ENVIRONMENTAL CONSULTING Pty Ltd

DEMOLITION WORK PLAN

PROPOSED SHOP-TOP DEVELOPMENT

November 2023

Prepared for: 17 The Evans Trust

Lot 7 DP 14089
17 McDonald Place
Evans Head NSW
HMC2023.531.02

RE: Lot 7 DP 14089, 17 McDonald Place, Evans Head NSW.

HMC Environmental Consulting Pty Ltd is pleased to present our Demolition Work Plan for the abovementioned development. We trust this report meets with your requirements. If you require further information, please contact HMC Environmental Consulting directly on the numbers provided.

HMC Environmental Consulting Suite 29, Level 2, 75-77 Wharf Street PO Box 311 Tweed Heads NSW 2485		PH: Email: Web: ABN:	0755368863 admin@hmcenvironment.com.au www.hmcenvironment.com.au 60 108 085 614
Title: Job No: Client:	Demolition Work Plan 2023.531.02 17 The Evans Trust		

Document Record:

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L. Barakat, NDC	6.10.2023	Draft Issue A	For Review
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TABLE OF CONTENTS

1 INTRODUCTION

A proposed shop-top development to be located at Lot 7 DP 14089, 17 McDonald Place, Evans Head NSW would require the demolition the existing single-storey fibrous cement and weatherboard clad commercial structure for the construction of the proposed three-storey shop-top development. A Demolition Work Plan has been prepared to support the development application for the proposal.

2 PROPOSED DEMOLITION

It is proposed to partially remove the existing structure with fencing and paving.

In accordance with Council's requirements for applications to demolish a structure, the following information is provided:

Present use of land and buildings – residential.

- The site details, including the location of the existing structures, are shown Appendices 1.
- Sewer is connected to the site and would be disconnected during demolition work to protect Richmond Valley Council assets.
- The water service would initially be disconnected at the water meter and a temporary connection provided during demolition.
- Power would also be disconnected from the structures prior to demolition.

3 LEGISLATION

Clause 13 of the Local Government (Approvals) Regulation 1993 requires Council to take into consideration the provisions of Australian Standard AS2601 – 1991. Clause 1.7.3 of this Standard requires the submission of a Work Plan before an approval is issued. Details of matters to be addressed by this legislation are included in the Work Plan in the following section.

4 WORK PLAN

Location of the site on which the structure to be demolished stands.

Located within the Evans Head urban area. The property is accessed via McDonald Place to the north and Elm Street to the west.

See Appendices 1 and 2.

Overall height of the structure above ground level.

The height to the highest section of the building roof is approximately 3-4m above ground level.

Least distance from the structure to each site boundary.

The structure is located on the northern and western boundaries and less than 4m to the eastern boundary on the northeastern corner.

Type of building (occupancy class), its structural support system and the principal materials of its construction.

- Single-storey fibrous cement and weatherboard clad commercial structure with metal sheet roofing, and timber floor.

Methods of demolition, type of major equipment proposed for implementing those methods and the means of moving such equipment from floor to floor.

- Secure safety fencing to surround demolition work area.
- Appropriate signage for construction site, prominently displayed, including Asbestos Warning, if identified.
- Initially inspection by Safework NSW licensed contractor for presence of asbestos containing material (ACM) and other hazardous waste.
- Stripping ACM if present.
- Removal of all ACM fragments on ground surface around perimeter of the building.

Initially a suitable skip bin (6m^3) would be provided for the stripped ACM (hazardous waste), if present, after appropriate handling, including wetting and wrapping in accordance with Safework NSW by licensed contractor, with approved personal protection equipment (PPE). The skip bin would be used for ACM only, with no co-mingling of other waste.

Following removal of ACM to an approved facility (Nammoona Waste and Resource Recovery Facility) the following work would be completed:

- Removing recyclable fixtures – doors, windows, metal roof sheeting.
- Remove roofing.
- Remove roof supports as required.
- Remove internal linings, PC items as required.
- Remove remaining walls as required
- Remove concrete and paving.
- Remove drainage as required.

A description of the methods proposed for handling and disposing of demolished materials and, in particular, of hazardous materials.

- No internal building inspection has been completed by HMC.
- Demolition material will be handled in accordance with Safework NSW and Safe Work Australia Guidelines, and AS2601-1991.
- There appears to be bonded asbestos containing material (fibro) cladding, with some fragments on the soil surface confirmed as asbestos by laboratory testing (see attached).
- Asbestos Warning signage to be prominently displayed.
- ACM would be delivered to Nammoona Waste and Resource Recovery Facility. No co-mingling of ACM with other waste permitted.
- Recyclables including timber, concrete, metals would be delivered to Evans Head Transfer Station or other approved resource recovery centre. Recyclers may also visit the site, following removal of any ACM and collect recyclables for reuse.
- All other material, which is not suitable for recycling, will be delivered to Council's Evans Head Transfer Station delivered to other resource recyclers, with the recyclables, for final disposal at approved facility.
- Resource Recovery Centres estimate minimum 80% recyclables (volume) (95% waste) in typical demolition waste (see Appendix 4).

A description of the proposed sequence of carrying out the demolition works and an estimate of the time, in days, that it is likely to take to complete all or each of the stages of the work.

The demolition operation is likely to extend over approximately 1 week, with loading directly into waste transport vehicles likely after initial removal of any hazardous materials. Separation of heavy recyclables may occur to minimise resource recovery costs. Metal, particularly copper, is also often separated and temporarily stockpiled, to be collected by recyclers.

Details of the proposed protective measures, including overhead protection and scaffolding required by Clauses 1.5 and 1.7 of AS 2601-2001.

To be determined by the demolition contractor. Minimum requirements include:

- Secure fencing would be provided to the perimeter of the demolition work.
- Sediment fencing provided to prevent material being discharged into the local waterway.
- Power would be disconnected from the structure prior to demolition. There are no overhead powerlines adjacent to the demolition site.
- Scaffolding would be required for **manual** removal of roof sheeting and other external walls where elevated. Scaffolding would be erected in accordance with AS NZS 4576 *Guidelines for Scaffolding and Safework NSW - Erecting, altering and dismantling scaffolding Part-1-prefabricated-steel-modular-scaffolding (*see checklist Appendix 3*)*. Security fencing would be provided to site perimeter.

An excavator or other heavy equipment is often used during demolition, with direct loading onto transport vehicles, with no scaffolding required.

The dimensions of the demolition exclusion zone.

Exclusion zone to be determined by the demolition contractor based on the agreed demolition method. There are limited buffers to the northern and western property boundaries, however, there is adequate area available on site for storage of skip bins and recyclables.

Provision of a traffic management plan.

Traffic accessing the site will be off McDonald Place to the North. Traffic is expected to be busy, particularly during peak hours, and therefore traffic and pedestrian use is likely to be impeded. Traffic control may be required for movements on and off the site, however, where required, traffic control would be undertaken in accordance with best practice.

Parking for contractors is available on along McDonald Place, Elm Street or on the property.

Provision of an Environmental Management Plan for the site and structure.

Having regard to the scale, nature, and demolition methodology with adequate buffers to property boundaries and sandy soil, a formal Environmental Management Plan is not considered to be required.

ACM would be removed by Safework NSW licensed contractors. Erosion and sediment control would be established prior to any demolition activities. As the operation would be completed over approximately 1 week during normal working hours, typical construction noise control and dust suppression controls, would be adequate to manage environmental protection and public health matters.

Demolition will be undertaken in accordance with this Work Plan, relevant provisions of the Australian Standards and good construction practice including compliance with Council's normal hours of work, dust mitigation measures, limiting noise and minimising the time involved for the demolition work. The contractor will be responsible for ensuring suitable induction of employees and "toolbox" meetings to ensure that all relevant statutory requirements are complied with.

Occupational health and safety management system (see AS4801).

All staff involved in demolition works will be suitably inducted and qualified. Appropriate Occupational Health and Safety Management measures will be implemented during the demolition period.

Materials are proposed to be reused/ recycled or reprocessed.

Salvageable timber, masonry (concrete/brickwork) and metal will be available for reuse where possible. Various recyclers are available.
Demolition waste transported to Evans Head Transfer Station, or other approved facility, would be assessed as co-mingled construction and demolition waste for recycling. It is estimated >80% (volume) (95% weight) of material would be recyclable (See Appendix 4).

What materials are proposed to be sorted on site prior to disposal?

Initially hazardous waste (ACM) would be stripped, and removed from the site in an approved receptacle in accordance with Safework NSW requirements. No co-mingling would be permitted.

All waste (other than hazardous waste) would be either sorted into:

- stockpiles of metals, timber for delivery or collection by recyclers
- co-mingled for sorting at an approved resource recovery centre, or
- general waste to landfill.

The resource recovery charges are significantly less for clean masonry, concrete, brickwork suitable for recycling.

The location of the proposed disposal site.

Evans Head Transfer Station (4km north) and other commercial resource recovery centres are available and provide receptacles and sorting.

5 EXECUTION

The work will be executed by competent persons, with due regard at all times for safe working practices and in accordance with the approved Work Plan, a copy of which will be kept on site at all times.

This Work Plan provides an overview of the proposed demolition operation and is subject to change due to site conditions and scheduling. Any significant change to this Work Plan is to be approved by TSC.

6 LIMITATIONS

The information within this document is and shall remain the property of HMC Environmental Consulting Pty Ltd.

This document was prepared for the sole use of client and the regulatory agencies that are directly involved in this project, the only intended beneficiaries of our work. No other party should rely on the information contained herein without the prior written consent of HMC Environmental Pty Ltd and client.

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until project implementation has commenced and therefore your report recommendations can only be regarded as preliminary.

Because a report is based on conditions which existed at the time of the subsurface exploration, decisions should not be based on a report whose adequacy may have been affected by time, natural processes and the activities of man.

7 SIGNATURE

This report has been prepared by Mark Tunks, Principal of HMC Environmental Consulting Pty. Ltd. Note that HMC Environmental Consulting holds current Professional Indemnity Insurance to 4th August 2024.

Mark Tunks
Principal

03 November 2023
Completion Date

8 APPENDICES

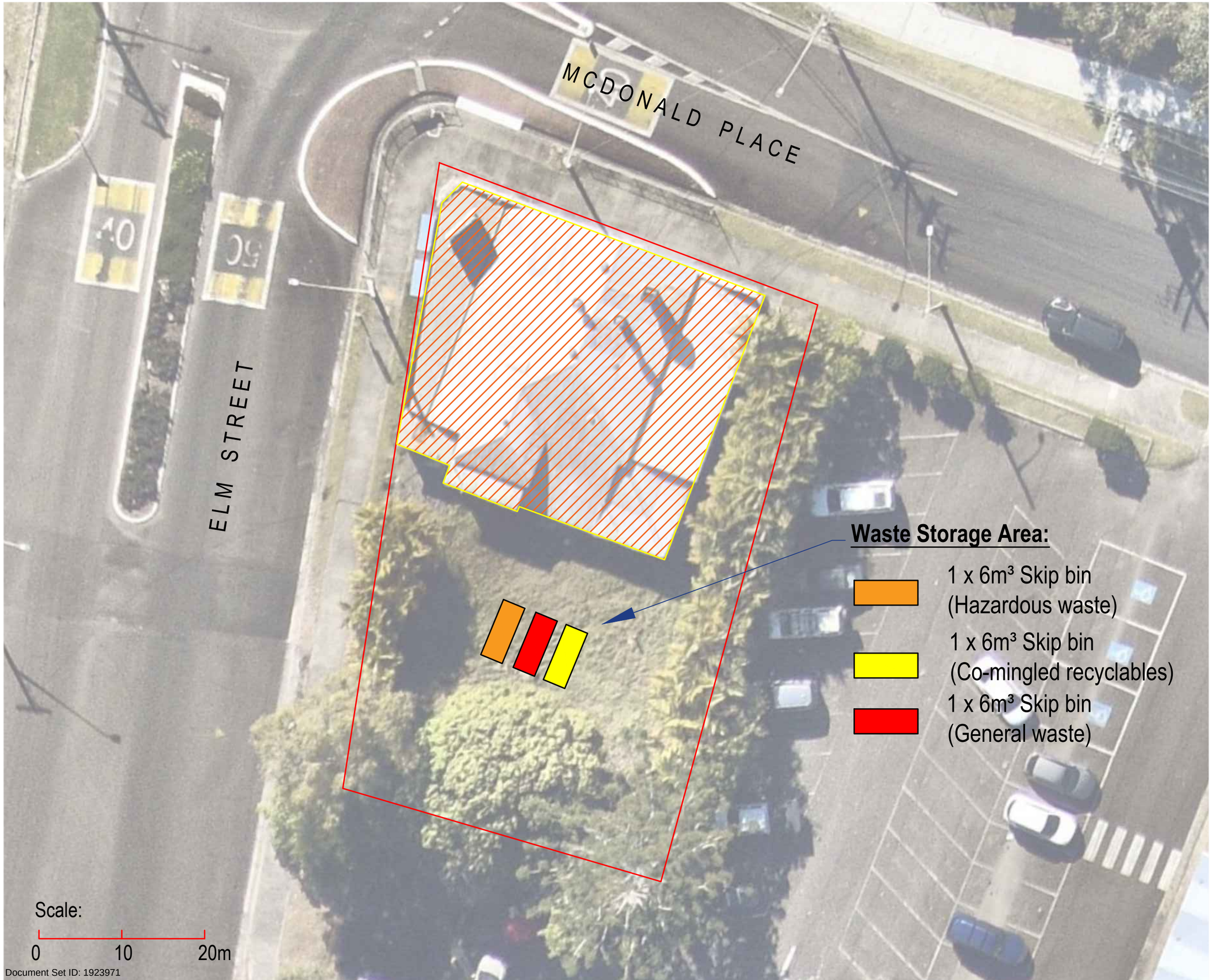
See following pages.

APPENDIX 1 - LOCATION MAPS

Figure 1 - Surrounding Area (Source: Nearmap 2023)

Figure 2 - Site Boundaries (Source: Nearmap 2023)

APPENDIX 2 - TEMPORARY WASTE STORAGE AREA - DEMOLITION



WASTE MANAGEMENT PLAN

TEMPORARY WASTE STORAGE AREA DURING DEMOLITION

Proposed Demolition Area

Lot 7 DP 14089
17 McDonald Place
Evans Head NSW

HMC2023.531.03
Date: September 2023
VERSION: 05/09/2023
DRAWN: MF
BASE: Nearmap 2023

PROPOSED LAYOUT OF WASTE STORAGE AREA IS GENERAL ONLY AND IS TO BE CONFIRMED ON SITE BY SITE MANAGER

HMC
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APPENDIX 3 - ERECTING SCAFFOLDING CHECKLIST (SAFEWORK NSW)

APPENDIX B - CHECKLIST

The following checklist can be used by a person in control of preparing for the erection, alteration and dismantling of a scaffold to ensure the important safety features and procedures specified in this guide are in place. It should be used prior to work being undertaken.

Tick yes or no as appropriate against each item. By reviewing and completing this checklist with all 'yes' answers, you will be well on your way to achieving your legal obligations.

Where you answer 'no' to any item, you should ensure that the item is still addressed to meet your legal obligations.

Scaffold configuration and design checklist

Scaffold configuration and design	Yes	No	Comment
Is the maximum height to the top working platform no more than 20 m?			
Are standards manufactured from tube 48.3 mm OD x 4 mm wall thickness and minimum steel grade C250?			
Is the bay size 2.4 m x 1.3 m or less (approximately)?			
Is the number of fully planked platforms 10 or less?			
Are there 10 or less available hop-up brackets capable of supporting platforms?			
Are the hop-up brackets suitable for no more than two planks (about 450 mm width)?			
Is live load uniformly distributed over the working platform – and not exceeding permissible duty rating as outlined in table 1?			
Are the number of fully planked platforms and hop-up platforms, and their associated duty ratings, in accordance with table 1?			

Scaffold configuration and design	Yes	No	Comment
Are working platforms supported by hop-up brackets not loaded to more than light duty, regardless of the duty rating of the working platform in the adjoining scaffold bay?			
Is scaffold containment sheeting (eg chain wire mesh and shade cloth), if provided, at least 20 per cent porous?			
Has every second standard been tied to a supporting structure of adequate strength at (maximum) 4 m vertical intervals?			
For scaffolds greater than 14 m in height to the top working platform, is an extra row of ties fitted near the base of the scaffold, as shown in figure 6?			
Are standards with containment sheeting attached extending no more than 2 m above the highest ties?			
For standards supporting sheeting, are all the joints below the top working platform? Are ties staggered, as far as reasonably practicable?			
Have joints in the standards been staggered, as far as reasonably practicable?			
Is the foundation or footing adequate to support the imposed load? **Note:** If in doubt, get expert advice.			
Are fully planked platforms at every 2–3 m apart vertically?			

Site management checklist

Site management	Yes	No	Comment

Is there a WHS management plan on-site that clearly identifies those responsible for implementing control measures in relation to scaffolding?			
Does the site-specific induction include the names of all persons responsible for implementing control measures in relation to scaffolding?			
Has a documented site-specific risk assessment been undertaken to ensure that scaffolding is not erected near a cliff top or other high wind area?			
Are site-specific hazards, eg proximity to powerlines – and control measures included in the scaffolding safe work method statement?			
Is there a system in place to inform workers which platforms are working platforms or closed platforms, eg scaffolders to provide information and in turn this information to be provided to workers through regular toolbox meetings?			
Is there adequate supervision to ensure that the control measures are monitored for effectiveness and modifications are recommended when appropriate?			
Are scaffold inspection records available and maintained by the principal contractor?			

APPENDIX 4 - TYPICAL RESOURCE RECOVERY CENTRE DEMOLITION RECYCLABLES

PRO SKIPS
The Professionals in Waste Management
Recycling Specialists

PO Box 957
Nerang
Qld 4211

Phone:
(07) 5533 2547

Fax:
(07) 5533 2537

Email:
info@proskips.com.au

ABN:
89 114 580 308

Environmental Policy

Proskips is one of the Gold Coasts leading waste management and recycling companies. We specialise in construction and demolition waste. The company is locally owned and operates it's own waste transfer station. As a responsible corporate citizen we have chosen to work closely with the Environmental protection agency to adopt it's best business practice methods of dealing with all our C&D waste.

The EPA classify all waste transfer stations with a capacity of 20,000t or more a year to be an ERA-82 (environmentally relevant activity) and as such are required to be licensed by the EPA. Proskips engaged a national environmental planning agency "Planit Consulting" to lodge both the development application to the Gold Coast City Council and the ERA-82 (waste transfer station) to the EPA

The reason we have chosen to go to the expense and time of operating our own waste transfer station is one of economics, which at the same time is good for the environment. We have taken what we believe are the best methods from both European and Australia companies to develop our methods of dealing with C&D waste.

Our goal is to recycle 95% of all waste that comes into the transfer station, with only 5% going to landfill. The break up of our waste is as follows-:

20%	Concrete and Hardcore
20%	Wood
20%	Soil
10%	Green waste
10%	Metal
10%	Plastic
4%	Cardboard & Paper
3%	Gyprock
3%	Other

Recycling Methods

Concrete: All concrete and hardcore is crushed through an impact crusher and screened to several small aggregates and roadbase and is sold back to the building industry for drainage, walls, under slabs etc.

Wood/Green waste: The wood is transported to Rocky Point power station which is then used to generate power for the sugar mill with the excess power being sold to the national grid.

Soil: The soil is screen through a 10mm trommel and sold to landscape gardeners and builders.

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info@proskips.com.au

ABN:
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Metal: The metal is separated into copper, aluminium, heavy gauge steel and pig metal then sold to One Steel to be melted down.
Cardboard: All cardboard is transported to Amcor recycling at Molendinar.
Gyprock: The gyprock is transported to Marlyn Compost at Jacobs Well where it is grinded down and added to garden soil and mulches.
Plastic: Landfill
Other: Landfill

This has been a brief outline of our recycling practices, as you can see when using the services of Pro Skips you can be confident of an environmentally conscious business.

These methods of collecting and recycling C&D waste will be adopted for all Constructions jobs on the Gold Coast. I have read through all the criteria for the Green Star rating system, where they are looking for 80% recycling by weight. We can easily achieve this for you as we currently recycle 80-90% by volume – in real terms this would amount to 95% recycling by weight as the only waste we send to landfill is very light after we have taken sand, soil, metal & concrete out of the equation.

To comply with the green star rating system we can give you a monthly environmental report to show the breakdown of waste generated from each job and percentage of waste recycled.

I trust this meets with your approval and assuring you of our best attention at all times

Yours sincerely

John Sheerin
Director

APPENDIX 5 - EPA COMPLIANCE CHECKLIST

EPA Compliance Checklist

Construction and Demolition Waste					
No.	**Item**	**Requirement**	**Evidence**	**Sighted**	**Date**
1	Does any of the waste meet a resource recovery order (RRO)?	Yes • classify waste onsite. • must comply with all conditions of RRO. • loads covered.	• waste classification report. • records required by RRO including sampling results and copies of statements of compliance. • records detailing where material was transported to. • copy of the receival sites development consent, if required • transport records (e.g., GPS trackers)		
2	Will the C&D waste be sent for recycling/reuse/ reprocessing in NSW? Note: Recommend generator pay receival facility directly	Yes • classify waste onsite. • receival facility must have EPL for those waste types and planning consent. • loads covered. • if transported outside NSW, interstate waste tracking requirements apply.	• waste classification report. • any records including sampling results. • copy of receival site's EPL (available on public register). • weighbridge receipts. • invoicing and payment receipts from receival facility or contractor. • transport records (e.g., GPS tracker).		
3	Will the C&D waste be sent for disposal (levy applies)? Note: Recommend generator pay disposal facility directly	Yes • classify waste onsite. • receival facility must have EPL for those waste types and planning consent. • loads covered.	• waste classification report. • any records including sampling results. • copy of receival site's EPL (available on public register). • weighbridge receipts. • invoicing and payment receipts from receival facility or contractor. • transport records (e.g., GPS tracker).		

Asbestos Waste					
No.	**Item**	**Requirement**	**Evidence**	**Sighted**	**Date**
1	Is any of the waste asbestos?	Yes • classify waste onsite. • SafeWork NSW must receive a notification to remove asbestos by a licenced asbestos removalist. • you may need an occupational hygienist to verify the site is free of asbestos (clearance certificate).	• waste classification report. • sampling results. • asbestos audit. • evidence of SafeWork NSW notification. • removalist licence. • clearance certificate.		
2	Will the asbestos be transported offsite?	Yes • asbestos sheets must be wrapped. • soils wetted down and covered. • vehicles must be covered. • transporter to use smart phone to track waste – WasteLocate >10t.	• records of site checks. • weighbridge receipts. • any records including sampling results. • invoicing and payment receipts from receival facility or contractor. • WasteLocate evidence - consignment code. • transport records (e.g., GPS tracker).		
3	Where will the asbestos be disposed? Note: Recommend generator pay disposal facility directly	Yes • receival facility must have EPL for those waste types and planning consent.	• copy of receival site's EPL (available on public register). • weighbridge receipts. • invoicing and payment receipts from receival facility or contractor. • WasteLocate consignment code (audit consignments).		

Construction and Demolition Waste					
No.	**Item**	**Requirement**	**Evidence**	**Sighted**	**Date**
1	Will uncontaminated soil be sent offsite for re-use?	Yes • assess and classify soil. • planning consent may be required or approval from owner of the receival site. • compliance with Resource Recovery Order (RRO) and Resource Recovery Exemption (RRE).	• waste classification report. • copy of the receival site's development consent, if required. • statutory declaration from landowner. • records required by RRO including sampling results and copies of the statements of compliance. • VENM certification. • Geo-tech report (if available). • records detailing where material was transported to. • transport records (e.g., GPS trackers).		
2	Will contaminated soils be generated for offsite disposal?	Yes • classify the waste using EPA Waste Classification Guidelines. • if hazardous, the waste must be treated to lower its waste classification prior to disposal. This may include immobilisation.	• waste classification report. • sampling results.		
3	Contaminated soil transport	Yes • soils contaminated with a substance or waste referred to in Part 1 of Schedule 1 of the *Protection of the Environment Operations (Waste) Regulations 2014.* • loads covered.	• consignment authorisation.		
4	Contaminated soil disposal Note: recommend generator pay disposal facility directly	Yes • receival facility must have EPL for those waste types and planning consent. • ensure soil is assessed and classified.	• copy of receival site's EPL (available on public register). • weighbridge receipts. • sampling results. • invoicing and payment receipts from receival facility or contractor. • transport records (e.g., GPS tracker).		

APPENDIX 6 - PHOTOGRAPHIC LOG

Photo No. 1	Date 23.08.2023

Description:
View south-east towards existing dilapidated building.

Photo No. 2	Date 23.08.2023

Description:
View north towards existing dilapidated building.

Photo No. 3	Date 23.08.2023

Description:
Sample of external cladding confirmed as asbestos (ACM4)

Photo No. 4	Date 23.08.2023
Description: Sample of ACM near southern verandah confirmed by laboratory as asbestos (ACM3)	

Photo No. 5	Date 23.08.2023
Description: Sample of ACM near eastern side of building confirmed by laboratory as asbestos (ACM5)	

APPENDIX 7 - LABORATORY CERTIFICATES

CERTIFICATE OF ANALYSIS

Work Order	: **EB2326214**	Page	: 1 of 5
Client	: **HMC ENVIRONMENTAL**	Laboratory	: Environmental Division Brisbane
Contact	: MARK TUNKS	Contact	: Customer Services EB
Address	: SUITE 29, LEVEL 2 75-77 WHARF STREET TWEED HEADS 2485	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: 07 5536 8863	Telephone	: +61-7-3243 7222
Project	: McDonald Place EVANS HEAD	Date Samples Received	: 25-Aug-2023 11:20
Order number	: 2023.531	Date Analysis Commenced	: 25-Aug-2023
C-O-C number	: ----	Issue Date	: 04-Sep-2023 15:21
Sampler	: MARK TUNKS		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 11		
No. of samples analysed	: 11		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Tim Kuo	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- **EA200B conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778**
- **EA200 Legend**
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Analysis of asbestos from swabs and tapes is not covered under the current scope of NATA accreditation.
- EA200: N/A - Not Applicable

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	EHL1	EHL2	EHL3	EHL4	EHDUP
			Sampling date / time	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	EB2326214-001	EB2326214-002	EB2326214-003	EB2326214-004	EB2326214-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	6.9	4.8	3.0	8.0	6.8
EG020T: Total Metals by ICP-MS								
Lead	7439-92-1	0.1	mg/kg	332	99.5	552	266	284

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Sample ID	ACM1	ACM2	ACM3	ACM4	ACM5
			Sampling date / time	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00	23-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	EB2326214-007	EB2326214-008	EB2326214-009	EB2326214-010	EB2326214-011
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**Yes**	**Yes**	**Yes**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**Ch + Am**	**Ch + Am**	**Ch + Am + Cr**
Asbestos (Trace)	1332-21-4	-	-	**No**	**No**	**N/A**	**N/A**	**N/A**
Sample weight (dry)	----	0.01	g	**28.9**	**80.1**	**66.2**	**56.3**	**120**
Synthetic Mineral Fibre	----	-	-	**No**	**No**	**No**	**No**	**No**
Organic Fibre	----	-	-	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
APPROVED IDENTIFIER:	----	-	--	**T. KUO**	**T. KUO**	**T. KUO**	**T. KUO**	**T. KUO**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	EHRS1	----	----	----	----
				Sampling date / time	23-Aug-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2326214-006	--------	--------	--------	--------
					Result	----	----	----	----
EG020T: Total Metals by ICP-MS									
Lead	7439-92-1	0.001	mg/L		<0.001	**----**	**----**	**----**	**----**

Analytical Results

Descriptive Results

Sub-Matrix: **SOLID**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	ACM1 - 23-Aug-2023 00:00	Grey fragment with attached organic matter and paint approx 85 x 65 x 5mm.
EA200: Description	ACM2 - 23-Aug-2023 00:00	Organic sheeting fragment with attached paint approx 120 x 110 x 5mm.
EA200: Description	ACM3 - 23-Aug-2023 00:00	Asbestos sheeting fragment with attached organic matter approx 140 x 130 x 5mm.
EA200: Description	ACM4 - 23-Aug-2023 00:00	Grey fragment with asbestos fibres, attached organic matter and paint approx 100 x 80 x 5mm.
EA200: Description	ACM5 - 23-Aug-2023 00:00	Brown fragments with asbestos fibres, attached organic and soil matter approx 50 x 40 x 5mm.

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOLID) EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples