on the same day as the initial excavation)</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE: a) Hearing Protection b) Protective Safety Footwear</li> <li>Establish an exclusion zone to ensure no Workers are within the excavator slew range when excavator is in operation.</li> <li>Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
20	Transportation of excess soil from site	Contaminated soil	Low 2B	<ol> <li>Excess soil not used on site is required to be transported and disposed of in accordance with the Excess Soil Management Process in a manner consistent with any identified contamination (where applicable).</li> <li>Where ACM is the only identified contaminant within the soil, and the ACM cannot be readily removed by hand, , the soil will need to be treated as ACM Containing Soil and the transport of the soil is to be managed via one of the following methods, and in accordance with Telstra's Excess Soil Management Process:         <ul> <li>Place soil into asbestos bags (double bagged) and sealed. The bags are to be transported within a suitable vehicle or secured down on the tray of a vehicle; or</li> <li>Place soil directly into a rubbish skip that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting;</li> </ul> </li> <li>For methods b, c and d, the soil is to be kept damp to minimise the generation of dust and airborne asbestos fibres, and covered with a tarp or 200micron poly prior to transport to eliminate soil or dust escaping.</li> <li>The plastic cover on the soil should be labelled in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals</li> </ol>
21	Site Clean Up and Remediation	<ul> <li>Manual handling</li> <li>ACM-airborne fibre release</li> </ul>	Medium 4A	<ol> <li>If ACM debris is identified during the site clean-up and remediation, the ACM debris is to be collected and disposed in accordance with the "Collection of Debris Suspected of Being ACM" SWMS ARS-5384</li> <li>Do final check of the site to ensure that it is as safe and clean as practicable</li> </ol>



This SWMS has been developed through consultation with our employees and has been read, understood and signed by all employees undertaking the works:							
PRINT NAME	SIGNATURE	DATE	PRINT NAME	SIGNATURE	DATE		
			v				

### 11.3 Appendix 2.2 – ACM Duct Removal / Repair SWMS

Activity	ACM Duct Removal / Repair	SWMS Version	v.11
SWMS ID	ARS-5380	Version Date	01 March 2015
Organisation Name	Telstra Corporation Limited	ACN/ABN	33 051 775 556



List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>Risk of a person falling more than 2m</li> <li>Work Involving the Disturbance of Asbestos</li> <li>Work Near Energised Electrical Services</li> </ul>			<ul> <li>Carried out on or near pressurised gas distribution mains or piping</li> <li>Movement of powered mobile plant</li> <li>Work undertaken adjacent to a road</li> </ul>			
Pre-Start checks / maintenance required	<ul> <li>Daily pre-start checks of powered mechanical plant</li> <li>Plant maintenance in accordance with manufacturers requirem</li> </ul>				ents and recomm	nendations	
PPE Required to complete the activity:	Hearing Protection	Eye Protection	P1 / P2 Respirator	Protective Footwear	Disposable Gloves	Type 5 – Cat 3 Coveralls	
Associated Training (qualifications and competencies):	<ul> <li>NBN 01099C-Asbestos awareness</li> <li>CPCCOHS1001A-Working Safely in the Construction Industry</li> <li>Traffic Management Competency (for relevant State of operation)</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>CPCCBC4051A – Supervise asbestos removal (required for supervisors</li> </ul>						
Telstra Standards, Procedures or other documents applicable to the works	<ul> <li>Asbestos Management Procedure in Telstra – AJZ-9070</li> <li>Conduit Installation and Maintenance – Pipe and Conduit Repair – Work Instruction 010260W02</li> <li>Excess Soil Management Process – AXR-6145</li> </ul>						

### **Consequence Table**

Number	Description	Rank
1	Injury or harm to one person	Minor
2	Serious injuries or disability sustained to one person	Moderate
3	Serious injuries or disability sustained to multiple persons	Major
4	Total permanent disability or fatality of one person	Severe
5	Total permanent disability or fatality of multiple persons	Extreme

### Likelihood Assessment Table

Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

	RISK EXPOSURE
Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.
High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.
Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.
Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.

# Extreme (5) Severe (4) Major (3) Moderate (2) Minor (1) (A) Very Unlikely (B) Unlikely (C) Possible (D) Likely (E) Very Likely Likelihood

Consequence

### **Current Risk Exposure Matrix**





Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
1	Site planning and setup	<ul> <li>Workers being hit by passing vehicles</li> <li>Vehicle collisions</li> <li>Pedestrian / MOP hit by passing vehicle</li> <li>Movement of heavy materials and equipment</li> <li>Slips / trips and falls</li> <li>UV / Thermal Stress</li> </ul>	High 4C	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Review preliminary soil screening assessment for the site to determine the category of soil and how excess soil is to be managed.</li> <li>Using Telstra's <i>Low Impact Worksites Traffic Management Plans</i> (1007298), select the most appropriate 'Traffic Situation' (including safe vehicle parking locations).</li> <li>Where a 'Traffic Situation' cannot be matched to the worksite, contact your Supervisor for assistance as professional traffic management may be required.</li> <li>High visibility clothing must be worn when working on the road side. Where work is to be conducted in low light situations, the high visibility clothing must have reflective strips.</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and falls / hazardous flora and fauna, and remove/control where possible</li> <li>Assess the weather conditions for the works location to determine increased risks associated with UV and thermal stress.</li> <li>Establish processes to minimise the risks of Thermal Stress (e.g. when to put on / take off PPE, job rotation, mandatory breaks)</li> <li>Ensure that appropriate equipment / PPE is available and provided</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised or within the site specific details section of this SWMS)</li> </ol>
2	Notify affected residents in person by door knocking	<ul> <li>Aggressive Customers / members of public</li> <li>Dog bites</li> <li>Spiders and other dangerous fauna</li> </ul>	Low 2B	<ol> <li>Follow the process for notifying affected residents as outlined in the "Communication Strategy for Activity on Telstra's Pit and Pipe Infrastructure" (ARU-7102)</li> <li>Prior to entering resident's property, conduct a visual inspection of the customer premises to identify potential hazards such as dogs, waste</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
		<ul> <li>Slips / trips and falls</li> </ul>		<ul> <li>material and debris.</li> <li>Where an unrestrained dog is identified, DO NOT ENTER the premises until contact with the owner has been achieved (e.g. via phone or gate intercom) and the dog has been restrained/secured or isolated.</li> <li>If a resident becomes agitated or aggressive, do not confront or provoke. Seek advice from your Supervisor to determine the most appropriate course of action. Where the customer is threatening or becoming physically aggressive, remove yourself from the site immediately.</li> </ul>
3	Opening and Accessing Pits and Manholes (if required)	<ul> <li>Asbestos</li> <li>Sharps (syringes etc)</li> <li>Hazardous Manual Handling of Pit Lids</li> <li>Contaminated air (particularly for manholes)</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>All cement pits must be treated as asbestos containing material (ACM). The only exception to this is where you have received documented instruction from Telstra to treat the specific pit as not containing asbestos</li> <li>If opening a manhole, use gas detector to check for contamination / low oxygen levels and follow <i>"Working in Telstra pits and manholes</i> 007753"</li> <li>Inspect the pit for hazards e.g. sharps, contaminants, spiders and snakes and other hazardous fauna</li> <li>If sharps are identified (DO NOT PICK UP SYRINGES WITH YOUR HANDS – USE APPROPRIATE DISPOSAL KIT) - Refer to the Safe Management of Sharps – Syringes &amp; Needles Procedure (006501)</li> <li>Follow standard manual handling process for opening / accessing pit/manhole</li> <li>Use correct length pit key / tool to open pit / manhole lid</li> <li>Bend at your knees / use your legs to lift the weight of the lid (not your back)</li> </ol>



			Risk Class/	
Task #	Job steps	Hazards / Risks	Ranking	Controls
4	Mark out Excavation Area	<ul> <li>Spray Paint / Line Marker</li> <li>Manual handling</li> </ul>	High 3C	<ol> <li>Mark out excavation area using suitable means to minimise the amount of soil removal / excavation required</li> <li>Dial Before You Dig Plans (DBYD PLANS) must be obtained prior to any soil penetration. This can be either email &amp; printed or using the Smartphone App.</li> <li>Verify that the DBYD Plans are in-date and matches the work site.</li> <li>Undertake a visual inspection of the work site to identify potential underground asset locations, depths &amp; alignment (e.g. pot-holing, use of plant location devices, Visual assessment of site and possible routes of services, where is the gas/power/water)</li> <li>Using the DBYD Plans, mark out services using marker paint. Mark the depth and what service has been highlighted.</li> <li>If required, adjust the Traffic and Pedestrian Management setup to cater for the proposed excavation works.</li> <li>If the proposed digging technique is mechanical plant, ensure that all underground services are carefully pot-holed to visually identify their depth &amp; alignment.</li> <li>If pot-holing results in damage to an underground service immediately contact your supervisor and emergency services if required</li> </ol>
5	Removal of turf or pavers (if applicable)	<ul> <li>Manual handling</li> <li>Slips / trips and falls</li> </ul>	Medium 2C	<ol> <li>When removing turf, follow safe work process for using hand tools (including shovel)</li> <li>g) Warm up with muscle stretches/flexes</li> <li>h) Don't overload the shovel</li> <li>i) Position yourself to minimise bending and twisting</li> <li>j) Bend at the knees (not at the waist)</li> <li>When removing pavers, follow standard manual handling techniques</li> <li>a) Select appropriate hand tools to lift the pavers (i.e. non-conductive digging bar / shovel)</li> <li>b) Position yourself to minimise bending and twisting</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>c) Bend at the knees (not at the waist)</li> <li>d) DO NOT TRY TO LIFT LARGE PAVERS WITHOUT A MECHANICAL AID</li> </ul>
6	Concrete cutting (if applicable)	<ul> <li>Dust (including silica dust)</li> <li>Excessive Noise</li> <li>Cutting equipment / cuts, lacerations etc</li> <li>Trip hazards (hoses and power leads)</li> <li>Heavy materials</li> <li>Slippery surfaces (concrete slurry)</li> </ul>	Critical 4D	<ol> <li>DO NOT USE CONCRETE CUTTING SAW UNLESS YOU HAVE BEEN TRAINED IN ITS USE BY A COMPETENT OPERATOR</li> <li>Follow safe operating procedure for using concrete saw</li> <li>Complete a Pre-Start Checklist for the Concrete Saw</li> <li>Wet-cut techniques are to be used unless not possible</li> <li>The following PPE is to be worn by operator:         <ul> <li>a) P1/P2 Mask</li> <li>b) Hearing Protection</li> <li>c) Eye protection</li> <li>d) Cut Resistant Protective Gloves</li> <li>e) Protective Footwear</li> <li>f) No loose clothing is to be worn</li> </ul> </li> <li>Establish exclusion zone. Ensure no other Worker other than the saw operator is in the immediate vicinity of the saw whilst in operation. Workers in close proximity are to wear Hearing Protection.</li> <li>Get assistance or mechanical aid to move heavy materials</li> <li>Clean up concrete slurry caused by cutting activities as soon as possible</li> </ol>
7	Excavation Around Duct – Using Hand Tools	<ul> <li>Live services</li> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection Guide.</li> <li>Identify suitable location for stockpiling excavated soil and place 200 micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area. (N.B – poly sheeting may not be reused if it has been used for stockpiling of soil containing ACM materials,</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>Class 1 soil, or any soil failing Field Card Inspection or is not in good condition).</li> <li>4. Tools should be selected to minimise the risk of striking concrete pits resulting in ACM debris being released. E.g.</li> <li>a) Shovels (non-conductive handle)</li> <li>b) Mattocks (non-conductive handle)</li> <li>c) Digging Bars (non-conductive handle – if live electrical services are identified)</li> <li>5. The following PPE must be worn by Workers when undertaking hand digging:</li> <li>a) Protective Gloves</li> <li>b) Protective Footwear</li> <li>6. When digging, take care to avoid contact with the pit and any underground services.</li> <li>7. If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>8. If loose ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>9. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal. In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on Preliminary Soil Screening (PSS) and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill</li> </ul>
8	Excavation around duct – using mechanical excavation (if	<ul><li>Plant rollover</li><li>Striking workers / MOPs</li></ul>	Critical 4D	<ol> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection</li> </ol>



Task #	loh stans	Hazards / Risks	Risk Class/	Controls
Task #	Job steps applicable)	<ul> <li>Hazards / Risks</li> <li>Striking public property</li> <li>Striking overhead or underground services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>		<ul> <li>Guide.</li> <li>Identify suitable location for stockpiling excavated soil and place 200 micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area. (N.B – poly sheeting may not be reused if it has been used for stockpiling of soil containing ACM materials, Class 1 soil, or any soil failing Field Card Inspection or is not in good condition).</li> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE:</li> </ul>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>Management Process. If soil remains on the pit wall, this can be manually removed using a shovel or other hand tool. If the soil that is being removed and stockpiled is deemed to be Class 2 or 3 (refer to Telstra's Excess Soil Management Process), ensure that the stockpiled soil is kept separate from any ACM debris.</li> <li>15. If excavation results in damage to an underground service immediately remove operator and workers from the area and contact your supervisor and emergency services if required</li> <li>16. If loose ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>17. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal. In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on Preliminary Soil Screening (PSS) and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill</li> </ul>
9	Excavation around duct – using vacuum excavation (if applicable)	Plant rollover Striking workers / MOPs Striking public property Striking overhead or underground services Noise Manual Handling Slips, trips and falls ACM	High 4B	<ol> <li>Undertake a visual inspection of the work site to identify if the vacuum truck's apparatus may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>VACUUM EXCAVATOR OPERATORS TO FOLLOW THEIR OWN SWMS FOR VACUUM EXCAVATION PROCESS</li> <li>Establish an exclusion zone to ensure no Workers are within the Vacuum Truck's Operating Range when truck is in operation.</li> <li>Workers in close proximity are to wear Hearing Protection.</li> <li>To avoid damaging the pit with the high pressure water, maintain a minimum of 50mm distance between the pit wall and the water jet.</li> <li>Remove all soil around the pit in accordance with Telstra's Excess Soil Management Process. If soil remains on the pit wall, this can be manually</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>removed using a shovel or other hand tool.</li> <li>7. If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>8. If ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>9. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal. In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on Preliminary Soil Screening (PSS) and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill</li> </ul>
10	Prepare Site for ACM duct repair	<ul> <li>ACM-airborne fibre release</li> <li>Manual handling</li> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> <li>UV / Thermal Stress</li> </ul>	High 4B	<ol> <li>Establish an Asbestos Work Area and an inner Asbestos Removal Area.</li> <li>c) The Asbestos Removal Area is to be established using a physical barrier to restrict access (e.g. Pit Guards)</li> <li>d) The Asbestos Work Area is to be established using self-supporting barriers or bollards and barrier tape</li> <li>e) The distance between the inner Asbestos Removal Area and outer Asbestos Work Area "Buffer Zone" should be sufficient to prevent unauthorised persons entering the area. Where possible, the buffer zone should be no less than 1m</li> <li>f) Set up 2 'Danger Asbestos Removal' signs on the 'Asbestos Work Area' (one facing each direction of traffic flow)</li> <li>Note: Appendix 2.7 "Example Ste Setup (Pit and Pipe Remediation Works)" within the Contractor Asbestos Management Guide provides an example of acceptable site setup.</li> <li>2. Within the Asbestos Removal Area, establish a decontamination zone by placing 200 micron poly sheeting on the ground and doubled asbestos disposal bags dedicated for waste generated during the decontamination process. Asbestos disposal bags must be labelled "Caution- Asbestos. Do</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>not open or break bag. Do not inhale dust"</li> <li>3. The following PPE is to be worn by <u>All</u> Workers within the exclusion zone: <ul> <li>a) Type 5, Category 3 Disposable Coveralls (taped at ankle &amp; wrist)</li> <li>b) P1 or P2 disposable mask</li> <li>c) Protective eyewear</li> <li>d) Protective toe capped rubber boots with suitable tread</li> <li>e) Disposable gloves</li> </ul> </li> <li>NOTE: Due to potential risks associated with thermal stress (overheating), ensure that PPE noted above is only worn when required.</li> <li>4. Where possible, slide 200 micron poly sheets under the pit (at least 1m either side of each breaking point) to be removed, extending the sheeting on the sides of the excavation. This may require additional excavation.</li> </ul> 5. If the 200 micron poly sheet cannot pass under the pit, place poly sheeting on the side of the pit in the excavation area to capture any loose pieces
11	Repair ACM duct using Split Duct Repair Kit	<ul> <li>ACM-airborne fibre release</li> <li>Manual handling</li> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> <li>Trench collapse</li> </ul>	High 4C	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Thoroughly wet down exposed surface of the ACM duct using a knap sack or other suitable means if a knap sack is not available. In dry &amp; windy conditions, this may need to be regularly applied.</li> <li>Using one of the following techniques, break the duct attempting to keep pieces as large as possible (select the best option to reduce the amount of fragments released during breakup):         <ul> <li>a) Using a crow bar, leaver the duct from the wall of the excavation</li> <li>b) Using a ball pein hammer</li> <li>c) Using a mash or sledge hammer (least desirable option)</li> </ul> </li> <li>Protection of cables enclosed in conduit – when breaking out longer sections of ACM conduit, use a short section of split poly conduit to cover cables along the area to be removed.</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ol> <li>Keep pieces as large as possible and place into double bagged asbestos disposal bags</li> <li>If pieces will not fit into the asbestos disposal bags DO NOT BREAK UP FURTHER, double wrap them in 200 micron poly sheeting.         <ul> <li>a) Wrap piece of ACM in poly sheeting like a present and tape up</li> <li>b) Repeat the process above,</li> <li>c) Use asbestos warning tape or other appropriate asbestos identifier to label the outer layer of poly sheeting</li> </ul> </li> <li>Wipe clean the exposed cut edges of the in-situ duct ends with a damp cloth to dislodge any loose debris.</li> <li>8. If cloths are being soaked by dipping into a container, do not re-soak contaminated cloths. Dispose of all contaminated cloths as asbestos waste.</li> <li>9. If it was possible to have poly sheeting under the duct, lightly spray the sheeting into either the wrapped and sealed poly sheeting or asbestos disposal bag.</li> <li>10. Once all visible ACM debris has been collected from the excavation, using a small trowel scrape the immediate area below the duct (500mm either side of the break points – or further if visible contamination is present) to a depth of approximately 20 mm and dispose of the soil as contaminated waste in double bagged asbestos disposal bags.</li> <li>11. Do not overfill bags beyond half full.</li> <li>12. Once bags are ready to be sealed, pick up and twist the inner bag and fold it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape. Repeat the process for the outer bag.</li> <li>13. When lifting poly sheeting or asbestos disposal bags that are heavy, ensure manual handling techniques are followed.</li> </ol>
12	Clean / chamfer exposed ends of duct	ACM-airborne fibre release	Critical 5D	<ol> <li>Place a plastic sheet under the duct end/s being repaired (chamfered)</li> <li>Apply a thickened gel or paste to edge/s that requires smoothing</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>(chamfering)</li> <li>3. Use a coarse triangular toothed rasp not a file with parallel teeth, do not dry sand</li> <li>4. Use butyl rubber (mastic) to seal the exposed ends of the ACM duct</li> <li>5. Apply split duct repair kit following Work Instruction 010260W02</li> </ul>
13	Decontamination of work area	<ul> <li>Asbestos -airborne fibre release</li> </ul>	Medium 4A	1. Where duct was in close proximity to a structure such as a fence, building or post box, use a damp cloth to wipe down the structure. Dispose of cloths in an asbestos disposal bag.
14	Decontamination of tools	Asbestos -airborne fibre release	Medium 4A	<ol> <li>Setup up Asbestos disposal bags to be used for decontamination processes of tools and personnel (e.g. double bagging by placing one Asbestos Disposal bag inside another).</li> <li>All hand tools used during the breaking up of the pit and scraping of top layer (20mm) of soil must be decontaminated.</li> <li>Take required hand tools to the decontamination zone</li> <li>Only Workers who were involved in the ACM removal work and are wearing the required PPE may participate in decontamination.</li> <li>Whilst standing on the poly sheeting, ensure hand tools are wiped down using damp cloths (e.g. wet wipes or wet Chux cloths) unless tool is being disposed. The hand tools should be placed in the dedicated sealable container or in an asbestos disposal bag.</li> <li>Cloths used for decontamination are to be disposed of into the setup asbestos disposal bags</li> </ol>
15	Decontamination of Workers	Asbestos -airborne fibre release	High 4B	<ol> <li>Once decontamination of hand tools is complete, decontamination of Workers is to occur.</li> <li>Workers are to wipe down their coveralls with a damp cloth (e.g. wet wipe or wet Chux cloth) and place the cloths into the decontamination asbestos disposal bag.</li> <li>Remove tape from cuffs (ankles and wrists) and place into the</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/	Controls
			Ranking	<ol> <li>decontamination asbestos disposal bag.</li> <li>Remove protective eyewear and wipe down with damp cloths. Dispose of cloths in an asbestos disposal bag. Protective eyewear must be placed in a dedicated sealable container marked with the following wording; 'Asbestos Dedicated Protective Equipment - Not to be used on Non Asbestos Work'.</li> <li>Carefully remove coveralls turning them inside out to trap any remaining dust or debris and place into the decontamination asbestos disposal bag.</li> <li>Decontaminate boots by wiping down / removing any debris from the tread.</li> <li>Once boots are decontaminated, step out of the decontamination zone.</li> <li>Carefully fold the poly sheeting on the ground in the decontamination area and dispose of sheeting in the decontamination asbestos disposal bag.</li> <li>Take off disposable gloves place in the decontamination asbestos disposal bag.</li> <li>Seal the inner bag by picking it up and twisting the inner bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Ensure that the P1/P2 disposable mask is the last item of PPE removed</li> <li>Now place the mask into the outer decontamination asbestos disposal bag and seal by picking it up and twisting the outer bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Wash hands thoroughly</li> <li>Once decontamination processes have been completed, remove the asbestos removal signage and barrier tape.</li> </ol>
16	Backfill of excavation (by hand)	<ul> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> </ul>	Medium 4A	<ol> <li>If ACM debris is identified in soil being used during backfill activities STOP BACKFILLING AND FOLLOW THE "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>When backfilling excavation, follow safe work process for using hand tools (including shovel)         <ul> <li>a) Warm up with muscle stretches/flexes</li> <li>b) Don't overload the shovel</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>c) Position yourself to minimise bending and twisting</li> <li>d) Bend at the knees (not at the waist)</li> <li>3. The following PPE must be worn by Workers when backfilling excavations by hand: <ul> <li>a) P1/P2 Mask (if using existing soil as backfill)</li> <li>b) Protective Gloves</li> <li>c) Protective Footwear</li> </ul> </li> <li>4. Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.</li> </ul>
17	Backfill of excavation (using mechanical plant)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	Critical 4D	<ol> <li>Soil that has not been identified as contaminated (in accordance with the Field Inspection Guide) may be used as backfill, as long as it is a suitable material and can achieve the appropriate compaction results.</li> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator (if not completed on the same day as the initial excavation)</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE:         <ul> <li>Hearing Protection</li> <li>Protective Safety Footwear</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ol> <li>9. Establish an exclusion zone to ensure no Workers are within the excavator slew range when excavator is in operation.</li> <li>10. Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.</li> </ol>
18	Transportation of excess soil from site	Contaminated soil	Low 2B	<ol> <li>Excess soil not used on site is required to be transported and disposed of in accordance with the Excess Soil Management Process in a manner consistent with any identified contamination (where applicable).</li> <li>Where ACM is the only identified contaminant within the soil, and the ACM cannot be readily removed by hand, , the soil will need to be treated as ACM Containing Soil and the transport of the soil is to be managed via one of the following methods, and in accordance with Telstra's Excess Soil Management Process:         <ul> <li>Place soil into asbestos bags (double bagged) and sealed. The bags are to be transported within a suitable vehicle or secured down on the tray of a vehicle; or</li> <li>Place soil directly into a rubbish skip that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting;</li> <li>For methods b, c and d, the soil is to be kept damp to minimise the generation of dust and airborne asbestos fibres, and covered with a tarp or 200micron poly prior to transport to eliminate soil or dust escaping.</li> </ul> </li> <li>The plastic cover on the soil should be labelled in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals 5.</li> </ol>
19	Site Clean Up and Remediation	<ul> <li>Manual handling</li> <li>ACM-airborne fibre release</li> </ul>	Medium 4A	<ol> <li>Once decontamination processes have been completed, remove the asbestos removal signage and barrier tape.</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ol> <li>If ACM debris is identified during the site cleanup and remediation, the ACM debris is to be collected and disposed in accordance with the "Collection of Debris Suspected of Being ACM" SWMS ARS-5384</li> <li>Do final check of the site to ensure that it is as safe and clean as practicable</li> </ol>

his SWMS has been developed through consultation with our employees and has been read, understood and signed by all employees undertaking the works:							
PRINT NAME	SIGNATURE	DATE	PRINT NAME	SIGNATURE	DATE		

#### 11.4 Appendix 2.3 – ACM Pit Break In SWMS

Activity	Pit Remediation – ACM Pit Break-In	SWMS Version	v.11
SWMS ID	ARS-5383	Version Date	01 March 2015



Organisation Name	Telstra Corporation Limited	ACN/ABN 33 051 775 556		
List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>✓ Risk of a person falling more than 2m</li> <li>✓ Work Involving the Disturbance of Asbestos</li> <li>✓ Work Near Energised Electrical Services</li> </ul>	<ul> <li>Carried out on or near pressurised gas distribution mains or piping</li> <li>Movement of powered mobile plant</li> <li>Work undertaken adjacent to a road</li> </ul>		
Pre-Start checks / maintenance required	<ul> <li>Daily pre-start checks of powered mechanical plant</li> <li>Plant maintenance in accordance with manufacturers red</li> </ul>	quirements and recommendations		
PPE Required to complete the activity:	Hearing Protection Hearing			
Associated Training (qualifications and competencies):	<ul> <li>NBN 01099C-Asbestos awareness</li> <li>CPCCOHS1001A-Working Safely in the Construction Industry</li> <li>Traffic Management Competency (for relevant State of operation)</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>CPCCDE3014A – Remove non-friable asbestos</li> <li>Supervisors</li> </ul>			
Telstra Standards, Procedures or other documents applicable to the works	<ul> <li>Asbestos Management Procedure in Telstra – AJZ-9070</li> <li>Excess Soil Management Process – AXR-6145</li> </ul>	)		

#### **Consequence Table**

Number	Description	Rank
1	Injury or harm to one person	Minor
2	Serious injuries or disability sustained to one person	Moderate
3	Serious injuries or disability sustained to multiple persons	Major
4	Total permanent disability or fatality of one person	Severe
5	Total permanent disability or fatality of multiple persons	Extreme

#### Likelihood Assessment Table

Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

	RISK EXPOSURE
Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.
High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.
Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.
Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.

#### 

Consequence





Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
1	Site planning and setup	<ul> <li>Workers being hit by passing vehicles</li> <li>Vehicle collisions</li> <li>Pedestrian / MOP hit by passing vehicle</li> <li>Movement of heavy materials and equipment</li> <li>Slips / trips and falls</li> <li>UV / Thermal Stress</li> </ul>	High 4C	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Review preliminary soil screening assessment for the site to determine the category of soil and how excess soil is to be managed.</li> <li>Using Telstra's <i>Low Impact Worksites Traffic Management Plans</i> (1007298), select the most appropriate 'Traffic Situation' (including safe vehicle parking locations).</li> <li>Where a 'Traffic Situation' cannot be matched to the worksite, contact your Supervisor for assistance as professional traffic management may be required.</li> <li>High visibility clothing must be worn when working on the road side. Where work is to be conducted in low light situations, the high visibility clothing must have reflective strips.</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and falls / hazardous flora and fauna, and remove/control where possible</li> <li>Assess the weather conditions for the works location to determine increased risks associated with UV and thermal stress.</li> <li>a) Establish processes to minimise the risks of Thermal Stress (e.g. when to put on / take off PPE, job rotation, mandatory breaks)</li> <li>b) Ensure that appropriate equipment / PPE is available and provided</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised or within the site specific details section of this SWMS)</li> </ol>
2	Notify affected residents in person by door knocking	<ul> <li>Aggressive Customers / members of public</li> <li>Dog bites</li> <li>Spiders and other dangerous fauna</li> </ul>	Low 2B	<ol> <li>Follow the process for notifying affected residents as outlined in the "Communication Strategy for Activity on Telstra's Pit and Pipe Infrastructure" (ARU-7102)</li> <li>Prior to entering resident's property, conduct a visual inspection of the customer premises to identify potential hazards such as dogs, waste</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
		<ul> <li>Slips / trips and falls</li> </ul>		<ul> <li>material and debris.</li> <li>Where an unrestrained dog is identified, DO NOT ENTER the premises until contact with the owner has been achieved (e.g. via phone or gate intercom) and the dog has been restrained/secured or isolated.</li> <li>If a resident becomes agitated or aggressive, do not confront or provoke. Seek advice from your Supervisor to determine the most appropriate course of action. Where the customer is threatening or becoming physically aggressive, remove yourself from the site immediately.</li> </ul>
3	Opening and Accessing Pits and Manholes	<ul> <li>Asbestos</li> <li>Sharps (syringes etc)</li> <li>Hazardous Manual Handling of Pit Lids</li> <li>Contaminated air (particularly for manholes)</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>All cement pits must be treated as asbestos containing material (ACM). The only exception to this is where you have received documented instruction from Telstra to treat the specific pit as not containing asbestos</li> <li>If opening a manhole, use gas detector to check for contamination / low oxygen levels and follow <i>"Working in Telstra pits and manholes</i> 007753"</li> <li>Inspect the pit for hazards e.g. sharps, contaminants, spiders and snakes and other hazardous fauna</li> <li>If sharps are identified (DO NOT PICK UP SYRINGES WITH YOUR HANDS – USE APPROPRIATE DISPOSAL KIT) - Refer to the Safe Management of Sharps – Syringes &amp; Needles Procedure (006501)</li> <li>Follow standard manual handling process for opening / accessing pit/manhole         <ul> <li>Use correct length pit key / tool to open pit / manhole lid</li> <li>Bend at your knees / use your legs to lift the weight of the lid (not your back)</li> </ul> </li> </ol>
4	Mark out Excavation Area	<ul> <li>Spray Paint / Line Marker</li> <li>Manual handling</li> </ul>	High 3C	<ol> <li>Mark out excavation area using suitable means to minimise the amount of soil removal / excavation required</li> <li>Dial Before You Dig Plans (DBYD PLANS) must be obtained prior to any soil penetration. This can be either email &amp; printed or using the</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ol> <li>Smartphone App.</li> <li>Verify that the DBYD Plans are in-date and matches the work site.</li> <li>Undertake a visual inspection of the work site to identify potential underground asset locations, depths &amp; alignment (e.g. pot-holing, use of plant location devices, Visual assessment of site and possible routes of services, where is the gas/power/water)</li> <li>Using the DBYD Plans, mark out services using marker paint. Mark the depth and what service has been highlighted.</li> <li>If required, adjust the Traffic and Pedestrian Management setup to cater for the proposed excavation works.</li> <li>If the proposed digging technique is mechanical plant, ensure that all underground services are carefully pot-holed to visually identify their depth &amp; alignment.</li> <li>If pot-holing results in damage to an underground service immediately contact your supervisor and emergency services if required</li> </ol>
5	Removal of turf or pavers (if applicable)	<ul> <li>Manual handling</li> <li>Slips / trips and falls</li> </ul>	Medium 2C	<ol> <li>When removing turf, follow safe work process for using hand tools (including shovel)         <ul> <li>a) Warm up with muscle stretches/flexes</li> <li>b) Don't overload the shovel</li> <li>c) Position yourself to minimise bending and twisting</li> <li>d) Bend at the knees (not at the waist)</li> </ul> </li> <li>When removing pavers, follow standard manual handling techniques         <ul> <li>a) Select appropriate hand tools to lift the pavers (i.e. non-conductive digging bar / shovel)</li> <li>b) Position yourself to minimise bending and twisting</li> <li>c) Bend at the knees (not at the waist)</li> </ul> </li> <li>DO NOT TRY TO LIFT LARGE PAVERS WITHOUT A MECHANICAL AID</li> </ol>



			Risk	
Task #	Job steps	Hazards / Risks	Class/ Ranking	Controls
6	Concrete cutting (if applicable)	<ul> <li>Dust (including silica dust)</li> <li>Excessive Noise</li> <li>Cutting equipment / cuts, lacerations etc</li> <li>Trip hazards (hoses and power leads)</li> <li>Heavy materials</li> <li>Slippery surfaces (concrete slurry)</li> </ul>	Critical 4D	<ol> <li>DO NOT USE CONCRETE CUTTING SAW UNLESS YOU HAVE BEEN TRAINED IN ITS USE BY A COMPETENT OPERATOR</li> <li>Follow safe operating procedure for using concrete saw</li> <li>Complete a Pre-Start Checklist for the Concrete Saw</li> <li>Wet-cut techniques are to be used unless not possible</li> <li>The following PPE is to be worn by operator:         <ul> <li>a) P1/P2 Mask</li> <li>b) Hearing Protection</li> <li>c) Eye protection</li> <li>d) Cut Resistant Protective Gloves</li> <li>e) Protective Footwear</li> <li>f) No loose clothing is to be worn</li> </ul> </li> <li>Establish exclusion zone. Ensure no other Worker other than the saw operator is in the immediate vicinity of the saw whilst in operation. Workers in close proximity are to wear Hearing Protection.</li> <li>Get assistance or mechanical aid to move heavy materials</li> <li>Clean up concrete slurry caused by cutting activities as soon as possible</li> </ol>
7	Excavation Around Pit – Using Hand Tools	<ul> <li>Live services</li> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection Guide.</li> <li>Identify suitable location for stockpiling excavated soil and place 200 micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area. (N.B – poly sheeting may not be reused if it has been used for stockpiling of soil containing ACM materials, Class 1 soil, or any soil failing Field Card Inspection or is not in good condition).</li> <li>Tools should be selected to minimise the risk of striking concrete pits</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>resulting in ACM debris being released. E.g.</li> <li>a) Shovels (non-conductive handle)</li> <li>b) Mattocks (non-conductive handle)</li> <li>c) Digging Bars (non-conductive handle – if live electrical services are identified)</li> <li>5. The following PPE must be worn by Workers when undertaking hand digging: <ul> <li>a) Protective Gloves</li> <li>b) Protective Footwear</li> </ul> </li> <li>6. When digging, take care to avoid contact with the pit and any underground services.</li> <li>7. If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>8. If loose ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>9. If ACM is embedded in the soil and requires the use of force or tools to remove it, treat as ACM Removal and follow Step 11 "Break Up and Remove ACM Pit". In this instance, the minimum requirement is that all soil excavated will need to be treated as ACM Containing Soil. Additional requirements will be based on PSS and/or results of Field Inspection Card. Speak to your supervisor or refer to Telstra's Excess Soil Management Process for guidance on how to transport and dispose of the soil at an approved landfill facility</li> </ul>
8	Excavation around pit – using mechanical excavation (if applicable)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead or</li> </ul>	Critical 4D	<ol> <li>Ensure that the results of the Preliminary Soil Screen are reviewed and that appropriate PPE is selected where required.</li> <li>Evaluate the soil prior to and during excavation using the Soil Inspection Guide.</li> <li>Identify suitable location for stockpiling excavated soil and place 200</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
Task #	Job steps	<ul> <li>Hazards / Risks</li> <li>underground services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	Class/ Ranking	<ul> <li>micron poly sheeting under the stockpile location to prevent the potential for contamination of the existing area.</li> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE: <ul> <li>a) Hearing Protection</li> <li>b) Protective Safety Footwear</li> </ul> </li> <li>Establish an exclusion zone to ensure no Workers are within the excavator slew range when excavator is in operation.</li> <li>Where practical, a toothless bucket is to be used ensuring that the bucket safety pin is installed.</li> <li>To avoid damaging the pit with the bucket or other part of the mechanical plant, maintain a minimum of 50mm distance between the pit wall and plant while digging.</li> <li>Remove all soil around the pit in accordance with Telstra's Excess Soil Management Process. If soil remains on the pit wall, this can be manually removed using a shovel or other hand tool. If the soil that is being</li> </ul>
				<ul><li>plant while digging.</li><li>14. Remove all soil around the pit in accordance with Telstra's Excess Soil Management Process. If soil remains on the pit wall, this can be manually</li></ul>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>15. If excavation results in damage to an underground service immediately remove operator and workers from the area and contact your supervisor and emergency services if required</li> <li>16. If loose ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> <li>17. If ACM is embedded in the soil and requires the use of force or tools to remove it.</li> </ul>
9	Excavation around pit – using vacuum excavation (if applicable)	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> <li>Striking public property</li> <li>Striking overhead or underground services</li> <li>Noise</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>	High 4B	<ol> <li>Undertake a visual inspection of the work site to identify if the vacuum truck's apparatus may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>VACUUM EXCAVATOR OPERATORS TO FOLLOW THEIR OWN SWMS FOR VACUUM EXCAVATION PROCESS</li> <li>Establish an exclusion zone to ensure no Workers are within the Vacuum Truck's Operating Range when truck is in operation.</li> <li>Workers in close proximity are to wear Hearing Protection.</li> <li>To avoid damaging the pit with the high pressure water, maintain a minimum of 50mm distance between the pit wall and the water jet.</li> <li>Remove all soil around the pit in accordance with Telstra's Excess Soil Management Process. If soil remains on the pit wall, this can be manually removed using a shovel or other hand tool.</li> <li>If excavation results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>If ACM debris is identified in the soil during excavation, the ACM debris is to be collected and disposed in accordance with the "COLLECTION OF DEBRIS SUSPECTED OF BEING ACM" SWMS ARS-5384</li> </ol>
10	Prepare Site for ACM Pit break-in	<ul><li>ACM-airborne fibre release</li><li>Manual handling</li></ul>	High 4B	<ol> <li>Only persons working for a company with a 'B' Class removal licence are to complete asbestos modification / removal activities</li> </ol>



Task # Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
	<ul> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> <li>UV / Thermal Stress</li> </ul>		<ol> <li>Establish an Asbestos Work Area and an inner Asbestos Removal Area.</li> <li>c) The Asbestos Removal Area is to be established using a physical barrier to restrict access (e.g. Pit Guards)</li> <li>d) The Asbestos Work Area is to be established using self-supporting barriers or bollards and barrier tape</li> <li>e) The distance between the inner Asbestos Removal Area and outer Asbestos Work Area "Buffer Zone" should be sufficient to prevent unauthorised persons entering the area. Where possible, the buffer zone should be no less than 1m</li> <li>f) Set up 2 'Danger Asbestos Removal' signs on the 'Asbestos Work Area' (one facing each direction of traffic flow)</li> <li>Note: Appendix 2.7 "Example Ste Setup (Pit and Pipe Remediation Works)" within the Contractor Asbestos Management Guide provides an example of acceptable site setup.</li> <li>Within the Asbestos Removal Area, establish a decontamination zone by placing 200 micron poly sheeting on the ground and doubled asbestos disposal bags dedicated for waste generated during the decontamination process. Asbestos disposal bags must be labelled "Caution - Asbestos. Do not open or break bag. Do not inhale dust"</li> <li>The following PPE is to be worm by <u>All</u> Workers within the exclusion zone:         <ul> <li>a) Type 5, Category 3 Disposable Coveralls (taped at ankle &amp; wrist)</li> <li>b) P1 or P2 disposable mask</li> <li>c) Protective eyewear</li> <li>d) Rubber Boots with suitable tread</li> <li>e) Latex Gloves (disposable)</li> <li>NOTE: Due to potential risks associated with thermal stress (overheating), ensure that PPE noted above is only worn when required.</li> </ul> </li> <li>Place 200 micron poly sheeting in the excavation area to capture any loose pieces</li> <li>Place 200 micron poly sheeting in the pit to capture broken pieces</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				released during break-in process. Secure with tape if possible.
11	ACM Pit Break-In	<ul> <li>ACM-airborne fibre release</li> <li>Manual handling</li> <li>Cuts and abrasions</li> <li>Customers / MOPs approaching the site or workers</li> </ul>	High 4C	<ol> <li>Thoroughly wet down both inside and outside surfaces of the ACM pit using a knap sack or other suitable means. In dry &amp; windy conditions, this may need to be regularly applied.</li> <li>Measure and mark out the area to be broken-in with a pencil / marker so that breakage will be minimised where possible</li> <li>Apply gel/paste to marked out area on either side of the marked break point (e.g. RSS Encapsulate Gel)</li> <li>Break the pit in the marked location using bolster /chisel and ball pein hammer</li> <li>Wipe down the remainder of the pit surface with a damp cloth and dispose of the cloth into the ACM disposal bag(s)</li> <li>Seal the edges of the break-in point with mortar on the inside and outside of the pit</li> <li>Keep pieces as large as possible and place into double bagged asbestos disposal bags</li> <li>Prior to removing the poly sheeting from the inside and outside of the pit, lightly spray with water</li> <li>Carefully fold poly sheeting, capturing any ACM debris. Place the sheeting into asbestos disposal bag.</li> <li>Once bags are ready to be sealed, pick up and twist the inner bag and fold it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape. Repeat the process for the outer bag.</li> <li>When lifting poly sheeting or asbestos disposal bags that are heavy, ensure manual handling techniques are followed.</li> </ol>
12	Decontamination of work area	Asbestos -airborne fibre release	Medium 4A	<ol> <li>Where pit was in close proximity to a structure such as a fence, building or post box, use a damp cloth to wipe down the structure. Dispose of cloths in an asbestos disposal bag.</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
13	Decontamination of tools	Asbestos -airborne fibre release	Medium 4A	<ol> <li>Setup up Asbestos disposal bags to be used for decontamination processes of tools and personnel (e.g. double bagging by placing one Asbestos Disposal bag inside another).</li> <li>All hand tools used during the breaking up of the pit and scraping of top layer (20mm) of soil must be decontaminated.</li> <li>Take required hand tools to the decontamination zone</li> <li>Only Workers who were involved in the ACM removal work and are wearing the required PPE may participate in decontamination.</li> <li>Whilst standing on the poly sheeting, ensure hand tools are wiped down using damp cloths (e.g. wet wipes or wet Chux cloths) unless tool is being disposed. The hand tools should be placed in the dedicated sealable container or in an asbestos disposal bag.</li> <li>Cloths used for decontamination are to be disposed of into the setup asbestos disposal bags</li> </ol>
14	Decontamination of Workers	Asbestos -airborne fibre release	High 4B	<ol> <li>Once decontamination of hand tools is complete, decontamination of Workers is to occur.</li> <li>Workers are to wipe down their coveralls with a damp cloth (e.g. wet wipe or wet Chux cloth) and place the cloths into the decontamination asbestos disposal bag.</li> <li>Remove tape from cuffs (ankles and wrists) and place into the decontamination asbestos disposal bag.</li> <li>Remove protective eyewear and wipe down with damp cloths. Dispose of cloths in an asbestos disposal bag. Protective eyewear must be placed in a dedicated sealable container marked with the following wording; 'Asbestos Dedicated Protective Equipment - Not to be used on Non Asbestos Work'.</li> <li>Carefully remove coveralls turning them inside out to trap any remaining dust or debris and place into the decontamination asbestos disposal bag.</li> <li>Decontaminate boots by wiping down / removing any debris from the tread.</li> <li>Once boots are decontaminated, step out of the decontamination area</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>and dispose of sheeting in the decontamination asbestos disposal bag.</li> <li>9. Take off disposable gloves place in the decontamination asbestos disposal bag.</li> <li>10. Seal the inner bag by picking it up and twisting the inner bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>11. Ensure that the P1/P2 disposable mask is the last item of PPE removed</li> <li>12. Now place the mask into the outer decontamination asbestos disposal bag and seal by picking it up and twisting the outer bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>13. Wash hands thoroughly</li> <li>14. Once decontamination processes have been completed, remove the asbestos removal signage and barrier tape.</li> </ul>
15	Backfill of excavation (by hand)	<ul> <li>Asbestos</li> <li>Manual Handling</li> <li>Slips, trips and falls</li> </ul>	Medium 4A	<ol> <li>Soil that has not been identified as contaminated (in accordance with the Field Inspection Guide) may be used as backfill, as long as it is a suitable material and can achieve the appropriate compaction results.</li> <li>When backfilling excavation, follow safe work process for using hand tools (including shovel)         <ul> <li>a) Warm up with muscle stretches/flexes</li> <li>b) Don't overload the shovel</li> <li>c) Position yourself to minimise bending and twisting</li> <li>d) Bend at the knees (not at the waist)</li> </ul> </li> <li>The following PPE must be worn by Workers when backfilling excavations by hand:         <ul> <li>a) Protective Gloves</li> <li>b) Protective Footwear</li> </ul> </li> <li>Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.</li> </ol>
16	Backfill of excavation (using mechanical	<ul> <li>Plant rollover</li> <li>Striking workers / MOPs</li> </ul>	Critical 4D	1. Soil that has not been identified as contaminated (in accordance with the Field Inspection Guide) may be used as backfill, as long as it is a suitable



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
	plant)	<ul> <li>Striking public property</li> <li>Striking overhead services</li> <li>Noise</li> <li>Manual handling</li> <li>Slips, trips and falls</li> <li>ACM</li> </ul>		<ul> <li>material and can achieve the appropriate compaction results.</li> <li>Undertake a visual inspection of the work site to identify if the excavator's slew range may contact overhead services. If within 5m of overhead electrical asset contact your supervisor.</li> <li>WHERE THE ITEM OF PLANT REQUIRES A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU ARE LICENCED</li> <li>WHERE THE ITEM OF PLANT DOES NOT REQUIRE A LICENCE, DO NOT OPERATE THE PLANT UNLESS YOU HAVE BEEN TRAINED AND HOLD A CERTIFICATE / STATEMENT OF COMPETENCY</li> <li>Complete a Pre-Start Checklist for the Excavator (if not completed on the</li> </ul>
				<ol> <li>Complete a Pre-start Checklist for the Excavator (in not completed on the same day as the initial excavation)</li> <li>Ensure a spotter is used when dismounting plant from trucks or trailers or around the work site.</li> <li>Ensure that Workers are not in proximity to Plant when dismounting the plant from a truck or trailer.</li> <li>Excavator Operators are to wear the following PPE:         <ul> <li>a) Hearing Protection</li> <li>b) Protective Safety Footwear</li> </ul> </li> <li>Establish an exclusion zone to ensure no Workers are within the excavator slew range when excavator is in operation.</li> <li>Clean fill to be used for last 100mm of excavation if existing soil was able to be re-used in excavation.</li> </ol>
17	Transportation of excess soil from site	Contaminated soil	Low 2B	<ol> <li>Excess soil not used on site is required to be transported and disposed of in accordance with the Excess Soil Management Process in a manner consistent with any identified contamination (where applicable).</li> <li>Where ACM is the only identified contaminant within the soil, and the ACM cannot be readily removed by hand, , the soil will need to be treated as ACM Containing Soil and the transport of the soil is to be managed via one of the following methods, and in accordance with Telstra's Excess Soil Management Process:</li> <li>Place soil into asbestos bags (double bagged) and sealed. The bags</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>are to be transported within a suitable vehicle or secured down on the tray of a vehicle; or</li> <li>d) Place soil directly into a rubbish skip that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>e) Place soil into transport containers (e.g. steel drums) that have been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>f) Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting.</li> <li>3. For methods b, c and d, the soil is to be kept damp to minimise the generation of dust and airborne asbestos fibres, and covered with a tarp or 200micron poly prior to transport to eliminate soil or dust escaping.</li> <li>4. The plastic cover on the soil should be labelled in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals 1.</li> </ul>
18	Site Clean Up and Remediation	<ul><li>Manual handling</li><li>ACM-airborne fibre release</li></ul>	Medium 4A	<ol> <li>If ACM debris is identified during the site clean-up and remediation, the ACM debris is to be collected and disposed in accordance with the "Collection of Debris Suspected of Being ACM" SWMS ARS-5384</li> <li>Do final check of the site to ensure that it is as safe and clean as practicable</li> </ol>



This SWMS has been developed through consultation with our employees and has been read, understood and signed by all employees undertaking the works:						
PRINT NAME	SIGNATURE	DATE	PRINT NAME	SIGNATURE	DATE	



#### 11.5 Appendix 2.4 – Collection of ACM Debris SWMS

Activity	Collection of ACM Debris	SWMS Version	v.9	
SWMS ID	ARS-5384	Version Date	01 March 2015	
Organisation Name	Telstra Corporation Limited	ACN/ABN	33 051 775 556	
List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>✓ Work Involving the Disturbance of Asbestos</li> <li>✓ Work Near Energised Electrical Services</li> </ul>	✓ Work undertaken adja	acent to a road	
Pre-Start checks / maintenance required	✓ Nil Identified			
PPE Required to complete the activity:	P1 / P2 Respirator Protective Footwear Disposable Gloves			
Associated Training (qualifications and competencies):	✓ NBN 01099C-Asbestos awareness	I		
Telstra Standards, Procedures or other documents applicable to the works	<ul> <li>Asbestos Management Procedure in Telstra – AJZ-9070</li> <li>Excess Soil Management Process – AXR-6145</li> </ul>			

#### **Consequence Table**

Number	Description	Rank
1	Injury or harm to one person	Minor
2	Serious injuries or disability sustained to one person	Moderate
3	Serious injuries or disability sustained to multiple persons	Major
4	Total permanent disability or fatality of one person	Severe
5	Total permanent disability or fatality of multiple persons	Extreme

#### Likelihood Assessment Table

Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

	RISK EXPOSURE						
Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.						
High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.						
Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.						
Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.						

## Extreme (5) Severe (4) Major (3) Moderate (2) Minor (1) (A) Very Unlikely (B) Unlikely (C) Possible (D) Likely (E) Very Likely

Consequence

#### **Current Risk Exposure Matrix**

Likelihood





Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
1	Site planning and setup	<ul> <li>Workers being hit by passing vehicles</li> <li>Vehicle collisions</li> <li>Pedestrian / MOP hit by passing vehicle</li> <li>Movement of heavy materials and equipment</li> <li>Slips / trips and falls</li> </ul>	High 4C	<ol> <li>Park vehicle in a safe location; Use of side roads with lower traffic volume is preferable</li> <li>Using Telstra's Low Impact Worksites Traffic Management Plans (1007298), select the most appropriate 'Traffic Situation'</li> <li>Where a 'Traffic Situation' cannot be matched to the worksite, contact your Supervisor for assistance as professional traffic management may be required.</li> <li>High visibility clothing must be worn when working on the road side. Where work is to be conducted in low light situations, the high visibility clothing must have reflective strips.</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and falls / hazardous flora and fauna, and remove/control where possible</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised)</li> </ol>
2	Opening and Accessing Pits and Manholes	<ul> <li>Asbestos</li> <li>Sharps (syringes etc)</li> <li>Hazardous Manual Handling of Pit Lids</li> <li>Contaminated air (particularly for manholes)</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>All cement pits must be treated as asbestos containing material (ACM). The only exception to this is where you have received documented instruction from Telstra to treat the specific pit as not containing asbestos</li> <li>If opening a manhole, use gas detector to check for contamination / low oxygen levels Telstra staff follow "Working in Telstra pits and manholes 007753" Inspect the pit for hazards e.g. sharps, contaminants, spiders and snakes and other hazardous fauna</li> <li>If sharps are identified (DO NOT PICK UP SYRINGES WITH YOUR HANDS – USE APPROPRIATE DISPOSAL KIT) - Refer to the Safe Management of Sharps – Syringes &amp; Needles Procedure (006501)</li> <li>Follow standard manual handling process for opening / accessing pit/manhole         <ul> <li>Use correct length pit key / tool to open pit / manhole lid</li> <li>Bend at your knees / use your legs to lift the weight of the lid (not your back)</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
3	Collection of visible ACM(loose material)	<ul> <li>Asbestos</li> <li>Slips, trips and falls</li> <li>Members of Public</li> </ul>	Medium 4A	<ol> <li>Minimise the time required to complete ACM collection and decontamination activities</li> <li>Prior to collecting ACM pieces put on appropriate PPE         <ul> <li>a) P1 or P2 mask</li> <li>b) Disposable gloves</li> <li>Setup up ACM disposal bags (e.g. double bagging by placing one bag inside another.). For small pieces 'zip lock' bags are acceptable. Make sure bags are labelled 'Caution. Asbestos'.</li> <li>Wet down observed surface ACM debris</li> <li>Scoop up debris and a small amount of surrounding soil with a trowel, shovel or set of tongs or if debris is small and the soil is soft, this may be done with glove.</li> <li>Place ACM and soil into inner bag.</li> <li>Once all pieces are collected, wipe down hand tools with a damp cloth (e.g. wet Chux or wet wipe)</li> <li>Place cloths into inner bag and remove gloves -always remove the gloves by turning them inside out.</li> <li>If small zip lock bag was used, place into inner asbestos disposal bag with cloths and disposable PPE</li> <li>Seal inner bag by picking it up and twisting the inner bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag.</li> <li>Wash or wipe hands</li> <li>Dispose of debris as asbestos waste.</li></ul></li></ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
4	Collection of ACM Debris that is embedded in the soil / not easily removed without hand tools or mechanical aids.	<ul><li>Asbestos</li><li>Slips, trips and falls</li><li>Members of Public</li></ul>	<ul> <li>W/A</li> <li>Where ACM is embedded in the soil, stop work and contact the Telstra Works Supervisor.</li> <li>The collection of ACM debris that is embedded in soil / not easily removed without the use of hand tools or mechanical aids is not within the scope of this SWMS.</li> <li>This requires the contractor to hold a Class 'B' Licence and follow the same process identified within the "Break-up and removal of ACM Pit" section off the ACM Pit Remediation (Removal) SWMS ARS-5385.</li> </ul>	
5	Transportation of excess soil from site (if relevant)	Contaminated soil	Low 2B	<ol> <li>Excess soil not used on site is required to be transported and disposed of in accordance with the Excess Soil Management Process in a manner consistent with any identified contamination (where applicable).</li> <li>Where ACM is the only identified contaminant within the soil, and the ACM cannot be readily removed by hand, , the soil will need to be treated as ACM Containing Soil and the transport of the soil is to be managed via one of the following methods, and in accordance with Telstra's Excess Soil Management Process:         <ul> <li>Place soil into asbestos bags (double bagged) and sealed. The bags are to be transported within a suitable vehicle or secured down on the tray of a vehicle; or</li> <li>Place soil directly into a rubbish skip that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> <li>Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting.</li> </ul> </li> <li>For methods b, c and d, the soil is to be kept damp to minimise the generation of dust and airborne asbestos fibres, and covered with a tarp or 200micron poly prior to transport to eliminate soil or dust escaping.</li> <li>The plastic cover on the soil should be labelled in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals</li> </ol>



This SWMS has been developed through consultation with our employees and has been read, understood and signed by all employees undertaking the works:

SIGNATURE	DATE	PRINT NAME	SIGNATURE	DATE



#### 11.6 Appendix 2.5 – Make Safe Damaged ACM Pits SWMS

Activity	Make Safe Damaged ACM Pits	SWMS Version	v.9	
SWMS ID	ARS-5386	Version Date	01 March 2015	
Organisation Name	Telstra Corporation PTY / LTD	ACN/ABN	33 051 775 556	
List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>Work Involving the Disturbance of Asbestos</li> <li>Work Near Energised Electrical Services</li> </ul>	<ul> <li>Work undertaken adja</li> </ul>	acent to a road	
Pre-Start checks / maintenance required	✓ Nil Identified			
PPE Required to complete the activity:		disposable Bloves		
Associated Training (qualifications and competencies):	<ul> <li>✓ NBN 01099C-Asbestos awareness</li> <li>✓ TLA106146A Make safe of Damaged Telstra Pits and Manholes</li> </ul>			
Telstra Standards, Procedures or other documents applicable to the works✓Asbestos Management Procedure in Tel Excess Soil Management Process – AX		70		

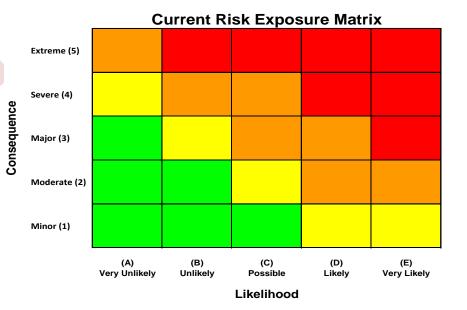
#### **Consequence Table**

Number	Description	Rank	
1	Injury or harm to one person	Minor	
2	Serious injuries or disability sustained to one person	Moderate	
3	Serious injuries or disability sustained to multiple persons	Major	
4	Total permanent disability or fatality of one person	Severe	
5	Total permanent disability or fatality of multiple persons	Extreme	

#### Likelihood Assessment Table

Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

	RISK EXPOSURE					
	Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.				
	High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.				
	Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.				
	Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.				



# 



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
1	Site planning and setup	<ul> <li>Workers being hit by passing vehicles</li> <li>Vehicle collisions</li> <li>Pedestrian / MOP hit by passing vehicle</li> <li>Movement of heavy materials and equipment</li> <li>Slips / trips and falls</li> </ul>	High 4C	<ol> <li>Using Telstra's Low Impact Worksites Traffic Management Plans (1007298), select the most appropriate 'Traffic Situation'. The selection of the most appropriate traffic situation should take into consideration the make safe method being adopted:         <ul> <li>a) Use of footway board</li> <li>b) Use of plastic pickets and sheeting</li> <li>c) Use of plastic sheeting, guards and sandbags</li> </ul> </li> <li>Where a 'Traffic Situation' cannot be matched to the worksite, contact your Supervisor for assistance as professional traffic management may be required.</li> <li>High visibility clothing must be worn when working on the road side. Where work is to be conducted in low light situations, the high visibility clothing must have reflective strips.</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and falls / hazardous flora and fauna, and remove/control where possible</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised)</li> </ol>
2	Opening and Accessing Pits	<ul> <li>Asbestos</li> <li>Sharps (syringes etc)</li> <li>Hazardous Manual Handling of Pit Lids</li> <li>Contaminated air (particularly for manholes)</li> <li>Slips, trips and falls</li> </ul>	High 4B	<ol> <li>All cement pits must be treated as asbestos containing material (ACM). The only exception to this is where you have received documented instruction by Telstra to treat the specific pit as not containing asbestos</li> <li>Inspect the pit for hazards e.g. sharps, contaminants, spiders and snakes and other hazardous fauna</li> <li>If sharps are identified (DO NOT PICK UP SYRINGES WITH YOUR HANDS – USE APPROPRIATE DISPOSAL KIT) - Refer to the <i>Safe</i> <i>Management of Sharps</i> – <i>Syringes &amp; Needles Procedure</i> (006501)</li> <li>Follow standard manual handling process for opening / accessing pit</li> <li>Use pit key / tool to open pit</li> <li>Bend at your knees / use your legs to lift the weight of the lid (not your</li> </ol>



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
				back)
3	Collection of visible ACM(loose material)	<ul> <li>Asbestos</li> <li>Slips, trips and falls</li> <li>Members of Public</li> </ul>	Medium 4A	<ol> <li>Minimise the time required to complete ACM collection and decontamination activities</li> <li>Prior to collecting ACM pieces put on appropriate PPE         <ul> <li>a) P1 or P2 mask</li> <li>b) Disposable gloves</li> <li>Setup up ACM disposal bags (e.g. double bagging by placing one bag inside another.). For small pieces 'zip lock' bags are acceptable. Make sure bags are labelled 'Caution. Asbestos'.</li> <li>Wet down observed surface ACM debris</li> <li>Scoop up debris and a small amount of surrounding soil with a trowel, shovel or set of tongs or if debris is small and the soil is soft, this may be done with glove.</li> <li>Place ACM and soil into inner bag.</li> <li>Once all pieces are collected, wipe down hand tools with a damp cloth (e.g. wet Chux or wet wipe)</li> <li>Place cloths into inner bag and remove gloves -always remove the gloves by turning them inside out.</li> <li>If small zip lock bag was used, place into inner asbestos disposal bag with cloths and disposable PPE</li> <li>Seal inner bag by picking it up and twisting the inner bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Remove P1/P2 mask and place in between inner and outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Wash or wipe hands</li> <li>Dispose of debris as asbestos waste.</li> <li>Make sure surrounding surface soil is appropriately reinstated, flat, at correct levels and compacted.</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
4	Collection of ACM debris from within the pit	<ul> <li>ACM</li> <li>Manual handling</li> <li>Biological</li> <li>Sharps</li> </ul>	High 4C	<ol> <li>Open pit using pit key</li> <li>Locate any broken ACM within the pit.</li> <li>Minimise the time required to complete ACM collection and decontamination activities</li> <li>Prior to collecting ACM pieces put on appropriate PPE         <ul> <li>P1 or P2 mask</li> <li>Disposable gloves</li> </ul> </li> <li>Setup up ACM disposal bags (e.g. double bagging by placing one bag inside another.). For small pieces 'zip lock' bags are acceptable. Make sure bags are labelled 'Caution. Asbestos'.</li> <li>Wet down observed surface ACM debris</li> <li>Scoop up debris and a small amount of surrounding soil with a trowel, shovel or set of tongs or if debris is small and the soil is soft, this may be done with glove.</li> <li>Place ACM and soil into inner bag.</li> <li>Once all pieces are collected, wipe down hand tools with a damp cloth (e.g. wet Chux or wet wipe)</li> <li>Place ACMs and soil into inner bag.</li> <li>Place cloths into inner bag and remove gloves -always remove the gloves by turning them inside out.</li> <li>If small zip lock bag was used, place into inner asbestos disposal bag with cloths and disposable PPE</li> <li>Seal inner bag by picking it up and twisting the inner bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Remove P1/P2 mask and place in between inner and outer bag.</li> <li>Seal outer bag by picking it up and twisting the outer bag. Folding it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape</li> <li>Wash or wipe hands</li> <li>Dispose of debris as asbestos waste.</li> <li>If the pit requires repair, record a CNI</li> </ol>



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
5	Make safe Using Footway boards (preferred method)	<ul> <li>Striking underground services</li> <li>Persons falling into pit</li> <li>Cuts and abrasions</li> <li>Uneven / slippery surfaces</li> <li>Manual handling-Heavy material</li> </ul>	High 3D	<ol> <li>Undertake a visual inspection of the work site to identify potential underground asset locations, depths &amp; alignment (gas/power/water/communications)</li> <li>Place 200 micron plastic sheet over the area that will be covered by the footway board</li> <li>Follow procedure 'Make Safe Using a Footway Board Over a Pit-ALP-7141</li> <li>If activity results in damage to an underground service immediately contact your supervisor and emergency services if required</li> <li>Stretch prior to commencing manual handling activities</li> <li>Position yourself to minimise bending and twisting</li> <li>Bend at the knees (not at the waist)</li> <li>The use of non-disposable protective gloves is mandatory when handling the Footway Board.</li> <li>Smoothing out the area where the board will be placed (if possible) so that board sits flat on the ground</li> <li>Use two person lift as required</li> <li>Weight of large Footway Board is 33kg and will require a 2 person lift.</li> <li>Weight of small Footway Board is 12 kg</li> <li>If the pit requires repair, record a CNI</li> </ol>
6	Make safe using manhole guard, plastic sheeting and sandbags/weights – hard surfaces (if footway boards can't be used)	<ul> <li>Persons falling into pit</li> <li>Cuts and abrasions</li> <li>Uneven / slippery surfaces</li> </ul>	High 3D	<ol> <li>Assess the work area and remove risks associated with slips, trips and falls where possible</li> <li>Setup pedestrian/traffic management controls to prevent access to the pit (where necessary to do so)</li> <li>Place 200 micron plastic sheet over the area to be made safe         <ul> <li>a) Place weights in the corners(i.e. sand bags) of the plastic sheeting to weigh the sheet down,</li> <li>b) Place suitable manhole guard around the pit and secure where possible</li> </ul> </li> </ol>



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
7	Make safe using plastic pickets and bunting – soft surfaces. (if footway boards can't be used)	<ul> <li>Striking underground services</li> <li>Persons falling into pit</li> <li>Cuts and abrasions</li> <li>Uneven / slippery surfaces</li> </ul>	High 3D	<ol> <li>Undertake a visual inspection of the work site to identify potential underground asset locations, depths &amp; alignment (gas/power/water/communications)</li> <li>Assess the work area and remove risks associated with slips, trips and falls where possible</li> <li>Setup pedestrian/traffic management controls to prevent access to the pit (where necessary to do so)</li> <li>Place 200 micron plastic sheet over the area to be made safe         <ul> <li>a) At the corners of the plastic sheeting, drive in the picket through the sheeting, repeating the process at each corner. The sheeting should be kept taut during this process.</li> <li>Once the pickets are in place roll the upright bunting out around the pickets until the area is enclosed.</li> <li>c) Using cable ties, attach the bunting to the pickets.</li> <li>d) The pit site should be checked periodically to make sure the bunting is secure</li> <li>e) If the pit requires repair, record a CNI</li> </ul> </li> </ol>
8	Collection of ACM Debris that is embedded in the soil / not easily removed without hand tools or mechanical aids.	<ul> <li>Asbestos</li> <li>Slips, trips and falls</li> <li>Members of Public</li> </ul>	N/A	<ul> <li>Where ACM is embedded in the soil, stop work and contact the Telstra Works Supervisor.</li> <li>The collection of ACM debris that is embedded in soil / not easily removed without the use of hand tools or mechanical aids is not within the scope of this SWMS.</li> <li>This requires the contractor to hold a Class 'B' Licence and follow the same process identified within the "Break-up and removal of ACM Pit" section off the ACM Pit Remediation (Removal) SWMS ARS-5385.</li> </ul>
9	Transportation of excess soil from site (if relevant)	Contaminated soil	Low 2B	<ol> <li>Excess soil not used on site is required to be transported and disposed of in accordance with the Excess Soil Management Process in a manner consistent with any identified contamination (where applicable).</li> <li>Where ACM is the only identified contaminant within the soil, and the ACM cannot be readily removed by hand, , the soil will need to be treated as</li> </ol>



Task #	Job steps	Hazards / Risks	Inherent Risk Class/ Ranking	Controls
				ACM Containing Soil and the transport of the soil is to be managed via one of the following methods, and in accordance with Telstra's Excess Soil Management Process:
				<ul> <li>c) Place soil into asbestos bags (double bagged) and sealed. The bags are to be transported within a suitable vehicle or secured down on the tray of a vehicle; or</li> </ul>
				<ul> <li>Place soil directly into a rubbish skip that has been double lined with heavy-duty (200micron) plastic sheeting; or</li> </ul>
				e) Place soil into transport containers (e.g. steel drums) that have been double lined with heavy-duty (200micron) plastic sheeting; or
				f) Place soil directly onto the tray of a vehicle, or into a trailer that has been double lined with heavy-duty (200micron) plastic sheeting.
				3. For methods b, c and d, the soil is to be kept damp to minimise the generation of dust and airborne asbestos fibres, and covered with a tarp or 200micron poly prior to transport to eliminate soil or dust escaping.
				4. The plastic cover on the soil should be labelled in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals



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#### 11.7 Appendix 2.6 – Cutting ACM Vinyl Tiles SWMS

Activity	Cutting ACM Vinyl Tiles	SWMS Version	6
SWMS ID	ASU-9220	Version Date	01 March 2015
Organisation Name	Telstra Corporation PTY / LTD	ACN/ABN	33 051 775 556
List of High Risk Construction Work likely to be involved in this Activity	<ul> <li>Work Involving the Disturbance of Asbestos</li> <li>Work Near Energised Electrical Services</li> </ul>		
Pre-Start checks / maintenance required			
PPE Required to complete the activity:			
		twear Disposable Gloves	Type 5 – Cat 3 Coveralls
Associated Training (qualifications and competencies):	<ul> <li>NBN 01099C-Asbestos awareness</li> <li>CPCCOHS1001A-Working Safely in the Construction</li> </ul>		14A – Remove non-friable asbestos 51A – Supervise asbestos removal (required for
Telstra Standards, Procedures or other documents applicable to the works	<ul> <li>Asbestos Management Procedure in Telstra – AJZ-</li> <li>Excess Soil Management Process – AXR-6145</li> </ul>	9070	

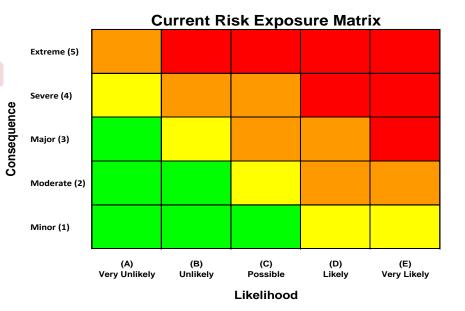
#### **Consequence Table**

Number	Description	Rank
1	Injury or harm to one person	Minor
2	Serious injuries or disability sustained to one person	Moderate
3	Serious injuries or disability sustained to multiple persons	Major
4	Total permanent disability or fatality of one person	Severe
5	Total permanent disability or fatality of multiple persons	Extreme

#### Likelihood Assessment Table

Letter	Description	Rank
A	<ul> <li>Would be very surprised if the risk occurred</li> <li>1 in 10 year event (or less frequent)</li> </ul>	Very Unlikely (or rare)
В	<ul> <li>Risk is not expected to occur. Would be quite surprised if it did.</li> <li>1 in 5 year event</li> </ul>	Unlikely
С	<ul> <li>Risk may occur, but would not be surprised if it did not</li> <li>1 in 2 year event</li> </ul>	Possible
D	<ul> <li>Risk is expected to occur. Would be quite surprised if it didn't.</li> <li>Annual event</li> </ul>	Likely
E	<ul> <li>Clear indications that the risk will occur. Would be very surprised if it didn't.</li> <li>Quarterly event (or more frequent)</li> </ul>	Very Likely (or almost certain)

RISK EXPOSURE					
Critical	Critical risk exposure. Objectives will not be achieved. Requires relevant management's highest priority.				
High	High risk exposure. Achievement of objectives under serious threat. Requires relevant management's active involvement.				
Medium	Medium risk exposure. Some threat to achievement of objectives. Requires relevant management's active monitoring.				
Low	Low risk exposure. Achievement of objectives not under threat. Can be dealt with in normal course of business.				



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Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
1	Site planning and setup	Slips / trips and falls	LOW 2B	<ol> <li>Only persons working for a company with a Class 'B' Asbestos removal licence, holding the relevant competencies and current Telstra COO Endorsement are to complete asbestos modification / removal activities</li> <li>Complete 'Working in Network Sites – Notice of Proposed Works" (EDMS File ABT-1323) at least 10 days prior to planned works commencing</li> <li>Conduct a visual inspection of the work area to look for hazards associated with slips, trips and remove/control where possible</li> <li>Where additional risks have been identified, the risks and control measures must be documented (e.g. diarised)</li> <li>Refer to Telstra's 'Method of Procedure (MOP) – Managing Risks When Working in Network Sites' (ABG-1762 / 000169) – where required</li> <li>Complete and Submit 'MOP Proforma' (000169f02 EDMS ABS4499) – where required / requested</li> <li>Plan works in accordance with the Telstra 'Working in Network Sites Procedure' (013 731)</li> <li>Liaise with Network Property Facility Manager (NPFM) to determine if other works is planned for the same date/time as proposed works.</li> <li>Review the asbestos register for the site prior to commencing works</li> <li>Gather all PPE / Safety equipment required to complete the task prior to task commencement.</li> </ol>
2	Setup work area / exclusion zone	<ul> <li>Slips / trips and falls</li> <li>Asbestos</li> <li>Manual handling of guards / exclusion zone equipment</li> </ul>	MEDIUM 4A	<ol> <li>Vinyl floor tiles in network properties are to be treated as ACM unless proven otherwise.</li> <li>Review the network facility asbestos register to get an indication of the presence of asbestos</li> <li>Review the work area and remove potential slip / trip hazards where possible</li> <li>Stretch / warm-up prior to task commencement</li> <li>Mark out the proposed penetration area</li> <li>Establish a 3m exclusion zone around penetration area using one of the following methods:</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ul> <li>a) Telstra Manhole Guards</li> <li>b) Bollards and Barrier Tape</li> <li>c) Barrier Tape</li> <li>d) Safety Cones &amp; Barricade Bars</li> <li>7. 'Asbestos Related Work in Progress' signage to be displayed</li> <li>8. If practical, use plastic sheeting, secured with duct tape, to cover any surface near the asbestos work area that could become contaminated</li> <li>9. Setup an asbestos disposal bag (double bagged – one asbestos bag inside another)</li> </ul>
3	Prepare Surface for cutting / penetration	<ul> <li>Asbestos</li> <li>Slips / trips and falls</li> <li>Manual handling (kneeling)</li> <li>Use of toxic marker</li> </ul>	MEDIUM 4A	<ol> <li>Apply duct tape over and beyond the planned penetration zone (at least 10cm<sup>2</sup>.</li> <li>Mark out the area to be cut onto the duct tape using a non-toxic marker.</li> <li>Use a spray bottle to spray a mist of water over the area to be punched (Smear a suitable water soluble thickened substance (shaving cream or hair gel may also be used to assist with this)</li> <li>Use of kneeling pads when working from knees</li> <li>Immediately clean up any spilled surface preparation products</li> </ol>
4	Penetrate vinyl tile – using hole punch and hammer	<ul> <li>Asbestos</li> <li>Slips / trips and falls</li> <li>Manual handling (kneeling)</li> <li>Thermal Stress</li> </ul>	HIGH 5A	<ol> <li>Put on PPE required to complete activity:         <ul> <li>a) P1/P2 Mask</li> <li>b) Protective Eyewear</li> <li>c) Gloves (if porous gloves, they must be worn with an inner non-porous glove – e.g. nitrile or latex. Both sets of gloves must be disposed of at the end of the activity)</li> <li>d) Type 5, Category 3 Disposable Coveralls (taped at ankle &amp; wrist)</li> <li>e) NOTE: Due to potential risks associated with thermal stress (overheating), ensure that PPE noted above is only worn when required.</li> </ul> </li> <li>Select an appropriate sized hole punch to minimise the area cut / being disturbed</li> <li>Ensure that the punch tool is sharp as possible to minimise effort and damage to tile</li> <li>Immediately place any loose fragments into the asbestos disposal bag</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				5. Spray water over the punched area
5	Penetrate vinyl tile – using chisel and hammer	<ul> <li>Asbestos</li> <li>Slips / trips and falls</li> <li>Manual handling (kneeling)</li> <li>Thermal Stress</li> </ul>	HIGH 5A	<ol> <li>Put on PPE required to complete activity:         <ul> <li>a) P1/P2 Mask</li> <li>b) Protective Eyewear</li> <li>c) Gloves (if porous gloves, they must be worn with an inner non-porous glove – e.g. nitrile or latex. Both sets of gloves must be disposed of at the end of the activity)</li> <li>d) Type 5, Category 3 Disposable Coveralls (taped at ankle &amp; wrist)</li> <li>e) NOTE: Due to potential risks associated with thermal stress (overheating), ensure that PPE noted above is only worn when required.</li> </ul> </li> <li>Select an appropriate sized chisel to minimise the area cut / being disturbed</li> <li>Ensure that the chisel is sharp as possible to minimise effort and damage to tile</li> <li>Hold the chisel at 45° to the tile surface when hitting with hammer (not perpendicular – straight up/down)</li> <li>Immediately place any loose fragments into the asbestos disposal bag</li> <li>Spray water over the punched area</li> </ol>
6	Remove tile and tile adhesive remnants from penetration zone	<ul> <li>Asbestos</li> <li>Slips / trips and falls</li> <li>Manual handling (kneeling)</li> </ul>	MEDIUM 4A	<ol> <li>Remove tile and associated debris, and place into an asbestos disposal bag</li> <li>Remove vinyl tile adhesive (glue) with a paint scrapper, chisel or screwdriver appropriate to the size of the penetration zone.</li> <li>If the tile is significantly damaged during the cutting process, remove the whole tile to prevent the risk of further degradation / spread of ACM fragments.</li> </ol>
7	Clean up / Decontaminate work area	<ul> <li>Asbestos</li> <li>Slips / trips and falls</li> <li>Manual handling</li> </ul>	MEDIUM 4A	<ol> <li>Remove duct tape from penetration zone (if used) and place in the asbestos disposal bag</li> <li>Conduct a visual inspection of the work area to identify any vinyl tile debris or any other potentially contaminated material and place into asbestos disposal bag if found.</li> </ol>



Task #	Job steps	Hazards / Risks	Risk Class/ Ranking	Controls
				<ol> <li>If available, apply shaving cream to the penetration zone as part of cleaning process</li> <li>Using a damp cloth (chux or raw wipe) clean the penetration area and surrounding surfaces and dispose of the cloths into asbestos disposal bag</li> <li>Using a disposable paint brush, apply a non-hazardous water based acrylic enamel paint to the edge of the remaining tile surface (at the location of the cut).</li> <li>Dispose of paint brush in Asbestos Waste Bag</li> </ol>
8	Decontamination of tools	<ul><li>Asbestos</li><li>Manual handling</li></ul>	MEDIUM 4A	<ol> <li>All hand tools used during ACM vinyl cutting activities are to be decontaminated using the following method:         <ul> <li>a) wipe down tool boxes or cases used within the Asbestos work area</li> <li>b) Wet wipe tools that are non porous prior to storage.</li> <li>c) Tools that have porous handles are to be wet wiped and stored in a separate container / asbestos disposal bag, and only be used for ACM related activities</li> </ul> </li> <li>Cloths used for wiping down tools must be treated as asbestos contaminated waste and disposed in an asbestos disposal bag.</li> </ol>
9	Personal decontamination	• Asbestos	MEDIUM 4A	<ol> <li>Remove and dispose of coveralls and gloves into Asbestos Disposal Bag (Note: if washable non porous gloves were used, they may be cleaned and placed into a separate container marked with the following wording; 'Asbestos Dedicated Protective Equipment - Not to be used on Non Asbestos Work'.</li> <li>Remove and wipe down protective safety glasses and place into a container marked with the following wording; 'Asbestos Dedicated Protective Equipment - Not to be used on Non Asbestos Work'.</li> <li>Remove disposable P1/P2 mask last and place in asbestos waste bag. Ensure hands are washed thoroughly after activity.</li> <li>Once the disposable PPE and has been placed in the asbestos disposal bag, seal the asbestos disposal bags by twisting the neck of the bag and fold it over to form a 'goose neck'. Wrap the 'goose neck' in duct tape.</li> <li>Remove 'Asbestos Related Work in Progress' signage</li> </ol>



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#### 11.8 Appendix 2.7 – Example Site Setup (Pit and Pipe Remediation Work)

ASBESTOS WORK AREA Establish an Asbestos Works Area using self-supporting barriers or bollards and barrier tape (soft barricading)

#### ASBESTOS REMOVAL AREA

Physical Barriers (e.g. manhole guards) are to be setup around the immediate excavation / trench area where ACM removal works are to take place. This is to prevent unauthorised or accidental access

#### **BUFFER ZONE**

The distance between the Asbestos Work Area Barrier and Asbestos Removal Area Barrier (Buffer Zone) should be sufficient to ensure that unauthorised persons are restricted from entering or protruding into the Asbestos Removal Area



SIGNAGE Set up 2 'Danger Asbestos Removal' signs on the Asbestos Work Area (one facing each direction of traffic flow)

> TRAFFIC MANAGEMENT Appropriate traffic management is to be established for the area taking pedestrian and vehicular impacts into consideration

DECONTAMINATION ZONE Establish a decontamination zone by placing 200 micron poly sheeting on the ground. This should be within the Asbestos Removal Area

**NOTE:** The site specific circumstances of each location should be assessed to ensure that the site setup meets regulatory and council requirements, and does not adversely impact vehicular traffic / pedestrians accessing the area.



#### 11.9 Appendix 2.8 - State Requirements for Transport and Disposal of ACM Waste

State	Reg Instrument	Section
VIC	Environment Protection (Industrial Waste Resource) Regulations 2009	Part 4, Clause 35
NSW	Protection of the Environment Operations (Waste) Regulations 2005	Part 3, Division 2, Clause 22 Part 4, Clause 42
QLD	Department of Environment & Heritage Waste Tracking Guideline (Waste Recycling & Reduction Regulation 2011)	N/A
WA	Environmental Protection (Controlled Waste) Regulations 2004 Controlled Waste Fact Sheet 3 - controlled waste tracking	N/A
SA	Environment Protection Authority - Wastes containing asbestos – removal, transport and disposal Guidelines Environment Protection Authority - Waste transport certificate Guidelines	N/A
TAS	Environmental Management & Pollution Control (Controlled Waste Tracking) Regulations 2010	Part 3, Division 1, Clause 13 Part 3, Division 2, Clause 15 Part 4, Clause 21 (1)
ACT	Hazardous Materials Environment Protection Policy - Environment Protection Authority - November 2010 ACT Government - Information sheet 5 – Requirements for the transport and disposal of asbestos contaminated wastes	N/A
NT	Waste Management & Pollution Control Act 2013 Waste Management & Pollution Control Regulations 2013 Waste Management and Pollution Control (Administration) Regulations 2013 – Schedule 2 Northern Territory Environment Protection Authority – Information on the requirements for disposal of asbestos in the Northern Territory Guideline	N/A
Commonwealth	National Environment Protection (Movement of Controlled Waste between States and Territories) Measure	Each state will have subordinate legislation under this commonwealth measure