

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP

MINUTES

14 October 2019

(REF: D2019/13562)

A meeting of the Waste Management Community Reference Group was held at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, BELMONT WA 6104 on **Monday, 14 October 2019**. The meeting commenced at **6:00pm**.

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1 DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS

The Chairman opened the meeting at 6:00pm, welcomed everyone and acknowledged the traditional custodians of the land on which the meeting was held and paid respects to the elders past, present and future.

2 ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE (PREVIOUSLY APPROVED)

Committee Members

Ms Dianne Katscherian	Chairperson
Mr Malcolm Barker	Member
Mr Anthony Fowler	Member
Ms Jodi Gardener	Member
Ms Belinda Hamilton (arrived 6:08pm)	Member
Mrs Belinda Henderson	Member
Mr Ray Lewis	Member
Ms Carmel Luck (Arrived 6:08pm)	Member
Mrs Gina Ogilvie	Member
Mr Nicholas Sibbel	Member
Mr Mark Simpson	Member
Ms Robyn Walsh	Member
Mr Alan Wicks	Member

Apologies

Mr Edwin Dell	Member
Ms Kristy Walden	Member

EMRC Officers

Mr Marcus Geisler	Chief Executive Officer
Mr Stephen Fitzpatrick	Director Waste Services
Mr Dave Beresford	Manager Resource Recovery
Ms Joanne Gray	Waste Education Officer
Ms Annette Rakich	Administration Officer (Minutes)

2.1 WELCOME NEW MEMBERS

In order to increase the representation of the WMCRG across all six member Councils, expressions of interest were sought from the community via the EMRC's Earth Carers network and with assistance from the member Councils, Waste and Sustainability officers.

At the 19 September 2019 Council meeting, Council endorsed seven (7) additional members for the Waste Management Community Reference Group.

With the addition of these new members this has taken the membership of the WMCRG to the recommended fifteen (15) and provides representation from all member Councils. The Cities of Bayswater and Kalamunda are slightly over represented but this is due to historical factors and the nominations received.



Item 2.1 continued

Council	Existing Members	New Members	Totals
Bassendean	Nil	Gina Ogilvie	1
Bayswater	Carmel Luck	Nicholas Sibbel Kristy Walden Robyn Walsh	4
Belmont	Nil	Jodi Gardiner	1
Kalamunda	Anthony Fowler Mark Simpson Belinda Hamilton	Belinda Henderson	4
Mundaring	Edwin Dell Dianne Katscherian		2
Swan	Malcolm Barker Ray Lewis	Alan Wicks	3
Total	8	7	15

The new members were selected based on their interest in waste management and waste education as well as their connection with other community groups. The selection panel consisted of the Waste Education Team and the WMCRG Chairperson.

The chairperson invited all members and the EMRC officers to introduce themselves and give a brief summary of their background and experience to the group.

The chairperson adjourned the meeting at 6.15pm for a 20-minute dinner break. The meeting recommenced at 6:35pm.



3 DISCLOSURE OF INTERESTS

Nil

4 ANNOUNCEMENTS BY THE CHAIRPERSON OR PRESIDING MEMBER WITHOUT DISCUSSION

4.1 ELECTION OF DEPUTY CHAIRPERSON OF THE WASTE MANAGEMENT COMMUNITY REFERENCE GROUP (WMCRG)

Due to the resignation of the Deputy Chairperson, Ms Ruth Kendall from the WMCRG, nominations were called for Deputy Chairperson of the WMCRG.

The Chairperson called for nominations for the Office of Deputy Chairman of the Waste Management Community Reference Group.

The Chairperson advised that Mr Edwin Dell, although absent from the meeting, would like to nominate himself.

Ms Carmel Luck nominated herself.

With no further nominations, a secret ballot was held for the two nominations.

ANNOUNCEMENT: OF THE OFFICE OF DEPUTY CHAIRMAN

The Chairperson declared and congratulated, Ms Carmel Luck as Deputy Chairperson of the Waste Management Community Reference Group commencing 14 October 2019.

5 PETITIONS, DEPUTATIONS AND PRESENTATIONS

5.1 FOOD ORGANICS AND GARDEN ORGANICS (FOGO) RECOVERY STRATEGY UPDATE

The Chief Executive Officer provided a presentation on the EMRC Food Organics and Garden Organics (FOGO) Recovery Strategy.

The document's direct download link from the EMRC corporate website (www.emrc.org.au) can be accessed by clicking the following tabs:

Waste Services > Food Organics and Garden Organics > Food Organics & Garden Organics (FOGO) Recovery Strategy.

Link:

<https://www.emrc.org.au/profiles/emrc/assets/clientdata/document-centre/flippingbooks/fogo/index.html>

Questions on the following topics were raised and answered:

- Cable Link from Perth Airport Pty Ltd (PAPL) to Hazelmere Resource Recovery Park (HRRP) for power export.
- Perth Airport Committee and the EMRC's representation regarding environmental sustainability.
- PFAS and a stockpile on Dundas Road. The CEO advised how the EMRC was working with PFAS sites and testing the material to bring the contamination level down from a Class IV to Class III
- There challenges facing the multi dwelling accommodation and waste collection/segregation.
- A number of small groups and community organisations have considered setting themselves up as a donation/collection point for CDS and have concerns about the security in isolated areas and was asking if the EMRC would provide secure location points? The CEO advised that the EMRC will invest and provide the infrastructure on a cost recovery per container basis and they will be secure points. The groups can register at cds@emrc.org.au.



Item 5.1 continued

- With the Local Government Waste Plans which are specifically targeting local government, can the document be filtered down to the smaller organisations who should deliver their own waste management plans? The CEO advised the smaller organisations can access the finalised template on the Department of Waste and Environmental Regulation (DWER) website.
- A question was raised of what would be happening with the C&I plant? The CEO advised that the building was to be repurposed for CDS if the EMRC is appointed as a processor by the Scheme Coordinator, so it can be ready for the program next year. The C&I sorting plant will be repurposed at a later date. C&I is really a commercial activity that needs further attention and needs the participation of all member Councils to make viable. There is so much material recoverable from the verge collection, however some Councils have the skip bins and others have the verge collection, so the EMRC really needs to move towards consistency for this process.

5.2 EMRC FOGO STUDY TOUR OUTCOMES

The Chief Executive Officer included the EMRC FOGO Study Tour for New South Wales and Victoria within the previous presentation at Item 5.1.

5.3 DRAFT WASTE EDUCATION STRATEGY AND ACTION PLAN

The Waste Education Officer referred to the Draft Waste Education Strategy and Action Plan and discussed the following pages and topics:

- The Waste Education Officer referred to Page 4 of the Strategy:
 - The aim of the Waste Education Strategy is to provide a plan and guidance for Waste Education programming and activities within the Eastern Metropolitan Region by the EMRC and member Councils to reflect the Waste Authority's objectives of:
 - Avoid waste
 - Recover resources
 - Protect the environment
 - The specific goals of the Strategy are to:
 - Provide consistent approaches to waste education programs and activities across the EMRC region;
 - Understand community attitudes and perceptions; and increase knowledge amongst all community sectors of the issues associated with the need to achieve sustainable waste management and how each can respond;
 - Deliver programs to tackle specific waste issues to address behaviour change, to improve resource recovery and reduce environmental contamination from littering and illegal dumping; and
 - Reflect and deliver objectives stated in a number of EMRC Strategies, such as the FOGO Recovery Strategy 2019 (Strategy 4).
 - The Group agreed that the Aim and Goals reflects the WA Strategy and meets the requirements of the region.
- The Waste Education Officer referred to Page 9 – Council Summaries:
 - Provides a summary of key demographic information of relevance to waste education of each member Council (Census 2016, Social Atlas).
 - This section gives the Waste Education Officers a good understanding of the various statistics of residents for country of birth, the age-gender pyramid, dwelling structure, languages, highest qualification achieved and need for assistance with core activities.
 - When the EMRC develops education material, we can see the most common languages, so we can transcribe into different languages.
 - The statistics also highlighted that roughly 10% of our housing stock in the region is vacant.



Item 5.3 continued

- The Waste Education Officer referred to Page 15 of the Strategy – Guiding Concepts:
 - The Western Australian *Waste Avoidance and Resource Recovery Strategy 2030* (2019) (Waste Strategy) provides a clear direction on the long-term strategy required to improve waste management in the State. The overarching objectives of the Strategy are to:
 - Avoid: Western Australians generate less waste
 - Recover: Western Australians recover more value and resources from waste
 - Protect: Western Australians protect the environment by managing waste Responsibly
 - To meet the above objectives, the Waste Strategy presents specific guiding concepts to assist people to understand the processes to be used and their application. These are:
 - Waste hierarchy;
 - Circular economy;
 - Importance of behaviour change;
 - Principles;
 - Waste and Resource Recovery in the EMRC Region;
 - Waste to landfill; and
 - Current waste services and recovery.
- The Waste Education Officer referred to Pages 18 - 22 – tables Current EMRC waste services:
 - This section refers to the various different services that are available in each of the member Councils.
 - This section also identifies that no member Council is the same and they all vary in their services.
 - This also reflects the importance of the consistency message over all Councils.
- The Waste Education Officer referred to Page 23 to 25 – Table 5 EMRC Regional Waste Statistics 2018/2019
 - The table provides a snapshot of the waste amounts collected by member Councils and EMRC facilities and the proportions diverted from landfill for the financial year 2019/2019.
 - The statistics demonstrates that a substantial proportion of various waste from the region is ending up in landfill and there is significant potential to improve, especially if we are to meet the Waste Authority's targets.
 - The data gathered will be utilised to act as a baseline for future waste initiatives.
 - When discussing the Recycling figures for member councils in 2018/2019, the group requested an additional column to be added to show the Total Contamination / Rubbish percentage of Total Collected to show the level for each member Council area. The Waste Education Officer explained that as the Material Recovery Facilities (MRF) sort everything from many sources the contamination level is an overall average figure for the entire MRF, rather than individual sources.
- The Waste Education Officer referred to Page 26 to 28 – Waste Education in the EMRC Region:
 - The Regional Waste Education Strategic Group (RWESG) undertakes a wide range of activities in waste education. The region supports the aims and objectives of the Waste Authority and that responses to waste management are a shared responsibility by all members of the EMRC region. Although the different member Councils provide slightly different services, the aim is to provide consistent messages that reflect the overarching objectives to avoid waste, recover resources and protect the environment. This section covers the following topics:
 - Waste Education Resources;
 - Waste Education Activities;
 - Regional Challenges;
 - Potential regional waste opportunities;
 - Who will we work with?; and
 - Monitoring and Evaluation.



Item 5.3 continued

- The Waste Education Officer referred to Page 28 – What do we want to achieve in the EMRC Region?
 - The overarching goal of this section is to provide the community with knowledge and access to services that will enable the EMRC to achieve behaviour change and reduce environmental impacts.
 - A discussion at this point was held which covered the following topics:
 - The EMRC wants to work towards achieving the Waste Strategy targets;
 - To deliver clear consistent messages about waste reduction and source separation to enable reductions in contamination levels, and increases in recovery rates;
 - Advocate for the use of resource recovery products that have been diverted from landfill;
 - Initiate and encourage behaviour change;
 - Rubbish is expensive! Need to change residents' mindset that waste costs nothing. Large capital items are purchased to move rubbish. Cells need to be excavated and constructed to bury the rubbish and to educate the community to put waste in the correct bins and why; and
 - Involve and educate the community about what the EMRC are doing. For example, advise that Hazelmere will be providing electricity to the Perth Airport. Get the message out to the public that the Red Hill Waste Management Facility is one the best landfills in Australia.

Feedback and topics on the strategy included:

- The strategy is a very good guide for residents who want to change their mindset to assist in zero waste.
- You can't change the habits of the public however the draft strategy shows people wanting to make changes with the correct method of disposing rubbish.
- Banning certain products, i.e. balloons, streamers, single use plastics, plastic straws, water bottles, coffee cups and encourage to bring your own coffee cups.
- Banning products is for individual Councils not for the EMRC. We educate the member Councils rather than banning. At Red Hill WMF there are displays of the plastic items and what you can do to assist and offering alternative solutions.
- Mandate on balloons, streamers etc
- The chairperson advised the WA Local Government Association (WALGA) has very clear policies on a range of things like balloons, plastics etc and WALGA work very closely with the Waste Education Officers in all the councils as well as regional councils and are trying to encourage those councils to adopt those policies however it is a process due to some resistance in the community. Councils prefer to lead by example rather than ban products.
- The issue with balloons is that they fall into the category as "litter" once the balloon leaves the hand and hits the ground.
- The Waste Education Officer advised that the EMRC do a lot of advocating with solar panels and the recycling and disposal of medical waste that is making its way into bins. The chairperson advised that the health department provides advice that is predominately for injecting users e.g. diabetes, medical etc and the department advise of safe ways of disposing the medical equipment but unfortunately this is not always successful and most of the material ends up in rubbish bins.
- The Waste Education Officer advised that instead of banning products, the EMRC are being an advocate to collectively educate the member Councils so that one message is delivered.
- Discussion ensued on the recycling of solar panels.
- It was suggested we need to educate the public correctly as it is costing the public/rate payers a lot of money if they don't do the right thing.



Item 5.3 continued

- The Waste Education Officer advised that individual Councils want to have their say and are using alternative products. It is better practice to lead by example such as not providing or using balloons and streamers at events and festivals. The EMRC provide information of how it affects the environment. City of Fremantle are a good example. The Town of Bassendean are starting to also put this process in place with Plastic Free July. The City of Belmont was a good example with the Autumn River Festival, where the whole event was as “waste free” as possible, with compostable packaging utilised by food vendors and the City arranging for special waste collections, so the food and packaging waste was properly composted.

The Waste Education Officer and chairperson requested that the WMCRG provide constructive feedback with their respective comments on the objectives of the strategy and key actions via email.

The chairperson advised that we will endeavour to arrange another meeting soon to discuss the feedback however it is a busy time of the year so in the meantime to forward the feedback to annette.rakich@emrc.org.au by a nominated date which will be confirmed.

6 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

6.1 MINUTES OF WMCRG MEETING HELD ON 22 OCTOBER 2018

That the Minutes of the Waste Management Community Reference Group meeting held on 22 October 2018 which have been distributed, be confirmed.

WMCRG RESOLUTION(S)

MOVED MR FOWLER

SECONDED MR LEWIS

THAT THE MINUTES OF THE WASTE MANAGEMENT COMMUNITY REFERENCE GROUP MEETING HELD ON 22 OCTOBER 2018 WHICH HAVE BEEN DISTRIBUTED, BE CONFIRMED.

CARRIED UNANIMOUSLY

7 BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING

Nil



8 REPORTS OF EMPLOYEES

8.1 WASTE EDUCATION UPDATE

The Waste Education Officer provided an update on waste education initiatives report.

Attachment 1: Waste Education Report January to June 2019 (Ref: D2019/14603)

Attachment 2: Waste Education Report July 2019 (Ref: D2019/14903)

The following topics were discussed and Officers responded to the questions:

- The Waste Audit Kit is an excellent program and it was good to read the total usage from the schools.
- The Waste Education Officer directed the members to view the RGang website rgang.org.au to retrieve some great information from the site.
- Earth Carers program was discussed.
- The members requested the data and statistic from the report be placed on the RGang website as part of the waste education initiatives.
- The chairperson advised that the battery collection has improved dramatically since commencement but batteries are still being sent away from WA. Was there any possibility of the processing to stay in WA. The CEO advised that 83 tonnes of batteries were collected in Western Australia (WA). We don't have the answers but on a positive note they are being processed in Australia. In the future, the EMRC could do a cost benefit analysis on the processing.
- Lithium batteries were discussed.
- A question was raised if we could consider having benchmarks for battery usage showing the proportion of disposable batteries per capita that are purchased in the region, captured by our collection and go to waste. The Chairperson advised that part of the problem with that is that we can't compare against retail for batteries because people hold onto batteries for years so it is difficult to make that comparison but is still a very good idea to keep this in mind.
- It was suggested that one of the school's battery collection prizes be a rechargeable battery station. By providing a battery rechargeable station as a prize the EMRC would be encouraging the schools to become an advocate to use recycled batteries. The children then get a chance to experience that and then follow through the education message into their own homes.
- The Waste Education Officer advised that assistance is offered to the schools who have low numbers with their battery collections.

The Director Waste Services advised that the EMRC started the dry cell collection for the region and they were sent to Woolongong. The plant recovered the zinc and carbon electrodes. He advised that there is no other state that collects the amount of batteries anywhere near the amount that WA does. Discussion ensued around a facility to cover all the costs as WA collects greater tonnes than the Eastern States.

Discussion ensued on the program in general with specific reference around battery collection.



Waste Education Report – January to June 2019

This report is provided to the Member Council representatives on the Regional Waste Education Steering Group, members of the Waste Management Community Reference Group and members of the Executive Management team. This report includes a summary of activities for January to June 2019 and the financial year data totals. Reports for individual months are available on request.

1. Public Recycling Updates

- The 2018/19 financial year saw EMRC collect 18.4 tonnes of household batteries and 1.8 tonnes of CFL's from within our region.
- New Locations within the region this Financial Year:
 - Four (4) new Public Place Battery Collection Points. Total location points now 43.
 - Ten (10) new School Battery Collection Points. Total location points now 105.
 - Three (3) Public Place CFL Collection Points. Total location points now 28.
- Detailed location information can be found in the Appendix of this report.

Battery Collection Historical Data Totals	
Financial Year	Total (tonnes)
2018/2019	18.4
2017/2018	16.4
2016/2017	15.6
2015/2016	15.1
2014/2015	15.8
2013/2014	14.8
Six Year Total	96.1

CFL Collection Historical Data Totals	
Financial Year	Total (tonnes)
2018/2019	1.8
2017/2018	1.5
2016/2017	1.5
2015/2016	0.9
2014/2015	0.9
2013/2014	0.8
Six Year Total	7.3

1.1 Public Place Battery Collection Program

- Public place collection data for June and financial year.

<u>Battery Recycling - Public Places</u>	July- June Total 2018/19	July- June Total 2017/18	July- June Total 2016/17
Bassendean	771.5	770.0	652.4
Bayswater	2,371.7	1,039.1	1194.2
Belmont	2,412.1	1,555.3	2201.9
Kalamunda	2,751.6	3,123.0	2264.3
Mundaring	1,484.0	1,425.5	1153.6
Swan	2,300.1	2,439.9	2,311.9
TOTAL (kg)	12,091.0	10,352.8	9,778.3

1.2 Schools Battery Collection Program

- The Battery Collection Program for Schools recommenced with 100 eastern region schools participating in 2019.
- A shorter battery collection competition was held between July – December 2018, so that the Battery Collection Program for Schools can be realigned with the Calendar year from the beginning of January, 2019. The prize recipients are:
 - Ellenbrook Secondary College (Swan) - Winner of the 'Best New School' category (19.9 kilograms). Prize: \$200 Bunnings voucher;
 - Belmont Primary School (Belmont) – Winner of the 'Small Schools' category (95.7 kilograms). Prize: \$250 Bunnings voucher;
 - Darlington Primary School (Mundaring) – Winner of the 'Medium Schools' category (129.8 kilograms). Prize: \$250 Bunnings voucher;

- High Wycombe Primary School (Kalamunda) – Winner of the ‘Large Schools’ category (265.7 kilograms). Prize: \$250 Bunnings voucher;
- Sawyers Valley Primary School (Mundaring) – Runners-up in the ‘Small Schools’ category (92 kilograms). Prize: \$200 Bunnings voucher;
- Mary’s Mount Primary School (Kalamunda) – Runners-up in the ‘Medium Schools’ category (100.6 kilograms). Prize: iScopeStand;
- Arbor Grove Primary School (Swan) – Runners-up in the ‘Large Schools’ category (134 kilograms). Prize: \$150 Campion book voucher; and
- Sawyers Valley Primary School (Mundaring) – Winner in the ‘Most Improved’ category (47.4 kilograms). Prize: \$200 Bunnings voucher.
- Letters, certificates of recognition and the Semester 1, 2019 collection rosters were distributed to each school’s Battery Program coordinator.
- School collection data for June and financial year below.

<u>Battery Recycling - Schools</u>	July- June Total 2018/19	July- June Total 2017/18	July- June Total 2016/17
Bassendean	356.0	276.4	416.7
Bayswater	535.7	638.0	523.7
Belmont	335.8	190.3	208.2
Kalamunda	2,061.0	2,020.9	1,814.2
Mundaring	1,213.0	1,191.7	1,234.1
Swan	1,837.9	1,723.5	1,582.6
TOTAL (kg)	6,339.4	6,040.8	5,779.5

1.3 CFL Collection and Recycling Program

- Public place collection data for June and financial year.

<u>CFL Recycling - Public Places</u>	July- June Total 2018/19	July- June Total 2017/18	July- June Total 2016/17
Bassendean	109.1	103.9	101.5
Bayswater	546.4	102.4	214.7
Belmont	144.1	150.0	232.5
Kalamunda	219.8	231.5	183.2
Mundaring	513.1	609.3	487.5
Swan	251.7	290.1	267.1
TOTAL (kg)	1,784.2	1,487.2	1,486.5

2. Tours of Red Hill Waste Management Facility and Education Centre between January and June 2019

- The 2018/2019 financial year saw 48 groups and 1,791 people visit the Red Hill Waste Management Facility and tour the site.
- February 2019 - The Education Centre underwent some changes in preparation for the coming school year.
- March 2019 - Expansion and refinement of displays at the Education Centre continued in order to improve participants’ engagement and align with current waste management subject matter.
- June 2019 - A 75 inch Viewsonic interactive flat panel was installed in the front room of the Education Centre. The panel is affixed to a motorised adjustable wall mount. The panel will be used to show powerpoint presentations, photos and videos to attendees and utilised as an interactive-learning tool. Additional e-learning activities are being developed and implemented.
- June 2019 - Carpet has been installed in the second room of the Education Centre in response to issues stemming from noise generated by participants in the room. The carpet has significantly reduced the issue.
- June 2019 - Two acrylic panels were purchased for the Household Hazardous Waste (HHW) display to prevent participants from handling HHW materials.
- The following tours occurred between January and June 2019.

Name of group	Council region	Number of Participants	Program
January 2019			
Cleanaway	Regional	3	Tour
Australian Association of Environmental Education	Regional	18	Tour and use Education Centre
February 2019			
Shire of Mundaring Residents Community Tour	Mundaring	23	Tour and look at Education Centre
City of Belmont Residents Community Tour	Belmont	40	Tour and look at Education Centre
March 2019			
Heritage College Forresterfield	Kalamunda	15	Tour & Ed Centre
Adventist Home Schooling	Swan	18	Tour & Ed Centre
La Salle College	Swan	12	Tour & Ed Centre
City of Swan Residents (EMRC tour)	Swan	53	Tour & Ed Centre
April 2019			
Ballajura Community College	Swan	45	Tour & Ed Centre
Stratton Out of School Hours Care	Swan	56	Tour & Ed Centre
Eden Hills Out of School Hours Care - Bassendean	Bassendean	36	Tour & Ed Centre
May 2019			
John Septimus Roe Anglican Community School	Swan	35	Tour & Ed Centre
Waste Wise Schools/Keep Australia Beautiful	Region	25	Tour & Ed Centre
Kalamunda Ladies Probus Club	Kalamunda	17	Tour
Earth Carers course participants	Region	29	Tour & Ed Centre
June 2019			
Swan View Primary School - River Rangers	Swan	32	Tour & Ed Centre
Pickering Brook Primary School	Kalamunda	60	Tour & Ed Centre
Swan Valley Anglican Community School	Swan	86	Tour & Ed Centre
Aveley Primary School	Swan	51	Tour & Ed Centre
Maida Vale Primary School	Kalamunda	51	Tour & Ed Centre
Aveley Primary School	Swan	27	Tour & Ed Centre
Aveley Primary School	Swan	49	Tour & Ed Centre
TOTAL		781	

3. School and Community Engagement/Events

3.1 Financial Year Summary

- School Events – 19 attended.
- Community Events
 - Member Council Major Community Event Attendance Requests –Eleven (11) attended, two (2) unable to attend.
 - Regional Workshops – Two (2) attended.
 - Community Groups Presentation Requests – Six (6) attended.
 - Joint Events with Regional Councils – Two (2) attended/organised in conjunction.
 - Waste Education organised and run Events:
 - Waste Education Team – Eleven (11) organised; and
 - Earth Carers Volunteers – Four (4) events attended (13 volunteers attended one event to assist).
- Waste Education/Networking/Promotion/Advocacy events – Sixty (60) attended.
- Waste Education Loan Resource Utilisation:
 - Loan Boxes – utilised by seven (7) schools/community groups;
 - Waste Audit Loan Kit – utilised by three (3) schools; and
 - RGANG Mannequins – borrowed by City of Swan from April 2018 to use at events throughout their region.

3.2 School Events

- Darlington Primary School – Assembly and Battery Presentation – 15 March 2019 - attended;
- Sawyers Valley Primary School – Assembly and Battery Presentation – 22 March 2019 - attended;
- Belmont Primary School – Assembly and Battery Presentation – 22 March 2019 – attended;

- Mary's Mount Primary School – Assembly and Battery Presentation – 29 March 2019 – attended. Followed by discussions as to how Mary's Mount Primary School can expand their waste reduction activities.
- Arbor Grove Primary School – Assembly and Battery Presentation – 3 April 2019 – attended;
- High Wycombe - Assembly and Battery Presentation - 12 April 2019 - attended;
- Kalamunda Primary School – Battery Recycling Presentation – 3 May 2019 - attended;
- Clayton View Primary School – Assembly and Battery Presentation – 5 June 2019; and
- Carlisle Primary School – Waste Audit – 11 June 2019.

3.3 Community Events

- Member Council Waste Education Requests for 2019:
 - Belmont - Autumn River Festival – Garvey Park, Ascot – 6 April 2019 – booked first - attended;
 - Bayswater - Autumn River Festival – Bayswater – 6 April 2019 – unable to attend;
 - All - Perth Garden Festival – 11-14 April 2019 - attended;
 - Swan – Bullsbrook Community Fair – 28 April 2019 – attended;
 - EMRC & Swan - Toodyay Road Clean-up – Tentative Date to be confirmed April/May 2018 – on-hold;
 - Swan - Altone Comes Alive – Beechboro – 4 May 2019 - attended;
 - Swan - Gidgegannup Small Farm Field Day – 26 May 2019 - attended;
 - Waste Advisory Committee – Demonstrate Waste Audit Loan Kit – 6 June 2019 – completed;
 - Swan – Avon Descent – 4 August 2019;
 - All - Perth Royal Show – 28 September – 5 October 2019;
 - Swan - Gidgegannup Show – 26 October 2019; and
 - Swan – Ellenbrook Christmas Pageant – 7 December 2019.
- Regional Workshops in 2019:
 - Little Green Steps Presentation – 5 February 2019 – cancelled last minute; and
 - Clean Schools and Waste Wise Schools – Professional Development Day – Red Hill – 14 May 2019 - completed.
- Community Requests in 2019:
 - Waste and Recycling talk for Max Solutions - January 30 2019 – completed;
 - Waste and Recycling talk for Mundaring Probus Group – 8 April 2019 – completed; and
 - Waste and Recycling talk for Midland and Districts Social Club – 8 April 2019 – completed.
- Joint events with the other Regional Councils in 2019:
 - Perth Garden Festival – 11-14 April 2019 - attended; and
 - Perth Royal Show – 28 September – 5 October 2019.
- EMRC Waste Education run events in 2019:
 - Waste Education Team:
 - Earth Carers course –May 2019;
 - Community Bus Tours - Dates for bus tours for each of the member Councils have being finalised and promotion of the tours has commenced. At present, tour dates are as follows:
 - Shire of Mundaring – Saturday, 2 February 2019 - completed;
 - City of Belmont –Saturday, 23 February 2019 - completed; and
 - City of Swan - Saturday, 30 March 2019 - completed.
 - Earth Carers course – October 2019;
 - Recycling Week Tours – 11 -17 November 2019. Tours to be arranged.
 - Tour 1; and
 - Tour 2.
 - Earth Carers Volunteer Education Team 2019:
 - Bassendean Event requests
 - Australia Day – Ashfield – 26 January 2019 (1 Volunteer attended); and
 - Wonderland at Wonderealm – A Bassendean Fringe Event - 15 – 17 February 2019 (4 Volunteers – offered – however cancelled by event organiser at last minute).
 - Perth Garden Festival – 11-14 April 2019 – (7 volunteers attended); and
 - Perth Royal Show – 28 September – 5 October 2019.

3.4 Waste Education Networking/Promotion/Collaboration activities – January to June 2019

- Cleanaway Tour at Red Hill - 11 January 2019;
- Consistent Communications A-Z meeting – 18 January 2019;
- Workshop Mundaring – 19 January 2019;

- Waste Educators Networking Group meeting – 31 January 2019;
- Consistent Communications A-Z meeting review – 6 February 2019;
- Container Deposit Scheme update – 13 February 2019;
- Strategy planning session – 13 February 2019;
- Consistent Communications Collective meeting – 19 February 2019;
- Waste Educators Networking Group meeting – hosted by EMRC - 28 February 2019;
- Waste Strategies Meeting – 8 March 2019;
- Waste Recycling Management System demonstration – 15 March 2019;
- Consistent Communications Collective meeting – 20 March 2019;
- Community Based Social Marketing – Introductory & Advanced – 25-28 March 2019;
- RID Working Group – 1 April 2019;
- Community and Industry Engagement Funding - Information Session – 12 April 2019;
- Waste Strategy 2030 Information Session – 10 April 2019;
- Community Based Social Marketing – Information Session 18 April 2019;
- Earth Carers Facilitators Meeting – 1 May 2019;
- Waste CaLD Working Group Meeting – 2 May 2019;
- Waste Educators Working Group Meeting – 2 May 2019.
- Consistent Communications Collective meeting – 6 June 2019;
- Brabham Community Visioning Workshop - - 18 June 2019; and
- WENG Meeting – 27 June 2019.

3.5 Waste Education Loan Resources utilisation

- Waste Education Loan Kit – Mundaring Primary School – 27 May (1 week);
- Waste Audit Loan Kit – Kalamunda Primary School (4-5 June);
- Waste Audit Loan Kit – Carlisle Primary School (11 June);
- Waste Audit Loan Kit – Gooseberry Hill Primary School (28 June – 5 July);
- All other loan boxes borrow by Gooseberry Primary School (19 June – 5 July); and
- RGANG Mannequins – borrowed by City of Swan from April 2018 onwards.

4. Additional Current projects:

4.1 Earth Carers Course

- An Earth Carers course was held from 7-21 May. Registrations were received via the Eventbrite web platform with 39 registrations received. Of those people who registered:
 - 25 people completed all five sessions, thereby graduating;
 - 2 people who participated in the November 2018 course returned to complete the course and graduated;
 - 5 participants participated but did not attend all five sessions; and
 - 9 people registered for the course but did not attend at all.
- Based on feedback received from past participants, the format of the May 2019 course was amended so that the visit to the City of Swan's Operations Depot was held on the same day as the Red Hill site tour.
- A feedback form was distributed to May's attendees to ascertain perceptions and gain their feedback, which will assist course design moving forward. As at the end of May, five people had responded to the survey. The survey revealed that the course exceeded expectations, with respondents rating the course as 97/100. In contrast, participants in the November 2018 course gave the course a score of 88/100.
- Due to the high number of people who have submitted an expression of interest to do the course, additional funding was allocated to the Waste Education 2019/2020 Earth Carers budget to allow for an extra course to be held in 2019 (subject to demand) or to provide the existing Earth Carers volunteers with learning and networking opportunities. The third course would be conducted as an intensive course over two-three weekends which will also cater for participants who are not able to attend on weeknights.
- Collaboration between the EMRC and Mindarie Regional Council Waste Education teams has commenced with the view to standardise the course across multiple regions, and to ensure steps are taken to protect the integrity of the Earth Carers brand.

4.2 Waste Audit Loan Kit

- A Waste Audit Loan Kit has been created and is available for use by schools, community organisations and Local Governments in Perth's eastern region. The contents of the kit align with that of the kit used by the Waste Wise Schools Program.
- The Waste Audit Loan Kit contains digital scales, large tubs, cleaning buckets, reusable gloves, a heavy duty tarpaulin, waste category cards, instruction sheets and the Waste Wise School's auditing tool kit booklet.
- The kit can be borrowed by schools and community organisations for up to one week.

- Information was obtained from Waste Wise Schools staff which helped identify which schools in the region are currently accredited as a Waste Wise School, registered but not accredited, or not ever registered with the program.
- All schools in the region have been contacted and forwarded information and an offer to borrow the Waste Audit Loan Kit.

4.3 Waste and Recycling Guides

- Discussions have been held with Ecoactive regarding a new platform solution that manages the entire product lifecycle -a circular solution across the waste hierarchy - via a mobile responsive Web & App. The organisation presented to the RWESG in December and answered many questions. It is being investigated to serve as a supplement to the printed Waste and Recycle Guides.
- The timetable for the 2019/20 guide production was distributed and guide numbers sought from all six member councils. Guide production ran behind schedule this year due to a number of issues, however all member council deadlines were met and guides produced and delivered to nominated locations.
- Member Councils were visited by the printer with a paper proof and to do a final check, before signing an approval to print this year.
- Bassendean guide has been put on hold until a FOGO decision is made official, with an alternative interim guide being offered.

4.4 FOGO

- Discussions have been held with a number of stakeholders regarding the introduction of FOGO systems in the region.
- Grant application was developed and submitted for Bassendean trial.
- Strategic Communication Plans are to be developed to assist facilitate the process within the EMRC member councils.
- Additional staff to be employed to assist member councils with FOGO implementation.

4.5 Waste Education Regional Strategy

- RWESG needed to wait to finalise our Regional Education Strategy, to ensure it is correctly aligned with the EMRC and WA Waste Strategy's. The WA Strategy has now been released and work is being undertaken to align in with it. Reviewing time frames can then come in line with reviews of the State Strategy in the future.
- RWESG members have been asked to provide specific information relating to their individual council areas.

4.6 Website, Fact Sheets and Brochures

- The education booklet provided to students for activities at the Red Hill Environmental Education Centre has been redesigned to minimise participants' need to write lengthy answers. This is expected to increase the amount of time participants have to interact with the display whilst also ensuring anticipated learning outcomes are achieved.
- A new brochure outlining the EMRC's school excursion activities at the Red Hill Waste Management Facility has been published for distribution to schools.
- To assist with the promotion of the newly implemented Waste Audit Loan Kit, a booking form and information sheet has been provided to community groups and schools. An information sheet explaining the rationale behind the Waste Audit Loan Kit and its relevance to the State Government's Waste Wise Schools Program has been distributed to stakeholders within the Member Councils.
- Some of the existing brochures and factsheets have been amended to ensure they contain the most up-to-date information.
- The website (RGang) has had a number of page updates completed as the Waste and Recycling Guides were completed. All completed W&R Guides are now online. Pages are being updated and condensed as time allows.

APPENDIX

Public Place Battery Collection Program

Public Battery Recycling Local Government Region and Locality	July-June Total 2018/19 (kg)	July-June Total 2017/18 (kg)
City of Bayswater		
Bayswater Civic Centre and Council Chambers	220.0	239.6
Bayswater Public Library	181.9	164.4
Bayswater Waves	310.2	0.0
Galleria	513.2	65.3
Hawaiian's Noranda	431.0	0.0
Morley Public Library	202.2	276.2
Morley Recreation Centre	93.2	0.0
The Rise	420.0	293.6
Total	2,371.7	1,039.1
City of Belmont		
Belmont Civic Centre	172.2	307.1
Belmont Forum	2,134.9	996.4
EMRC	59.0	145.8
Ruth Faulkner Public Library	46.0	106.0
Total	2,412.1	1,555.3
City of Swan		
Altone Library	117.3	137.9
Ballajura Library	52.1	139.0
Bullsbrook Recycling Centre	0.0	0.0
City of Swan Administration Centre	82.3	56.1
City of Swan Operations Centre	114.8	338.9
Ellenbrook Central	773.2	667.5
Ellenbrook Library	212.3	200.3
Guildford Library	53.8	0.0
Midland Gate Shopping Centre	531.2	562.5
Midland Library	363.1	337.7
Total	2,300.1	2,439.9
Shire of Kalamunda		
Centro Kalamunda	510.0	565.8
Forrestfield Library	79.7	71.0
Hawaiian's Forrestfield	725.4	796.3
High Wycombe Library	60.3	70.7
Hillview Lifestyle Village	67.2	68.5
Kalamunda Administration Office	312.9	333.8
Kalamunda Library	198.7	291.6
Lesmurdie Library	12.0	0.0
Lesmurdie Shopping Village	220.7	111.9
Walliston Transfer Station	564.7	813.4
Total	2,751.6	3,123.0
Shire of Mundaring		
Albert Facey Memorial Library (Mundaring)	210.3	227.1
Boya Library (replaced Katharine S Prichard Library)	211.7	183.0
Coppin Road Transfer Station	357.8	323.2
Mathieson Road Transfer Station	242.8	274.2
Mundaring Administration Building	239.1	241.6
Wasteless Pantry	222.3	176.4
Total	1,484.0	1,425.50
Town of Bassendean		
Bassendean Customer Service Centre	119.0	156.0
Bassendean Memorial Library	515.9	614.0
Hawaiian's Bassendean (Wasteless Pantry)	136.6	0.0
Total	771.5	770.0
Grand Total (kg)	12,091	10,352.8

Schools Battery Collection Program

School Battery Recycling Local Government Region and Schools	July-June Total 2018/19 (kg)	July-June Total 2017/18 (kg)
City of Bayswater		
Bayswater Primary School	4.2	15.7
Camboon Primary School	47.1	41.5
Chisolm Catholic College	0.0	0.0
Durham Road School	24.6	44.3
Embleton Primary School	32.3	0.0
Hampton Park Primary School	98.9	123.4
Hampton Senior High School	15.2	20.1
Hillcrest Primary School	54.8	50.0
Maylands Peninsula Primary School	28.7	.0
Morley Primary School	11.5	15.4
Morley Senior High School	00.0	0.0
Noranda Primary School	93.0	165.7
St Peter's Primary School	11.5	33.9
Weld Square Primary School	113.9	128.0
Total	535.7	638.0
City of Belmont		
Belmont Primary School	112.5	28.7
Carlisle Primary	11.1	49.4
Cloverdale Primary School	28.3	7.2
Kewdale Primary School	87.6	61.7
Notre Dame Catholic Primary	19.8	13.2
Redcliffe Primary School	26.0	21.8
Rivervale (Tranby) Primary School	15.1	7.8
South East Metro Language Development Centre	30.4	0.0
St. Maria Goretti's Primary School	5.0	0.5
Total	335.8	190.3
City of Swan		
Anne Hamersley Primary School	18.4	19.4
Arbor Grove Primary School	172.7	127.5
Aveley North Primary School	3.9	0.9
Aveley Primary School	21.6	11.2
Ballajura Primary School	26.0	261.3
Beechboro Christian School	184.0	161.1
Bullsbrook College (Primary Campus)	173.4	124.2
Caversham Primary School	0.0	42.9
Clayton View Primary School	60.7	138
East Beechboro Primary School	58.6	18.4
Ellen Stirling Primary School	146.7	28.9
Ellenbrook Christian College	16.6	4.2
Ellenbrook Primary School	28.3	19.4
Ellenbrook Secondary College	53.9	112.2
Good Shepherd Catholic School	39.2	22.8
Governor Stirling High School	0.0	18.0
Guildford Grammar School	53.6	36.2
Guildford Primary School	92.4	22.6
Holy Cross College	0.0	0.0
Illawarra Primary School	37.3	0.0
John Septimus Roe ACS - Beechboro	49.3	37.4
Kiara College	3.3	13.1
La Salle College	29.4	19.4
Lockridge Primary School	8.8	127.5
Malvern Springs Early Learning Centre	23.9	0.9
Malvern Springs Primary School	21.6	11.2
Middle Swan Primary School	16.5	261.3

School Battery Recycling Local Government Region and Schools	July-June Total 2018/19 (kg)	July-June Total 2017/18 (kg)
Midland Learning Academy	0.0	0.0
Riverlands Montessori School	63.5	52.1
South Ballajura Primary School	11.6	8.4
St Brigid's Primary School	129.1	211.6
St Helena's Catholic Primary School	0.0	13.9
Swan Valley Anglican Community School	25.2	13.4
Swan View Primary School	98.1	65.5
Upper Swan Primary School	62.5	63.9
West Beechboro Primary School	11.4	15.6
Woodbridge Primary School	96.4	59.4
Total	1,837.9	1,723.5
Shire of Kalamunda		
Carmel Adventist Primary School	15.0	24.6
Dawson Park Primary School	20.5	34.1
Edney Primary	125.0	135.8
Falls Road Primary School	40.3	16.9
Gooseberry Hill Primary School	119.1	83.6
High Wycombe Primary School	637.2	588.6
Hillside Christian College	137.1	163.8
Kalamunda Christian Primary School	4.2	96.5
Kalamunda Primary School	167.8	108.5
Kalamunda SHS Education Support	44.5	17.5
Lesmurdie Primary School	55.8	98.2
Maida Vale Goodstart Early Learning Centre	2.5	4.0
Maida Vale Primary School	41.1	59.5
Mary's Mount Primary School	166.6	60.9
Matthew Gibney Catholic Primary School	25.4	47.1
Mazenod College	154.0	75.6
Pickering Brook Primary School	15.0	14.6
St Brigid's College	27.2	94.7
Wattle Grove Primary School	135.9	165.4
Woodlupine Primary School	126.8	131.0
Total	2,061	2,020.9
Shire of Mundaring		
Chidlow Primary School	78.3	219.4
Darlington Primary School	338.7	337.3
Glen Forrest Primary School	48.1	51.5
Greenmount Primary School	111.5	170.8
Helena College Junior School	61.5	11.2
Helena College Senior School	56.6	50.3
Helena Valley Primary School	19.1	32.2
Hills Out of School Care Association	21.2	0.0
Mount Helena Primary School	12.2	13.9
Mundaring Childcare Centre	0.0	5.7
Mundaring Christian College Primary Campus	43.2	47.7
Mundaring Christian College Secondary Campus (Parkerville)	17.9	3.3
Mundaring Primary School	34.8	25.2
Parkerville Primary School	97.7	34.3
Sacred Heart School (Mundaring)	34.0	45.0
Sawyers Valley Primary School	161.5	44.6
Silver Tree Steiner School	33.5	53.0
Treetops Montessori School	25.2	27.4
Wooroloo Primary School	18.0	18.9
Total	1,213.0	1,191.7

School Battery Recycling Local Government Region and Schools	July-June Total 2018/19 (kg)	July-June Total 2017/18 (kg)
Town of Bassendean		
Anzac Terrace Primary School	56.1	46.8
Ashfield Primary School	31.6	4.4
Bassendean Primary School	32.0	28.0
Casa Mia Montessori School	13.6	26.2
Cyril Jackson Senior Campus	36.8	22.8
Eden Hill Primary School	84.5	55.5
St. Michael's Primary School	101.4	92.7
Total	356.0	276.4
Grand Total (kg)	6,339.4	6,040.8

CFL Collection and Recycling Program

Public CFL Recycling Local Government Region and Locality	July-June Total 2018/19 (kg)	July-June Total 2017/18 (kg)
City of Bayswater		
Bayswater Civic Centre and Council Chambers	57.0	28.6
Bayswater Waves	72.0	NA
Morley Galleria	120.2	14.4
Hawaiian's Noranda	115.5	NA
Maylands Public Library (The Rise)	20.2	30.3
Morley Public Library	61.9	29.1
Morley Recreational Centre	99.6	NA
Total	546.4	102.4
City of Belmont		
Belmont Civic Centre	52.0	42.0
Belmont Forum	49.7	89.2
EMRC	42.4	18.8
Total	144.1	150.0
City of Swan		
Altone Library	12.3	0.0
Ballajura Library	0.0	7.9
Bullsbrook Recycling Centre	0.0	0.0
City of Swan Operations Centre	60.5	59.4
Ellenbrook Central	68.5	106.0
Ellenbrook Library	0.0	0.0
Midland Gate Shopping Centre	51.7	64.5
Midland Library	58.7	52.3
Total	251.7	290.1
Shire of Kalamunda		
Centro Kalamunda	50.5	57.6
Hawaiian's Forrestfield	42.7	52.0
Hillview Lifestyle Village	22.7	9.9
Kalamunda Administration Office	62.6	88.9
Lesmurdie Village Shopping Centre	41.3	23.1
Total	219.8	231.5
Shire of Mundaring		
Coppin Road Transfer Station	293.4	283.3
Mathieson Road Transfer Station	166.2	264.3
Mundaring Administration Building	53.5	61.7
Total	513.1	609.3
Town of Bassendean		
Bassendean Customer Service Centre	46.7	30.7
Bassendean Memorial Library	62.4	73.2
Total	109.1	103.9
Grand Total (kg)	1,784.2	1,487.2



Waste Education Report - July 2019

This report is provided to the Member Council representatives on the Regional Waste Education Steering Group, members of the Waste Management Community Reference Group and members of the Executive Management team. This report includes data for July 2019.

1. Public Recycling Updates

1.1 Public Place Battery Collection Program

- Public place collection data for July and financial year to date.

<i>Battery Recycling - Public Places</i>	July 2019/20	July 2018/19	Year to Date Total 2019/20	Year to Date Total 2018/19
Bassendean	63.4	63.8	63.4	63.8
Bayswater	189.0	64.8	189.0	64.8
Belmont	171.6	188.7	171.6	188.7
Kalamunda	281.2	176.8	281.2	176.8
Mundaring	117.2	112.5	117.2	112.5
Swan	154.2	137.7	154.2	137.7
TOTAL (kg)	976.6	744.3	976.6	744.3

1.2 Schools Battery Collection Program

- No schools registered in July. A battery collection container and a poster were provided to Ellenbrook School of Early Learning. The EMRC will not provide a collection service to the centre.
- School collection data for July and financial year to date below.

<i>Battery Recycling - Schools</i>	July 2019/20	July 2018/19	Year to Date Total 2019/20	Year to Date Total 2018/19
Bassendean	0.0	50.6	0.0	50.6
Bayswater	0.0	0.0	0.0	0.0
Belmont	39.8	0.0	39.8	0.0
Kalamunda	0.0	193.9	0.0	193.9
Mundaring	0.0	0.0	0.0	0.0
Swan	92.0	0.0	92.0	0.0
TOTAL (kg)	131.8	244.5	131.8	244.5

1.3 CFL Collection and Recycling Program

- Public place collection data for July and financial year to date.

<i>CFL Recycling - Public Places</i>	July 2019/20	July 2018/19	Year to Date Total 2019/20	Year to Date Total 2018/19
Bassendean	13.3	4.8	13.3	4.8
Bayswater	44.5	0.0	44.5	0.0
Belmont	9.4	20.2	9.4	20.2
Kalamunda	10.0	18.6	10.0	18.6
Mundaring	41.2	39.1	41.2	39.1
Swan	23.6	22.1	23.6	22.1
TOTAL (kg)	142.0	104.8	142.0	104.8



2. Tours of Red Hill Waste Management Facility and Education Centre during July 2019

- Few tours were conducted throughout July due to the school holiday break.
- The following tours occurred in July 2019.

Name of group	Council region	Number of Participants	Program
July 2019			
Gidgegannup Primary School		49	Tour & Ed Centre
John Septimus Roe Anglican Community School		55	Tour & Ed Centre
EMRC - Community Tree Planting Day		34	Tour & Ed Centre
City of Swan		5	Tour
	TOTAL	143	

3. School and Community Engagement/Events

3.1 School Events

- Gooseberry Primary School Environmental Day – full day event – 5 July – attended.

3.2 Community Events

- Member Council Waste Education Requests for 2019:
 - Belmont - Autumn River Festival – Garvey Park, Ascot – 6 April 2019 – booked first - attended;
 - Bayswater - Autumn River Festival – Bayswater – 6 April 2019 – unable to attend;
 - All - Perth Garden Festival – 11-14 April 2019 - attended;
 - Swan – Bullsbrook Community Fair – 28 April 2019 – attended;
 - EMRC & Swan - Toodyay Road Cleanup – Tentative Date to be confirmed April/May 2018 – on-hold;
 - Swan - Altone Comes Alive – Beechboro – 4 May 2019 - attended;
 - Swan - Gidgegannup Small Farm Field Day – 26 May 2019 - attended;
 - Waste Advisory Committee – Demonstrate Waste Audit Loan Kit – 6 June 2019 – completed;
 - Swan – Avon Descent – 4 August 2019;
 - All - Perth Royal Show – 28 September – 5 October 2019;
 - Swan - Gidgegannup Show – 26 October 2019; and
 - Swan – Ellenbrook Christmas Pageant – 7 December 2019.
- Regional Workshops in 2019:
 - Little Green Steps Presentation – 5 February 2019 – cancelled last minute; and
 - Clean Schools and Waste Wise Schools – Professional Development Day – Red Hill – 14 May 2019.
- Community Requests in 2019:
 - Waste and Recycling talk for Max Solutions – 30 January 2019 – completed;
 - Waste and Recycling talk for Mundaring Probus Group – 8 April 2019 – completed;
 - Waste and Recycling talk for Midland and Districts Social Club – 8 April 2019 – completed; and
 - Waste and Recycling talk - Mundaring Rotary Club – 31 July 2019.
- Joint events with the other Regional Councils in 2019:
 - Perth Garden Festival – 11-14 April 2019 - attended; and
 - Perth Royal Show – 28 September – 5 October 2019.
- EMRC Waste Education run events in 2019:
 - Waste Education Team:
 - Earth Carers course – May 2019;
 - Community Bus Tours - Dates for bus tours for each of the member Councils have being finalised and promotion of the tours has commenced. At present, tour dates are as follows:
 - Shire of Mundaring – Saturday, 2 February 2019 - completed;
 - City of Belmont – Saturday, 23 February 2019 - completed; and
 - City of Swan - Saturday, 30 March 2019 - completed.
 - Community tree planting day – 10 July 2019:



- 500 native tubestock were planted by 34 participants; and
- Included a site tour and activities in the education centre.
- Earth Carers course – October/November 2019;
- Recycling Week Tours – 11 -17 November 2019. Tours to be arranged.
 - Tour 1; and
 - Tour 2
- Earth Carers Volunteer Education Team 2019:
 - Bassendean Event requests
 - Australia Day – Ashfield – 26 January 2019 (1 Volunteer attended); and
 - Wonderland at Wonderealm – A Bassendean Fringe Event - 15 – 17 February 2019 (4 Volunteers – offered – however cancelled by event organiser at last minute).
 - Perth Garden Festival – 11-14 April 2019 – (7 volunteers attended);
 - Perth Royal Show – 28 September – 5 October 2019.

3.3 Waste Education Networking/Promotion – July 2019

- Planning for Royal Show Waste Education site. In collaboration with the Mindarie Regional Council. Key themes for 2019 are Food Organics Garden Organics (FOGO) and Container Deposit Scheme (CDS) – 12 July 2019;
- Meeting with Red Hill site staff to discuss aspects of the Battery collection Program – 23 July 2019; and
- Meeting with DSBS (IT consultancy) – Augmented Reality - 24 July 2019.

3.4 Waste Education Loan Resources utilisation

- RGANG Mannequins – borrowed by City of Swan from April 2018 onwards.

4. Additional Current projects:

4.1 Earth Carers Course

- Mindarie Regional Council conduct an Advanced Earth Carers Course once every two years. To be eligible for this course applicants are to:
 - Be graduates of the Earth Carers training;
 - Have been an Earth Carer for at least 12 months;
 - Have shown a keen interest in waste and the waste industry;
 - Be actively promoting the Earth Carers 'Living with Less Waste' ethos;
- The EMRC Waste Education team are assessing the viability of implementing the Advanced Earth Carers course in the future, and are participating in the course. The first four sessions took place in July, with follow up sessions scheduled for October and November. The sessions included:
 - A tour to CLAW Environmental (plastics recycling), Capital Recycling (construction and demolition waste) and Redmondis (single stream recycling);
 - Support and advice to participants who are tasked to undertake a waste minimisation or awareness project.

4.2 Website, Fact Sheets and Brochures

- Amendments were made to information on the RGang website; and
- Input was provided to the City of Bayswater regarding the development of posters for their publicly located recycling stations.

APPENDIX

Public Place Battery Collection Program

Public Battery Recycling Local Government Region and Locality	July 2019 (kg)	Year to Date Total 2019/20
City of Bayswater		
Bayswater Civic Centre and Council Chambers	20.6	20.6
Bayswater Public Library	6.0	6.0
Bayswater Waves	26.4	26.4
Galleria	50.8	50.8
Hawaiian's Noranda	41.0	41.0
Morley Public Library	14.2	14.2
Morley Recreation Centre	7.0	7.0
The Rise	23.0	23.0
Total	189.0	189.0
City of Belmont		
Belmont Civic Centre	25.8	25.8
Belmont Forum	145.8	145.8
EMRC	0.0	0.0
Ruth Faulkner Public Library	0.0	0.0
Total	171.6	171.6
City of Swan		
Altone Library	0.0	0.0
Ballajura Library	0.0	0.0
Bullsbrook Recycling Centre	0.0	0.0
City of Swan Administration Centre	5.8	5.8
City of Swan Operations Centre	0.0	0.0
Ellenbrook Central	63.6	63.6
Ellenbrook Library	5.0	5.0
Guildford Library	0.0	0.0
Midland Gate Shopping Centre	44.2	44.2
Midland Library	35.6	35.6
Total	154.2	154.2
Shire of Kalamunda		
Centro Kalamunda	63.4	63.4
Forrestfield Library	4.8	4.8
Hawaiian's Forrestfield	56.2	56.2
High Wycombe Library	6.6	6.6
Hillview Lifestyle Village	0.0	0.0
Kalamunda Administration Office	2.4	2.4
Kalamunda Library	19.8	19.8
Lesmurdie Library	1.6	1.6
Lesmurdie Shopping Village	5.8	5.8
Walliston Transfer Station	120.6	120.6
Total	281.2	281.2
Shire of Mundaring		
Albert Facey Memorial Library (Mundaring)	23.8	23.8
Boya Library (replaced Katharine S Prichard Library)	18.0	18.0
Coppin Road Transfer Station	27.4	27.4
Mathieson Road Transfer Station	16.4	16.4
Mundaring Administration Building	11.8	11.8
Wasteless Pantry	19.8	19.8
Total	117.2	117.2
Town of Bassendean		
Bassendean Customer Service Centre	6.8	6.8
Bassendean Memorial Library	31.8	31.8
Hawaiian's Bassendean (Wasteless Pantry)	24.8	24.8
Total	63.4	63.4
Grand Total (kg)	976.6	976.6

Schools Battery Collection Program

School Battery Recycling		
Local Government Region and Schools	July 2019 (kg)	Year to Date Total 2019/20
City of Bayswater		
Bayswater Primary School	0.0	0.0
Camboon Primary School	0.0	0.0
Chisolm Catholic College	0.0	0.0
Durham Road School	0.0	0.0
Embleton Primary School	0.0	0.0
Hampton Park Primary School	0.0	0.0
Hampton Senior High School	0.0	0.0
Hillcrest Primary School	0.0	0.0
Maylands Peninsula Primary School	0.0	0.0
Morley Primary School	0.0	0.0
Morley Senior High School	0.0	0.0
Noranda Primary School	0.0	0.0
St Peter's Primary School	0.0	0.0
Weld Square Primary School	0.0	0.0
Total	0.0	0.0
City of Belmont		
Belmont Primary School	25.0	25.0
Carlisle Primary	0.0	0.0
Cloverdale Primary School	0.8	0.8
Kewdale Primary School	0.0	0.0
Notre Dame Catholic Primary	3.6	3.6
Redcliffe Primary School	3.8	3.8
Rivervale (Tranby) Primary School	0.8	0.8
South East Metro Language Development Centre	3.2	3.2
St. Maria Goretti's Primary School	2.6	2.6
Total	39.8	39.8
City of Swan		
Anne Hamersley Primary School	8.6	8.6
Arbor Grove Primary School	41.4	41.4
Aveley North Primary School	0.0	0.0
Aveley Primary School	6.8	6.8
Ballajura Primary School	0.0	0.0
Beechboro Christian School	0.0	0.0
Bullsbrook College (Primary Campus)	0.0	0.0
Caversham Primary School	0.0	0.0
Clayton View Primary School	0.0	0.0
East Beechboro Primary School	0.0	0.0
Ellen Stirling Primary School	8.6	8.6
Ellenbrook Christian College	0.0	0.0
Ellenbrook Primary School	9.4	9.4
Ellenbrook Secondary College	7.6	7.6
Good Shepherd Catholic School	0.0	0.0
Governor Stirling High School	0.0	0.0
Guildford Grammar School	0.0	0.0
Guildford Primary School	0.0	0.0
Holy Cross College	0.0	0.0
Illawarra Primary School	0.0	0.0
John Septimus Roe ACS - Beechboro	0.0	0.0
Kiara College	0.0	0.0
La Salle College	0.0	0.0
Lockridge Primary School	0.0	0.0
Malvern Springs Early Learning Centre	3.0	3.0
Malvern Springs Primary School	2.4	2.4
Middle Swan Primary School	0.0	0.0
Midland Learning Academy	0.0	0.0

School Battery Recycling		
Local Government Region and Schools	July 2019 (kg)	Year to Date Total 2019/20
Riverlands Montessori School	0.0	0.0
South Ballajura Primary School	0.0	0.0
St Brigid's Primary School	0.0	0.0
St Helena's Catholic Primary School	0.0	0.0
Swan Valley Anglican Community School	1.0	1.0
Swan View Primary School	0.0	0.0
Upper Swan Primary School	3.2	3.2
West Beechboro Primary School	0.0	0.0
Woodbridge Primary School	0.0	0.0
Total	92.0	92.0
Shire of Kalamunda		
Carmel Adventist Primary School	0.0	0.0
Dawson Park Primary School	0.0	0.0
Edney Primary	0.0	0.0
Falls Road Primary School	0.0	0.0
Gooseberry Hill Primary School	0.0	0.0
High Wycombe Primary School	0.0	0.0
Hillside Christian College	0.0	0.0
Kalamunda Christian Primary School	0.0	0.0
Kalamunda Primary School	0.0	0.0
Kalamunda SHS Education Support	0.0	0.0
Lesmurdie Primary School	0.0	0.0
Maida Vale Goodstart Early Learning Centre	0.0	0.0
Maida Vale Primary School	0.0	0.0
Mary's Mount Primary School	0.0	0.0
Matthew Gibney Catholic Primary School	0.0	0.0
Mazenod College	0.0	0.0
Pickering Brook Primary School	0.0	0.0
St Brigid's College	0.0	0.0
Wattle Grove Primary School	0.0	0.0
Woodlupine Primary School	0.0	0.0
Total	0.0	0.0
Shire of Mundaring		
Chidlow Primary School	0.0	0.0
Darlington Primary School	0.0	0.0
Glen Forrest Primary School	0.0	0.0
Greenmount Primary School	0.0	0.0
Helena College Junior School	0.0	0.0
Helena College Senior School	0.0	0.0
Helena Valley Primary School	0.0	0.0
Hills Out of School Care Association	0.0	0.0
Mount Helena Primary School	0.0	0.0
Mundaring Childcare Centre	0.0	0.0
Mundaring Christian College Primary Campus	0.0	0.0
Mundaring Christian College Secondary Campus (Parkerville)	0.0	0.0
Mundaring Primary School	0.0	0.0
Parkerville Primary School	0.0	0.0
Sacred Heart School (Mundaring)	0.0	0.0
Sawyers Valley Primary School	0.0	0.0
Silver Tree Steiner School	0.0	0.0
Treetops Montessori School	0.0	0.0
Wooroloo Primary School	0.0	0.0
Total	0.0	0.0
Town of Bassendean		
Anzac Terrace Primary School	0.0	0.0
Ashfield Primary School	0.0	0.0
Bassendean Primary School	0.0	0.0
Casa Mia Montessori School	0.0	0.0
Cyril Jackson Senior Campus	0.0	0.0

School Battery Recycling		
Local Government Region and Schools	July 2019 (kg)	Year to Date Total 2019/20
Eden Hill Primary School	0.0	0.0
St. Michael's Primary School	0.0	0.0
Total	0.0	0.0
Grand Total (kg)	131.8	131.8

CFL Collection and Recycling Program

Public CFL Recycling		
Local Government Region and Locality	July 2019 (kg)	Year to Date Total 2019/20
City of Bayswater		
Bayswater Civic Centre and Council Chambers	0.0	0.0
Bayswater Waves	6.5	6.5
Morley Galleria	19.8	19.8
Hawaiian's Noranda	8.3	8.3
Maylands Public Library (The Rise)	0.0	0.0
Morley Public Library	3.0	3.0
Morley Recreational Centre	6.9	6.9
Total	44.5	44.5
City of Belmont		
Belmont Civic Centre	0.0	0.0
Belmont Forum	9.4	9.4
EMRC	0.0	0.0
Total	9.4	9.4
City of Swan		
Altone Library	0.0	0.0
Ballajura Library	0.0	0.0
Bullsbrook Recycling Centre	0.0	0.0
City of Swan Operations Centre	0.0	0.0
Ellenbrook Central	15.4	15.4
Ellenbrook Library	0.0	0.0
Midland Gate Shopping Centre	4.1	4.1
Midland Library	4.1	4.1
Total	23.6	23.6
Shire of Kalamunda		
Centro Kalamunda	0.0	0.0
Hawaiian's Forrestfield	5.2	5.2
Hillview Lifestyle Village	0.0	0.0
Kalamunda Administration Office	1.0	1.0
Lesmurdie Village Shopping Centre	3.8	3.8
Total	10	10
Shire of Mundaring		
Coppin Road Transfer Station	20.0	20.0
Mathieson Road Transfer Station	21.2	21.2
Mundaring Administration Building	0.0	0.0
Total	41.2	41.2
Town of Bassendean		
Bassendean Customer Service Centre	5.0	5.0
Bassendean Memorial Library	8.3	8.3
Total	13.3	13.3
Grand Total (kg)	142.0	142.0



9 REPORTS OF RELEVANT WASTE ADVISORY COMMITTEE RESOLUTIONS

The Director Waste Services provided an overview of the relevant reports and resolutions of the Waste Advisory Committee held.

The following reports were discussed:

- Tracking of the East Rockingham Facility;
- Tender for the Mobile Aerated Floor system for FOGO processing;
- FOGO Study Tour; and
- 2019 Waste and Recycle Conference.

The Director Waste Services advised that the Waste Advisory Committee minutes from each meeting are accessible on the EMRC corporate website, www.emrc.org.au, Council, Committee minutes.

10 REPORTS OF DELEGATES

10.1 2019 WASTE & RECYCLE CONFERENCE - ATTENDANCE

At the 22 August 2019 Council meeting, council endorsed for two (2) places to the 2019 Waste & Recycle Conference be authorised to the WMCRG.

The two (2) day Conference was held at the Crown Towers on 25-26 September 2019, also offering two (2) full day tours. Two (2) members, Ms Luck and Mr Simpson, expressed their interest to attend and were registered for the two (2) day conference. Mr Simpson also attended the South West Landfill and FOGO Processing tour in Bunbury on Friday 27 September 2019.

Mr Simpson and Ms Luck provided a brief overview of their attendance at the conference.

Attachment: Delegates Report, Mr Simpson (Ref: D2019/16472)

2019 Waste and Recycle Conference - Crown, Perth

Below is a selection of topics covered by speakers at this year's conference.

The Minister for the Environment, Stephen Dawson, opened the conference and made the following points:

WA's Legislative Council passed the Waste Avoidance and Resource Recovery Bill (Container Deposit) on 13 March amending the Waste Avoidance and Resource Recovery Act 2007 to facilitate the implementation and operation of a container deposit scheme (CDS). It is intended to set up 172 recycling points in WA.

The Council of Australian Governments, at its meeting in August, agreed that Australia should establish a timetable to ban the export of waste plastic, paper, glass and tyres, while building Australia's capacity to generate high value recycled commodities and associated demand.

There is a need to improve the contamination rate of the recycling waste stream.

The FOGO (food organics, garden organics) initiative is a cornerstone of waste reduction initiatives, with a third kerbside bin intended throughout the metropolitan area by 2025.

China's ban on Australia's waste has reinforced recycling initiatives.

He emphasised the importance of partnership between local governments, industry, state government and the community, and working together to reduce waste generation and maximise resource recovery. The Minister also identified the high priority that Government has given waste management, with one of the State's 12 priorities being waste reduction.

The Minister also highlighted the amazing work of the Plastic Free July Foundation which started as a Local Government initiative in WA and now has global reach with 230 million people involved this year.

Mike Rowe, the Director General of the Department of Water and Environmental Regulation, spoke of the release this year of the Waste Avoidance and Resource Recovery Strategy 2030 to ensure the appropriate disposal and tracking of waste.

He called on participants to revolutionise the waste management industry guided by the circular economy, waste hierarchy and effective behaviour change. The importance of Government action was a key focus area. Mike gave the example of the Subiaco Oval demolition and resource recovery (it went to the Murdoch Drive extension and Kwinana Freeway widening) as an important project and first step.

He also outlined how the Department was facilitating a whole-of-Government approach to tackle waste reduction and increased resource recovery, which includes the requirement for State Government to purchase recycled products - as an example Main Roads has started using the rubber from tyres in its road construction, and emphasised the importance of aligning LG waste with the strategy.

Objective 1: Avoid – Western Australians generate less waste

Objective 2: Recover – Western Australians recover more value and resources from waste

Objective 3: Protect – Western Australians protect the environment by managing waste responsibly

FOGO collection systems are an important focus for the Waste Authority Chair, Reg Howard-Smith, who acknowledged the outstanding work of the Bunbury Harvey Regional Council in implementing

these systems and congratulated the City of Melville, East Fremantle and Fremantle for also being early adopters of FOGO services. He talked of the importance of Construction and Demolition (C&D) waste recovery, amounting to half WA's waste stream.

Hermann Huisman shared the Journey of the Netherlands from linear to circular economy. In the Netherlands they made the best of a crisis (running out of landfill space) and are now not just talking about the 3R's but the 10R's. Hermann emphasised the importance of having National Government action to ensure effective extended producer responsibility schemes as part of this process.

Paul Frasca from Sustainable Salons, highlighted the approach for his business which focuses on People, Planet, Profit. There are hairdressing industry problems, and his business gives hairdressers 9 types of bin to better sort out their waste stream. 1.5m kg of hair foil goes to landfill p.a. His business recycles it to create food for the poor. 400,000kg of hair goes to landfill p.a. Hair can absorb oil better than anything else. Hair is also full of protein and amino acids, and so is a top ingredient for rose farms. Ponytails are a valuable resource for hair extensions. He also creates sunglasses from waste plastic

Paul looks at waste as a resource and emphasises that at source separation was essential for his business to continue its 'above ground mining'. Paul's innovative approach will see hair being used to clean up oil spills in the future!

Bernadette Casey, from The Formary, and Mark Barthel, from Fight Food Waste CRC, shocked attendees when they shared the greenhouse gas impacts of clothing and food waste.

Bernadette's research indicates that the global carbon footprint from manufacturing clothing is the same size roughly as the entire carbon footprint of Europe. A single kilogram of textile produced equates to 3.6kg of greenhouse gas emissions.

Mark stated that if food waste was a country, it would be the third highest emitter of greenhouses gasses globally, after China and the USA. Food waste represents 32% of the global food supply, at a cost of \$1.8 trillion, and uses up 25% of the water used in agriculture, and utilises cropland the size of China. 31% of food waste occurs during primary production, 24% during manufacturing and 34% by households either not using the food in time or preparing too much food. An example of a measure to reduce food waste is the reduction of the minimum accepted width of a potato in the UK by 2mm, which led to a 5% increase in production.

Both speakers emphasised the importance of taking a systems approach and tackling the potential for issues arising upstream, through designing intervention informed by the right data.

Frank Smith from Avertas Energy talked about the key role Waste2Energy plants play in the new processes of dealing with waste, and emphasised its safety.

The Kwinana W2E plant, operational in Oct 2021, will be the first in Australia, but now 5 more are being planned on the east coast. It generates electricity, controls emissions, and produces ferrous and non-ferrous metals for reuse and bottom ash. 99.9% of emissions are components of normal air and steam, and emissions will be below international best practice standards.

The greenhouse gas emissions will be less than the methane that would have been generated had the waste gone to landfill plus the emissions produced by burning coal to produce the same amount

of electricity as produced by the W2E plant. Copenhagen and Paris have similar plants located very close to the waste source i.e. human populations.

He advised that the combustion temperature will be a minimum of 850°C so as to completely combust organics and destroy dioxins and furans. Urea is sprayed into the furnace to eliminate nitrogen oxides. Flue gas cleansing captures acid gases, heavy metals etc. 400,000 tonnes p.a. will be diverted from landfill.

On Friday I went on a tour of the Bunbury-Harvey Regional Council Waste Management Facility and its Organics Processing Facility.

The Waste Management Facility encompasses a waste transfer station and a landfill site. The waste transfer station deals with over 10,000 tonnes p.a., of which 79.5% is reused or recycled. The facility has recently extended its range of single item collection points, which even includes contact lenses, and has a second-hand shop which people take appropriate items to directly. The site has also been registered as a CDS refund and processing depot. The landfill operation site receives 97,000 tonnes p.a. and diverts 60% for reuse and recycling, having significantly improved its waste diversion practices.

At the FOGO facility, organic waste from the lime green organics bins is unloaded in large windrows 45m long and 15m wide. This material is high in nitrogen, so mulched garden waste which is high in carbon is added, and the composting process begins. Aerators speed up the process and minimise odours. The windrows are turned at least 5 times in 4-6 week intervals, ensuring all parts of the pile are pasteurised and allowing steam to escape. The temperature is maintained at over 55° for at least 15 consecutive days. After testing, most of the product is sold in bulk. However, if the degree of contamination is too great, then that particular windrow will go to landfill instead. Their final product is a rich compost, which has been particularly successful with avocados.

Mark Simpson

14 October 2019



11 GENERAL BUSINESS

11.1 RESOURCE RECOVERY PROJECT UPDATE

The Director Waste Services provided an update on the Resource Recovery Facility proposed at East Rockingham and on other initiatives being evaluated.

11.2 RESOURCE RECOVERY PARK UPDATE

The Manager Resource Recovery updated the group on the progress of the Hazelmere Resource Recovery Park (Hazelmere), including the Hazelmere Wood Waste to Energy Project and general site development.

The topics covered were as follows:

- The Timber recycling facility was built in 2011 and is the only one in WA and the southern hemisphere. The EMRC recovers and processes uncontaminated clean timber.
- The EMRC processes end of life mattresses which have been picked up from verge collections and soiled. Last year 8,000 mattresses were processed and we are on track for 12,000 this year.
- We have almost completed the Stage 2 works. A new weighbridge has been installed. The existing weighbridge has been relocated and will be commissioned in the next few weeks.
- Once the commercial entrance is opened, the next phase is to open a community recycling centre and a new administration building.
- Lloyd Street extension update was provided.
- Hazelmere Wood Waste to Energy facility update provided the power export cable which has been connected to PAPL and fully commissioned and is now under a PAPL permit.

Discussion ensued

- The Manager of Resource Recovery provided an overview of the status of the stockpile of material at the facility.
- It was suggested to have a community education tour set up at Hazelmere similar to the Red Hill Waste Management Facility. The Manager Resource Recovery advised that this is being considered once the construction phase is complete. Presently it is difficult to get a large bus through the facility for larger groups.
- It was agreed for the WMCRG to progress with a tour of Hazelmere and Red Hill once Stage 2 is at completion.
- The Manager Resource Recovery advised that 3,000 trees have been planted in the new entrance area and on all verge sites. The tree planting project is an ongoing project.

11.3 CONTAINER DEPOSIT SCHEME UPDATE

The Chief Executive Officer provided an update of the Container Deposit Scheme (CDS) and the EMRC's interest, including an update on the recent CDS Study Tour to Queensland within the previous presentation at Item 5.1.



12 FUTURE MEETINGS OF THE WMCRG

The next meeting of the Waste Management Community Reference Group will be held on **Monday, 10 February 2020 (if required)** at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, Belmont WA 6104 commencing at 6:00pm.

It was discussed that the 25 November 2019 (if required) would not be held. The Chairperson requested if it could be considered to have a site tour of the Red Hill Waste Management Facility and potentially have a WMCRG meeting at the facility. The EMRC staff would consider the request.

Future Meetings 2020

Monday	10	February (if required)	at	EMRC Administration Office
Monday	11	May (if required)	at	EMRC Administration Office
Monday	10	August (if required)	at	EMRC Administration Office
Monday	23	November (if required)	at	EMRC Administration Office

13 DECLARATION OF CLOSURE OF MEETING

There being no further business the meeting was closed at 8:45pm.