



Hastings Secondary College PCYC Multi-Sport Centre

Waste Management Plan

669-AWE-WMP-001

Date: 09/03/2023
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Status: For Construction

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Waste Management Plan

Project No.	669
Project Name	Hastings PCYC
Client	NSW Department of Education, PCYC, Hastings Secondary College
Client Project Manager	Currie and Brown
Project Location	16 Owen Street, Port Macquarie, NSW, 2444
Planning Instrument	
AWE Project Manager	Craig McIlveen
Phone No.	0403 611 161
Scope of Works	Construction of a new Multi- sport centre conceived in three parts. Courts, a circulation spine and supporting facilities. Works include external site improvements and on-grade car parking.
Timing of the Works	November 2022- December 2023
Authorised By:	Craig McIlveen – AWE Project Manger

Revision Register:

REV	DATE	STATUS	AUTHOR	APPROVED BY	COMMENTS
A	2/11/2022	For Approval	Claire Davies	Craig McIlveen	No Comment
B	19-Dec-22	For Approval	Craig McIlveen	Craig McIlveen	School Infrastructure/ comments adopted
C	17-Jan-23	For Construction	Claire Davies	Craig McIlveen	Updated to For Construction
D	9-Mar-23	For Construction	Craig Mcilveen	Craig Mcilveen	Update for Response to DPE
	Date	Status			
	Date	Status			

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1 INTRODUCTION

OBJECTIVES

This Waste Management Plan outlines how A W Edwards Pty Limited will manage the waste management on the Hastings PCYC.

A W Edwards is committed to ensuring appropriate methods of waste minimisation, recycling and disposal and spoil management.

The objective of the Waste Management Plan is to:

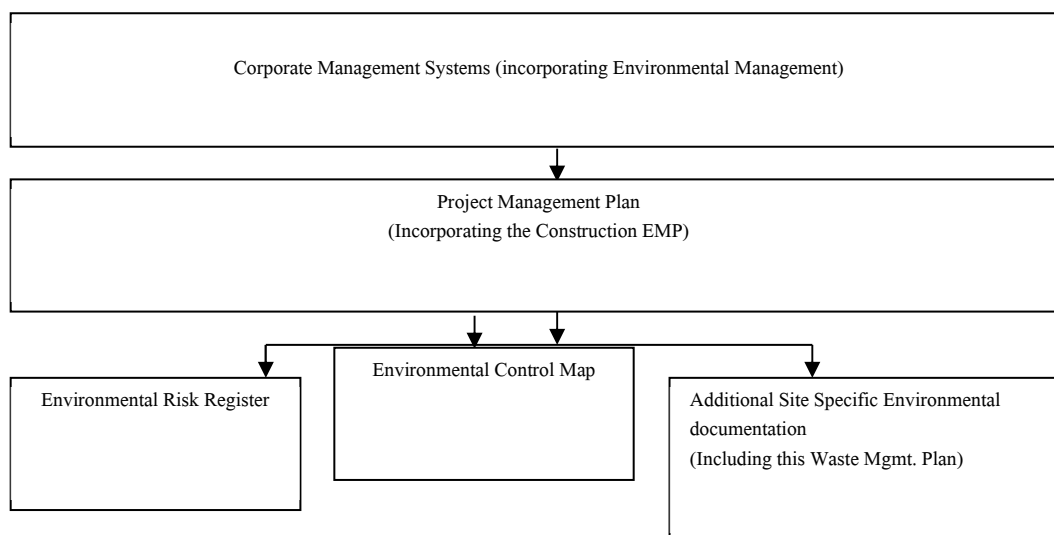
- Ensure that waste generation is avoided as a priority;
- Ensure that environmentally sensitive work practices are followed within waste minimisation programs;
- Ensure that, wherever practicable, waste materials are recycled/re-used;
- Ensure that the disposal of all liquid and non-liquid wastes is in accordance with the EPA regulations;
- Ensure that spoil from sites is managed appropriately to minimise environmental and health risks;
- Ensure that the air quality surrounding sites is appropriately managed;
- Ensure that all spoil is disposed of to prevent contamination of any lands.
- Ensure that biomedical, infectious or toxic wastes & storage of any chemicals/hazardous materials are correctly managed.

Over the past few years the environmental regulation body has undergone a number of name changes, including:

- Australian Government Environmental Protection Authority (EPA);
- NSW Environment Protection Authority (NSWEPA).

2 SCOPE

This Management Plan has been developed as part of the Project Management Plan. The relationship between environmental management documentation can be summarised in the flow chart below:



The scope of this Management Plan is to provide Project information regarding waste management, re-use and spoil management for the Hastings PCYC.

Further information may be required at site, detailing specific site requirements and mitigation measures.

3 STATUTORY REQUIREMENTS

Documents and references relevant to the implementation of the Waste Management Plan include:

- Head Contract;
- Project Management Plan (and appendices);
- A W Edwards Construction Documentation;
- Legal and other requirements identified in the *Legal and Other Requirements Register* attached to the Project Management Plan

4 RISK ASSESSMENT

The risk assessment process, as detailed in the Project Management Plan, has been applied to the Project, in order to determine the sources and risks associated with waste and spoil production issues. Details of this risk assessment, including mitigation measures, have been included in Risk Management section of the Project Management Plan. Specific risks associated with each site are included in the Project Management Plan, Environmental Control Map(s) and associated Environmental Risk Register.

The risk assessment process will be reviewed for this aspect at the following times:

- Through internal and external site audits, and including comments from personnel and subcontractors on site;
- Following high monitoring results;
- Following a complaint;
- If new work processes that have not been previously addressed start on site;
- Should new requirements for the project or new legislation take effect.

UNEXPECTED FINDS

Any potential asbestos contaminated material or unidentified contamination will be managed in accordance with the projects unexpected finds process shown in appendix B.

5 MANAGEMENT AND MITIGATION

All construction areas shall identify waste streams, minimisation and shall dispose of non-recyclable waste materials in the following ways:

- Hazardous materials surveys to be completed.
- Registers and waste disposal requirements as per SafeWork NSW, EPA and NSW EPA requirements for removal, storage, transport and disposal.
- General site wastes –use one bin system and sort in contractor’s yard to produce quantities of material for recycling, reuse, disposal etc.
- Empty drums are to be taken off-site for disposal.
- Empty drums shall be crushed prior to recycling/disposal.
- Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter.

6 RECYCLING STRATEGY

GOAL

In line with the *NSW Waste and Resource Recovery Strategy 2014 – 21 (NSW EPA 2014)*, A W Edwards have a minimum goal of 80 per cent of construction and demolition waste (by weight) is diverted from landfill, and either recycled or reused.

STRATEGY

All construction areas shall adhere to a recycling strategy where practicable in the following ways:

- a. Where reasonably practicable, through project planning, actions will be taken to reduce the amount of waste generated, eg. package considerations, and good housekeeping and material storage practices (*Avoid and Reduce Waste*)
- b. Items to be considered for inclusion, but are not limited to:

Spoil;

Concrete;

Timber;

Metal/glass;

- c. Ascertain whether materials can be re-used on-site and provide a designated area for storing such materials (*Reuse Waste*);
- d. If material cannot be re-used on-site establish a collection service for the recyclable materials (*Recycle Waste*);
- e. Erect signs within the construction areas to encourage employees to reduce, re-use, and recycle.

Specific strategies for the above-identified materials may include but are not limited to;

- Spoil – where possible; will be retained onsite under the subfloor void area.
- Concrete – Waste concrete shall be sorted onsite as practicable and recycled at an licensed facility where further separation and recycling can take place. Surplus concrete and concrete washings shall be transported to an appropriate recycling facility.
- Any weed waste generated during works shall be disposed of to landfill.

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- Gyprock – will be sorted onsite and separated and recycled at a licensed facility.
- Timber – The following procedures shall occur regarding timber wastes:
Pallets and other packaging shall be returned to the supplier for reuse where possible;
- Metal/Glass - The following procedures shall occur regarding metal and glass wastes:
Drums and other metallic packaging shall be returned to the supplier for reuse where possible;
Reinforcing steel and steel pile offcuts shall be sold to scrap metal merchants for recycling;

DIPOSAL

Five waste disposal locations operate within the Hastings LGA with the commercial/ industrial operation being Cairncross Waste Management Facility. Building Waste is disposed and recycled at these facilities.

The locations include:

- Cairncross Waste Management Facility
- Port Macquarie Waste Facility
- Wauchope Waste Facility
- Kew Waste Facility
- Comboyne Waste Facility

Table 1.0 lists the anticipated waste figures and percentage being recycled.

Table 1.0- Waste Conversion

Material	Volume (m3)	*Tonnes	**Appx. Percentage Recovered	Variance Approved to Proposed (m3)
Excavation Material	54	54	99.8%	- 696
Green waste	443	66.5	80%	0
Bricks	84	100.8	100%	0
Tiles	N/A	N/A	100%	0
Concrete	500	750	100%	0
Timber	4	0.8	33%	0
Plasterboard	N/A	N/A	50%	0
Metals	27	13.5	100%	0
Asbestos	N/A	N/A	0%	0
Other waste	N/A	N/A	0%	0
Totals	1112	985.5		- 696

7 MONITORING

In order to ensure that the recycling goal is met at all sites the following will be monitored:

- The amount of waste disposed of will be recorded;
- The amount of disposed waste that has been recycled or reused will be recorded;
- The percentage of waste recycled or reused will be determined in order to ensure that it complies with the recycling goal.

Waste Management Plan

Where required, in order to ensure that there is no wastage of energy used on site, the following should be monitored:

- Energy consumption figures will be recorded/monitored;
- Spikes or overuse shall be identified, and the potential source identified;
- Specific monitoring of individual pieces of equipment or processes shall be considered if areas of high usage cannot be accurately determined.

8 RECORDS

Records for this Management Plan, as under the Project Management Plan, shall be maintained in accordance with detailed procedures in the A W Edwards Management System.

All documents requiring sign-off shall be forwarded to the Principal's Representative prior to the sign-off being required.

Particular documents required to be maintained in this Management Plan include, but are not limited to:

- Disposal receipts for all waste;
- Monthly waste and recycling reports provided by skip bin company engaged by A W Edwards for the project
- Correspondence with the Principal's Representative and other interested parties regarding waste management control;
- Records of any complaints.

Appendix A of this report provides the record keeping document for the construction phase of the project.

9 AUDITING

Auditing of this and associate management plans shall be conducted in accordance with the Project Management Plan.

10 NON-COMPLIANCE AND COMPLAINTS

The protocol for the handling, recording and reporting of soil and water related complaints will be in accordance with the Project Management Plan, and/or Community Communication Management Plan (where one exists).

Should it be found that the recycling goal is not met, reactive measures will be taken to modify demolition/construction operations to meet the goal. These measures shall include the following:

- An assessment shall be made of sources of waste production during the monitoring period that are likely to be contributing to the higher than acceptable levels
- Controls and/or operational modifications shall be determined that will decrease the levels of waste production from those specific sources, and lean towards recyclable materials. Should the activity have ceased once sampling results are obtained, measures shall be put in place to ensure that similar results are not obtained from the same process at different sites.
- Monitoring results following the reactive measures shall be checked to ensure that actions taken have reduced waste production. Should results still be above the acceptable limits an assessment shall be made as to the appropriateness of the process. If the process cannot be avoided, and further modifications cannot be implemented, the Principal's Representative shall be consulted to determine the most appropriate course of action.

11 SUBCONTRACTOR MANAGEMENT

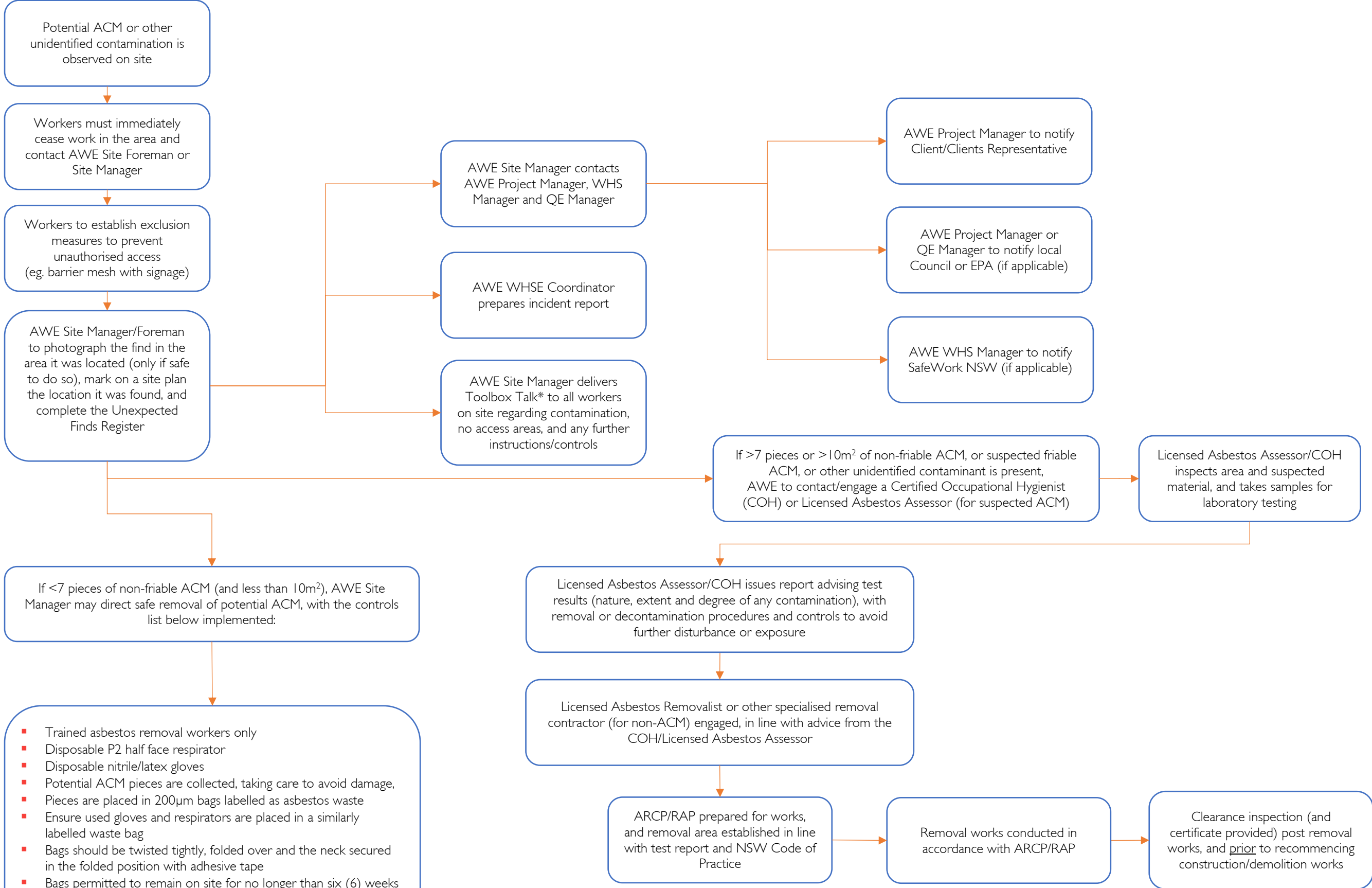
Subcontractor management shall be conducted as per the relevant requirements of the A W Edwards Project Management Plan to ensure that the requirements of this procedure extend to subcontractor works.

Subcontractors will be audited at periodic intervals to ensure their compliance with A W Edwards' requirements. Auditing and inspections shall be random and based on the length of time subcontractors are situated on site. Audits may also be the result of observed non-compliance of the subcontractor to A W Edwards' requirements.

APPENDIX A – WASTE MANAGEMENT RECORD

APPENDIX B – UNEXPECTED FINDS PROCESS

UNEXPECTED FINDS PROTOCOL FLOWCHART



* Note: Methods of communication with workers and other persons in the area may vary pending status of COVID19 pandemic, NSW Health advice and government restrictions