



Acknowledgement



Funding provided through *Better Bins* and *Community and Industry Engagement*Programs



Existing Two Bin System

Currently operating a two bin kerbside collection system throughout City of Cockburn:

- Recycling yellow lid (240L)
- MSW dark green lid (240L)

Waste processing:

- Recycling emptied weekly, processed at Suez Materials Recovery Facility
- MSW emptied weekly, processed at SMRC Regional Resource Recovery Centre









New Three Bin System

Following a successful trial in Hamilton Hill in 2015/16, Council resolved to implement a three bin system for eligible properties:

- Recycling yellow lid (240L)
- MSW red lid (140L)
- Garden Waste light green lid (240L)



Waste processing:

- Recycling emptied weekly, processed at Suez Materials Recovery Facility
- MSW emptied weekly, processed at SMRC Regional Resource Recovery Centre
- Garden Waste emptied fortnightly, mulched at Henderson Waste Recovery Park



New Three Bin System

Eligibility:

- Excludes properties smaller than 400sqm, multi-residential, rural, commercial and industrial
- 29,000 eligible properties (4,500 completed, 24,500 remaining)

Reduced capacity of MSW bin:

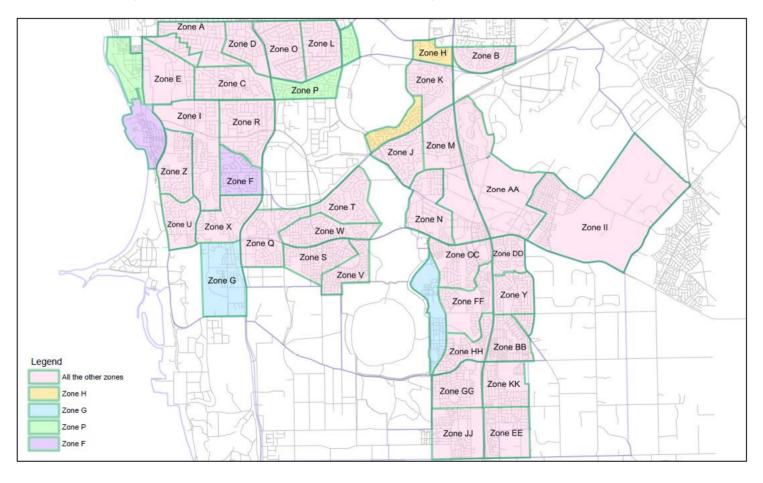
- 31% of contents of MSW bin found to be garden waste.
- MSW bins rarely full
- Size reduced from 240L to 140L.
- Reminder that the City is focused on reducing waste placed in this bin.

Aiming for garden waste bin contamination rate *lower than 4%*



Three Bin System – Zone Plan

Three bin system will roll out suburb-by-suburb until end 2019/20.





Bin Changeover

- Contractor for bin rollouts Workpower
- Deliver new 140L red lid MSW bin
- Change dark green lid on existing 240L MSW bin to light green – this becomes the new garden waste bin

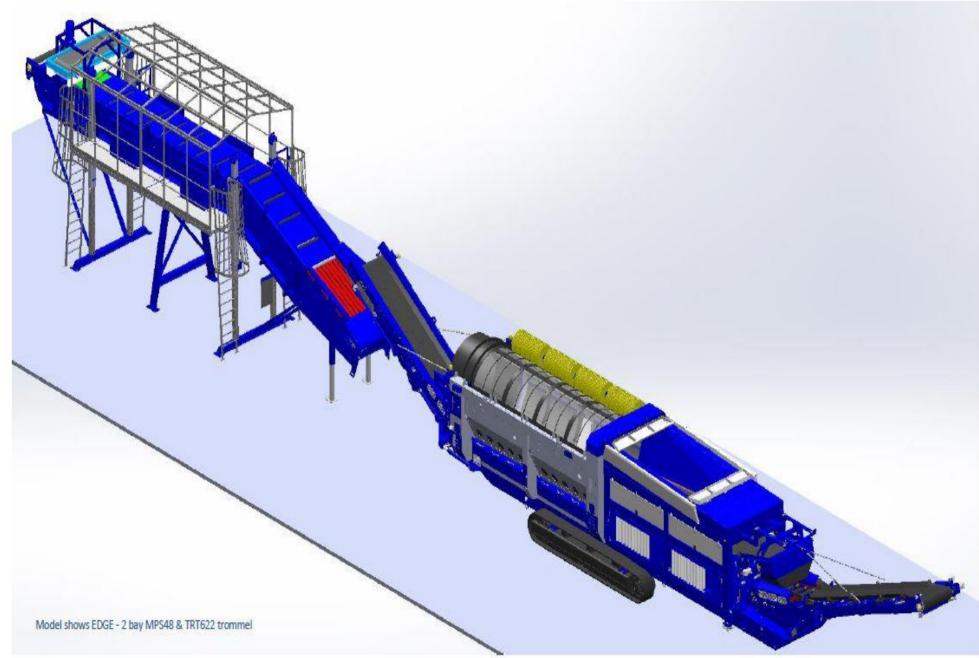




Processing of Garden Waste

- Expected total tonnage about 8,000 tpa
- Garden Organics (GO) waste has minimal contamination
- Currently manual decontamination at Henderson Waste Recovery Park
- Moving towards an automated process in 2018
- More efficient process with more effective decontamination
- Higher quality mulch product

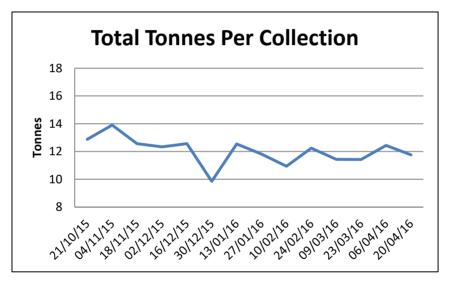






Results of Hamilton Hill Trial

 Average of 12 tonnes garden waste collected per fortnight



- Garden waste bin presentation rate over 50%
- Recycling rates increased



Results of Hamilton Hill Trial

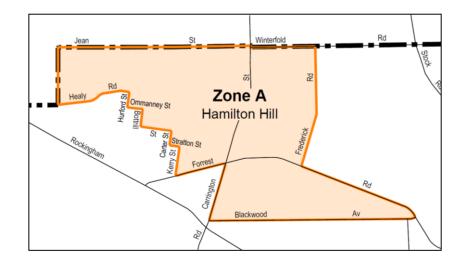




Results of Hamilton Hill Trial

Survey results:

- 89% of residents satisfied (19%) or very satisfied (70%) with new bin service
- More than 80% households utilised the new garden waste bin service
- Over 60% happy with fortnightly collections





Community Education Program

Separation at source is the preferred option for waste management. Proven conclusively that the most successful waste education programs involve direct, personal contact with the household occupants.

For each zone:

- Letters sent out
- Door knocking phase
- Bin delivery
- Bin auditing phase





Fridge magnets



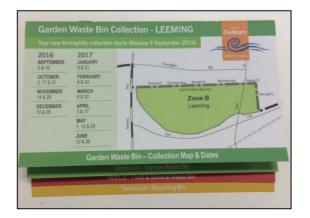
Composting caddy



Recycling Tub



Calendar







Door Knocking Phase

- Knocking on residents' doors to drop off materials and explain the rollout
- Education Officers work in pairs





Bin Tagging Phase

- Bins inspected on first collection day, before bins emptied. Tags added to each bin, according to level of contamination.
- Bins audited and tagged every two weeks for 2 months to provide feedback on waste behaviours
- Persistently contaminated garden waste bins

removed.













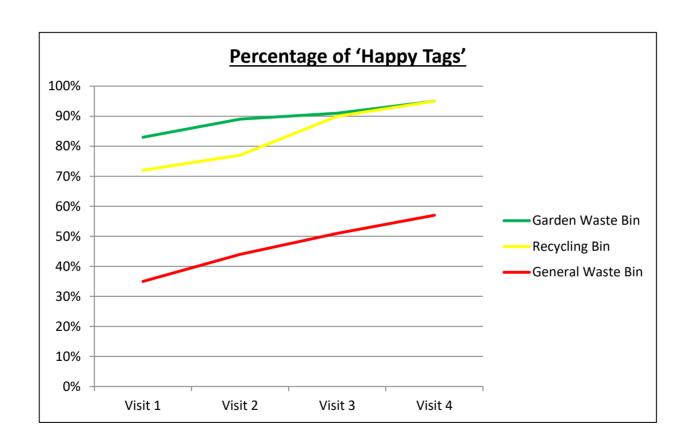






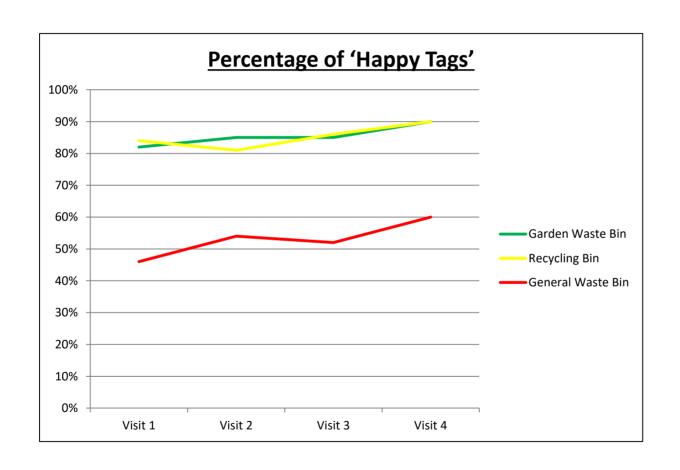


Results So Far - Leeming





Results So Far – Hamilton Hill Zone E





Next Steps

- Install new green waste processing plant
- Continue third bin rollout
- For households not eligible for the three bin system, general waste bin lids will be changed to red to ensure consistency across the City
- Upgrade all public place bins with red to represent general waste
- Ensure all communications consistent with new colours