

# NATIONAL RECYCLED MATERIAL SPECIFICATIONS

FOR SORTING AND PROCESSING FACILITIES

Project Briefing and Q&A Webinar

- Wednesday 11<sup>th</sup> August, 10.00am
- Thursday 12<sup>th</sup> August, 3.00pm

**NWRIC**

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## **National Overview**

- standards, accreditation, specifications

## **Project Outline**

- Objective
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- Material Flow Pathways & Specifications
- Stakeholder Engagement
- Online Survey

## **Q & A**

## **Contact Details**

# **NATIONAL STANDARDS & SPECIFICATIONS OVERVIEW**

# NATIONAL WASTE POLICY ACTION PLAN 2019

*Action 3.7 – Consider national standards for kerbside recycling collection and materials recovery facilities to improve consistency and performance.*

## ENVIRONMENT MINISTERS MEETING 1 15 April 2021

*“Environment Ministers agreed to work collaboratively to improve the harmonisation of municipal waste collection, taking the first step within each state through the implementation of standards within each jurisdiction for kerbside recycling, and a national implementation road map that considers costs and benefits.”*

# NATIONAL STANDARDS & SPECIFICATION PROJECTS



Australian Government  
Department of Agriculture,  
Water and the Environment

NWRIC

## FOOD ORGANICS STANDARDS

### Food Waste for Healthy Soils



Australian Government  
Department of Agriculture,  
Water and the Environment

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# National accreditation or certification program for Australian recyclers

## Background

The Australian Council of Recycling (ACOR), in partnership with Equilibrium, has been engaged to assess the viability, scope and benefit of a national accreditation or certification scheme for Australian recyclers.

The scheme was originally designed as a site-based accreditation program for:

- the collection and transport of recyclable materials from all sectors of the economy;
- the sorting, pre-treatment and storage of collected recyclable materials from those sectors;
- the quality of outputs produced (against sorting and processing standards)
- the remanufacture of collected material into recycled content products (RCPs); and
- the management of supply chain relationships including with export partners.



# National accreditation or certification program for Australian recyclers

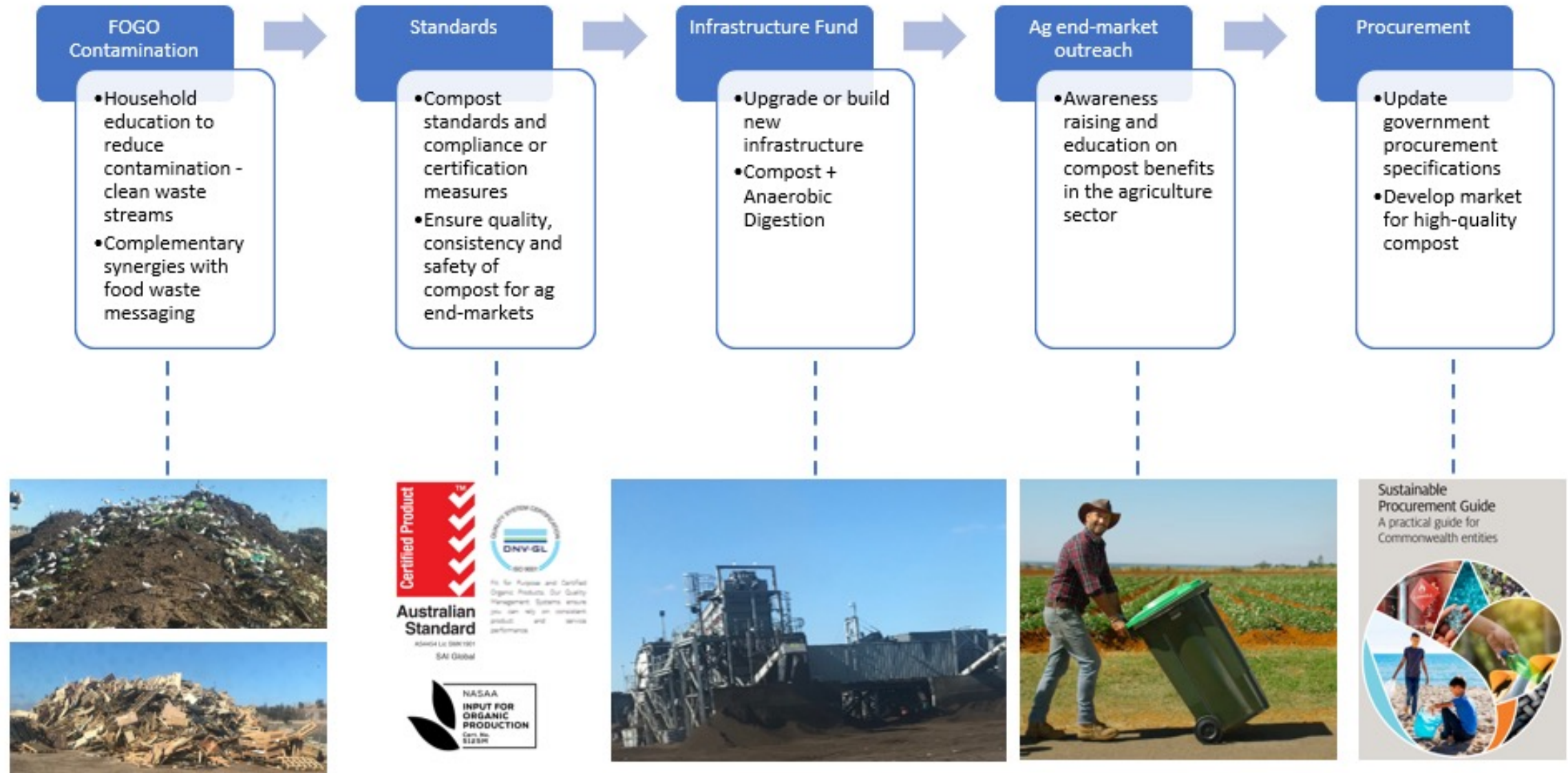
## Purpose

The aim of the accreditation or certification program is to provide assurance around the legitimacy of the recycling and resource recovery sector.

It has been designed to support Australian recyclers activities with respect to accountability and transparency, with a key priority to boost stakeholder, community and investor confidence within the industry, in addition to ensuring:

- High standards of operational performance are met,
- The program complements any arrangements to regulatory obligations, and
- There is continual improvement in processing standards and recovery rates.

# Food Waste for Healthy Soils Fund





**NATIONAL RECYCLED  
MATERIALS SPECIFICATIONS  
PROJECT OUTLINE**

# PROJECT OBJECTIVE

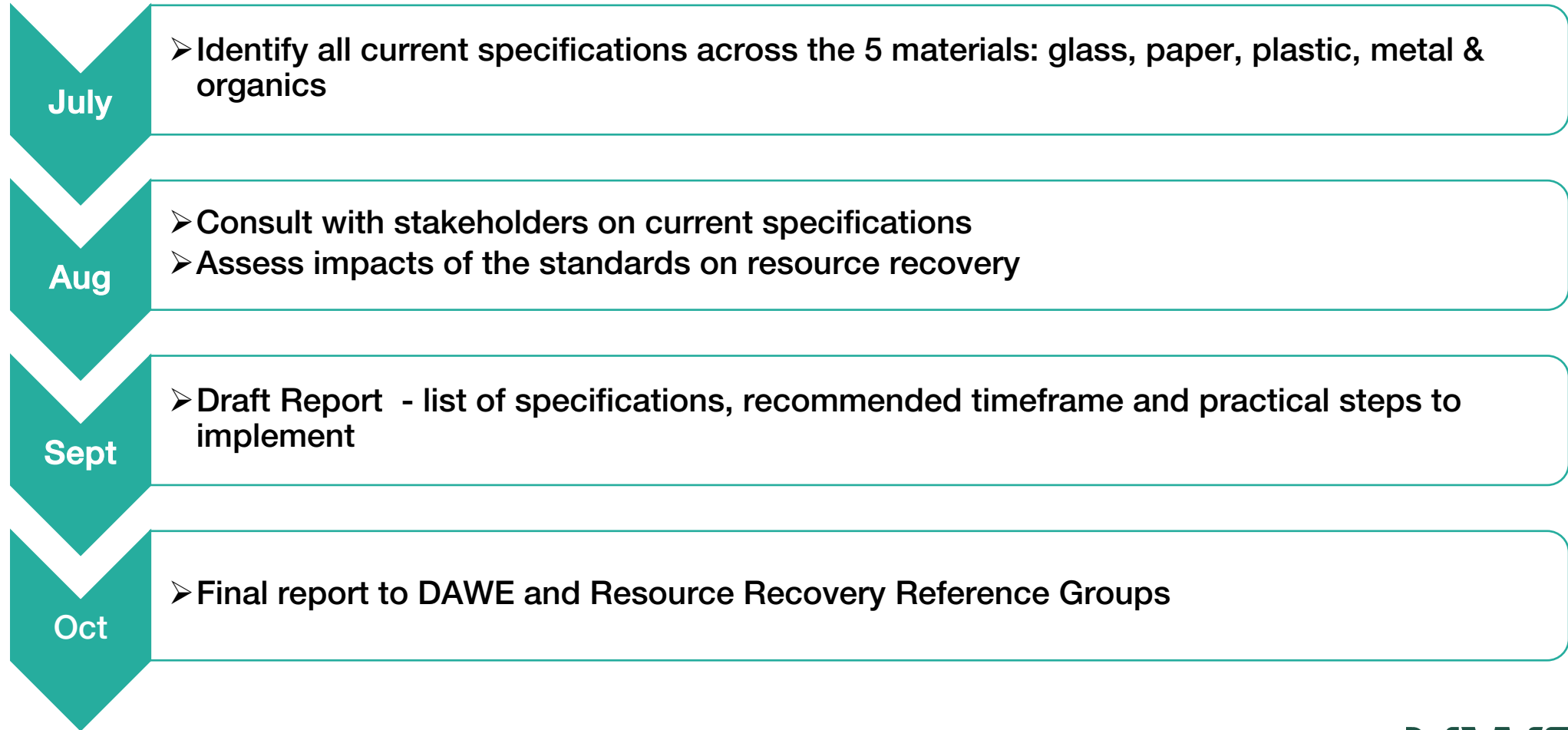
Create an up to date set of national recovered material specifications that will

- assist Australian recyclers in meeting market demands for recovered materials locally and overseas,
- improve the quality of recovered materials as tradable commodities
- stimulate domestic re-use of recovered materials by improving market information and greater confidence in the quality of recovered materials.

# PROJECT OUTCOMES

1. Set of national recycled material specifications for sorting and processing facilities
2. Assessment of impacts of specification on;
  - Resource recovery
  - Transition to the circular economy
  - Benefits, barriers and risks
  - Indicative financial and market impacts
3. Proposed timeframe and practical steps to implement, including responsibilities and how to avoid unnecessary impacts
4. Proposed system to maintain and update specifications in the future

# PROCESS



# REPORT OUTLINE

- Review of relevant literature
- National recycled material specifications for sorters and processors
  - Glass
  - Plastic
  - Metal
  - Paper
  - Organics
- Impact Assessment
- Recommended Implementation

**NATIONAL RECYCLED  
MATERIALS SPECIFICATIONS  
PATHWAYS & SPECIFICATIONS**

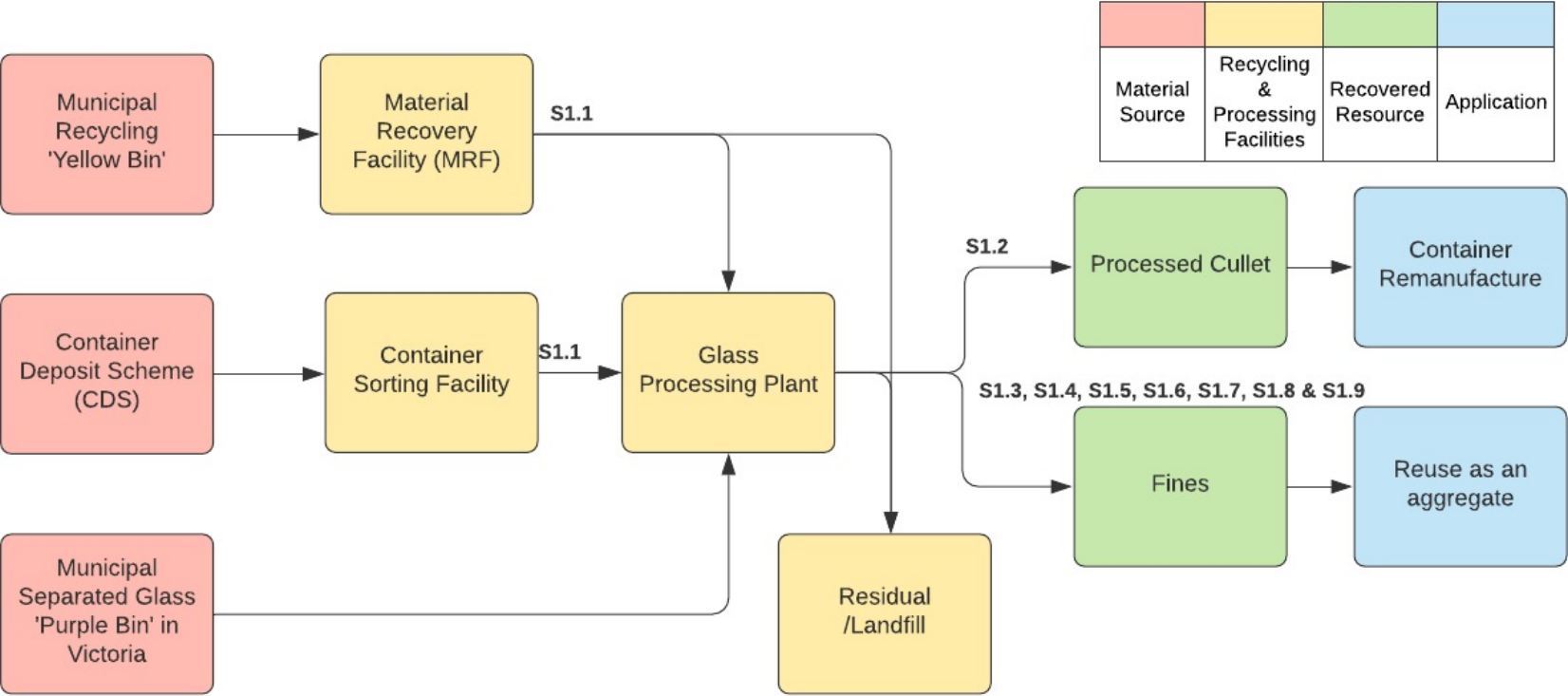
# GLASS FLOW PATHWAY

## Sorter Specs

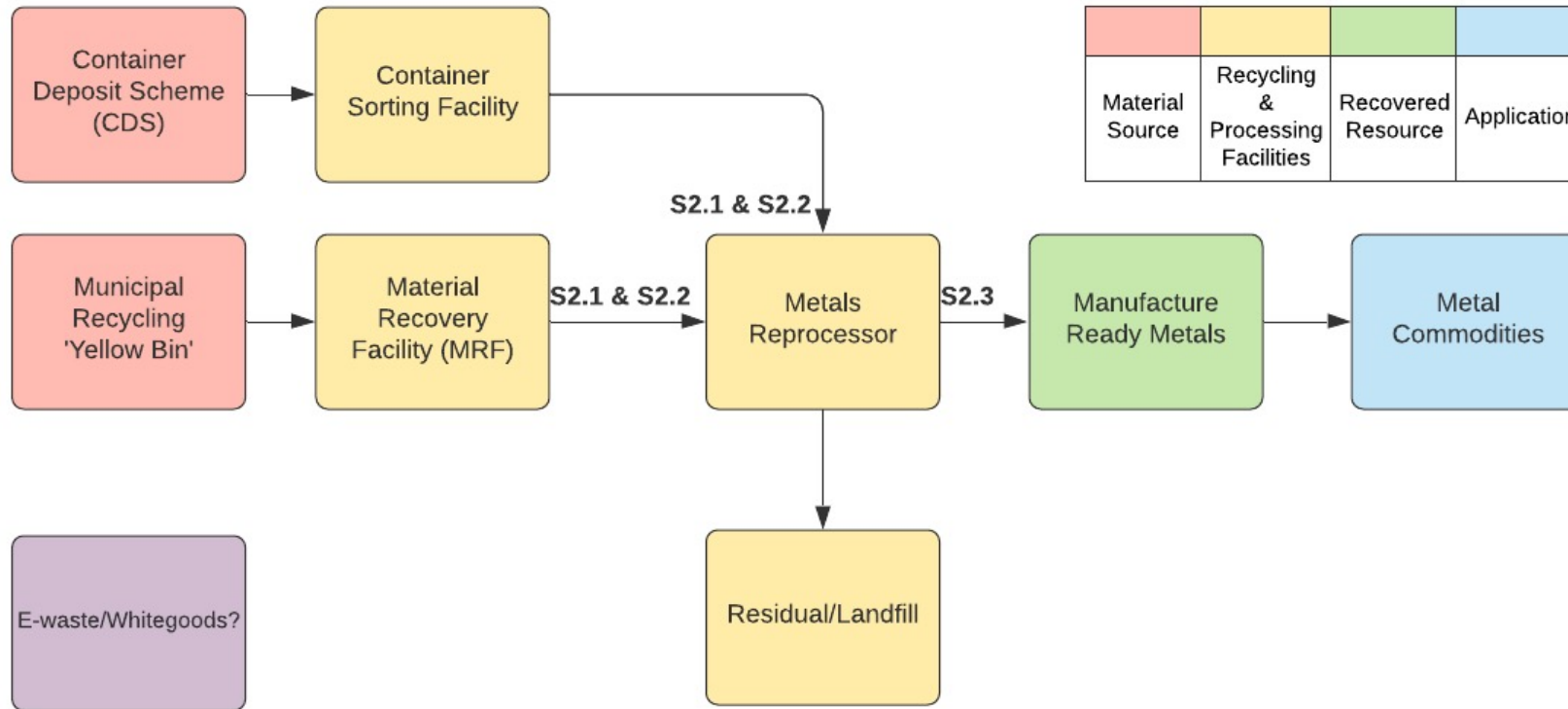
Flow Key	Specification Name	Author
S1.1	Unbeneficiated Cullet Specifications	ACOR

## Processor Specs

Flow Key	Specification Name	Author
S1.2	Beneficiated Cullet Specifications	ACOR
S1.3	The Recovered Glass Sand Order 2014	NSW EPA
S1.4	Registration of Crushed Rock Mixes	VicRoads
S1.5	Specifications for Recycled Crushed Glass as an Engineering Material	ARPB
S1.6	QA Specification 3154 Granulated Glass Aggregate	Transport for NSW
S1.7	Specifications MRTS36 Recycled Glass Aggregate	QLD Department of Transport and Main Roads
S1.8	Specification of Basecourse Aggregate	Transit NZ
S1.9	Recycled Glass Sand for Pipe Embedment	Water Services Association of Australia



# METAL FLOW PATHWAY



Material Source	Recycling & Processing Facilities	Recovered Resource	Application

## Sorter Specs

Flow Key	Specification Name	Author
S2.1	A) Steel Can Specifications B) Used Beverage Containers Specifications (Aluminium)	ACOR
S2.2	Guidelines for Ferrous and Non-Ferrous Scrap: A) Post-consumer aluminium can scrap B) Baled aluminium used beverage can (UBC) scrap C) Post consumer aluminium foil D) Steel can bundles	ISRI

## Processor Specs

Flow Key	Specification Name	Author
S2.3	Guidelines for shredded Ferrous and Non-Ferrous Scrap: A) Shredded UBC scrap B) Densified aluminium UBC scrap C) Briquetted aluminium UBC scrap D) Shredded (ferrous) scrap E) Other ferrous grades/products	ISRI



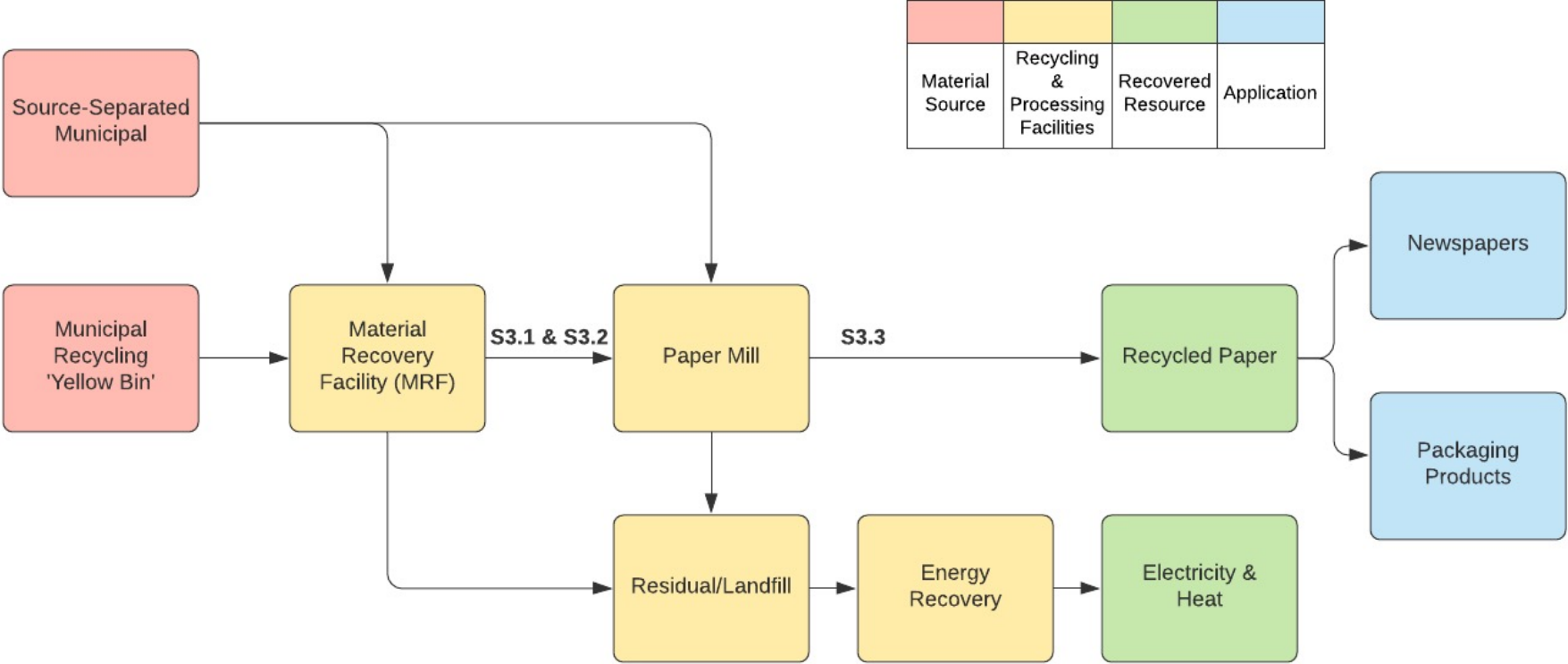
# PAPER CARDBOARD FLOW PATHWAY

## Sorter Specs

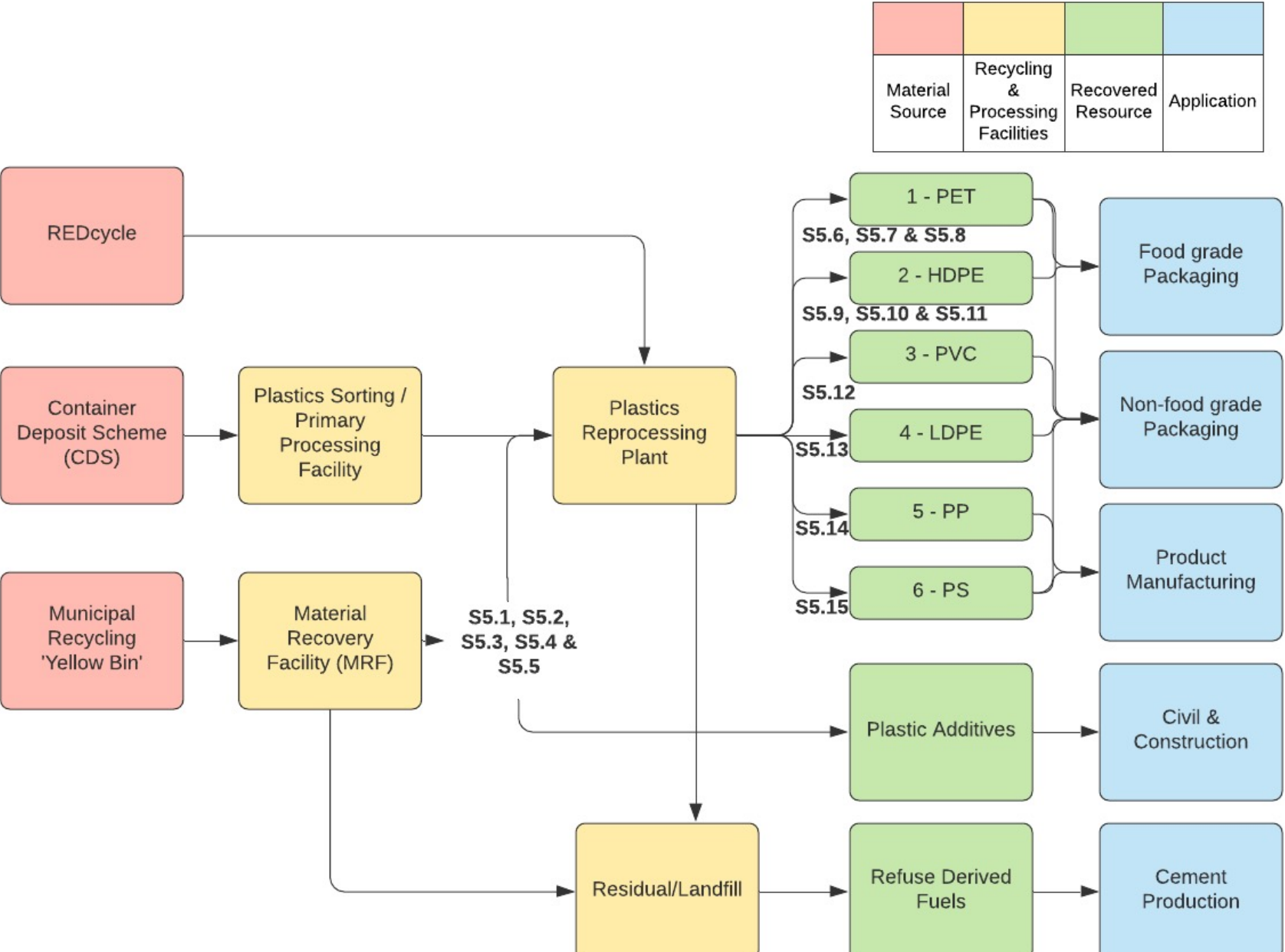
Flow Key	Specification Name	Author
S3.1	Australian Recovered Paper Specifications: A) Soft mixed B) Old corrugated containers (OCC) C) Hard mixed	ACOR
S3.2	Guidelines for Paper Stock: A) Sorted office paper B) Unsorted office paper C) Old corrugated containers	ISRI

## Processor Specs

Flow Key	Specification Name	Author
S3.3	Australian Recovered Paper Specifications: A) Soft mixed B) Old corrugated containers (OCC) C) Hard mixed	ACOR



# PLASTIC FLOW PATHWAY



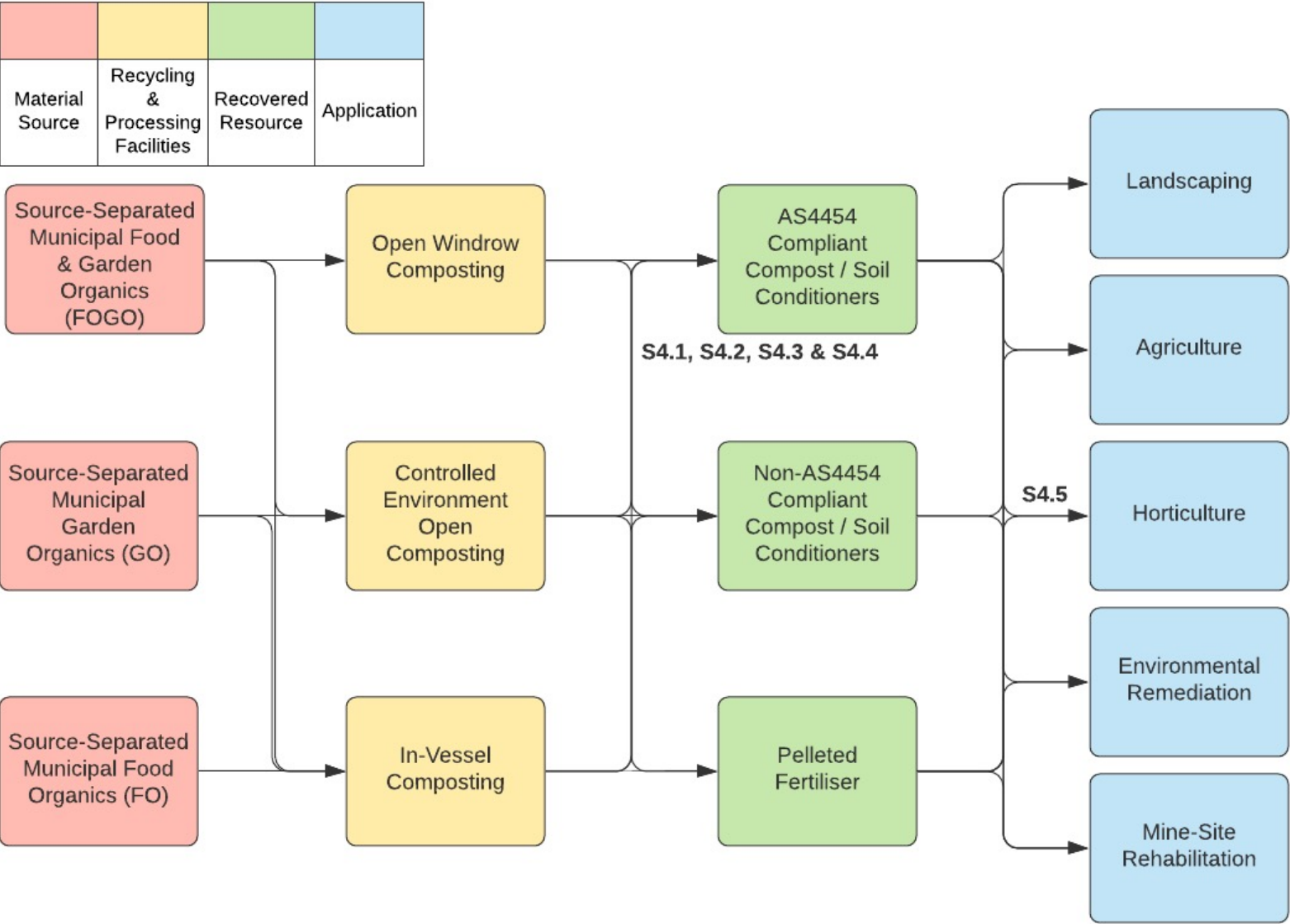
## Sorter Specs

Flow Key	Specification Name	Author
S5.1	Baled coloured polypropylene (PP)	APCO
S5.2	Baled clear polyethylene terephthalate (PET) bottles	APCO
S5.3	Baled coloured and thermoformed polyethylene terephthalate (PET)	APCO
S5.4	Baled rigid high density polyethylene (HDPE) - all colours	APCO
S5.5	Baled rigid high density polyethylene (HDPE) natural food grade	APCO

## Processor Specs

Flow Key	Specification Name	Author
S5.6	Polyethylene terephthalate (PET) hot washed flake	APCO
S5.7	Coloured polyethylene terephthalate (PET) cold washed flake	APCO
S5.8	PET Container	ACOR
S5.9	Coloured high density polyethylene (HDPE) flake	APCO
S5.10	Natural high density polyethylene (HDPE) flake for food grade applications	APCO
S5.11	HDPE Bottle Recyclate Feedstock	ACOR
S5.12	Post-Consumer PVC Bottles Bale Specifications for Recyclate Feedstock	ACOR
S5.13	LLDPE & LDPE Film Recyclate Feedstock Specifications	ACOR
S5.14	Cold washed coloured recycled polypropylene (rPP) flake	APCO
S5.15	Export Densified Foamed Polystyrene	EPSA

# ORGANICS FLOW PATHWAY



## Processor Specs

Flow Key	Specification Name	Author
S4.1	AS4454 (2012) Composts, Soil Conditioners and Mulches	Standards Australia
S4.2	Standard for the production and use of waste derived soil enhancer	SA EPA
S4.3	Resource Recovery Orders: A) Pasteurised Garden Organics 2016 B) Mulch 2016 C) Compost 2016	NSW EPA
S4.4	PAS110:2014 Specification for whole digestate	British Standards Institution (BSI)
S4.5	Various state guidelines: e.g. Compost mulches for orchard production (NSW), Guide to Best Practice for Organics Recovery (VIC), Compost Guideline (SA).	Department of Environment & Conservation (NSW)

**NATIONAL RECYCLED  
MATERIALS SPECIFICATIONS  
STAKEHOLDER ENGAGEMENT**

# STAKEHOLDER ENGAGEMENT

## Round 1 - August

**One-on-one Interviews and Online Survey** – feedback on current specifications, what do you use, any gaps, suitable minimum standard, key stakeholders, general feedback

## Round 2 - September

**Follow up Online Survey** - recommended minimum specifications, implementation challenges and impacts, accessibility of specifications

# ONLINE SURVEY – ROUND 1

## Questions

- Do you use the listed specifications?
- Have we missed any relevant specifications used in the industry/asked by end markets?
- What do you like/dislike about the specifications?
- Which of the listed specs is the most suitable minimum standard to use in the industry?
- General feedback about the project
- Other key stakeholders?

Provide your feedback - **SURVEY LINK:** [www.nwric.com.au](http://www.nwric.com.au)



**NATIONAL RECYCLED  
MATERIALS SPECIFICATIONS  
QUESTIONS & ANSWERS?**

# PROJECT CONTACT DETAILS

## NATIONAL RECYCLED MATERIAL SPECIFICATIONS

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## NATIONAL RECYLCERS ACCREDITATION or CERTIFICATION PROGRAM

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## NATIONAL STANDARD FOR KERBSIDE RECYCLING

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## FOOD WASTE FOR HEALTHY SOILS

Department of Agriculture,  
Water and the Environment  
**Food and Organic Waste  
Team**  
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