



MINUTES

CERTIFICATION OF CONFIRMATION OF WASTE ADVISORY COMMITTEE MINUTES

6 June 2019

I, Cr Wolff, hereby certify that the minutes from the Waste Advisory Committee Meeting held on 6 June 2019 pages (1) to (42) were confirmed at a Committee meeting held on 8 August 2019.

A handwritten signature in black ink, appearing to read "A.K. Wolff", is written over a horizontal line.

Signature

Cr Wolff
Person presiding at Meeting

WASTE ADVISORY COMMITTEE

MINUTES

6 June 2019

(REF: D2019/07248)

A meeting of the Waste Advisory Committee was held at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, BELMONT WA 6104 on **Thursday, 6 June 2019** The meeting commenced at **5:00pm**.

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1 DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS

The Chairman opened the meeting at 5:00pm 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

Cr Steve Wolff (Chairman)	EMRC Member	City of Belmont
Cr Melissa Mykytiuk (Deputy Chairman)	EMRC Member	Town of Bassendean
Cr Sally Palmer (Deputising for Cr McKenna)	EMRC Member	City of Bayswater
Cr Dylan O'Connor	EMRC Member	City of Kalamunda
Cr John Daw (Deputising for Cr Lavell)	EMRC Member	Shire of Mundaring
Cr David McDonnell	EMRC Member	City of Swan
Mr Simon Stewert-Dawkins	Director Operational Services	Town of Bassendean
Mr Doug Pearson	Director Works and Infrastructure	City of Bayswater
Mr Alan Sheridan	Director Infrastructure Services	City of Belmont
Mr Brett Jackson	Director Asset Services	City of Kalamunda
Mr Shane Purdy	Director Infrastructure Services	Shire of Mundaring
Mr Jim Coten	Executive Manager Operations	City of Swan
Mrs Wendy Harris	Acting Chief Executive Officer	EMRC

Apologies

Cr Barry McKenna	EMRC Member	City of Bayswater
Cr David Lavell	EMRC Member	Shire of Mundaring

EMRC Officers

Mr Stephen Fitzpatrick	Director Waste Services
Mr Hua Jer Liew	Director Corporate Services
Mr Dave Beresford	Manager Resource Recovery
Ms Kerry Wilson	Waste Education Officer
Ms Annette Rakich	Administration Support Officer (Minutes)

Observer(s)

Cr Doug Jeans	EMRC Deputy Member	Shire of Mundaring
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3 DISCLOSURE OF INTERESTS

Nil

4 ANNOUNCEMENTS BY THE CHAIRMAN OR PRESIDING MEMBER WITHOUT DISCUSSION

Nil



5 PETITIONS, DEPUTATIONS AND PRESENTATIONS

5.1 WASTE EDUCATION – WASTE AUDIT LOAN KIT

The EMRC's Waste Education Officer Ms Wilson, provided a brief presentation and demonstration of the Waste Education – Waste Audit Loan Kit used by the WA Waste Wise Schools program.

Ms Wilson referred to the Information Bulletin Report Item 1.2 which was explained during the presentation.

6 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

6.1 MINUTES OF THE WASTE ADVISORY COMMITTEE MEETING HELD ON 9 MAY 2019

That the Minutes of the Waste Advisory Committee meeting held on 9 May 2019 which have been distributed, be confirmed.

WAC RESOLUTION(S)

MOVED CR MCDONNELL SECONDED CR MYKYTIUK

THAT THE MINUTES OF THE WASTE ADVISORY COMMITTEE MEETING HELD ON 9 MAY 2019 WHICH HAVE BEEN DISTRIBUTED, BE CONFIRMED.

CARRIED UNANIMOUSLY

7 QUESTIONS BY MEMBERS OF WHICH DUE NOTICE HAS BEEN GIVEN

Nil

8 QUESTIONS BY MEMBERS WITHOUT NOTICE

Nil

9 ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH MEETINGS MAY BE CLOSED TO THE PUBLIC

Nil

10 BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING

Nil



11 REPORTS OF EMPLOYEES

11.1 PURCHASE OF A TWENTY (20) TONNE WHEEL LOADER

REFERENCE: D2019/07247

PURPOSE OF REPORT

The purpose of this report is to recommend acceptance of the quotation for the supply and delivery of a 20 tonne wheel loader submitted by Hitachi Machinery Australia for use at the Red Hill Waste Management Facility.

KEY ISSUES AND RECOMMENDATION(S)

- One of the EMRC's four wheel loaders located at the Red Hill Waste Management Facility has reached its replacement point based on operating hours.
- Quotations were sought for a 20 tonne wheel loader using the WALGA e-quote system for replacement plant including maintenance service agreements.
- Eight (8) companies submitted quotes.
- Funds for the purchase of the wheel loader are included in the 2018/2019 budget.

Recommendation(s)

That Council accept:

1. The quotation for the supply and delivery to the Red Hill Waste Management Facility of one (1) Hitachi ZW250-5 Wheel Loader including an extended 5 year/8,000 hour warranty, submitted by Hitachi Construction Machinery Australia, for the sum of \$383,702 (ex. GST).
2. The offer to undertake the repair and maintenance agreement for the Hitachi ZW250-5 Wheel Loader to be located at the Red Hill Waste Management Facility for a five (5) year/8,000 hour period submitted by Hitachi Construction Machinery Australia at a cost of \$6.01/operating hour (ex. GST).

SOURCE OF REPORT

Director Waste Services

BACKGROUND

Under the EMRC's plant replacement programme, a Volvo L120F 20 tonne wheel loader utilised at the Red Hill Waste Management Facility is due for replacement having reached 8,000 hours of service.

REPORT

Quotations for the replacement of a 20 tonne four wheel loader were sought using the WALGA e-quote system in March 2019. Eight (8) companies provided submissions for a suitable machine, all of which have been evaluated by Waste Services staff against the selection criteria detailed in the quotation specification.



Item 11.1 continued

Submissions were received from the following suppliers, two of whom submitted multiple offers as shown:

- a) Hitachi Construction Machinery Australia;
- b) CJD Equipment x 2;
- c) McIntosh and Son;
- d) JCB Construction Equipment Australia x 2;
- e) Porter Equipment Australia;
- f) Westrac;
- g) Clark Equipment; and
- h) Liebherr Australia.

Selection Criteria and Rating Scale

Each submission was evaluated based on the criteria requested via the WALGA e-quote.

Compliance criteria

Each submission was assessed on a Yes/No basis as to whether the criterion was satisfactorily met. An assessment of "No" against any criterion may have eliminated the submission from consideration.

Description of Compliance criteria	Yes/No
Complied with Specification contained in this e-Quote request	Yes/No

Qualitative criteria

Each submission was scored against the qualitative criteria below.

Description of Qualitative criteria	Weighting
a) Specifications	40%
b) Delivery	10%
c) Warranty	5%
d) Parts/Consumables	20%
e) Quoted Price (including supply and delivery)	25%

The compliance check in the evaluation process determined that there were seven conforming submissions which were evaluated against the above criteria. Compliant submissions had to include all the items in the specification, including an extended warranty for 5 years/8,000 hours, full service/repair and maintenance quote. The submission by Clark Equipment did not meet the specification requirement for a 5 year/8,000 hours extended warranty and was not evaluated further. The submission by Liebherr Australia Pty Ltd and one (1) of the submissions by JCB Construction Equipment Australia did not meet the minimum specification for net engine power and were not evaluated further.

The evaluation process determined the submission from Hitachi Construction Machinery Australia for the ZW250-5 Wheel Loader included all the items in the specification, including an extended warranty for 5 years/8,000 hours, full service/repair and maintenance quote for 5 years/8,000 hours at \$6.01/hour totalling \$48,080 (ex. GST) and provides the best value for money.



Item 11.1 continued

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.1 To provide sustainable waste disposal operations

FINANCIAL IMPLICATIONS

The capital expenditure for plant replacement has been allowed for in the 2018/2019 Annual Budget and in the draft 2019-2020 Annual Budget. The total cost of the ZW250-5 Wheel Loader including an extended warranty and full service agreement is \$431,782 (ex GST).

SUSTAINABILITY IMPLICATIONS

Nil

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
City of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

Nil

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That Council accept:

1. The quotation for the supply and delivery to Red Hill Waste Management Facility of one (1) Hitachi ZW250-5 Wheel Loader including an extended 5 year/8,000 hour warranty, submitted by Hitachi Construction Machinery Australia, for the sum of \$383,702 (ex. GST).
2. The offer to undertake the repair and maintenance agreement for the Hitachi ZW250-5 Wheel Loader to be located at the Red Hill Waste Management Facility for a five (5) year/8,000 hour period submitted by Hitachi Construction Machinery Australia at a cost of \$6.01/operating hour (ex. GST).



Item 11.1 continued

Discussion ensued

The Director Waste Services provided a brief overview of the report and advised that whilst the EMRC has predominately purchased Volvo Wheel Loaders in the past, on this occasion the Hitachi Wheel Loader represents the best value for money.

WAC RECOMMENDATION(S)

MOVED CR O'CONNOR

SECONDED MR JACKSON

That Council accept:

1. The quotation for the supply and delivery to Red Hill Waste Management Facility of one (1) Hitachi ZW250-5 Wheel Loader including an extended 5 year/8,000 hour warranty, submitted by Hitachi Construction Machinery Australia, for the sum of \$383,702 (ex. GST).
2. The offer to undertake the repair and maintenance agreement for the Hitachi ZW250-5 Wheel Loader to be located at the Red Hill Waste Management Facility for a five (5) year/8,000 hour period submitted by Hitachi Construction Machinery Australia at a cost of \$6.01/operating hour (ex. GST).

CARRIED UNANIMOUSLY



11.2 WASTE MANAGEMENT COMMUNITY REFERENCE GROUP MEMBERSHIP AND TERMS OF REFERENCE

REFERENCE: D2019/07414

PURPOSE OF REPORT

The purpose of this report is to seek Council endorsement of membership renewals for the Waste Management Community Reference Group (WMCRG).

KEY POINTS AND RECOMMENDATION(S)

- The term of the current members of the WMCRG expires on 31 August 2019.
- The WMCRG has a role to advise the EMRC on waste education initiatives and the Resource Recovery Project (Red Hill and Hazelmere).
- All existing members of the WMCRG have renominated for a further term of membership from 1 September 2019 with the exception of Ms Ruth Kendall (Deputy Chairman).
- The Tenure of Membership in the Terms of Reference (Attachment 1) created in 2002, at clause 6(a) states, "*Membership shall be for a period of 18 months, unless otherwise agreed, however, retiring members are eligible for re-appointment.*"
- It is recommended that with the requirements for the Community Waste Education program for upcoming projects including Food Organic and Garden Organic (FOGO) collection and processing and the development of the Hazelmere Resource Recovery Park, the tenure of membership be extended to a period of two (2) years, rather than the eighteen (18) months (Attachment 3).

Recommendation(s)

That Council:

1. Write to Ms Ruth Kendall the Deputy Chairman acknowledging her service on the WMCRG since its inception.
2. Endorse the renomination of the following WMCRG members for a two (2) year term expiring on 31 August 2021 and acknowledge their continuing support.
 - Ms Dianne Katscherian (Chairman);
 - Mr Anthony Fowler
 - Ms Belinda Hamilton
 - Ms Carmel Luck.
 - Mr Edwin Dell;
 - Mr Malcolm Barker;
 - Mr Mark Simpson; and
 - Mr Ray Lewis.
3. Accept the amended Terms of Reference and Roles of Members and Officers forming (Attachment 2) to this report.

SOURCE OF REPORT

Director Waste Services



Item 11.2 continued

BACKGROUND

The WMCRG was formed in 2002 with membership drawn from the member Council areas.

The purpose of the WMCRG is to:

- a. Provide ongoing input and feedback to Council through the Waste Advisory Committee (WAC) formerly the Resource Recovery Committee (RRC) on the Community Waste Education Program;
- b. Assist the EMRC with the development of further educational (i.e. communicative, participatory, consultative) requirements for the Community Waste Education Program, by identifying the information needs of different groups in the community;
- c. Provide feedback on the development of key performance indicators for the ongoing monitoring of the Community Waste Education Program;
- d. Assess the social, environmental, economic and technical issues associated with proposed resource recovery technologies and report to the WAC;
- e. Provide advice and recommendations to Council, through the WAC, on issues associated with resource recovery technologies including site selection and technology selection; and
- f. Work with the environmental, social and economic sectors in an inclusive manner to achieve balanced outcomes for future waste management in the region.

REPORT

The WMCRG has a core of long serving members who have continued to provide support and feedback to the EMRC in its waste education program and Resource Recovery Project. The membership of the WMCRG has been declining in recent years but has now stabilised with a group of eight (8) members.

The term of the current members of the WMCRG expires on 31 August 2019 and so in accordance with the Terms of Reference of the WMCRG, existing members were invited to renominate for another term of two (2) years, amended from the previous eighteen (18) months terms.

All existing members of the WMCRG, with the exception of Ms Kendall, have renominated for a further term of membership from 1 September 2019. Ms Kendall has declined to renominate as she has lived outside the EMRC region for a while now and feels certain there will be local people who would embrace the chance to join the committee and have their voice heard on local issues on waste and recycling. Ms Kendall has served as a member of the WMCRG since its inception in 2003.

The current cohort is an adequate representation of community views across the Region. The existing members were based on their interest in waste management and waste education as well as their connection with other community groups.



Item 11.2 continued

The renominating existing members of the WMCRG are:

- Ms Dianne Katscherian (Chairman);
- Mr Anthony Fowler;
- Ms Belinda Hamilton;
- Ms Carmel Luck;
- Mr Edwin Dell;
- Mr Malcolm Barker;
- Mr Mark Simpson; and
- Mr Ray Lewis.

It is proposed to renew their memberships for a further term ending on 31 August 2021.

With the impending departure of Ms Kendall, members of the EMRC Earth Carers group could be approached to nominate for a term on the WMCRG. Earth Carers are members of the community who take part in the Earth Carers course to learn practical ways of reducing waste at home and in the community. Through the completion of the Earth Carers course, Earth Carers join a community of like-minded people and help to promote waste minimisation in the local community.

The Earth Carers course consists of five (5) sessions over three (3) weeks and are targeted to local regional waste specific knowledge with includes: guided tours, making your own green cleaning products, composting and worm farming demonstrations, learning what can be recycled in the community and tips to encourage others to reduce waste. At the end of the course, participants who have completed all sessions are utilised by the EMRC Waste Education staff to assist and volunteer at community events such as, the Perth Royal Show and Garden Week. The EMRC has been running this program since 2009 and holds two (2) training workshop sessions per year.

A separate report will be made to Council in the near future to propose expanding the list of membership to recruit additional members from member Councils who may be under-represented or not represented.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.3 To provide resource recovery and recycling solutions in partnership with member Councils

FINANCIAL IMPLICATIONS

Nil

SUSTAINABILITY IMPLICATIONS

The Resource Recovery Facility and/or Resource Recovery Park will contribute toward minimising the environmental impact of waste by facilitating the sustainable use and development of resources.



Item 11.2 continued

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
City of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

1. Terms of Reference and Roles of Members and Officers - Tracked Changes (Ref: D2019/07919)
2. Terms of Reference and Roles of Members and Officers - Final (Ref: D2019/07697)

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That Council:

1. Write to Ms Ruth Kendall the Deputy Chairman acknowledging her service on the WMCRG since its inception.
2. Endorse the renomination of the following WMCRG members for a two (2) year term expiring on 31 August 2021 and acknowledge their continuing support.
 - Ms Dianne Katscherian (Chairman);
 - Mr Anthony Fowler;
 - Ms Belinda Hamilton;
 - Ms Carmel Luck;
 - Mr Edwin Dell;
 - Mr Malcolm Barker;
 - Mr Mark Simpson; and
 - Mr Ray Lewis.
3. Accept the amended Terms of Reference and Roles of Members and Officers forming (Attachment 2) to this report.



Item 11.2 continued

Discussion ensued

Cr Palmer requested that the membership be extended to the wider community as waste has become a very popular topic.

The Director Waste Services advised that within the Terms of Reference the current WMCRG members are eligible to renominate for membership. Members have been invited to renominate and all have accepted, apart from Ms Kendall. He advised that as not all member Councils are currently represented, the invitation to the wider community will help to ensure every council is represented on the group.

Cr Palmer moved an additional recommendation to be added to the officer recommendations to seek greater community representation with the following additional point 4.

“(That Council:) advertise for Expressions of Interest for additional membership in the WMCRG.”

Cr Mykytiuk seconded the additional recommendation.

ALTERNATIVE RECOMMENDATION(S)

That Council:

1. Write to Ms Ruth Kendall the Deputy Chairman acknowledging her service on the WMCRG since its inception.
2. Endorse the renomination of the following WMCRG members for a two (2) year term expiring on 31 August 2021 and acknowledge their continuing support.
 - Ms Dianne Katscherian (Chairman);
 - Mr Anthony Fowler;
 - Ms Belinda Hamilton;
 - Ms Carmel Luck;
 - Mr Edwin Dell;
 - Mr Malcolm Barker;
 - Mr Mark Simpson; and
 - Mr Ray Lewis.
3. Accept the amended Terms of Reference and Roles of Members and Officers forming (Attachment 2) to this report.
4. Advertise for Expressions of Interest for additional membership in the WMCRG.



Item 11.2 continued

WAC RECOMMENDATION(S)

MOVED CR PALMER

SECONDED CR MYKYTIUK

That Council:

1. Write to Ms Ruth Kendall the Deputy Chairman acknowledging her service on the WMCRG since its inception.
2. Endorse the renomination of the following WMCRG members for a two (2) year term expiring on 31 August 2021 and acknowledge their continuing support.
 - Ms Dianne Katscherian (Chairman);
 - Mr Anthony Fowler;
 - Ms Belinda Hamilton;
 - Ms Carmel Luck;
 - Mr Edwin Dell;
 - Mr Malcolm Barker;
 - Mr Mark Simpson; and
 - Mr Ray Lewis.
3. Accept the amended Terms of Reference and Roles of Members and Officers forming (Attachment 2) to this report.
4. Advertise for Expressions of Interest for additional membership in the WMCRG.

CARRIED UNANIMOUSLY

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

(Tracked Changes)

1. GROUP FORMATION

The Reference Group is formed by the Eastern Metropolitan Regional Council (EMRC) for the purposes indicated in these Terms of Reference.

2. GROUP NAME

The Reference Group shall be known as the "Waste Management Community Reference Group" (hereinafter referred to as the WMCRG).

3. GROUP PURPOSE

The WMCRG shall:

- a. Provide ongoing input and feedback to Council through the ~~Resource Recovery Committee (RRC)~~ Waste Advisory Committee (WAC), formerly the Resource Recovery Committee (RRC) which was disbanded on 21 March 2019, on the Community Waste Education Program;
- b. Assist the EMRC with the development of further educational (ie. communicative, participatory, consultative) requirements for the Community Waste Education Program, by identifying the information needs of different groups in the community;
- c. Provide feedback on the development of key performance indicators for the ongoing monitoring of the Community Waste Education Program;
- d. Assess the social, environmental, economic and technical issues associated with proposed resource recovery technologies and report to the ~~RRC~~ RRCWAC;
- e. Provide advice and recommendations to Council, through the ~~RRC~~ RRCWAC, on issues associated with resource recovery technologies including site selection and technology selection; and
- f. Work with the environmental, social and economic sectors in an inclusive manner to achieve balanced outcomes for future waste management in the region.

4. EMRC COMMITMENT

The EMRC is committed to providing opportunities for public involvement in its Resource Recovery project for the Eastern metropolitan region. Public involvement in this process will be multi faceted, typically incorporating a mix of educational, consultative and participatory methods.

Ref: ~~D2019 07573 (Revision 1) WAC - Waste Advisory Committee - Item 11.2 - Attachment Terms of Reference and Roles of Members and Officers - 06 06 2019.doc~~ D2018-02574 - Terms of Reference and Roles of Members and Officers - WMCRG - Waste Management Community Reference Group - 17 November 2014 Word.DOC

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

5. GROUP MEMBERSHIP

- a. The WMCRG shall consist of up to fifteen (15) members not including relevant EMRC staff (ie Waste Education Coordinator and Manager ~~Project Development Resource Recovery~~ and ~~RRC-WAC~~ members where appropriate) and a facilitator (as required).
- b. The ~~RRC-WAC~~ and the WMCRG may together consider the inclusion of others who have not sought to nominate at the initial stages but who may have an interest in participating at a later date.
- c. Membership shall be by invitation based on Expressions of Interest. Members shall be appointed by the EMRC or by the ~~RRC-WAC~~ based on the following:
 - Up to five (5) representatives from the social sector, with nominations to be approved by the ~~RRCWAC~~;
 - Up to five (5) representatives from the economic sector, with nominations to be approved by the ~~RRCWAC~~; and
 - Up to five (5) representatives from the environmental sector, with nominations to be approved by the ~~RRCWAC~~.
- d. Members shall be selected from residents or non-resident property owners in the member Councils of the EMRC or alternatively, people with appropriate qualifications and background may be co-opted as WMCRG members.

6. TENURE OF MEMBERSHIP

- a. Membership shall be for a period of ~~18 months~~ two (2) years, unless otherwise agreed, however, retiring members are eligible for re-appointment.
- b. Members may apply for a leave of absence of not more than four (4) consecutive regular monthly meetings.
- c. Leave of absences can be approved by the WMCRG.
- d. Where a person is appointed as a member of the WMCRG the person's membership on the WMCRG continues until:
 - The term of the person's appointment as a WMCRG member expires;
 - The EMRC removes the person from the WMCRG or the position of a WMCRG member otherwise becomes vacant;
 - The WMCRG is disbanded or;
 - A WMCRG member is absent from more than three (3) regular monthly meetings without being granted a leave of absence.Whichever happens first.
- e. Nominations will be reviewed by the EMRC or the ~~RRC-WAC~~ after ~~18 months~~ two (2) years of operation.
- f. The call for nominations will be initiated by the EMRC four (4) months prior to membership renewal date.

Ref: ~~D2019 07573 (Revision 1) WAC - Waste Advisory Committee - Item 11.2 - Attachment Terms of Reference and Roles of Members and Officers - 06 06 2019.doc~~D2018-02574 - Terms of Reference and Roles of Members and Officers - WMCRG - Waste Management Community Reference Group - 17 November 2014 Word.DOC

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

- g. Nominees will be confirmed by the EMRC or the ~~RRC-WAC~~ one (1) month prior to membership renewal.
- h. Where there is a shortfall in the membership of persons appointed to the WMCRG, the EMRC or the ~~RRC-WAC~~ will initiate a selection process for additional members.
- i. Re-appointment and re-nominations to the WMCRG will be approved by Council.
- j. The organisations of the various sectors from which EMRC may seek nominations include, but are not limited to:
 - Social Sector – Service Groups, Recreation Associations, Ratepayer Associations, Community Groups, other Interest Groups and Householders;
 - Economic Sector – Chamber of Commerce, Business Associations, Tourism Associations, Groups or Individuals with Business Interests;
 - Environmental Sector – Environmental Groups, Peak Environmental Organisations, Landcare Groups, Catchment Groups, Groups or Individuals with Environmental Interests.

7. GROUP MEETINGS

- a. Ordinary meetings of the WMCRG shall be held on a monthly basis initially, commencing in July 2002. Frequency of meetings may be adjusted by the WMCRG.
- b. Meeting location shall be at the EMRC. However, the WMCRG may, by resolution, decide to hold meetings at another place regularly, or from time to time.
- c. Meetings shall normally commence at 6.00pm unless otherwise resolved by the WMCRG.
- d. Administrative support and meeting requirements for the WMCRG shall be provided by the EMRC.
- e. Special meetings of the WMCRG may be convened by:
 - The WMCRG by resolution; or
 - The EMRC; or
 - The ~~RRCWAC~~.
- f. On the scheduling of special meetings by the EMRC or the ~~RRCWAC~~, written notice will be given to all members of the WMCRG not less than seven (7) days before the meeting and advising of the matter to be discussed at the meeting.

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

8. INVITEES

- a. Meetings will be open to the public unless otherwise determined by the WMCRG.
- b. The Chairperson of the WMCRG may invite individuals or representatives from appropriate organisations to observe the proceedings of WMCRG meetings or to provide advice to the WMCRG on matters being considered by the WMCRG.
- c. Such persons shall not be entitled to vote on any decision arising out of that meeting.
- d. The WMCRG may close to members of the public the meeting, or part of the meeting, if the meeting or the part of the meeting deals with any of the following:
 - A matter affecting an employee or employees;
 - The personal affairs of any person;
 - A contract entered into, or which may be entered into, by the WMCRG and which relates to a matter to be discussed at the meeting;
 - Legal advice obtained, or which may be obtained, by the EMRC and which relates to a matter to be discussed at a meeting;
 - A matter that if disclosed, would reveal:
 - a) A trade secret;
 - b) Information that has a commercial value to a person; or
 - c) Information about the business, professional, commercial or financial affairs of the person.
 - Where the trade secret or information is held by, or is about, a person other than the local government.
- e. The WMCRG may resolve to close the meeting to the public to consider confidential matters.
- f. If the meeting is closed to members of the public, the WMCRG has the right to determine if members of the public can remain.
- g. At the discretion of the Chairperson, consultants remaining when the meeting is closed to the public, may be required to sign a confidentiality agreement prior to the meeting proceeding.
- h. A decision to close a meeting or part of meeting and the reason for the decision are to be recorded in the minutes of the meeting.
- i. Question Time for the Public
 - The WMCRG will allow appropriate questions from the public;
 - Time is to be allocated for questions to be raised by members of the public and responded to at the meeting of the WMCRG of which the question was asked;
 - The question must relate to a function of the WMCRG;
 - A minimum of 15 minutes is to be allowed;
 - The Chairperson determines the procedure to follow;
 - Question time must precede any decision making process of the WMCRG; and

Ref: [D2019 07573 \(Revision 1\) WAC - Waste Advisory Committee - Item 11.2 - Attachment Terms of Reference and Roles of Members and Officers - 06 06 2019.doc](#)[D2018-02574 Terms of Reference and Roles of Members and Officers - WMCRG - Waste Management Community Reference Group - 17 November 2014 Word.DOC](#)

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

- A summary of the question and answers must be included in the minutes.

Ref: D2019 07573 (Revision 1) WAC - Waste Advisory Committee
- Item 11.2 - Attachment Terms of Reference and Roles of
Members and Officers - 06 06 2019.docD2018-02574 Terms of
Reference and Roles of Members and Officers - WMCRG - Waste
Management Community Reference Group - 17 November 2014
Word.DOC

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

9. MINUTES OF MEETINGS

- a. The EMRC will provide administrative support for the keeping of minutes.
- b. The Chairperson of the WMCRG is to ensure that minutes are kept of the meeting's proceedings.
- c. The minutes of a meeting of the WMCRG are to be submitted to the next ordinary meeting of the **RRCWAC**, as the case requires, for confirmation.
- d. The Chairperson of the WMCRG is to verify the minutes prior to their circulation to the WMCRG.
- e. Minutes shall be distributed to all members of the WMCRG and to any other person at the discretion of the EMRC.
- f. The minutes of the meeting shall be referred to the **RRC-WAC** for consideration of any recommendations.
- g. Recommendations from the WMCRG shall be effective only after adoption by the EMRC.

10. QUORUM FOR MEETINGS

- a. The quorum for meetings of the WMCRG shall be at least 50% of the total number of members of the WMCRG.
- b. A recommendation of the WMCRG does not have effect unless it has been made by a simple majority unless otherwise required.

11. VOTING

- a. Each WMCRG member who is present at a meeting of the WMCRG is entitled to one vote.
- b. If the votes of WMCRG members present at a meeting are equally divided, the Chairperson may cast a second vote.
- c. If a WMCRG member specifically requests that there be recorded:
 - his or her vote; or
 - the vote of all members present;on a matter voted on at a WMCRG meeting, the Chairperson is to cause the vote or votes, as the case may be, to be recorded in the minutes.
- d. All other aspects related to voting procedure shall be consistent with relevant sections of the EMRC Standing Orders, Local Law 1998.

Ref: [D2019 07573 \(Revision 1\) WAC - Waste Advisory Committee - Item 11.2 - Attachment Terms of Reference and Roles of Members and Officers - 06 06 2019.doc](#)[D2018 02574 Terms of Reference and Roles of Members and Officers - WMCRG - Waste Management Community Reference Group - 17 November 2014 Word.DOC](#)

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
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12. MEETING RULES

a. Meeting Procedure

- All meetings shall be held in accordance with the principles of Council's By-laws Relating to Standing Orders, in summary, these include:
 - The need to see a quorum is present;
 - To ensure voting is always conducted so that no person's vote is secret;
 - To ensure the names of members present are recorded;
 - To ensure observers do not vote;
 - To record when members arrive at and leave meetings;
 - To ensure that only those matters within the terms of reference of the WMCRG are discussed at WMCRG meetings;
 - To ensure the names of movers (and seconders) of all motions are recorded;
 - To ensure declarations of financial and proximity interests or interests affecting impartiality and the nature of any interest are recorded;
 - To ensure that the minutes of any previous meetings are confirmed and signed; and
 - To declare meetings open or closed or adjourned where appropriate.
- The Chairperson must ensure that the principles of the local laws relating to the conduct of meetings are understood and complied with.
- The WMCRG is to remain focussed on issues related to resource recovery, ensuring that all items tabled and discussed are consistent with the terms of reference.
- For matters not included within the agenda refer to item 3.19 of the EMRC Standing Orders.

13. ELECTION OF CHAIRPERSON

- a. The members of the WMCRG are to elect a chairperson from amongst themselves.
- b. The members of the WMCRG are to elect a deputy chairperson from amongst themselves.
- c. If in relation to the Chairperson of the WMCRG, the Chairperson is not available or is unable or unwilling to perform the functions of Chairperson, then the deputy Chairperson, if any, may perform the functions of the Chairperson.
- d. If in relation to the Chairperson of the WMCRG, the deputy Chairperson is not available or is unable or unwilling to perform the functions of Chairperson, then the WMCRG members present at the meeting are to choose one of themselves to preside at the meeting.
- e. An independent facilitator may be engaged to facilitate discussion.

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
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- a. The Chairperson will chair meetings of the WMCRG, verify minutes and act as a point of contact for the EMRC officer responsible for assisting with these duties.
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 - The possibility of casting a second vote if there is a tied vote of members;
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 - To see that meetings are open to the public where agreed upon by the WMCRG members and are only closed in accordance with the provisions set out in clause 8 of these terms of reference; and
 - To see that question time is being dealt with in accordance with the guidelines and EMRC Standing Orders.

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- a. Bring to the WMCRG their expertise and experience to assist the WMCRG by way of recommendations to the RRG-WAC to assist the RRG-WAC make recommendations in the areas covered by the terms of reference.
- b. Debate issues relevant to the terms of reference.
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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

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- b. To provide technical support.
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20. INSURANCE COVER

WMCRG members are covered by the EMRC's Personal Accident/Volunteers insurance policy as outlined hereunder and which may be amended from time to time. Whilst whilst engaged on the authorised business of the WMCRG and under the supervision of the WMCRG whilst travelling directly to or from such business.

● Personal Accident and Travel

- ~~i. Whilst engaged on business of the WMCRG and under the control of the WMCRG including whilst travelling directly to or from such business.~~
- ~~ii. Cover comprises a lump sum payout for defined events — i.e. death, loss of limb, loss of sight, etc and reimbursement for medical expenses which are not reclaimable from Medicare (either in full or in part).~~

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

TABLE OF BENEFITS

Insured Events Injury resulting directly in:		The Compensation (being a % of the sum insured stated in the Schedule = \$200,000)
1. — Death	1	\$200,000
2. — Permanent total disablement (income earners only)	2	\$200,000
3. — Permanent and incurable paralysis of all limbs (Quadriplegia)	3	\$200,000
4. — Permanent total loss of sight of both eyes	4	\$200,000
5. — Permanent total loss of sight in one eye	5	\$200,000
6. — Permanent total loss of use of two limbs (paraplegia)	6	\$200,000
7. — Permanent total loss of use of one limb	7	\$200,000
8. — Permanent and incurable insanity	8	\$200,000
9. — Permanent total loss of hearing in:		
a. — both ears	9a	\$200,000
b. — one ear	9b	\$100,000
10. — Permanent total loss of four fingers and thumb of either hand	10	\$150,000
11. — Permanent total loss of the lens of one eye	11	\$100,000
12. — Permanent total loss of use of four fingers of either hand	12	\$100,000
13. — Third degree burns and /or resultant disfigurement which covers more than 40% of the entire external body	13	\$100,000
14. — Permanent total loss of use of one thumb of either hand		
a. — three joints	15a	\$30,000
b. — two joints	15b	\$30,000
c. — one joint	15c	\$10,000
15. — Permanent total loss of use of toes or either foot:		
a. — all — one foot	16a	\$30,000
b. — great — both joints	16b	\$10,000
c. — great — one joint	16c	\$6,000
d. — other than great, each toe	16d	\$2,000
16. — Fractured leg or patella with established non union	17	\$20,000
17. — Shortening of leg by at least 5cm	18	\$20,000
18. — Permanent disability not otherwise provided for under insured	19	Such % as determined but not inconsistent with benefits for 9 to 18 inclusive but not exceeding \$150,000 of the capital sum insured.
Events 9 to 18 inclusive		

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21. WMCRC EXPENSES REIMBURSEMENT

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

- a. Expenses of WMCRG members will be met by the EMRC for return travel from their normal residence to meetings of the WMCRG.
- b. Travel expenses will be calculated in accordance with current EMRC procedures and submitted to the EMRC responsible officer for reimbursement.

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

(Final)

1. GROUP FORMATION

The Reference Group is formed by the Eastern Metropolitan Regional Council (EMRC) for the purposes indicated in these Terms of Reference.

2. GROUP NAME

The Reference Group shall be known as the "Waste Management Community Reference Group" (hereinafter referred to as the WMCRG).

3. GROUP PURPOSE

The WMCRG shall:

- a. Provide ongoing input and feedback to Council through the Waste Advisory Committee (WAC), formerly the Resource Recovery Committee (RRC) which was disbanded on 21 March 2019, on the Community Waste Education Program;
- b. Assist the EMRC with the development of further educational (ie. communicative, participatory, consultative) requirements for the Community Waste Education Program, by identifying the information needs of different groups in the community;
- c. Provide feedback on the development of key performance indicators for the ongoing monitoring of the Community Waste Education Program;
- d. Assess the social, environmental, economic and technical issues associated with proposed resource recovery technologies and report to the WAC;
- e. Provide advice and recommendations to Council, through the WAC, on issues associated with resource recovery technologies including site selection and technology selection; and
- f. Work with the environmental, social and economic sectors in an inclusive manner to achieve balanced outcomes for future waste management in the region.

4. EMRC COMMITMENT

The EMRC is committed to providing opportunities for public involvement in its Resource Recovery project for the Eastern metropolitan region. Public involvement in this process will be multi faceted, typically incorporating a mix of educational, consultative and participatory methods.

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

5. GROUP MEMBERSHIP

- a. The WMCRG shall consist of up to fifteen (15) members not including relevant EMRC staff (ie Waste Education Coordinator and Manager Resource Recovery and WAC members where appropriate) and a facilitator (as required).
- b. The WAC and the WMCRG may together consider the inclusion of others who have not sought to nominate at the initial stages but who may have an interest in participating at a later date.
- c. Membership shall be by invitation based on Expressions of Interest. Members shall be appointed by the EMRC or by the WAC based on the following:
 - Up to five (5) representatives from the social sector, with nominations to be approved by the WAC;
 - Up to five (5) representatives from the economic sector, with nominations to be approved by the WAC; and
 - Up to five (5) representatives from the environmental sector, with nominations to be approved by the WAC.
- d. Members shall be selected from residents or non-resident property owners in the member Councils of the EMRC or alternatively, people with appropriate qualifications and background may be co-opted as WMCRG members.

6. TENURE OF MEMBERSHIP

- a. Membership shall be for a period of two (2) years, unless otherwise agreed, however, retiring members are eligible for re-appointment.
- b. Members may apply for a leave of absence of not more than four (4) consecutive regular monthly meetings.
- c. Leave of absences can be approved by the WMCRG.
- d. Where a person is appointed as a member of the WMCRG the person's membership on the WMCRG continues until:
 - The term of the person's appointment as a WMCRG member expires;
 - The EMRC removes the person from the WMCRG or the position of a WMCRG member otherwise becomes vacant;
 - The WMCRG is disbanded or;
 - A WMCRG member is absent from more than three (3) regular monthly meetings without being granted a leave of absence.Whichever happens first.
- e. Nominations will be reviewed by the EMRC or the WAC after two (2) years of operation.
- f. The call for nominations will be initiated by the EMRC four (4) months prior to membership renewal date.
- g. Nominees will be confirmed by the EMRC or the WAC one (1) month prior to membership renewal.

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

- h. Where there is a shortfall in the membership of persons appointed to the WMCRG, the EMRC or the WAC will initiate a selection process for additional members.
- i. Re-appointment and re-nominations to the WMCRG will be approved by Council.
- j. The organisations of the various sectors from which EMRC may seek nominations include, but are not limited to:
 - Social Sector – Service Groups, Recreation Associations, Ratepayer Associations, Community Groups, other Interest Groups and Householders;
 - Economic Sector – Chamber of Commerce, Business Associations, Tourism Associations, Groups or Individuals with Business Interests;
 - Environmental Sector – Environmental Groups, Peak Environmental Organisations, Landcare Groups, Catchment Groups, Groups or Individuals with Environmental Interests.

7. GROUP MEETINGS

- a. Ordinary meetings of the WMCRG shall be held on a monthly basis initially, commencing in July 2002. Frequency of meetings may be adjusted by the WMCRG.
- b. Meeting location shall be at the EMRC. However, the WMCRG may, by resolution, decide to hold meetings at another place regularly, or from time to time.
- c. Meetings shall normally commence at 6.00pm unless otherwise resolved by the WMCRG.
- d. Administrative support and meeting requirements for the WMCRG shall be provided by the EMRC.
- e. Special meetings of the WMCRG may be convened by:
 - The WMCRG by resolution; or
 - The EMRC; or
 - The WAC.
- f. On the scheduling of special meetings by the EMRC or the WAC, written notice will be given to all members of the WMCRG not less than seven (7) days before the meeting and advising of the matter to be discussed at the meeting.

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

8. INVITEES

- a. Meetings will be open to the public unless otherwise determined by the WMCRG.
- b. The Chairperson of the WMCRG may invite individuals or representatives from appropriate organisations to observe the proceedings of WMCRG meetings or to provide advice to the WMCRG on matters being considered by the WMCRG.
- c. Such persons shall not be entitled to vote on any decision arising out of that meeting.
- d. The WMCRG may close to members of the public the meeting, or part of the meeting, if the meeting or the part of the meeting deals with any of the following:
 - A matter affecting an employee or employees;
 - The personal affairs of any person;
 - A contract entered into, or which may be entered into, by the WMCRG and which relates to a matter to be discussed at the meeting;
 - Legal advice obtained, or which may be obtained, by the EMRC and which relates to a matter to be discussed at a meeting;
 - A matter that if disclosed, would reveal:
 - a) A trade secret;
 - b) Information that has a commercial value to a person; or
 - c) Information about the business, professional, commercial or financial affairs of the person.
 - Where the trade secret or information is held by, or is about, a person other than the local government.
- e. The WMCRG may resolve to close the meeting to the public to consider confidential matters.
- f. If the meeting is closed to members of the public, the WMCRG has the right to determine if members of the public can remain.
- g. At the discretion of the Chairperson, consultants remaining when the meeting is closed to the public, may be required to sign a confidentiality agreement prior to the meeting proceeding.
- h. A decision to close a meeting or part of meeting and the reason for the decision are to be recorded in the minutes of the meeting.
- i. Question Time for the Public
 - The WMCRG will allow appropriate questions from the public;
 - Time is to be allocated for questions to be raised by members of the public and responded to at the meeting of the WMCRG of which the question was asked;
 - The question must relate to a function of the WMCRG;
 - A minimum of 15 minutes is to be allowed;
 - The Chairperson determines the procedure to follow;
 - Question time must precede any decision making process of the WMCRG; and
 - A summary of the question and answers must be included in the minutes.

WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
Terms of Reference and Roles of Members and Officers

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WASTE MANAGEMENT COMMUNITY REFERENCE GROUP
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21. WMCRG EXPENSES REIMBURSEMENT

- a. Expenses of WMCRG members will be met by the EMRC for return travel from their normal residence to meetings of the WMCRG.
- b. Travel expenses will be calculated in accordance with current EMRC procedures and submitted to the EMRC responsible officer for reimbursement.



11.3 AORA 2019 ANNUAL CONFERENCE HELD 1 – 3 MAY 2019

REFERENCE: D2019/07423

PURPOSE OF REPORT

The purpose of this report is to convey the outcomes of attending the Australian Organics Recycling Association Limited (AORA) 2019 Annual Conference held at The Esplanade, Fremantle from 1 to 3 May 2019.

KEY POINTS AND RECOMMENDATION(S)

- EMRC staff including the Director Waste Services, the Manager Engineering and Waste Operations and the Manager Environmental Operations attended the Australian Organics Recycling Association Limited (AORA) 2019 Annual Conference held in Fremantle from 1 to 3 May 2019.
- The conference included an equipment demonstration day at Richgro in Jandakot and two (2) days of paper presentations.
- Information presented at the equipment demonstration day, the paper presentations and expo will be used in the development of the Food Organic and Garden Organic (FOGO) project at the Red Hill Waste Management Facility.

Recommendation(s)

That the report be received.

SOURCE OF REPORT

Director Waste Services.

BACKGROUND

The EMRC is a member of the Australian Organics Recycling Association Limited (AORA) and attend regular meetings of the group and took the opportunity to attend the national conference in Fremantle between 1 and 3 May 2019. Officers from the Town of Bassendean also attended the conference.

REPORT

The first day of the conference was devoted to an equipment demonstration day held at the premises of Richgro in Jandakot. Equipment demonstrated included:

- Windrow turners, screens and loaders;
- Excavators, grinders and other equipment;
- Mobile sorting station; and
- A tour of the Biogas Renewables anaerobic digestion plant.

On the second and third days of the conference there were excellent presentations from:

- Dr Sally Brown, University of Washington – the role of compost in a circular economy;
- Dr Ash Martin, Declan McDonald and Andrew Dougall on renewing soils;
- Rowan Williams of BASF and Warwick Hall on the production of certified compostable bioplastics;
- Charlie Emery of SOILCO on whether compostable packaging can be a feedstock in a FOGO composting process;



Item 11.3 continued

- Dr Daniele de Rosa, Dr Shao Yap and Aidan Chin – AORA Student Research awards on their research projects into advancing organics recycling;
- Marcus Giesler on the WARR Strategy 2030;
- Dr Surya Bhattarai of Central Queensland University on incorporating biochar into poultry feed to make carbon rich fertiliser products;
- Prof Ji Li, China Agricultural University on the current status and the history of the composting industry in China;
- Dr Darren Perrin of Ricardo Energy & Environment on the circular economy journey for Lend lease, including exploring the role of combined FOGO collections versus separate Food Organic (FO) collections and Garden Organic (GO) collections;
- Marco Ricci-Jurgensen of the Italian Composting and Biogas Association on the lessons of separate food waste, green waste and organics recycling in Italy over 20 years; and
- Eric Paulsen of Cemac Technologies on new developments in compost clean-up technologies.

Key points raised by the presenters of relevance to EMRC were:

1. There is a lot of collection and processing of FOGO waste in the eastern states and lessons to be learned from their experience
2. Separate food waste and green waste collections can give a higher recovery of organics overall compared to FOGO and allow the FO to be used in anaerobic digestion (AD).
3. Potential value of adding biochar into the poultry industry. The “Green Chicken” Project is researching addition of biochar to poultry to increase animal production, reduce nitrogen loss from animal litter, improve composting and granulation and, improving the value of manure as a fertiliser.
4. Contamination of FOGO and the limitations of what can be done with a low value product.
5. The importance of source separation – put the onus on individuals up front by providing a four (4) bin system.
6. Regulate the percentage of contamination with contracts/contractors in a staged annual way, so that there is a gradual reduction in contamination levels permitted.
7. Education is a key component in the success of organics recycling and needs a multi-faceted approach which would probably be closer to one (1) year to achieve desired levels.
8. There are currently no Australian standards on input of organics – there is a need to get a standardised approach by certified auditors.
9. FOGO as a combined collection is less ideal than source separated food and garden organics. We need to learn from examples and experiences from others who have already been down this path.
10. BASF Ecovio plastics breakdown completely within 6 to 8 weeks and we can have complete confidence in the certifications of BASF (eg AS 4736).
11. PET (plastic drink bottles) packaging can't be compostable because it is not a breathable polymer.
12. Biodegradable plastic is meaningless unless you include the conditions under which it is biodegradable.
13. Soilco produce organic soil improvers for horticulture in the south coast region of NSW. They have 35 years' experience and manufacture 85,000 tpa of products from garden, timber and food waste at facilities in Nowra and Kembla Grange using enclosed aeration (14 days), followed by aerated turned piles (28-42 days). They are certified to ISO9001 (see www.soilco.com.au).
14. Ms Virginia Brunton, Albury, NSW discussed the rollout of FOGO in their city in 2015. Aim was 30% recovery, launched education program 1 year in advance of rollout, utilised a celebrity chef to help with awareness campaign, 30 sec TV ads, YouTube commercials, bus backs, billboards etc. The program was done in four languages but less demand for that now. Achieved 0.4/0.5% contamination rate (always below 1%). Achieving 78% organics recovery. What they do and say in the program matches what happens at the recovery centre.



Item 11.3 continued

15. Darren Perrin from Ricardo Energy related the Welsh story – “One Wales: One Planet” which is the Welsh Government’s sustainable development scheme from 2009. The aim is to achieve recycling of 70% by 2024/25, currently 62%. The Welsh Government undertook extensive research to identify the best collection for its local authorities to achieve these high recycling rates. The Collections Blueprint recommended a service profile of – weekly separate collection of dry recyclables via kerbside sort; weekly separate collection food waste; the use of modern lightweight multi-compartment vehicles for a single pass collection and fortnightly collection of residual waste.
16. Dr Perrin explained the proposed circular economy model for Yarrabilba near Brisbane, a new generation master planned community which will be home to over 45,000 residents on completion. Surrounded by Plunkett Conservation Reserve and on the doorstep of Mt Tamborine, Yarrabilba is perfectly positioned between Brisbane’s CBD and the Gold Coast. Waste will be a four bin system.
17. With garden organics and food organics collected separately and the aim of using 73% of waste sent to landfill in a circular economy model.
18. Mr Marco Ricci-Jurgesen joined the conference by Skype from Italy and related the story of separate food collections which will be mandatory by 2023. There is door to door collection of food waste, increased use of AD and biomethane production.
19. Ms Alison Colella from Canada said they are achieving 40 to 60% diversion rates in Canada. Composting is done using static pile Gore composting at the Walker facility and there is a dry AD facility at Surrey (115,000 tpa) producing biofuel for the transport fleet. At Halifax they have 2 compost facilities under procurement which will be AD or composting. Toronto has two facilities (Disco Road 75,000 tpa and Differin – 55,000 tpa) with co-digestion of food waste and waste water treatment plant waste.
20. Prof. Ji Li said there were 4,000 composting plants in China, both large scale and on-farm. A lot of innovation was occurring with emphasis on rapid, closed, automatic controls and integration with biogas, gasification etc. A lot of work was being done to understand the functions of compost its effects on reducing soil-born diseases and rebuilding soil health.

Overall this was an informative conference of strategic relevance to the EMRC as we embark on our FOGO journey. Networking opportunities were good and the expo displays were all relevant. The next AORA national conference is in 2020 and being held in the Hunter Valley, NSW.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.1 To investigate leading edge waste management practices

FINANCIAL IMPLICATIONS

Nil

SUSTAINABILITY IMPLICATIONS

Nil



Item 11.3 continued

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
City of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

2019 AORA Annual Conference Program (Ref: D2019/07555).

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That the report be received.

WAC RECOMMENDATION(S)

MOVED CR MYKYTIUK

SECONDED MR STEWERT-DAWKINS

That the report be received.

CARRIED UNANIMOUSLY

CONFERENCE PROGRAM

Thursday 2nd May 2019

0800 Registration, tea and coffee

OPENING PLENARY

0900	Dave Cullen AORA WA	<i>Welcome and housekeeping</i>	
0910	Peter Wadewitz Chair, AORA	<i>Official welcome</i>	
0920	Representative from the office of the Hon Alannah MacTiernan MLC, Minister for Regional Development; Agriculture and Food; Ports	<i>Opening address</i>	
0935	Dr Sally Brown University of Washington (USA)	KEYNOTE PRESENTATION: <i>Compost: Multiple birds, one stone</i>	The answer is in front of you- stop obsessing about problems. Composting organics is a simple, cost effective solution to multiple problems. Diverting organics from landfills to windrows is the critical way to reduce carbon emissions from waste. Recognizing the value in this 'waste' is central to the circular economy, an emerging alternative model for a more sustainable society. And, most important, compost makes our soils stronger.

1030 Morning tea served in the Trade Exhibition

RENEWING SOILS

1100	Dr Ash Martin Microbiology Laboratories Australia	<i>Beneficial Microbes in Compost - Towards guidelines for product quality</i>	Day-to-day operational demands on compost production and regulatory focus on safety mean that the microbiological benefits of compost can be easily overlooked and are under-utilised as a marketable benefit to customers. Real world examples are presented along with how these traits can be benchmarked and used to promote the benefits to customers.
1130	Declan McDonald SESL Australia	<i>Optimising the benefits of vermiculture in commercial-scale vegetable farms</i>	This presentation reports on a 3 year HIA-funded project that looked at methods to enhance the contribution of worms to vegetable production. Central to the work was the addition of organic matter (including compost) to soils to enhance worms and overall biological function.
1200	Andrew Dougall Sustainability Victoria	<i>Regenerating subsoils by removing subsoil constraints, a significant opportunity for organics</i>	There are large areas of farmland where crops cannot access water and nutrients in the subsoil. This subsoil can be altered with organics to allow access by roots and increase yields (subsoil amelioration). This represents a large potential market for organics and subsequent reduction in the volume of organics entering landfill.

1230 Lunch served in the Trade Exhibition

ROLES OF PACKAGING

1330	Rowan Williams BASF	<i>Certified compostable bioplastics and their role in enabling circular economy</i>	The presentation will focus on the property of compostability at end of life, where biodegradation occurs through the presence of microorganisms and where the end of life is a controlled environment.
1350	Warwick Hall Australasian Bioplastics Association Inc	<i>The importance of Certification for the Organics Recycling Industry</i>	The presentation will focus on the Australian Standards covering biodegradable plastics suitable for composting and their relevance to the organics recycling industry. It will also cover how the standards can help manufacturers and distributors of organically recyclable plastics products to avoid misleading the consumer and attracting the attention of regulators.
1420	Charlie Emery SOILCO	<i>Food waste & compostable packaging as a facility feedstock for production of soil conditioners (compost)</i>	Certified compostable bags and packaging is designed to assist with diversion of food waste from landfill. Businesses and communities are implementing food waste collection programs and questioning recycling facility operators such as SOILCO if they will accept compostable packaging to boost participation and diversion. Is this a potential feedstock?
1450	Dr Helen Lewis Australian Packaging Covenant Organisation	<i>How the organics recycling industry can influence the implementation of the 2025 National Packaging Targets</i>	In 2018 APCO's Biodegradable and Compostable Packaging Working Group undertook research to identify drivers and barriers to the recovery of biodegradable and compostable packaging. APCO is seeking industry feedback on some of the priority projects identified by the working group.

1520 Afternoon tea served in the Trade Exhibition

REGENERATION & CELEBRATION

1600	Christopher Malan & Stefan Windisch ELB Equipment	<i>Platinum Sponsor Address & introduction to AORA Study Awards</i>	Komptech is proud to support the AORA Study Awards for Advancing Organics Recycling. The awards program aims to encourage students to undertake and excel in research designed to advance organics recycling activities and outcomes.
1610	AORA Student Research Awards for Advancing Organics Recycling	Dr Daniele de Rosa (PhD) - <i>Optimising the use of organic amendments in sub-tropical vegetable cropping systems for improved environmental and agronomic outcomes</i> Dr Shao Yap (PhD) - <i>Anaerobic reduction of solid manure residues</i> Aidan Chin (Honours) - <i>Sorbents can tailor nitrogen release from organic wastes to match the uptake capacity of crops</i>	
1700	Johannes Biala The University of Queensland	<i>Unlocking the true value of organic soil amendments</i>	The presentation will outline work that will be undertaken over the next four years to develop a farm-ready integrated nutrient calculator that will show nutrient and carbon inputs and availability from organic amendments over a 3-year cropping cycle, while also highlighting mineral fertiliser reductions and monetary savings.

1715 Close Day 2

1900 CONFERENCE DINNER

Friday 3rd May 2019

0800 Registration, tea and coffee

PROCESS RENEWAL

0830	Marcus Geisler WA Waste Authority	<i>Unpacking the WARR Strategy 2030 and Action Plan</i>	In February 2019, the Minister for Environment, Hon Stephen Dawson MLC released the Western Australian Waste Avoidance and Resource Recovery Strategy 2030 (Waste Strategy) as well as the first year priorities Action Plan. This presentation unpacks the guiding concepts, structure, approach, principles and our new objectives, targets and strategies.
0900	Virginia Brunton MRA Consulting Group	<i>Halve Waste - Setting the benchmark for community engagement in organics diversion</i>	The presentation highlights how a collaborative and wide-ranging community engagement program can achieve significant organics recovery.
0930	Dr Surya Bhattarai Central Queensland University	<i>Carbon smart fertiliser from green chicken</i>	Biogas incorporation into the poultry feed provides an innovative options for value adding to poultry waste by developing carbon rich fertiliser products
1000	Prof Ji Li China Agricultural University	<i>Current situation and development of the composting industry in China</i>	Aerobic composting was practiced quite early in China since 202 B.C. In the 1930s, a kind of fast composting concept was initiated by Chinese scientists called 'Yuanping' method and since 1949, the generation of organic solid wastes in China grew rapidly, however production of quality compost was limited. More recently, the Chinese government has launched a number of incentive policies to promote compost application in agriculture and it is anticipated that the composting industry in China is about to enter a rapid growth stage.

1030 Morning tea served in the Trade Exhibition

RESOURCING FOGO

1100	Dr Darren Perrin Ricardo Energy & Environment	<i>A circular approach to collection of organics and the role of FO and GO</i>	Outline the circular economy journey for Lendlease with a focus on circulating the organics within the development and the role of FOGO and alternative collection systems in helping to achieve that. It will explore the relative merits of combined FOGO and separate FO and GO informed by international research.
1130	Sam Oakden FIAL	<i>National Food Waste Strategy</i>	The National Food Waste Strategy is renewing and regenerating procedures and standards to halve Australia's food waste by 2030. Food Innovation Australia Limited is leading implementation of the Strategy to reinforce a circular economy of avoidance and moving up through a waste hierarchy of reuse, recycle, reprocess and energy recovery.
1200	Marco Ricci-Jurgensen Italian Composting and Biogas Association	<i>KEYNOTE PRESENTATION: Lessons learned in 20 years of successful separate collection of food-waste, green-waste and organics recycling in Italy</i>	The keynote will start by surveying the different collection schemes for food-only, food+garden and garden-only organics in Europe. It will then focus on results of successful implementation of organics collection schemes in two types of urban settlements (cities and semidetached housing). The impact of impurities in organic feedstock and the needs to correctly process compostable liners (in paper or bioplastics) at industrial composting and anaerobic digestion plants will be briefly described. The situation of the Italian market for compost and the role of independent quality assurance will be shown, together with the outlook for compost and biogas market in Italy.

1230 Lunch served in the Trade Exhibition

THE INNOVATION FRONTIER

1330	Eric Paulsen Cemac Technologies	<i>New developments in compost clean up technologies</i>	This presentation will focus on the latest development of sensor based sorting and the benefits of automating the process.
1400	Alison Colella GHD Limited	<i>The growth of organics collection and processing in Canada</i>	One of the most significant alterations in the waste management landscape in Canada has been the implementation of anaerobic digestion (AD) technologies for the management of organic wastes.
1430	Facilitated by Rose Read NWRIC	<i>Panel Discussion</i>	Panelists include: <ul style="list-style-type: none"> • Dr Sally Brown, University of Washington • Dr Darren Perrin, Ricardo Energy & Environment • Marcus Geisler, Chair, WA Waste Authority • Peter Wadewitz, AORA
1530	Peter Wadewitz AORA	<i>Closing remarks</i>	

1545 Conference close



11.4 ITEMS CONTAINED IN THE INFORMATION BULLETIN

REFERENCE: Ref: D2019/07436

The following items are included in the Information Bulletin, which accompanies the Agenda.

1. WASTE SERVICES

- 1.1 COUNCIL TONNAGE COMPARISONS AS AT 30 APRIL 2019 (Ref: D2019/07435)
- 1.2 WASTE EDUCATION – WASTE AUDIT LOAN KIT (Ref: D2019/07596)

RECOMMENDATION

That the Waste Advisory Committee notes the items contained in the Information Bulletin accompanying the 6 June 2019 Waste Advisory Committee Agenda.

WAC RESOLUTION(S)

MOVED CR MCDONNELL SECONDED CR MYKYTIUK

THAT THE WASTE ADVISORY COMMITTEE NOTES THE ITEMS CONTAINED IN THE INFORMATION BULLETIN ACCOMPANYING THE 6 JUNE 2019 WASTE ADVISORY COMMITTEE AGENDA.

CARRIED UNANIMOUSLY



12 REPORTS OF DELEGATES

Nil

13 NEW BUSINESS OF AN URGENT NATURE APPROVED BY THE CHAIRMAN OR PRESIDING MEMBER OR BY DECISION OF MEETING

Nil

14 CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC

Nil

15 FUTURE MEETINGS OF THE WASTE ADVISORY COMMITTEE

The next meeting of the Waste Advisory Committee will be held on **Thursday, 4 July 2019 (if required)** at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, Belmont WA 6104 commencing at 5:00pm.

Future Meetings 2019

Thursday	4	July	(if required)	at	EMRC Administration Office
Thursday	8	August	(if required)	at	EMRC Administration Office
Thursday	5	September	(if required)	at	EMRC Administration Office
Thursday	10	October	(if required)	at	EMRC Administration Office
Thursday	21	November	(if required)	at	EMRC Administration Office

16 DECLARATION OF CLOSURE OF MEETING

There being no further business the meeting was closed at 5:35pm.