



MINUTES

**CERTIFICATION OF CONFIRMATION OF
COMMITTEE MEETING MINUTES**

4 AUGUST 2011

I, Cr Cuccaro, hereby certify that the following minutes pages 1 to 59 of the Meeting of **RESOURCE RECOVERY COMMITTEE** held on 4 August 2011 were confirmed at a meeting of the Committee held on 6 October 2011.

A handwritten signature in blue ink, appearing to be 'Cr Tony Cuccaro', is written over a horizontal line.

Signature

Cr Tony Cuccaro

Person presiding at the Committee Meeting held on 6 October 2011

RESOURCE RECOVERY COMMITTEE

MINUTES

4 August 2011

(REF: COMMITTEES-12738)

A meeting of the Resource Recovery Committee was held at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, BELMONT WA 6104 on **Thursday, 4 August 2011**. The meeting commenced at **5.00pm**.

TABLE OF CONTENTS

1	DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS	1
2	ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE PREVIOUSLY APPROVED	1
3	DISCLOSURE OF INTERESTS	1
4	ANNOUNCEMENT BY THE CHAIRMAN OR PERSON PRESIDING WITHOUT DISCUSSION	1
5	CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS	2
	<i>5.1 MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 9 JUNE 2011 (Ref: Committees-11994)</i>	
6	PRESENTATIONS	2
7	ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC	2
8	BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING	2
9	REPORTS OF OFFICERS	3
	<i>9.1 PROGRESS REPORT ON RESOURCE RECOVERY INITIATIVES (Ref: Committees-12821)</i>	3
	<i>9.2 RESOURCE RECOVERY PROJECT UPDATE (Ref: Committees-12822)</i>	12
	<i>9.3 PROGRESS REPORT ON COMMUNITY PARTNERSHIP AGREEMENT (Ref: Committees-11262)</i>	25
	<i>9.4 WASTE AND RECYCLE CONFERENCE 2011 (Ref: Committees-12826)</i>	35
	<i>9.5 RESOURCE RECOVERY FACILITY - PREFERRED TECHNOLOGY OPTIONS (Ref: Committees-12849)</i>	48
	<i>9.6 RESOURCE RECOVERY FACILITY PROJECT – FINANCIAL COMMITMENT (Ref: Committees-12853)</i>	53
10	CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC	59
11	GENERAL BUSINESS	59
12	FUTURE MEETINGS OF THE RESOURCE RECOVERY COMMITTEE	59
13	DECLARATION OF CLOSURE OF MEETING	59



1 DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS

The Chairman opened the meeting at 5.00pm.

2 ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE PREVIOUSLY APPROVED

Committee Members

Cr Tony Cuccaro (Chairman)	EMRC Member	Shire of Mundaring
Cr Gerry Pule	EMRC Member	Town of Bassendean
Cr Alan Radford	EMRC Member	City of Bayswater
Cr Glenys Godfrey	EMRC Member	City of Belmont
Cr Frank Lindsey (Deputy Chairman)	EMRC Member	Shire of Kalamunda
Cr David Färdig	EMRC Member	City of Swan
Mr Doug Pearson	Director Technical Services	City of Bayswater
Mr Ric Lutey	Director Technical Services	City of Belmont
Mr Mahesh Singh	Director Engineering Services	Shire of Kalamunda
Mr Shane Purdy	Director Infrastructure Services	Shire of Mundaring
Mr Colin Pumphrey (Deputising for Mr Coten)	Manager Fleet and Waste Services	City of Swan
Mr Peter Schneider	Chief Executive Officer	EMRC

Apologies

Mr Simon Stewert-Dawkins	Director Operational Services	Town of Bassendean
Mr Jim Coten	Executive Manager Operations	City of Swan

EMRC Officers

Mr Stephen Fitzpatrick	Manager Project Development
Mr Brian Jones	Director Waste Services
Mr Hua Jer Liew	Director Corporate Services
Ms Mary-Ann Winnett	Personal Assistant to Director Corporate Services (Minutes)
Ms Annie Hughes-d'Aeth	Administration Support Officer (Minutes)

Visitors

Mr Kevin Donnelly	Stanton International
Mr John King	Cardno

3 DISCLOSURE OF INTERESTS

Nil

4 ANNOUNCEMENT BY THE CHAIRMAN OR PERSON PRESIDING WITHOUT DISCUSSION

Nil



5 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

5.1 MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 9 JUNE 2011

That the Minutes of the Resource Recovery Committee meeting held on 9 June 2011, which have been distributed, be confirmed.

RRC RESOLUTION(S)

MOVED CR GODFREY SECONDED CR LINDSEY

THAT THE MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 9 JUNE 2011, WHICH HAVE BEEN DISTRIBUTED, BE CONFIRMED.

CARRIED UNANIMOUSLY

6 PRESENTATIONS

Nil

7 ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC

Nil

8 BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING

Nil



9 REPORTS OF OFFICERS

9.1 PROGRESS REPORT ON RESOURCE RECOVERY INITIATIVES

REFERENCE: COMMITTEES-12821

PURPOSE OF REPORT

The purpose of this report is to keep Council informed of continuing progress on resource recovery processing initiatives.

KEY ISSUES AND RECOMMENDATION(S)

- Officers from the EMRC and the City of Swan visited the pilot pyrolysis plant at Anzac Pty Ltd in Bunbury to view the trial pyrolysis of refuse derived fuel supplied by the City of Swan.
- Murdoch University has commenced a pilot scale trial of anaerobic digestion with horse manure waste from the City of Belmont's Ascot precinct.

Recommendation(s)

That the report be received.

SOURCE OF REPORT

Manager Project Development

BACKGROUND

At the Council meeting of 24 August 2000, Council adopted the following resolutions:

- 1. THAT THE EMRC UNDERTAKE A STUDY TO DETERMINE THE RANGE OF COMMERCIAL AND FINANCING OPTIONS AVAILABLE TO THE EMRC FOR ITS INVOLVEMENT IN THE SECONDARY WASTE TREATMENT FACILITY.*
- 2. THAT THE EMRC REQUEST THE OPPORTUNITY FOR EACH MEMBER COUNCIL TO RECEIVE A PRESENTATION REGARDING THE TECHNOLOGIES, COSTS, NEED FOR STAGED COMMITMENTS ETC FOR THE INTRODUCTION OF A SECONDARY WASTE TREATMENT FACILITY.*
- 3. THAT AN OVERSEAS STUDY TOUR OF OPERATING SECONDARY WASTE TREATMENT FACILITIES BY OFFICERS AND COUNCILLORS OF THE EMRC, TO BE DETERMINED AT A LATER DATE, FOLLOWING A DESKTOP STUDY OF SUITABLE LOCATIONS AND PREFERABLY IN CONJUNCTION WITH AN INTERNATIONAL WASTE MANAGEMENT CONFERENCE.*
- 4. THAT SUBJECT TO THE PROVISION OF A COPY OF THE REPORT SECONDARY TREATMENT FEASIBILITY STUDY, AS COMMISSIONED BY MINDARIE REGIONAL COUNCIL, A REPORT ON ITS CONTENT AND APPLICATION TO THE EMRC'S PROPOSED ACTIVITIES BE PROVIDED.*
- 5. THAT A CONSULTANT BE ENGAGED TO PROCEED WITH THE RED HILL DEVELOPMENT 'MASTER PLAN' INCLUDING A REVIEW AND RECOMMENDATION FOR AN APPROPRIATE SITE FOR A SECONDARY WASTE PROCESSING FACILITY AND THE PROVISION OF A PROGRAM TO INTRODUCE SECONDARY WASTE TREATMENT.*
- 6. THAT A PROGRAMME BE DEVELOPED FOR THE COMMUNITY CONSULTATION NECESSARY FOR THE INTRODUCTION OF A SECONDARY WASTE TREATMENT FACILITY FOR THE EMRC.*



Item 9.1 continued

7. *THAT A DETAILED REPORT BE PREPARED ON THE CONTENT AND SIGNIFICANCE TO THE EMRC OF THE "REPORT OF THE ALTERNATIVE WASTE MANAGEMENT TECHNOLOGIES AND PRACTICES INQUIRY" FROM NEW SOUTH WALES.*
8. *THAT A SECONDARY WASTE PROCESSING RESERVE BE ESTABLISHED AND STAFF PROVIDE A RECOMMENDATION OF THE INITIAL AMOUNT TO BE TRANSFERRED TO THAT RESERVE TAKING INTO ACCOUNT THE ADDITIONAL TIPPING FEES IMPOSED EFFECTIVE FROM 1 JULY 1999.*
9. *THAT THE EMRC START PUBLIC EDUCATION AND CONSULTATION FOR ALL MEMBER COUNCIL RESIDENTS ON PLANS FOR SECONDARY WASTE TREATMENT AS SOON AS PRACTICABLE."*

The nine resolutions from the 24 August 2000 Council meeting have been reported on in all subsequent meetings of the SSWTC/RRC and are complete.

At the Council meeting of 26 April 2001, Council resolved the following:

"THAT THE REPORT BE RECEIVED AND THE ATTACHMENT BE UPDATED FOR EACH MEETING OF THE STRATEGIC AND SECONDARY WASTE TREATMENT COMMITTEE."

At the Council meeting of 20 May 2004, Council resolved the following:

"THAT A NUMBER OF INTERESTED EMRC COUNCILLORS WITH EMRC OFFICERS ATTEND GLOBAL RENEWABLES LIMITED, EASTERN CREEK, NSW FACILITY WITHIN SIX (6) MONTHS OF THE FACILITY OPENING."

Report item 9.3 of the SSWTC agenda for 8 June 2006 reported on the EMRC visit to GRL Eastern Creek and other resource recovery facilities in the eastern states, satisfying this resolution.

Council resolved at its meeting of 31 July 2008 to attend the second international conference on Energy from Biomass and Waste in Italy and to visit waste treatment plants in preparation for the EOI process. This visit was reported to RRC at its 12 February 2009 meeting.

Other Resource Recovery Facilities operating in Australia including the EarthPower, Camelia facility, the Rethmann Integrated Waste Management Facility at Port Macquarie and the Cairns Bedminster facility now owned and operated by SITA CEC Environmental Solutions were reported in agenda item 10.1 of the 14 June 2007 RRC meeting.

A pilot scale pyrolysis technology plant has been developed by Best Energies in Gosford, NSW and was reported in the RRC July 2007 agenda (report item 9.3).

A proposed waste to ethanol project by a consortium of Holden, the Victorian Government, Caltex, Veolia, Coskata and Mitsui was reported in the RRC 8 July 2010 agenda (item 9.1).

REPORT

Pyrolysis Trials at Ansac, Bunbury

The Chief Executive Officer, Director Waste Services and Manager Project Development together with three officers from the City of Swan visited Ansac's Bunbury premises on Friday 1 July 2011 to view the pilot pyrolysis trial. Ansac's General Manager Mr Danny Griffin hosted the tour of their fabrication factory and the pilot plant and the EMRC/City of Swan group were encouraged by the technology development and the potential application in WA.



Item 9.1 continued

Ascot Horse Manure Project

In June 2011, officers and a councillor of the City of Belmont and the Manager Project Development visited the Murdoch University pilot scale trial of anaerobic digestion with horse manure waste from the City of Belmont's Ascot precinct. Biogas yields have been encouraging as has the quality of the digestate. A report from Murdoch is pending.

Progress reports on resource recovery initiatives being undertaken elsewhere in Australia are attached (Attachment 1).

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

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

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil direct implication for member Councils
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

FINANCIAL IMPLICATIONS

All Resource Recovery Project activities are accounted for in the annual budget approved by Council.

SUSTAINABILITY IMPLICATIONS

The Resource Recovery Project is aimed at reducing greenhouse gas emissions from the EMRC's waste disposal operations and State programmes for reduction of waste to landfill.

ATTACHMENTS

1. Progress on Resource Recovery Initiatives in Australia as at 22 July 2011 (Ref: Committees-12153)
2. WMRC Project Update 11 April 2011 (Ref: Committees-12873)

VOTING REQUIREMENT

Simple Majority



Item 9.1 continued

RECOMMENDATION(S)

That the report be received.

RRC RECOMMENDATION(S)

MOVED CR PULE

SECONDED CR LINDSEY

That the report be received.

CARRIED UNANIMOUSLY



Item 9.1 continued

Attachment 1 to RRC 4 August 2011 Item 9.1

PROGRESS REPORTS ON RESOURCE RECOVERY INITIATIVES IN AUSTRALIA AS AT 22 July 2011 Southern Metropolitan Regional Council (SMRC), Regional Resource Recovery Centre (RRRC) Project, Canning Vale

Technology: Bedminster aerobic composting. Contract model: D&C. Bin system: 2 bin system.

No further progress to report.

Rivers Regional Council, Resource Recovery Project

Technology: Undecided - aerobic composting or anaerobic digestion. Contract model: Most likely BOO. Bin system: 2 bin system.

No further progress to report.

Atlas Waste Treatment Facility, Mirrabooka

Technology: Dirty MRF and windrow aerobic composting. Contract model: BOO (for City of Stirling). Bin system: single bin system.

No further progress to report.

Mindarie Regional Council (MRC), Resource Recovery Project

Technology: Conporec aerobic composting. Contract model: BOO (SITA is the operator). Bin system: 2 bin system.

No further progress to report.

Ti Tree Bioenergy Project, Queensland

Technology: Landfill with methane extraction. Contract model: Privately owned. Bin system: N/A.

No further progress to report.

Veolia Woodlawn Bioreactor Project, NSW

Technology: Landfill with methane extraction. Contract model: Privately owned. Bin system: 2 bin system.

No further progress to report.

Emergent Capital, Eastern Creek, NSW

Technology: Anaerobic digestion (UR-3R process). Contract model: D&C. Bin system: 2 bin system.

The facility is believed to be operating only as an aerobic composting facility.

AnaeCo, Shenton Park

Technology: Anaerobic digestion (DiCom process). Contract model: BOO (for WMRC). Bin system: 2 bin system.

AnaeCo have announced that Tom Rudas has resigned as a Director of the company and appointed a new CEO (unnamed as yet) to commence on 30 August 2011. In the interim Prof Michael Dureau has been appointed as Chairman and Managing Director. (April progress report – refer Attachment 2).

Coffs Harbour City Council, Alternative Waste Treatment (AWT) Plant

Technology: Aerobic composting. Contract model: BOO. Bin system: 3 bin system.

No further progress to report.

WSN Environmental Solutions, South Sydney, AWT Facility

Technology: Anaerobic digestion (ArrowBio process). Contract model: BOO. Bin system: 3 bin system.

SITA are now the owners of WSN's operations.



11 April 2011

Australian Stock Exchange
 Company Announcements Office
 Exchange Centre
 Level 1
 20 Bridge Street
 Sydney NSW 2000

Anaeco Limited ABN 36 087 244 228
 3 Turner Avenue, Technology Park
 Bentley, Western Australia 6102
 PO Box 1287, Bentley DC WA 6983
 Ph: +61 8 9361 4777
 Fx: +61 8 9361 4888
 info@anaeco.com
 www.anaeco.com

WMRC Project Update - 11 April 2011

The Stage 2 expansion of the WMRC Project in Shenton Park, Western Australia is well under way.

Work and milestones which have been achieved to date include:

- Orders have been placed for all major long lead time equipment in accordance with procurement schedule,
- More than 50 per cent of equipment procurement orders have been placed,
- Stage 1 plant has been de-commissioned and dismantling of equipment to enable Stage 2 construction is complete,

Dismantling included:

- removal of all conveyors inside the Material Recover Facility (MRF) shed,
- partial dismantling of trommel prior to its extension,
- removal of platforms and conveyors exterior to the bioconversion vessel,
- removal of piping, motors and valves,
- removal of water/anaerobic liquor storage tank,
- removal of gas flare, and
- removal of all related electrical and control instrumentation.
- Most of the above equipment will be re-used in Stage 2, some of which will be modified and refurbished,
- Civil earthworks are well advanced,
- First concrete has been poured on site,



Attached are some photographs which illustrate the extent of civil work in progress as well as the dismantling of the Stage 1 plant & equipment. The pictures of the completed Stage 1 plant show the comparison.

Upon completion of the civil works the next phase will involve extension of the MRF shed and preparation for installation of the DiCOM vessels and other structural and mechanical equipment.

As previously announced, AnaeCo and construction partner Monadelphous Group Limited (ASX:MND) signed the Design & Construct Contract with the client Brockway DiCOM Facility Pty Ltd as Trustee for the DiCOM AWT Investment Trust (a fund managed by Palisade Investment Partners Limited) on 8 December 2010.

ENDS

For further information, please contact:

Tom Rudas, Managing Director	(08) 9361 4777
David Michie, Mosaic Reputation Management (Media)	0411 453 404
Michael Gordon, Gordon Capital (Investors)	0414 501 442

About AnaeCo

AnaeCo delivers Alternative Waste Technology (AWT) facilities based on the patented DiCOM® bioconversion process. The system incorporates advanced sorting, recycling, anaerobic digestion and aerobic composting to recycle municipal solid waste (MSW) into renewable energy from biogas, agricultural grade compost and recyclables such as steel, aluminium, glass and plastics, thus ensuring maximum diversion from landfill and ensuring social, economic and environmentally sustainable management of MSW.

The DiCOM® process enables resource recovery intervention closer to source, with enhancement of existing waste transfer stations now a viable waste management option. AnaeCo's experienced team provides design, construction, commissioning, operation and maintenance services for DiCOM® AWT facilities, as well as management of all outputs including renewable energy, compost, recyclable materials and non-recyclable residuals.

For further information go to www.anaeco.com



Fig 1 – WMRC Stage 2: bioconversion vessel with all ancillary equipment dismantled. Civil works in progress April 2011



Fig 2 – WMRC Stage 2: civil works concrete pour. April 2011



Fig 3 – WMRC Stage 1 bioconversion vessel. Completed December 2008.



Fig 4 – WMRC Stage 1: bioconversion vessel, water storage tank, odour control system and material recovery facility (MRF) shed. Completed December 2008.



9.2 RESOURCE RECOVERY PROJECT UPDATE

REFERENCE: COMMITTEES-12822

PURPOSE OF REPORT

To update Council on the progress of the Resource Recovery Facility (RRF) project.

KEY ISSUES AND RECOMMENDATION(S)

- A presentation on anaerobic digestion technology was provided to Council by Mr Gerald Tetchner of Enertech (UK) on 23 June and by Mr Gerald Tetchner and Prof. Dongke Zhang of UWA to the community on 24 June 2011.
- The project team has amended and resubmitted the draft Environmental Scoping Document (ESD) after discussions with the Office of the EPA.
- EMRC and Cardno representatives met with the EPA on 21 July 2011 to consider the ESD.
- Air quality baseline monitoring at Red Hill Waste Management Facility will conclude on 31 July 2011.
- Gathering of emissions data from acceptable tenderers for the PER modelling is continuing.
- Modelling of emissions from the technology options is underway following a meeting with officers of the Department of Environmental Protection Air Quality Branch.
- The Community Task Force (CTF) has continued to meet and consider feedback on the draft Community Partnership Agreement (CPA).
- WA Treasury Corporation has reviewed the analysis of member Council 2009/2010 financial statements as the basis for loan guarantee requirements for the RRF.

Recommendation(s)

That the report be received.

SOURCE OF REPORT

Manager Project Development

BACKGROUND

On 30 April 2009, Council resolved to proceed with the Expression of Interest process.

At the 27 August 2009 meeting of Council it was resolved:

- "1. *THE FOLLOWING RESPONDENTS TO THE EXPRESSION OF INTEREST ARE LISTED AS ACCEPTABLE TENDERERS:*
 - A. *ENERGOS AS;*
 - B. *EVERGREEN ENERGY CORPORATION PTY LTD;*
 - C. *GRD MINPROC LIMITED;*
 - D. *MOLTONI ENERGY PTY LTD;*
 - E. *SITA ENVIRONMENTAL SOLUTIONS;*
 - F. *TRANSPACIFIC CLEANAWAY LIMITED; AND*
 - G. *WSN ENVIRONMENTAL SOLUTIONS.*
2. *THE FOLLOWING RESPONDENTS TO THE EXPRESSION OF INTEREST ARE NOT LISTED AS ACCEPTABLE TENDERERS:*
 - A. *ANAECO LIMITED; AND*
 - B. *THIESS SERVICES PTY LTD.*



Item 9.2 continued

3. *THE RESPONDENTS TO EXPRESSION OF INTEREST 2009-10 BE ADVISED OF THE OUTCOME OF THE ASSESSMENT.*
4. *THE ATTACHMENT REMAINS CONFIDENTIAL AND BE CERTIFIED BY THE ACTING CHIEF EXECUTIVE OFFICER AND THE EMRC CHAIRMAN.*
5. *THE TENDER EVALUATION COMMITTEE BE ACKNOWLEDGED FOR THE SIGNIFICANT EFFORT PUT INTO EVALUATING THE EOI SUBMISSIONS."*

On 24 September 2009, Council resolved that:

- "1. *THE FOLLOWING PRELIMINARY RECOMMENDATIONS OF THE RESOURCE RECOVERY COMMITTEE FORM THE BASIS OF CONSULTATION BETWEEN THE EMRC AND THE MEMBER COUNCILS AND THE COMMUNITY WITH THE INTENTION OF REPORTING BACK TO COUNCIL IN APPROXIMATELY MARCH 2010 WITH A FINAL RECOMMENDATION.*
 - A) *RED HILL WASTE MANAGEMENT FACILITY IS THE PREFERRED SITE FOR THE RRF BASED ON ENVIRONMENTAL, ECONOMIC AND PLANNING CONSIDERATIONS, COMMUNITY RESEARCH AND THE POTENTIAL VALUE OF THE EMRC HAZELMERE SITE AS A RESOURCE RECOVERY PARK.*
 - B) *THE DESIGN & CONSTRUCT CONTRACT OWNERSHIP MODEL IS PREFERRED TO A BUILD OWN OPERATE CONTRACT MODEL.*
 - C) *THE RRF TECHNOLOGY OPTIONS INCLUDING ANAEROBIC DIGESTION, GASIFICATION AND PYROLYSIS ARE RANKED HIGHER THAN COMBUSTION AND PLASMA AT THIS STAGE BUT MORE INFORMATION IS REQUIRED BEFORE A FINAL PREFERENCE CAN BE DETERMINED.*
 - D) *A THIRD BIN FOR HOUSEHOLD ORGANIC WASTE COLLECTION IS CONSIDERED IN CONJUNCTION WITH ANAEROBIC DIGESTION TECHNOLOGY."*

Further, on 4 December 2009, Council resolved that:

- "1. *COUNCIL APPROVE A VISIT TO EASTERN STATES AND OVERSEAS RESOURCE RECOVERY REFERENCE FACILITIES TO BE UNDERTAKEN BY THE CHAIRMAN, RESOURCE RECOVERY COMMITTEE, MR JOHN KING, PROJECT DIRECTOR FOR CARDNO LIMITED AND THE MANAGER PROJECT DEVELOPMENT.*
2. *INFORMATION GAINED FROM THE VISIT BE REPORTED TO THE RRC AND COUNCIL IN EARLY 2010 AS PART OF THE FINAL RECOMMENDATION ON THE PREFERRED RESOURCE RECOVERY FACILITY OPTIONS."*

On 22 April 2010, Council resolved in relation to the reference facility visits that:

- "1. *THE REPORT BE RECEIVED.*
2. *INFORMATION GAINED FROM THE RESOURCE RECOVERY FACILITY VISITS BE APPLIED TO THE ANALYSIS OF THE PROJECT OPTIONS ON TECHNOLOGY, CONTRACT MODEL AND BIN COLLECTION SYSTEM.*
3. *THAT THE ATTACHMENT TO THIS REPORT REMAIN CONFIDENTIAL AND BE CERTIFIED BY THE CHIEF EXECUTIVE OFFICER AND CHAIRMAN."*

On 20 May 2010, Council resolved that:

- "1. *THE FOLLOWING OPTIONS ARE CONFIRMED AS THE PREFERRED OPTIONS FOR THE RESOURCE RECOVERY FACILITY:*
 - A) *RED HILL WASTE MANAGEMENT FACILITY IS THE PREFERRED SITE FOR THE RRF.*
 - B) *THE DESIGN & CONSTRUCT CONTRACT OWNERSHIP MODEL IS PREFERRED TO A BUILD OWN OPERATE CONTRACT MODEL AT THIS STAGE OF THE PROJECT.*



Item 9.2 continued

- C) *THE RRF TECHNOLOGY OPTIONS INCLUDE ANAEROBIC DIGESTION, GASIFICATION, PYROLYSIS AND COMBUSTION. PLASMA TECHNOLOGY WILL ONLY BE CONSIDERED IF IT IS AN INTEGRAL PART OF ONE OF THESE TECHNOLOGIES.*
 - D) *A THIRD BIN FOR HOUSEHOLD ORGANIC WASTE COLLECTION BE CONSIDERED IN CONJUNCTION WITH ANAEROBIC DIGESTION TECHNOLOGY, OTHERWISE A TWO BIN SYSTEM IS RECOMMENDED FOR THE THERMAL TECHNOLOGY OPTIONS.*
2. *COUNCIL PROCEEDS WITH THE ENVIRONMENTAL AND PLANNING APPROVALS TASK FOR THE RESOURCE RECOVERY PROJECT BASED ON THE PREFERRED SITE AND TECHNOLOGY OPTIONS."*

On 21 October 2010, Council resolved to amend the Resource Recovery budget to allow for the predicted cost of baseline environmental monitoring and additional consultant costs as follows:

"THAT THE BUDGET FOR SEEK ENVIRONMENTAL APPROVALS (TASK 15) IN THE ANNUAL BUDGET UNDER RESOURCE RECOVERY BE INCREASED FROM \$220,000 TO \$525,000 AND THAT THIS INCREASE BE FUNDED FROM THE SECONDARY WASTE RESERVE."

On 23 June 2011, Council resolved that:

- "1. *"COUNCIL NOTES THE ADVICE FROM SITA ENVIRONMENTAL SOLUTIONS AND WSN ENVIRONMENTAL SOLUTIONS OF THEIR INTENTION TO WITHDRAW FROM THE TENDER PROCESS FOR THE EMRC RESOURCE RECOVERY FACILITY.*
- 2. *THE LIST OF ACCEPTABLE TENDERERS BE AMENDED TO REMOVE SITA ENVIRONMENTAL SOLUTIONS AND WSN ENVIRONMENTAL SOLUTIONS.*
- 3. *SITA ENVIRONMENTAL SOLUTIONS BE ADVISED OF COUNCIL'S ACKNOWLEDGEMENT OF BOTH SITA ENVIRONMENTAL SOLUTIONS AND WSN ENVIRONMENTAL SOLUTION'S WITHDRAWAL FROM THE EMRC RESOURCE RECOVERY FACILITY TENDER PROCESS.*
- 4. *THE REPORT AND ATTACHMENTS REMAIN CONFIDENTIAL AND BE CERTIFIED BY THE CHAIRMAN AND THE CHIEF EXECUTIVE OFFICER."*

By way of explanation, the two contract ownership models being considered for the RRF are as follows:

Build Own Operate

Under a Build Own Operate (BOO) contract delivery model, the Contractor will be required to build, finance, own and operate the facility for a fixed period of time (the economical life of the facility and anticipated to be for 20 years). Under this contract model, some of the project risks, and in particular, the risks associated with the design, construction and performance of the RRF, are transferred to the Contractor.

Design and Construct

Under a Design and Construct (D&C) contract delivery model, the Contractor will design and construct a facility that conforms to agreed standards and performance requirements. If the D&C model was adopted by the EMRC, the Contractor will also be required to operate the facility for a minimum of 12 months and up to two years after the completion of wet commissioning. Under this contract model, the operational and ownership risks would be assumed by the EMRC, particularly following transfer of operational responsibilities to the EMRC and expiry of warranties and defects liability periods. The EMRC may operate the facility using its own staff or enter into a separate contract for the operation of the facility under this D&C contract delivery model.



Item 9.2 continued

Design, Build Operate and Maintain

Under a Design, Build Operate and Maintain (DBOM) contract delivery model, ownership of the RRF is with the EMRC but operation and maintenance is with the Operator. The EMRC will contract with the main contractor, who is most likely to be an Operator or technology provider who will be responsible for subcontracting and managing the risk of a builder for the construction phase. The EMRC will be required to obtain its own funding for the RRF and will have to fund construction payments during the construction phase and service payments during the operation phase, usually by way of regular monthly payments linked to the amount of waste processed by the RRF.

As with the BOO, the Operator's involvement in the RRF continues until the expiry of the operation term. However, unlike the BOO, the operating period under a DBOM can be less than under a BOO as it does not have to match the duration of the debt repayments. This is because the debt repayments are made by the EMRC direct to its financier, rather than by the Operator to its financier.

Under this contract model, the project risks associated with the design, construction and performance of the RRF, are transferred to the Contractor whereas the ownership risk resides with the EMRC.

Acceptable Tenderers and Technologies

Acceptable Tenderers as at 22 July 2011	Technology Offered at EOI Stage
Energos AS	Gasification
Evergreen Energy Corporation Pty Ltd	Anaerobic Digestion
Amec Minproc Limited	Anaerobic Digestion and Combustion
Moltoni Energy Pty Ltd	Combustion
Transpacific Cleanaway Limited	Anaerobic Digestion

REPORT

Environmental Scoping Document (ESD)

Following a meeting with the EPA on 21 June 2011, the ESD is being revised pending receipt of advice from the EPA Chairman (refer item 9.5). Once the EPA Chairman has signed off the content of the ESD, the Public Environmental Report (PER) scope and content can be finalised.

Environmental Monitoring for the PER

A meeting has been held with the DEC's Air Quality Branch to discuss the modelling approach for the air toxics modelling for the RRF. Synergetics Environmental Engineering are now proceeding with the modelling for some of the technology options pending receipt of additional emissions data from the acceptable tenderers. Modelled emissions will be compared to ambient air quality data being collected on site and to ambient air quality standards.

The baseline air quality monitoring at Red Hill Waste Management Facility will conclude on 31 July 2011.

Community Engagement

The CTF met on 12 July 2011 to consider the remainder of the feedback on the draft CPA. The draft CPA has had minor amendments made to reflect comments raised in the community feedback and is the subject of report item 9.3. The unconfirmed minutes of 12 July 2011 are attached (Attachment 1).

The next meeting of the CTF is planned for 16 August 2011 to consider draft tender evaluation criteria.



Item 9.2 continued

Member Council Loan Guarantee Analysis

Analysis of member Council 2009/2010 financial statements has been completed and reviewed by the WA Treasury Corporation (WATC) to update the analysis of member Council capacity to guarantee a loan for the RRF. A report will be prepared for Council in the near future to advise the outcomes of this analysis and the member Council implications, bearing in mind that the loan guarantee requirements will not be known until the completion of a tender process for the RRF. Report item 9.6 refers to the potential impact of the Local Government Reform process on the project timeline and member Council guarantee requirements.

Community Forum on Anaerobic Digestion

A presentation on anaerobic digestion technology by visiting overseas consultant, Mr Gerald Tetchner of Eneritech (UK) was provided to EMRC Council on 23 June 2011 and by Mr Gerald Tetchner and Prof. Dongke Zhang of UWA to the community on 24 June 2011. About 40 members of the community attended the 24 June 2011 presentation and participated in a question and answer session with each speaker. The presentations have been posted on the EMRC web site (www.emrc.org.au/resources) and the question and answer output (Attachment 2) will be posted there soon.

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

All costs covered within this report are accounted for in the annual budget approved by Council.

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.

MEMBER COUNCIL IMPLICATIONS

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

ATTACHMENT(S)

1. Unconfirmed minutes of Community Task Force Meeting of 12 July 2011 (Ref: Committees-12866)
Questions and Answers from presentations on anaerobic digestion technology, 24 June 2011 (Ref: Committees-12865)



Item 9.2 continued

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That the report be received.

RRC RECOMMENDATION(S)

MOVED CR LINDSEY

SECONDED CR PULE

That the report be received.

CARRIED UNANIMOUSLY



Attendee		Attendee		Attendee	
Martin Chape	✓	Peter Jensen	✓	Stephen Fitzpatrick	✓
Jan Foster-Hawkings	✓	Myles Harmer	✓	Prapti Mehta	✓
Noel Hales	✓	Peter Pearson	✓	Joel Levin	✓
Max Jamieson	✓	Noelene Wigmore	✓	Other:	
Other:		Other:		Other:	
Present ✓ Apology = x Observer/Presenter = O					

Meeting Opened: 6:05pm

Meeting Chair: Joel Levin

Item	Issue/Topic	Discussion
1.	Previous Minutes	<p>Past action items were reviewed. All Items completed. Action in item #5 was correct to read</p> <p>'CTF recommended validation of the CPA after 12mths of facility operations'</p>
2.	EMRC Update	<p>EMRC hosted a presentation by Mr Gerald Tetchner, a UK consultant and Professor Dongke Zhang from UWA. EMRC council, CTF members and wider community members were invited to attend. The presentations have been posted on the EMRC website and the questions and answers session from this presentation are being written up and will be made available to the community once they have been completed.</p> <p>EMRC is still waiting a decision from the EPA on the Environmental Scoping Document. The current estimate is that EMRC will hear back in July and provide PER timelines then. The estimated timeline is for the PER document to be ready in August and sent to the EPA for review in September. This would then be followed by 8 weeks of public review period in October/November 2011.</p> <p>Monitoring will be completed this month and discussions have begun with the DEC about the required air quality modelling. There will also be a discussion with the DEC on odour modelling shortly.</p> <p>There was some discussion about the site location, following the site visit last week. The preferred site is potentially going to be more visible from the proposed Perth-Adelaide Hwy. The preferred site location was based on the projected landfill utilization needs and there will be further site development planning required following on from the PER process.</p>
Action/Resolution 1.		<p>EMRC to send an updated site selection map to CTF members</p> <p style="text-align: right;">Who 1 EMRC</p>

<p>3. CPA Draft</p>	<p>The CTF went through the remaining submissions from the community and adjusted the CPA accordingly or gave a rationale for not making the suggested changes.</p> <p>Anyone that has responded will be sent an updated CPA once the final version has been made with some notes on the feedback received, the changes and the rational for the change or not.</p> <p>The CPA will be provided for final 'birds eye' view by the CTF prior to submitting the document to Council. Changes from this point forward will be grammatical and syntax in nature and not in the intent and form of each item.</p> <p>CTF members are invited to attend the Aug 18 Council meeting where the CPA will be presented for endorsement (subject to confirmation that the report item will be ready for this meeting).</p>
<p>Action/Resolution 2. Action/Resolution 3. Action/Resolution 4. Action/Resolution 5.</p>	<p>CTF members to review final draft with comment by the Monday to allow for final adjustment by COB Friday 22nd July</p> <p>EMRC Council to consider the CPA at its August 18th Meeting</p> <p>Clarify the licence requirement for management of water run off to see if it need to be specified in the CPA</p> <p>EMRC to consider the 'ceremony' for signing the agreement into action</p>
	<p>Who 2 ALL Who 3 EMRC Who 4 Stephen Who 5 Prapti</p>

<p>4. Next meeting</p>	<p>The CTF discussed the agenda for the final meeting, there are three remaining items</p> <ol style="list-style-type: none"> 1) Succession planning for community engagement on the project once the taskforce completes its role 2) Review and finalisation of the TEC 3) Confirmation of the timing of CTF involvement in the PER process. <p>The purpose of the Tender Evaluation Criteria (TEC) was discussed and clarified. The TEC is mean to provide guidance to the tender process and will serve its process as a form of checklist.</p>
<p>Action/Resolution 6.</p>	<p>Agenda to be developed accordingly</p>
	<p>Who 6 Joel</p>

<p>5. Meeting Closed</p>	<p>8:10pm</p>	<p>6. Next meeting</p>	<p>August 16th 2011</p>
---------------------------------	---------------	-------------------------------	------------------------------------

These minutes have been ratified by ALL members of the CTF as a true and accurate record of the meeting

Signed on behalf of CTF Members: Joel Levin (Independent Facilitator) **Date: 12/07/2011**

ACTION LIST

Action/Resolution 1.	EMRC to send an updated site selection map to CTF members	Who 1	EMRC
Action/Resolution 2.	CTF members to review final draft with comment by the Monday to allow for final adjustment by COB Friday 22 nd July	Who 2	ALL
Action/Resolution 3.	EMRC Council to consider the CPA at its August 18 th Meeting	Who 3	EMRC
Action/Resolution 4.	Clarify the licence requirement for management of water run off to see if it need to be specified in the CPA	Who 4	Stephen
Action/Resolution 5.	EMRC to consider the 'ceremony ' for signing the agreement into action	Who 5	Prapti
Action/Resolution 6.	Agenda to be developed accordingly	Who 6	Joel

Q&A session from anaerobic digestion talk, Friday 24 June 2011

- 1. Q: How do you separate food stuffs from packaging [at the start of the AD process]?**
A: You use a variety of methods: bag splitters, knives, methods which separate items according to density and weights such as floating, spinning, etc.
- 2. Q: How efficient is the sorting system in getting rid of the plastics?**
A: 2-3% of the original plastics remain, and these can then be cleaned up at the back end of the process, i.e. where the residual organic fibre is screened.
- 3. Q: How refined can the end products become?**
A: It depends on how much is spent on this process. It can be as high as 99% organic fraction.
- 4. Q: Would that remaining 1% of plastics in compost have an effect in agriculture?**
A: It depends on what you need and the usability/purpose of the compost/fibre.
- 5. Q: The EMRC has said that they would consider a third bin if AD were chosen as the preferred technology. Has a third bin worked in your experience?**
A: In low income/lower socio-economic areas it hasn't worked as well. In the EU bin separation has worked well for many years. In the UK it's not proving as popular. Many people are using them under protest because of space restrictions for the third bin and the odour they can cause in councils where bins are picked up every fortnight.
- 6. Q: How do you minimise odour using AD technology?**
A: You use a tipping hall, where waste is tipped inside a large shed and controlled systems such as air filtering are also used. It is vital to keep the waste inside.
- 7. Q: Is the EMRC aware of other AD plants locally or around the world?**
A: There are AD plants all around the world. In Australia, there are four AD plants – one is being constructed at Shenton Park (to service the Western Metropolitan Regional Council); Eastern Creek, Sydney; Camelia in Sydney (commercial food waste) and the Arrow Bio Plant (food waste but not green waste) at Jack's Gully, NSW.
- 8. Q: In the UK is the digestate considered inert waste? Or does it have to go to a putrescible landfill?**
A: It depends on the permit system, how high temperatures are in the process, and what kind of waste is being processed in the plant.
- 9. Q: Which are more efficient – steel or concrete tanks?**
A: Concrete lasts longer, but is much dearer. Some concrete tanks in the UK have lasted up to 50-60 years. Glass lined steel is cheaper and more common.
- 10. Q: Are you aware of where compost from AD plants are going onto edible food crops?**
A: In China and Brazil. Generally it is not recommended.

11. **Q: What about going down the path of California, where people are encouraged to compost individually?**
 A: This is not recommended on a long-term basis. The turning of compost releases spores which can be harmful to human health (volatile organic compounds), and in doing large-scale aerobic composting, around 20% of energy is released in turning windrows.
12. **Q: Could you dig the AD tanks below ground?**
 A: It's technically feasible, but from a chemical engineering/process control point of view you would lose a few features. In Australia the temperature variability is too great (and smell can't always be controlled).
13. **Q: There have been discussions about thermal energy with organic waste and efficiency. What happens to inorganic waste in the UK and Europe?**
 A: Normally, thermal treatments are used.
14. **Q: Do you have a sense of cost for using multiple technologies? What sort of policy frameworks do you need to drive the use of these technologies?**
 A: Gate fee is the biggest issue. Right now, gate fees for landfill are cheap in Australia. The environmental impact on landfill later could be horrendous. People are generally reluctant to pay higher costs.
- Australia and America are on par in that landfill is still emphasised for MSW disposal – the rest of the world is trying to find alternatives to landfill. The US central government realises they need to change, but states in the US are unwilling. In California there has been a massive public surge away from landfill. But it is all still related to cost.
15. **Q: There has been an emphasis on waste to energy. Can the organics be converted to animal food?**
 A: It's less likely and not recommended.
16. **Q: Is it possible to make AD more efficient by combining MSW and sewage?**
 A: It's best to have a single feedstock. If different feedstocks are mixed together then complicated biochemical processes are involved. But it is possible to optimise processes once the feedstock has been established but end products are still classed as waste..
17. **Q: Why hasn't EMRC considered having an AD plant at sports ovals and use reclaimed landfill land?**
 A: EMRC has looked at all available options in the region, and considered factors such as waste receipt, waste preparation area, traffic demands and buffer zones for waste receipt. Red Hill was determined as the best location.
18. **Q: There has been very little discussed about sustainability. What are your views on burning methane gas (via AD) rather than returning carbon to the ground via compost? And what about the embedded energy cost of the AD process versus aerobic composting?**
 A: Composting puts CO₂ into the ground temporarily. But it also emits volatile organic compounds, CO₂ and methane.

19. **Q: What contaminants in the waste would have a final result that wouldn't allow compost to be used on a vegetable farm?**
A: It depends on the source of the feedstock. E.g. if batteries were in the feedstock this wouldn't be used including heavy metals and some chlorines and chlorides from plastics.
20. **Q: Is there a rule of thumb regarding the importing of water for technologies?**
A: It depends on the moisture content. Some processes require a discharging of leachate if the feedstock is 'wet'. In some you add water. For MSW the AD process would be unlikely to require water.
21. **Q: Does anyone have a breakdown of household waste in our region?**
A: Yes, EMRC have done waste audits in 2004, 2006 and 2009. Results should be available on EMRC's website.

Additional questions put to Gerald Tetchner after the presentation:

22. **Q: How is the quality of compost (or soil conditioner) checked to ensure that it is safe and usable for its different purposes (i.e. so there isn't any fear about heavy metal contamination etc)?**
A: Analysis in a laboratory for compliance to local standards.
23. **Q: What are the outputs from the process, such as particulates in the atmosphere and the output (waste) water? In other words, what is coming 'out' of the process in addition to the methane gas and compost (i.e. carbon dioxide from the maturation of the digestate, heat and moisture in the biofilters exhaust)?**
A: It depends on the filtration system design and whether or not just crude biofilters are used.
24. **Q: Are any of these 'outputs' potentially hazardous to human health?**
A: As previously stated if a material is composted in open atmosphere, spores and VOC's can be released from the process but if the material has previously been digested and heated high enough to kill off any spores the endangerment to human health is greatly reduced except for potential dust when workers are handling the material which can be offset by wearing dust filter masks.
25. **Q: What is the risk of fire or similar catastrophic events using this process, where methane gas is an output? What kinds of safeguards are generally in these plants to prevent fires? Have there ever been any serious accidents to your knowledge?**
A: To date the writer is unaware of any fires within the digestion process as the moisture content is far too high and the concentration of methane exceeds the upper and lower limits for risk of explosion/fire. The only accidents the writer is aware of is where construction or maintenance personnel have not adhered to safety regulations when entering the confined space of the digester. This will normally not occur as long as confined space safeguards and regulations are adhered to.

26. Q: **Instead of having a third bin system, why don't we consider having a 'garburator' where food goes down into a separate outlet? Especially for new suburbs?**
A: No response provided by Mr Tetchner. EMRC officers have seen a vacuum collection system used in Tokyo but the operators said it was very expensive and they would not recommend it.
27. Q: **Where is a good source of information so that I can find out, in layman terms, what anaerobic digestion is and some examples of it in use?**
A: Google or Wikipedia is the best place to look.
28. Q: **Do you have any recent examples of where AD plants were built with strong community acceptance and/or involvement? Why did the process work so well?**
A: Refer to Monsal presentation and work they have carried out in Scotland and other UK sites. The process works so well basically because the communities have been involved from day one of the project.



9.3 PROGRESS REPORT ON COMMUNITY PARTNERSHIP AGREEMENT

REFERENCE: COMMITTEES-11262

PURPOSE OF REPORT

To advise Council of the progress with the development of a Community Partnership Agreement.

KEY ISSUES AND RECOMMENDATION(S)

- The development of a Community Partnership Agreement (CPA) commenced in mid-2010 with the formation of a Community Task Force (CTF) specifically for the development of a CPA and also to provide comment on the draft tender evaluation criteria.
- The eight community representatives of the CTF plus the two EMRC representatives and with the assistance of an independent facilitator have developed a draft CPA which identifies the community expectations in relation to the development and operation of the Resource Recovery Facility.
- Regional community comment was sought on the draft CPA for 7 weeks during April and May 2011.
- Feedback on the draft CPA has now been considered and the CPA adjusted where the CTF thought this was necessary.

Recommendation

That:

1. Council endorse the EMRC Community Partnership Agreement developed in relation to the Resource Recovery Facility and include this agreement in the tender documents to be addressed by tenderers for the Resource Recovery Facility.
2. The Chief Executive Officer writes to each member of the Community Task Force to thank them for their contribution to the development of the Community Partnership Agreement.

SOURCE OF REPORT

Manager Project Development
Manager Organisational Development

BACKGROUND

On 20 May 2010, Council resolved:

“THAT COUNCIL NOTE THE PROGRESS OF THE RESOURCE RECOVERY PROJECT COMMUNITY ENGAGEMENT AND ENDORSE THE NEXT STAGE OF COMMUNITY INVOLVEMENT, NAMELY THE FORMATION OF A COMMUNITY PARTNERSHIP AGREEMENT.”

Following a call for expressions of interest in July 2010 where the selection criteria, terms of reference and meeting schedule were set out in an Information Pack, the EMRC Community Task Force (CTF) was appointed. Members were selected based on their proximity to the proposed Resource Recovery Facility at Red Hill Waste Management Facility and their links into the community.

The CTF comprised the following community members:

- Martin Chape, Bellevue;
- Jan Foster-Hawkings, Gidgegannup;
- Noel Hales, Hazelmere;



Item 9.3 continued

- Max Jamieson, Helena Valley;
- Peter Jensen, Gidgegannup;
- Greg Jones, Gidgegannup;
- Peter Pearson, Bassendean; and
- Noelene Wigmore, Parkerville.

In addition, the Manager Organisational Development and the Manager Project Development were appointed as EMRC members of the CTF and an independent facilitator, Mr Joel Levin was appointed to guide the group. Mr Greg Jones resigned from the CTF in January 2011 and subsequently Mr Myles Harmer, Mt Helena was appointed in March 2011.

REPORT

Community participation in the Resource Recovery Project over the past 12 months has been driven by the mechanism of a Community Taskforce which has met regularly to produce a final Community Partnership Agreement. The CPA is a document that identifies community expectations in relation to the development and operation of the facility. In broad terms it is a tool that defines the terms under which the community can have input to the project.

The work of creating the Community Partnership Agreement involved identification of values to be protected; outcomes the facility should deliver to protect those values; actions the operator should be asked or required to take in relation to the outcomes identified; and how the community would be kept informed about adherence to the CPA.

The CTF have been provided with the following information and activities to assist their understanding of the project and assist their input to the CPA:

- Attendance at the Community Forum on 18 September 2010;
- Presentations on the project and the environmental monitoring programme;
- Joint meeting with the Mindarie Regional Council's Community Engagement Advisory Group;
- Visit to the Neerabup Biovision 2020 waste composting facility;
- Visit to Red Hill Waste Management Facility, included the proposed site location and education centre; and
- Visit to Boral's Brick West plant in Middle Swan.

The final draft version of the CPA is attached for endorsement and is based around goals and objectives for the construction and operation of the RRF together with possible indicators for each of the objectives. The goals are:

- Goal 1: Ensure strong community involvement and communication;
- Goal 2: Enhance community education and waste recycling;
- Goal 3: Ensure prudent financial performance and long-term viability;
- Goal 4: Achieve high quality operations and monitoring;
- Goal 5: Minimise the impact on human health and the environment; and
- Goal 6: Provide attractive landscaping and site aesthetics.

Given that the CPA will form part of the tender documentation, the draft CPA has been sent to Cardno for comment, especially in relation to the possible goal indicators.



Item 9.3 continued

In parallel with development of the CPA, the CTF have also been involved in providing comment on the draft tender evaluation criteria provided by the project team. These criteria were included in the community forum programme held on 18 September 2010 which generated significant comment and the CTF have used this feedback as guidance in commenting on the draft criteria. The CTF's suggestions on the draft tender evaluation criteria should be finalised at their last scheduled meeting on 16 August 2011.

It is proposed that the CTF will have a briefing on the findings of the environmental assessment of the RRF and access to the draft Public Environmental Review before it is released for public comment.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability:

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

Key Result Area 4 – Good Governance

- 4.4 To manage partnerships and relationships with stakeholders

FINANCIAL IMPLICATIONS

Nil

SUSTAINABILITY IMPLICATIONS

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

MEMBER COUNCIL IMPLICATIONS

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

ATTACHMENT(S)

EMRC Community Partnership Agreement (Ref: Committees-12871)

VOTING REQUIREMENT

Simple Majority



Item 9.3 continued

RECOMMENDATION(S)

That:

1. Council endorse the EMRC Community Partnership Agreement developed in relation to the Resource Recovery Facility and include this agreement in the tender documents to be addressed by tenderers for the Resource Recovery Facility.
2. The Chief Executive Officer writes to each member of the Community Task Force to thank them for their contribution to the development of the Community Partnership Agreement.

Discussion ensued

The Manager Project Development explained that the tenderers would have to address the CPA as part of their tender response and the EMRC would assess this as part of the tender assessment. There was no interaction between the tenderers and the CTF.

Mr King explained that the CPA formed part of the tender process, outlined the community's expectations and also became a performance indicator for the EMRC during the tender evaluation process.

Cr Godfrey suggested a certificate of appreciation be provided to the CTF members.

RRC RECOMMENDATION(S)

MOVED CR FÄRDIG

SECONDED CR PULE

That:

1. Council endorse the EMRC Community Partnership Agreement developed in relation to the Resource Recovery Facility and include this agreement in the tender documents to be addressed by tenderers for the Resource Recovery Facility.
2. The Chief Executive Officer writes to each member of the Community Task Force to thank them for their contribution to the development of the Community Partnership Agreement.

CARRIED UNANIMOUSLY



Community Partnership Agreement

Statement of intent

This *Community Partnership Agreement (CPA)* represents a commitment by the Eastern Metropolitan Regional Council (EMRC) to work with the community to ensure the construction and ongoing operation of the Resource Recovery Facility (RRF) at the Red Hill Waste Management Facility is undertaken in the best interests of the community.

This document once endorsed by Council represents an agreement that has been developed in consultation with the EMRC Community Taskforce (CTF) and the wider community.

In considering the contents of this document the CTF have set the following objectives:

- That the CPA be useful into the long-term for both the community and the EMRC;
- To provide a mechanism for community aspirations and concerns to be captured, heard and responded to in an ongoing manner;
- To provide community confidence that their aspirations and concerns are being considered throughout the project;
- The CPA has credibility and status with the EMRC and community to enforce compliance with these objectives.

The CPA will form part of the Tender documentation to which tenderers will have to respond. In the long-term it will also provide indicators through which the EMRC and RRF operator can benchmark their performance and report back to the community. The CPA will be used at various stages of the RRF project - tender phase, commissioning, ongoing operation and reporting.

Background to the development of this document

The EMRC has collaborated with its six member Councils: Town of Bassendean, City of Bayswater, City of Belmont, Shire of Kalamunda, Shire of Mundaring and the City of Swan in the development of the Resource Recovery Project.

Given that the proposed RRF is likely to influence all aspects of waste management in Perth's Eastern Region, the EMRC has undertaken extensive research on the various technology options and has actively engaged with the community since 2004.

Community input has been sought through a Waste Management Community Reference Group, the Red Hill Community Liaison Group, community workshops, surveys and information sessions. Information on the RRF has also been made available through newsletters, newspaper advertisements and on the EMRC website (www.emrc.org.au).



Community Partnership Agreement

In 2009 the EMRC completed an Expression of Interest process, which enabled the EMRC Council to make key decisions related to the acceptable technologies for the RRF as well as identifying the Red Hill Waste Management Facility as the preferred site.

Following this the EMRC Council established a Community Task Force (CTF) in mid 2010, tasked with the responsibility of drafting the *Community Partnership Agreement* (CPA). In September 2010 the EMRC organised a Community Forum to gather the views, aspirations and concerns of the community in relation to the construction and operations of the RRF. Members of the CTF attended the forum and used feedback from the forum as input into developing the draft CPA.

CTF members have met regularly following the Community Forum and have undertaken the following activities:

- Analysis of community feedback collected during the Community Forum (a report on the forum is available on the EMRC website).
- Met with members of the Mindarie Regional Council's (MRC) Community Advisory Group following a tour of the Neerabup Resource Recovery Facility. This group was responsible for the development of the Mindarie Community Partnership Agreement, prior to the construction of the Neerabup Resource Recovery Facility, run by BioVision 2020 for the MRC.
- Discussions and meetings with their local community to collect information on their aspirations and concerns for the RRF.
- Regular meetings to formulate a *Community Partnership Agreement* giving consideration to the aspirations and concerns of the community.

This final version of the *Community Partnership Agreement* (CPA) incorporates relevant agreed feedback from the community and was presented to the EMRC Council for consideration and acceptance to form part of the tender document. It is intended that the agreement be reviewed as the project progresses and revised to reflect changes as required.

Community Partnership Agreement

The CPA has six goals for the construction and operation of the RRF:

- Goal 1: Ensure strong community involvement and communication**
- Goal 2: Enhance community education and waste recycling**
- Goal 3: Ensure prudent financial performance and long-term viability**
- Goal 4: Achieve high quality operations and monitoring**
- Goal 5: Minimise the impact on human health and the environment**
- Goal 6: Provide attractive landscaping and site aesthetics**

Notes:

- Some items deemed to be more specifically focused on the tender process (ie: short-term in nature) will be included in the draft Tender Evaluation Criteria (TEC), which will form part of the EMRC's tender and selection process.
- Examples of performance indicators are provided for each objective. These indicators will be finalised during the tender process based on feedback from tenderers.

Goal 1: Ensure strong community involvement and communication	
Objective	Examples of possible indicators
1.1 Accessible and regular communication with the community <ul style="list-style-type: none"> • Information about plant operations provided in multiple formats (newsletter, social media, RRF website etc) • Regular reports outlining project milestones and site performance against the CPA 	1.1.1 Quarterly reports made available to the community outlining project milestones, compliance reports and site performance against the CPA 1.1.2 Number of visits to RRF website 1.1.3 Bi-ennial survey of nearby residents/landowners
1.2 Timely and accessible complaints management system in place	1.2.1 Hotline and web site access for complaints acknowledged within 48hrs 1.2.2 Number of complaints and resolution times
1.3 Community Engagement Advisory Group be formed to oversee the implementation, monitoring and periodic review of the CPA	1.3.1 Meeting attendance, frequency and committee composition 1.3.3 Periodic review of the CPA completed

Community Partnership Agreement

Goal 2: Enhance community education and waste recycling	
Objective	Examples of possible indicators
2.1 Design to enable as much of the RRF operations to be viewed as practically possible from a viewing platform or CCTV	2.1.1 Percentage of operations able to be viewed onsite 2.1.2 Percentage of operations able to be viewed online 2.1.3 Number of visits to RRF website 2.1.4 Provision of an interactive video
2.2 Conduct on-site tours and open days for interested parties	2.2.1 Number of tours per year 2.2.2 Number of participants at Open Day
2.3 Incorporate RRF information into the EMRC's existing Education Centre	2.3.1 Visits to education centre 2.3.2 Level of knowledge and improvement from education centre visits
2.4 Encourage waste reduction and source separation throughout the member Councils (Reuse, Reduce, Recycle, Recover) through EMRC's waste education programme	2.4.1 Percentage recovered through recycling 2.4.2 Percentage diverted from landfill

Goal 3: Ensure prudent financial performance and long-term viability	
Objective	Examples of possible indicators
3.1 Value for money operation and services provided to member Councils and their communities	3.1.1 Business plan fully costed over the life of the facility (e.g. 20yr plan) 3.1.2 Costs per household per year
3.2 EMRC runs a financially sustainable operation based on prudent financial management	3.2.1 Quarterly financial reporting 3.2.2 Usefulness/marketability of products produced

Community Partnership Agreement

Goal 4: Achieve high quality operations and monitoring	
Objective	Examples of possible indicators
4.1 Ensure reliable, well managed, ongoing operations	4.1.1 Number of unscheduled shutdowns 4.1.2 Comprehensive Business Continuity & Disaster Recovery Plan in place
4.2 Establish monitoring and reporting systems, including real time analysis of key emissions as part of the operations.	4.2.1 On-stream analysis of key emissions as part of operations 4.2.2 Comprehensive monitoring of all emissions that require sampling as required by DEC licence 4.2.3 Analyses to be made publicly available online and published regularly 4.2.4 Onsite display of key emissions
4.3 Implement defined and documented quality control, assurance and reporting systems.	4.3.1 Performance against quality control systems reported to Community Engagement Advisory Group 4.3.2 Performance improvement targets achieved beyond minimal requirements (noise, dust, odour etc)

Goal 5: Minimise the impact on human health and the environment	
Objective	Examples of possible indicators
5.1 Facility meets licence conditions for noise, air emissions, dust, odour, light and water	5.1.1 No breach of environmental licence and/or ministerial conditions 5.1.2 Set operational targets for emissions below licence limits
5.2 Ensure safe handling, storage and disposal of all materials	5.2.1 Handling, storage and disposal of materials to meet appropriate regulations
5.3 All environmental standards met to ensure no damage to surrounding flora, fauna or human health	5.3.1 Compliance against environmental standards 5.3.2 Compliance against health standards
5.4 Is a net producer of energy and reduces greenhouse gas emissions relative to landfill	5.4.1 Energy efficiency of operations 5.4.2 Net reduction of greenhouse gas emission relative to landfill
5.5 Minimise the use of scarce natural resources	5.5.1 Water recycling 5.5.2 Capture of water run off



Community Partnership Agreement

Goal 6: Provide attractive landscaping and site aesthetics	
Objective	Examples of possible indicators
6.1 Provide a functional and visually acceptable landscaped facility	6.1.1 Community and customer feedback 6.1.2 Use of local native flora where practical
6.2 Retain existing site buffer zones	6.2.1 Facility location complies with site licence buffer zones

Acknowledgement

The effort and commitment of the Community Task Force members, listed below is acknowledged for their work in development of the Community Partnership Agreement.

1. Jan Foster-Hawking, Gidgegannup;
2. Martin Chape, Bellevue;
3. Max Jamieson, Helena Valley;
4. Myles Harmer, Mt Helena;
5. Noel Hales, Hazelmere;
6. Noelene Wigmore, Parkerville;
7. Peter Jensen, Gidgegannup;
8. Peter Pearson, Bassendean;
9. Stephen Fitzpatrick (Manager Project Development, EMRC)
10. Prapti Mehta (Manager Organisational Development, EMRC)

The assistance of the following is also appreciated

1. Greg Jones, Stoneville (CTF member from August to December 2010)
2. Joel Levin, Independent facilitator assisting the Community Taskforce



9.4 WASTE AND RECYCLE CONFERENCE 2011

REFERENCE: COMMITTEES-12826

PURPOSE OF REPORT

To advise Council of the forthcoming Waste and Recycle 2011 Conference to be held in Fremantle from 12-16 September at The Esplanade Hotel, Fremantle.

KEY ISSUES AND RECOMMENDATION(S)

- The W.A. Waste and Recycle Conference is to be held in Fremantle between 12-16 September 2011.

Recommendation(s)

That:

1. Councillors and officers note the dates of the forthcoming conference.
2. Councillor(s) _____ be authorised to attend the W.A. Waste and Recycle 2011 Conference.
3. Four places be offered to the Waste Management Community Reference Group (WMCRG) in the event that some members may wish to attend.

SOURCE OF REPORT

Director Waste Services

BACKGROUND

Advice has been received that the W.A. Waste and Recycle 2011 Conference is to be held between 12-16 September 2011 at The Esplanade Hotel Fremantle and that the theme of the conference is "Waste or Resource? Food for thought".

REPORT

The W.A. Waste and Recycle Conference is an annual event which caters to those involved in waste management, resource recovery and recycling. In 2010, five EMRC Councillors and four WMCRG members registered to attend the Waste & Recycle Conference.

The theme for 2011 is "Waste or Resource? Food for thought". Registration includes access to internal exhibition displays, the opportunity to hear five internationally respected Keynote Speakers, participate in a forum for current trends and issues with open discussion on possible solutions and multiple workshops ranging across the Conference theme. Attendance also allows for participants to share experience and knowledge with peers on previous achievements and successes, provides access to tools and strategies to improve corporate environmental performance.

The W.A. Waste and Recycle Conference 2011 will again host the Waste Authority's Waste Awards, a chance to recognise and celebrate the outstanding performance and efforts in the waste management area by Local Government, industry and the community. There will also be the opportunity to expand corporate knowledge on the industry's regulatory framework as well as networking in an informal setting with others in the waste industry.



Item 9.4 continued

The keynote speakers include Amy Cabaniss (Environmental Coordinator for Connecticut College, New London, Connecticut, USA), Heidi Sanborn (Executive Director, California Product Stewardship Council, California, USA), Dr Richard Denniss (Executive Director, The Australia Institute), Neal Bolton (Principal/owner of Blue Ridge Services, a landfill consulting company and Registered Civil Engineer, Atascadero, California, USA), Greg Hebble (CEO of Foodbank WA Inc). Details of the conference sessions including pre-conference tours and workshops are attached (Attachment 1).

The conference programme covers a range of issues that are generally of interest to the EMRC.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability:

- 1.1 To provide sustainable waste disposal operations
- 1.4 To investigate leading edge waste management practices

Two of the host organisations are WALGA and the WMAA. The EMRC supports both of these organisations by participating in their activities and by cooperating and sharing information with others.

FINANCIAL IMPLICATIONS

The expenditures for councillor and officer attendance at conferences are budgeted each year. Similarly, an allowance of \$4,500 is made each year in the Resource Recovery Budget for WMCRG members to attend local conferences and seminars. The cost of full registration for 2011 is expected to be approximately \$1,560 per person.

SUSTAINABILITY IMPLICATIONS

Nil

MEMBER COUNCIL IMPLICATIONS

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

ATTACHMENT(S)

1. Conference Programme (Ref: Committees-12886)
2. Conference Assessment Form (Ref: Committees-12863)



Item 9.4 continued

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That:

1. Councillors and officers note the dates of the forthcoming conference.
2. Councillor(s) _____ be authorised to attend the W.A. Waste and Recycle 2011 Conference.
3. Four places be offered to the Waste Management Community Reference Group (WMCRG) in the event that some members may wish to attend.

RRC RECOMMENDATION(S)

MOVED CR LINDSEY

SECONDED CR GODFREY

That:

1. Councillors and officers note the dates of the forthcoming conference.
2. Councillors _____ be authorised to attend the W.A. Waste and Recycle 2011 Conference.
3. Four places be offered to the Waste Management Community Reference Group (WMCRG) in the event that some members may wish to attend.

CARRIED UNANIMOUSLY

Proposed Keynote Speakers

We are excited to welcome the following internationally recognised keynote speakers to present at this year's Conference.



Amy Cabaniss

Environmental Coordinator for Connecticut College, New London, Connecticut, USA

Amy Cabaniss is editor of the 'Handbook on Household Hazardous Waste' (Government Institutes, 2008).

She has worked as an environmental educator for over 20 years with specialisation in solid waste education. She is the Environmental Coordinator for Connecticut College, New London, Connecticut, USA, where she manages campus environmental initiatives on waste minimization and recycling, energy conservation and efficiency, renewable energy and more. She serves on the college's Sustainability Steering Committee and as the American College and University Presidents Climate Commitment liaison for the college.

For six years she worked as a regional recycling coordinator during which time she hosted HHW and consumer electronics collections, and oversaw the construction and operation of a permanent HHW facility for the 9-town region of 25,000 households, among other responsibilities.

She has served several terms on the Board of Directors of the North American Hazardous Materials Management Association and is the NAHMMMA-New England Chapter President. As well, she chaired the Non-formal (Educators) Commission of the North American Association for Environmental Education for three years.

She is a doctoral candidate in environmental studies at Antioch University New England in New Hampshire. Her dissertation research applies behavioural theories to a community-based social marketing intervention to increase HHW program participation. She has an MBA in Management and Organization and a BS in Environmental Conservation.



Heidi Sanborn

Executive Director, California Product Stewardship Council, California, USA

Heidi has been active in the solid waste industry in California for 20 years working in various public and private positions including with consulting firms to cities and counties on reducing waste and increasing recycling, as an independent consultant, and serving in state government as the technical advisor to the Chair of the then California Integrated Waste Management Board (CIWMB) now known as CalRecycle.

In her positions, Heidi observed the lack of attention to true "source reduction," recognizing that local governments are not the source, but that manufactured products are responsible for 71% of our waste.

She helped found and is currently the Executive Director of the California Product Stewardship Council (CPSC). Heidi speaks internationally on producer responsibility and is widely recognised as the expert on EPR policy in California. She has been called to serve as an expert witness, and in 2009 she made presentations on packaging to the California Ocean Protection Council, National EPA Pollution Prevention conference in Washington D.C., and on two EPA national webinars on EPR. She has authored many articles and reports on product stewardship. She develops partnerships with businesses working to be good stewards.

Ms. Sanborn is a graduate of the University of California at Davis with a Bachelor of Arts in Political Science - Public Service and a Master's of Public Administration from the University of Southern California.



Dr Richard Dennis

Executive Director, The Australia Institute

Dr Richard Dennis is the Institute's Executive Director. He is an economist with a particular interest in the role of regulation.

The Australia Institute is the country's most influential progressive think tank. Based in Canberra, it conducts research on a broad range of economic, social and environmental issues in order to inform public debate and bring greater accountability to the democratic process.

Prior to taking up his current position he was an Associate Professor at the Crawford School of Economics and Government at the Australian National University where he continues to hold an adjunct appointment. Richard has also worked as Strategy Adviser to the Leader of the Australian Greens, Senator Bob Brown, Chief of Staff to the Leader of the Australian Democrats, Senator Natasha Stott Despoja, and lectured in economics at the University of Newcastle.

Richard has published extensively in academic journals, is a frequent contributor to national newspapers and was the co-author of the best-selling 'Affluenza' (with Dr Clive Hamilton) and is the co-author of 'An Introduction to Australian Public Policy: Theory and Practice' (with Dr Sarah Maddison).



Neal Bolton

Principal/owner of Blue Ridge Services, a landfill consulting company and Registered Civil Engineer, Atascadero, California, USA

Neal has more than 30 years experience in heavy construction and landfill operations.

His background in heavy construction includes work in excavating, grading, paving, and underground projects, and experience as a labourer, equipment operator, foreman, superintendent, and estimator.

Neal formed his consulting company, Blue Ridge Services, in 1986 and currently provides operational consulting services for a wide range of private and municipal landfills and transfer stations.

As well as working on landfill siting, expansion and closure projects, presenting training programs for thousands of people through nearly 200 training programs, Neal has written more than 150 articles on solid waste and landfills and is considered one of the industry's leading experts on landfill operations.

He is a regular columnist for 'Solid Waste Online' and 'MSW Management' and has published articles in 'Solid Waste Technologies', 'World Waste' magazine and 'Waste Age' magazine, and has written two handbooks on landfill operations and safety.



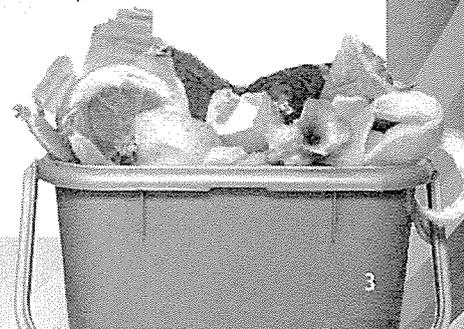
Greg Hebble

CEO of Foodbank WA Inc.

Greg has been with Foodbank since June 2009.

He has worked in the FMCG industry for over 28 years. During this time he has held management positions with Coles, Nestle, Simplot, and more recently, National Foods.

Greg has spent the last 8 years as a volunteer on the YMCA Board of Directors in Perth, Sydney and YMCA Australia, where he is the current Immediate Past President.



Wednesday 14 September: Tours and Workshops

Household Hazardous Waste Tour and Workshop

Half-day morning workshop and tour: 8.30 am–12.30 pm

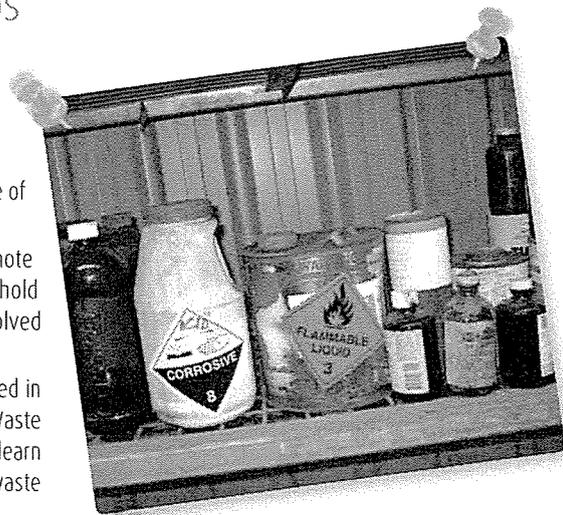
According to some estimates, Household Hazardous Waste (HHW) makes up between 0.3–0.6% of the municipal waste stream. HHW includes materials like paint, pesticides, batteries and acids. These materials, if disposed of incorrectly, can be harmful to both the environment and human health.

This session will involve a tour of a Local Government Household Hazardous Waste permanent facility to see how the material should be collected and stored, and a workshop

on the collection, treatment and avoidance of Household Hazardous Waste.

There will be presentations from Keynote Speaker Amy Cabaniss, local Household Hazardous Waste experts and those involved in the treatment of this material.

This session will be great for those involved in waste education, Household Hazardous Waste collection/disposal and those who'd like to learn more about one of the more challenging waste streams being collected.



City of Canning and Shredding Services Tour

Half-day morning tour: 8.30 am–12.30 pm

The City of Canning established a green waste recycling operation at its Canning Vale waste transfer station in July 2010 and, given local sensitivities, it was not good enough to only manage impacts on adjoining occupiers, there were to be no impacts. The services of a specialist contractor were required.

Through a public tender process Shredding Services was awarded the contract to grind and remove green waste on an at-call basis.

Shredding Services offered a complete service: our in-house capabilities to shred, load and

cart ticked all the boxes, particularly the City's requirement that all shredded green waste be removed from site within 24 hours of grinding.

In addition to green waste Shredding Services have the capability to shred a wide range of products from timber, plastic, light gauge steel (white goods) tyres and mattresses.

A demonstration of tyre and white goods shredding will be of particular interest to landfill operators looking for solutions to these problem waste streams.



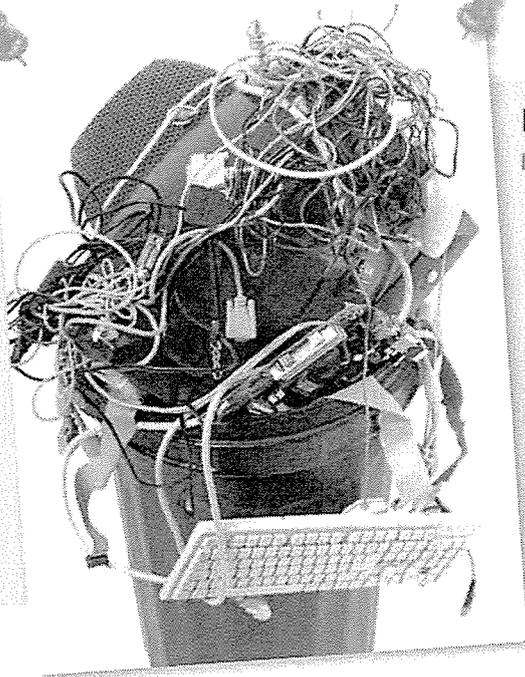
MRC Tamala Park Tour

Half-day morning tour: 8.30 am–1.15 pm

The Mindarie Regional Council (MRC) in Perth's northern corridor receives over 350,000 tonnes of waste each year at its state-of-the-art facilities. Join this half-day tour and see the impressive Tamala Park landfill operation.

Included is a visit to the public recycling and hazardous waste collection centre, transfer station and the landfill site itself where you will see the continued Phase III development of the landfill and view a demonstration of the newly-acquired Tarpomatic alternate daily cover system.





Electronic Waste: From Big Picture to Practical Application

Half-day morning workshop: 8.30 am – 12.30 pm

This workshop will include an outline of the big picture for electronic waste (e-waste) including the coming product stewardship scheme for televisions and computers and the various approaches to managing e-waste.

This session also provides a practical hands-on section, for those interested in how electronic waste is processed in a manual disassembly operation typical of many of the current e-waste recyclers in Western Australia.

The session is designed to be quite informal and will provide plenty of opportunity for participants to learn more about various aspects of e-waste recycling.

Creature Comforts Tour

Half-day afternoon tour: 1.30 pm – 5.30 pm

This tour will start with a gentle stroll around historic Fremantle, following one of the heritage trails developed by the City of Fremantle.

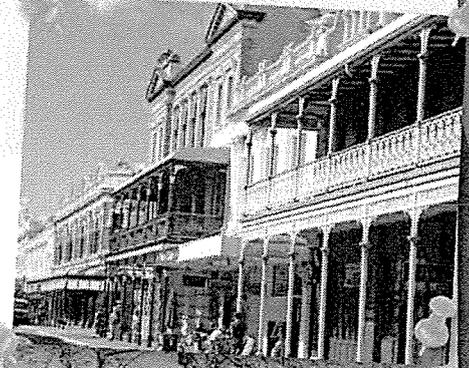
Get a proper taste of Freo at the Fremantle Chocolate Factory, where the experts will explain about the chocolate-making process and provide a few samples of their handiwork.

'Little Creatures Brewery' is one of the iconic venues to visit in Fremantle.

Justifiably famous for the on-site brewing, this tour includes a visit to the brewery and a chance

to hear about the waste management solutions developed by the Little Creatures. To finish the tour, there will be a beer tasting session.

Please wear comfortable shoes as this tour does involve walking.



Women in Waste Workshop

Half-day afternoon workshop: 1.30 pm – 5.30 pm

The 2010 Waste Industry Workforce Development Plan produced by the Electrical Utilities and Public Administration (EUPA) Training Council identified that the Waste Industry employs mainly male workers, while female employment is well below the average for all industries. The aim of the 'Women in Waste' workshop is to bring together women (and men) from all areas of waste to talk about their challenges and offer solutions to how to increase participation by women in the Waste Industry.

During this workshop we will hear from well-respected and inspirational women from the areas of Local and State Government, the recycling sector, politics and consulting as they talk about their experiences in the waste industry, and other industries, where women are under-represented in the workforce.

This workshop will offer participants an

opportunity to hear from some successful women in the industry, as well as network with other women in the waste sector. The Workshop will give you the opportunity to share your experiences, and offer suggestions on what initiatives should be developed to encourage greater participation by women in the waste industry.



Wednesday 14 September: Tours and Workshops

Fruits of the Vine Winery Tour

Half-day afternoon tour: 1.30 pm – 5.30 pm

The Sandalford Winery staff will present a 'behind the scenes' tour of the operational winery, including wastewater treatment and recycling processes.

Following the tour, Sandalford Cellar staff will conduct a wine tasting, but this is no ordinary tasting, we go back to basics and learn how to evaluate wine. Guests go through all the assessment points, of colour, nose and palate. This session concludes with a tasting of an aged, fortified wine straight from the oak barrel.



All That Glitters: Glass Processing in Perth

Half-day afternoon tour: 1.30 pm – 5.30 pm

The Tour combines a materials recovery facility (MRF) and a visit to the new Colmax, fully integrated, glass processing plant in Kewdale.

On the tour you will see how a MRF operates as well as the next step in the process for where the glass goes. The operations of the Colmax facility includes automatic colour sorting, beneficiation and super fine glass grinding.

The Colmax facility is capable of processing up to 40,000 tonnes of glass per annum, with less than 5% waste. Colmax processes glass fines from a range MRF's turning what was once a waste into a resource.



Waste Authority Workshop: Developing Core Messages for Waste Education

90 minute workshop 4.00 pm – 5.30 pm
Free of charge but please register



Waste Authority



Feedback to the draft State Waste Strategy highlighted the importance of actioning a State Waste Education Plan.

Take the opportunity to assist the Waste Authority in developing key messages to underpin waste education and the future plan.

Industry, local government and educators play a critical

role in the planning and development of strong generic messages that are relevant to each industry sector.

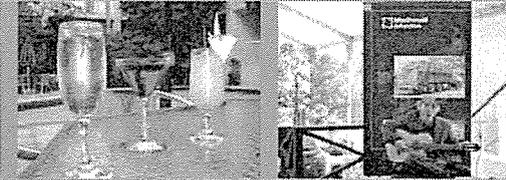
Join a dynamic session with market and industry professionals that will introduce you to the draft State Waste Education Plan framework and challenge you to contribute to the development of generic messages that can positively affect your business.



Program: Thursday 15 September

Please note: Program is subject to change.

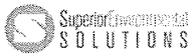
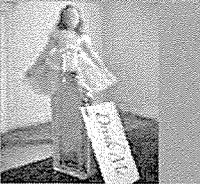
7.00 am	'Meet the Waste Authority' Breakfast		
8.00 am	Registration		
8.25 am	Housekeeping		
8.30 am	Welcome To Country		
8.35 am	Official Opening by the Hon. Bill Marmion, Minister for the Environment; Water		
8.45 am	Introduction of Friday's Keynote Speakers: Neil Bolton, Heidi Sanborn and Richard Denniss		
9.00 am		Keynote Address: Amy Cabaniss Connecticut College, USA <i>Handbook on Household Hazardous Waste</i>	
9.45 am		Keynote Address: Greg Hebble Foodbank WA, Australia <i>Foodbank WA, Charities, Food Waste and Optimisation</i>	
10.30 am	Morning Tea amongst the Trade Exhibition		
Stream	Concurrent #1: Orion Room Brave New World	Concurrent #2: Pleiades Room Local Government	Concurrent #3: Admiralty Gulf Room Landfill
11.00 am	Pippa Hepburn and Jason Pugh New Energy Corporation <i>Drivers for Waste to Energy Project Development</i>	Jenny Campbell and Geraldine Busby Encycle Consulting <i>Local Government Recycling Data Reporting Protocol</i>	Graeme Alford Landfill Gas & Power <i>Landfill Gas Destruction - Carrots and Sticks</i>
11.30 am	Debbie Lawrence Department of Sustainability, Environment, Water, Population and Communities (DSEWPac) <i>National Television and Computer Product Stewardship Scheme</i>	Brett McInnes and Chris Curd City of Melville <i>"Bigger is Better" 360 ltr Household Recycling Bin Trial</i>	Neal Bolton Blue Ridge Services, California, USA <i>Keynote Concurrent: Reducing Cover Soil Use at Landfills</i>
12.00 pm	Michael Voros Freehills <i>The New Carbon World</i>	James McGovern WALGA <i>Proforma Waste Local Law</i>	Tess Boyes Department of Environment and Conservation <i>Data Collection on Solid Waste to Landfill</i>
12.30 pm	Lunch amongst the Trade Exhibition		
Stream	Concurrent #4: Orion Room Products and Services	Concurrent #5: Pleiades Room Food Waste and Organics	Concurrent #6: Admiralty Gulf Room Regional and Remote
1.30 pm	Richard Isted and Ray Cook Cardno <i>Best Waste Routes in Busselton</i>	Richard Denniss The Australian Institute, Australia <i>Keynote Concurrent</i>	Stuart Cowie Department of Environment and Conservation <i>National Waste Policy: Australia Working Together to Increase Capacity in Regional and Remote Communities</i>
2.00 pm	Steve Brooks and Mike Slutz Tarpomatic Australia <i>Tarpomatic makes Nothing but Sense</i>	Kevin Wilson SITA <i>Commercial Organic Waste - Key Learnings</i>	Noah Pleshet Centre for Appropriate Technology (CAT) <i>Transport and Sustainable Indigenous Community Recycling</i>
2.30 pm	Stuart Knight Accuweigh <i>Weigh Wash and Data Capture Solutions</i>	Andrew Gulliver Custom Composts <i>Mobile Aerated Composting Systems - Simple, Practical, Cost Effective Organic Waste Management for Regional and Rural Communities</i>	Erin Henson Zero Waste South Australia <i>Behind the Scenes - The True Story Behind Two Key Regional and Remote Projects in SA</i>
3.00 pm	Michael Coghill and James Coghill Total Green Recycling <i>E-waste - Innovative Recycling Solutions Required to Meet the Demands of the World's Fastest Growing Waste Stream</i>	Martin Gravett Anaeco <i>Large-Scale Hybrid Digestion and Composting Implementation</i>	Rachel D'Arcy Department of Environment and Resource Management <i>Waste Management Models for Two Contrasting Island Communities in Queensland</i>

3.30 pm	Afternoon Tea amongst the Trade Exhibition		
Stream	Concurrent #7: Orion Room Case Studies	Concurrent #8: Pleiades Room Community	Concurrent #9: Admiralty Gulf Room Reporting
4.00 pm	Katherine Goldsmith Mindarie Regional Council <i>Reducing the migration of Portuguese Millipedes into an urban setting</i>	Maureen Maher Keep Australia Beautiful <i>Models for Community Engagement</i>	Mike Daniels WMAA <i>WMAA C&I Project - Outcomes</i>
4.30 pm	Andrew Gotley Wirtgen Australia Pty Ltd <i>C&D Equipment Advances</i>	Nabilla Zayan Western Metropolitan Regional Council <i>Reinvigorating the Earth Carers Programme - A Community Education and Engagement Program on Waste Management</i>	Kristie Stevens Department of Environment and Conservation <i>Driving down emissions with 'CleanRun' Eco Drive</i>
5.00 pm	Elmar Offenbacher BDI - BioEnergy International AG, Austria <i>The Design and Experience of Advanced Anaerobic Digestion Converting Organic Fraction of MSW and Food Waste into Valuable BioGas</i>	Peg Davies Mindarie Regional Council <i>Are We Making a Difference or Just Talking Rubbish?</i>	15 Minute Updates Doug Hall WMAA/Compost WA <i>WA's Compost Industry Development Project - An update</i> Bruce Bowman WMAA/WA <i>WMAA WA's activities</i>
5.30 pm	Conference Day Concludes		
5.30 pm	Poolside Tropical Cocktail Function Outdoor Resort Pool Sponsored by:  MacDonald Johnston		
7.30 pm	Close		



Program: Friday 16 September

Please note: Program is subject to change.

8.00 am	Registration		
8.25 am	Housekeeping		
8.30 am	 Keynote Address: Neal Bolton Blue Ridge Services, California, USA <i>Methods of Achieving Proficiencies in Landfill</i>		
9.15 am	 Keynote Address: Heidi Sanborn Product Stewardship Consultant, USA <i>Title to be confirmed</i>		
10.00 am	Morning Tea amongst the Trade Exhibition		
Stream	Concurrent #10: Orion Room Food Waste	Concurrent #11: Pleiades Room Household Hazardous Waste	Concurrent #12: Admiralty Gulf Room Case Studies
10.30 am	Greg Hebble Foodbank WA <i>Keynote Concurrent</i>	Amy Cabaniss Connecticut College, USA <i>Keynote Concurrent</i>	Aimee Hynes Western Metropolitan Regional Council <i>Redevelopment of an Existing Transfer Station for AWT</i>
11.00 am	Jenny Pickles Packaging Stewardship Forum, Australian Food and Grocery Council <i>Beverage Industry Packaging Product Stewardship in WA</i>	Selena Papps Sustainability Victoria <i>Detox Your Home – Sustainability Victoria’s Household Chemical Program</i>	Eunice Zisani & Zamal Hossain Green Stamp Program <i>Environmental Management Tools for SMEs through The Green Stamp Program</i>
11.30 am	Jaya Nair Murdoch University <i>Food Waste Treatment Processes – A Feasibility Assessment</i>	Kelsie Prabawa and Tania Wells Eco Change Consulting <i>Learnings from a 12 Month Trial of Public Place Fluorescent Globe Recycling in the Eastern Metropolitan Region of WA</i>	John Jackson Cardno <i>Increasing Performance at Public Waste Drop Off Sites – Through Innovative Design and Operation</i>
12.00 pm	John McBain <i>“Waste” to Food (W2F) Gardens</i>	Lincoln Falconer Biohazard Waste Industry – Division of WMAA <i>New Directions in Clinical Waste Management</i>	Greg Lyons Charles Darwin University Michael Spry Batchelor Institute of Indigenous Tertiary Education Richard Turnbull Batchelor Institute of Indigenous Tertiary Education <i>The ‘Rubbish Mob’</i>
12.30 pm	Lunch amongst the Trade Exhibition		
1.30 pm	Heidi Sanborn Product Stewardship Consultant, California, USA <i>Keynote Concurrent</i>		
2.00 pm	Rick Ralph Waste Contractors & Recyclers Association of Queensland <i>Flood and cyclone disaster recovery cleanups – important lessons from Queensland in 2011</i>		
2.45 pm	 Keynote Address: Richard Denniss The Australian Institute, Australia <i>Research and Food Waste</i>		
3.30 pm	Conference Wrap and Prize Draws		
3.40 pm	Afternoon Tea in the Hotel Foyer		
	Conference Concludes		
7.30 pm	Conference Dinner Sponsored by:  	Theme: Alice in Wonderland  	
Midnight	Close		

Registration types and fees

Please note it is essential for all attendees to send a completed Registration Form together with payment of registration fees. All prices are in Australian dollars and include 10% GST.

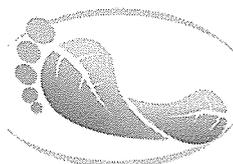
Registration Types	Entitlements	Prices are in Australian Dollars and include 10% GST
Option 1	Access to the Thursday 'Meet the Waste Authority' Breakfast only .	\$75.00
Option 2	Access to all tours and workshops on Wednesday and the Trade Exhibition.	\$275.00
Option 3	Access to a single half-day tour or workshop on Wednesday.	\$175.00
Option 4	Access to the Waste Authority Workshop on Wednesday afternoon.	FREE
Option 5A Available on or before 15 August 2011.	Access to all sessions on Wednesday, Thursday and Friday, Trade Exhibition, the Poolside Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings. Exclusive of the Breakfast meeting on Thursday.	\$1,210.00
Option 5B Applicable after 15 August 2011.	Access to all sessions on Wednesday, Thursday and Friday, Trade Exhibition, the Poolside Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings. Exclusive of the Breakfast meeting on Thursday.	\$1,331.00
Option 6A Available on or before 15 August 2011.	Access to all sessions on Thursday and Friday, Trade Exhibition, the Poolside Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings. Exclusive of the Breakfast meeting on Thursday.	\$1,100.00
Option 6B Applicable after 15 August 2011.	Access to all sessions on Thursday and Friday, Trade Exhibition, the Poolside Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings. Exclusive of the Breakfast meeting on Thursday.	\$1,210.00
Option 7	Access to all session on Thursday, the Trade Exhibition and a Conference Satchel. Exclusive of social functions.	\$550.00
Option 8	Access to all session on Friday, the Trade Exhibition and a Conference Satchel. Exclusive of social functions.	\$550.00

Registration and Payment

Payment of fees must accompany all registration forms. Registrations will not be processed until payment is received. Registration and payment can be made by the following methods.

- Complete and submit the online registration form at www.wasteandrecycle.com.au.
- or
- Complete the hard copy Registration Form and return to Keynote Conferences:
 - Fax to +61 8 9380 4006
 - or
 - Post to the Conference Secretariat, Keynote Conferences, Suite 36, 375 Hay Street, Subiaco Mews, Subiaco, WA 6008.

Important note: To be entitled to an early registration rate you must submit your completed Registration Form along with the required payment to the Conference Secretariat no later than 15 August 2011. After this date Full Registration fees will be applicable.



Carbon Neutral Registration

The Waste & Recycle 2011 Conference is once again working toward being a carbon neutral event. The Conference will purchase Greenhouse Friendly approved carbon offsets to counter the carbon emissions that have been produced by the event this year, as well as taking various measures to reduce its environmental impact.

Delegate emissions have been estimated, we wish to encourage each attendee to contribute by offsetting the carbon emissions generated by their attendance. All monies generated by this section of the registration form will go directly to offsetting emissions.

All registrants that participate will also be recognised as a carbon neutral delegate on their name badge. Organisations will also be recognised via a list in both the Conference Proceedings and the Conference Program for contributing to this offset program.

Cost per attendee to offset their carbon emissions: \$27.50 inclusive of GST.

Social Program



'Meet The Waste Authority' Breakfast

Thursday 15 September

7.00–8.00 am, Admiralty Gulf Room, Esplanade Hotel

Dress: Office Attire

Cost: \$75.00 incl. GST

This breakfast event will provide an opportunity for you to meet the current Waste Authority members, as well as an opportunity to interact with a range of key players from the industry. Whether you're new to the industry, an old hand or somewhere in the middle, this event provides you a chance to hear how the Authority will be working 'Towards Zero Waste'.

Sponsored by



Waste Authority



Welcome Reception and Waste Authority Awards

Wednesday 14 September

5.30–7.00 pm in the Pleiades Room and Trade Exhibition, Esplanade Hotel. Light catering and beverages available.

Dress: Office Attire

Cost: Free—please indicate attendance for catering purposes

The Minister for Environment Hon. Bill Marmion will present the Waste Authority's Waste Awards, acknowledging and celebrating the outstanding efforts achieved by local government, industry and the community that contribute towards the Waste Avoidance and Resource Recovery Act objectives.

There are five award categories:

- Waste Reduction and Resource Recovery Initiative
- Community Recycling Initiative
- Local Government Waste Reduction Initiative
- Waste Wise Schools
- Waste Champion

Nominations opened on 1 May 2011 and closed on 8 July 2011. Nomination guidelines and nomination forms can be downloaded from www.zerowastewa.com.au

All categories of Awards will be judged by a panel of experts with the Waste Authority choosing the final winners.

Sponsored by



Waste Authority



Poolside Tropical Cocktail Function

Thursday 15 September

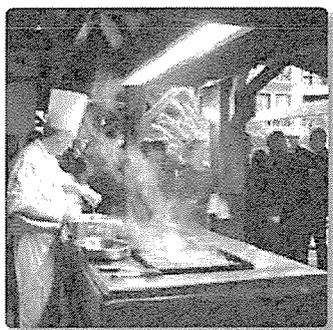
5.30–7.30 pm, The Resort Pool Decking Area, Esplanade Hotel

Dress: Smart Casual

Cost: Included in full registrations or \$88.00 incl. GST

You can't come to Fremantle and not taste its fresh produce. With barbeques with fresh seafood sizzling, tropical cocktails to tingle your taste buds and plenty of good company, it's an event not to be missed!

Sponsored by



Conference Dinner

Themed to: Alice in Wonderland on Friday 16 September

7.30 pm to late, The Orion and Pleiades Rooms, Esplanade Hotel

Dress: Fancy Dress to Alice—but be warned: no white roses or the Queen will have your head!

Cost: Included in full registrations or \$110.00 incl. GST

Late! You're late for a very important date! Come dressed in your best for the famed Mad Hatter's Tea Party.

Sponsored by



Tarpomatic



EASTERN METROPOLITAN REGIONAL COUNCIL

CONFERENCE ASSESSMENT FORM

CONFERENCE DETAILS: WASTE & RECYCLE CONFERENCE 2011

ORGANISING BODY: WALGA, DEC and WMAA

LOCATION/ DATE: The Esplanade Hotel, Fremantle WA, 12-16 September 2011

THEME: WASTE OR RESOURCE? FOOD FOR THOUGHT

ESTIMATED COST/ PERSON: \$ 1,560

ESTIMATED TOTAL COST: \$ _____ **BUDGET AVAILABLE:** \$ 12,310

ASSESSMENT CRITERIA	FACTOR		
	LOW (1)	MED (2)	HIGH (3)
Current/ Future Direction			X
Council Objective			X
Topical/ Relevant		X	
Business Objective		X	
Historic/ Expected Attendance			X
* Other Sources of Information		X	
Content Similarity		X	
TOTAL			$\frac{17}{21}$

* Low score means high availability of data.

Conference Report Required? (✓) **Y** **N**

Recommendation: _____ That Councillors and Officers attend. _____

Prepared By: Steve Fitzpatrick Manager Project Development

Chief Executive Officer  _____



9.5 RESOURCE RECOVERY FACILITY - PREFERRED TECHNOLOGY OPTIONS

REFERENCE: COMMITTEES-12849

PURPOSE OF REPORT

To advise Council of the outcome of discussions with the Environmental Protection Authority (EPA) in relation to the Environmental Scoping Document (ESD) and a suggested change to the preferred technology options for the Resource Recovery Facility to be located at Red Hill Waste Management Facility.

KEY ISSUES AND RECOMMENDATION(S)

- Development of the Public Environmental Review (PER) has been progressing, a key aspect of which is the modelling of emissions data in order to compare this with ambient air quality standards.
- Obtaining environmental emissions data from the acceptable tenderers has been a lengthy process.
- The draft Environmental Scoping Document which is the precursor to the PER has been submitted to the EPA.
- On Thursday 21 July 2011, the CEO, Manager Project Development and Mr John King of Cardno met with the EPA to make a short presentation on the proposal and discuss the ESD.
- The direction suggested strongly by the EPA was that they would not want to assess four technology options within the PER and recommended that the EMRC consider reducing this to two options, namely anaerobic digestion and gasification.
- Pyrolysis technology was not offered by any of the acceptable tenderers at the Expressions of Interest (EOI) stage and obtaining detailed environmental emissions data on commercial scale pyrolysis reference facilities using Municipal Solid Waste (MSW) has been difficult and only partly successful.
- Based on analysis to date, combustion technology is likely to be a more expensive option than anaerobic digestion or gasification, due to the scale of operation and the cost of the emission control equipment and it is perceived as the most controversial with the community.

Recommendation(s):

That Council confirms the technology options for the Resource Recovery Facility at Red Hill Waste Management Facility as anaerobic digestion and gasification.

SOURCE OF REPORT

Manager Project Development

BACKGROUND

Following the Expressions of Interest process in mid-2009, Council resolved on 24 September 2009 that:

"1. THE FOLLOWING PRELIMINARY RECOMMENDATIONS OF THE RESOURCE RECOVERY COMMITTEE FORM THE BASIS OF CONSULTATION BETWEEN THE EMRC AND THE MEMBER COUNCILS AND THE COMMUNITY WITH THE INTENTION OF REPORTING BACK TO COUNCIL IN APPROXIMATELY MARCH 2010 WITH A FINAL RECOMMENDATION.

A RED HILL WASTE MANAGEMENT FACILITY IS THE PREFERRED SITE FOR THE RRF BASED ON ENVIRONMENTAL, ECONOMIC AND PLANNING CONSIDERATIONS, COMMUNITY RESEARCH AND THE POTENTIAL VALUE OF THE EMRC HAZELMERE SITE AS A RESOURCE RECOVERY PARK.



Item 9.5 continued

- B THE DESIGN & CONSTRUCT CONTRACT OWNERSHIP MODEL IS PREFERRED TO A BUILD OWN OPERATE CONTRACT MODEL.*
- C THE RRF TECHNOLOGY OPTIONS INCLUDING ANAEROBIC DIGESTION, GASIFICATION AND PYROLYSIS ARE RANKED HIGHER THAN COMBUSTION AND PLASMA AT THIS STAGE BUT MORE INFORMATION IS REQUIRED BEFORE A FINAL PREFERENCE CAN BE DETERMINED.*
- D A THIRD BIN FOR HOUSEHOLD ORGANIC WASTE COLLECTION IS CONSIDERED IN CONJUNCTION WITH ANAEROBIC DIGESTION TECHNOLOGY.”*

Following visits to reference facilities in January 2010 and consultation with member Councils, Council resolved on 20 May 2010 that:

- "1. THE FOLLOWING OPTIONS ARE CONFIRMED AS THE PREFERRED OPTIONS FOR THE RESOURCE RECOVERY FACILITY:*
 - A) RED HILL WASTE MANAGEMENT FACILITY IS THE PREFERRED SITE FOR THE RRF.*
 - B) THE DESIGN & CONSTRUCT CONTRACT OWNERSHIP MODEL IS PREFERRED TO A BUILD OWN OPERATE CONTRACT MODEL AT THIS STAGE OF THE PROJECT.*
 - C) THE RRF TECHNOLOGY OPTIONS INCLUDE ANAEROBIC DIGESTION, GASIFICATION, PYROLYSIS AND COMBUSTION. PLASMA TECHNOLOGY WILL ONLY BE CONSIDERED IF IT IS AN INTEGRAL PART OF ONE OF THESE TECHNOLOGIES.*
 - D) A THIRD BIN FOR HOUSEHOLD ORGANIC WASTE COLLECTION BE CONSIDERED IN CONJUNCTION WITH ANAEROBIC DIGESTION TECHNOLOGY, OTHERWISE A TWO BIN SYSTEM IS RECOMMENDED FOR THE THERMAL TECHNOLOGY OPTIONS.*
- 2. COUNCIL PROCEEDS WITH THE ENVIRONMENTAL AND PLANNING APPROVALS TASK FOR THE RESOURCE RECOVERY PROJECT BASED ON THE PREFERRED SITE AND TECHNOLOGY OPTIONS.”*

REPORT

Under the EMRC Expression of Interest (EOI) process, acceptable tenderers are required to provide information required for the environmental impact assessment process. The process of gathering data from acceptable tenderers began in March 2011 and is still incomplete at the time of writing this report, although enough information has been gathered to allow specialist consultants to commence modelling and discussions are continuing to collect the outstanding data.

EMRC officers including the Chief Executive Officer and the Manager Project Development and Mr John King of Cardno met with the Environmental Protection Authority (EPA) Board members and officers on Thursday 21 July 2011 to make a presentation and take questions on the draft Environmental Scoping Document (ESD) which was submitted earlier this year and subsequently revised in June 2011.

Members of the EPA raised concerns about having to effectively assess four technology options – anaerobic digestion, pyrolysis, gasification and combustion in the one report and stated that this would create a lot of work for the EPA. They queried the economics of combustion at the scale we are proposing and asked for the details of technology suppliers for the combustion and pyrolysis technology options. One of the EPA members had good knowledge of the gasification/pyrolysis technologies available and understood the issues with access to the technology and technical information. They also strongly suggested that it would be easier from an EPA assessment viewpoint and a community understanding point of view to only have to explain two options – such as anaerobic digestion and gasification. They suggested that if four technology options were presented in the PER then they may decide which options were available to the EMRC.



Item 9.5 continued

The EMRC has stated previously that commercial scale pyrolysis and plasma technologies processing Municipal Solid Waste (MSW) have not yet been observed by the EMRC (refer Resource Recovery Committee report item 9.1, 6 May 2010). There are some commercial scale examples of these technologies but access to the technology and detailed technical information is difficult to obtain. There were no submissions in the EOI process offering pyrolysis technology. Attempts to get emissions data from a pyrolysis facility processing MSW in Germany were partly successful but not sufficient to use for comparative purposes in the PER. Accordingly, it is recommended that pyrolysis technology be withdrawn from the list of preferred technology options for the RRF at Red Hill Waste Management Facility at this stage of the project at Red Hill.

With plasma technology, Council's resolution of 20 May 2010 was that "*PLASMA TECHNOLOGY WILL ONLY BE CONSIDERED IF IT IS AN INTEGRAL PART OF ONE OF THESE TECHNOLOGIES.*" Plasma technology has mainly been used in conjunction with combustion technology in commercial applications but there are still questions about the cost and net energy produced with the technology with MSW. Accordingly, it is recommended that plasma technology be withdrawn from the list of preferred technology options for the RRF at Red Hill Waste Management Facility.

From the financial analysis presented to member Councils in 2010, based on information gained from the EOI process, anaerobic digestion and gasification were shown to be the two lower cost options. Whilst combustion technology is one of the most proven technologies world-wide it is also potentially the highest cost option and perceived as one of the most controversial from a community perspective. The high cost is partly related to the cost of the emissions control equipment required and the scale of operation of the facility. At a scale of 100,000 to 200,000 tonnes per annum in an EMRC application, this is at the high cost end of operation for a combustion process and with this type of facility, Build Own Operate contract or a Design, Build Operate and Maintain contract would most likely be recommended. Accordingly, it is recommended that combustion technology be withdrawn from the preferred technology options for the RRF at Red Hill Waste Management Facility.

Therefore it is recommended that the list of preferred RRF technology options for evaluation in the PER and then for inclusion in the tender process (subject to the outcome of the environmental assessment process) be limited to anaerobic digestion and gasification.

Preferred Options

In summary, the preferred options on the RRF site, technologies, contract ownership model and bin collection systems are as follows:

Options	Preferred Option
RRF Site	Red Hill Waste Management Facility
RRF Technologies	1. Anaerobic Digestion 2. Gasification
RRF Contract Ownership Model	Design & Construct and Design, Build Operate and Maintain (at this stage of the project)
Bin Collection System	Three bin system for Anaerobic Digestion technology, otherwise a two bin system is recommended for the gasification option.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

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



Item 9.5 continued

FINANCIAL IMPLICATIONS

All costs covered within this report are accounted for in the annual budget approved by Council.

SUSTAINABILITY IMPLICATIONS

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

MEMBER COUNCIL IMPLICATIONS

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

ATTACHMENT(S)

Nil

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That Council confirms the technology options for the Resource Recovery Facility at Red Hill Waste Management Facility as anaerobic digestion and gasification.

Discussion ensued

Cr Lindsey queried whether the cost analysis undertaken on combustion technology had been on the whole of life span of the facility and whether the comparisons between technologies had been on net costs. The Manager Project Development explained that economic life comparisons (nominally 20 years) had been undertaken and the cost per tonne for combustion was significantly higher.

In response to Cr Lindsey's query on whether the effect of the carbon tax had been considered when analysing the chosen technologies, the Manager Project Development advised that the financial models presented last year took into account the proposed Carbon Pollution Reduction Scheme (CPRS), which was similar in its effect on the project to the carbon tax.



Item 9.5 continued

RRC RECOMMENDATION(S)

MOVED CR FÄRDIG

SECONDED CR PULE

That Council confirms the technology options for the Resource Recovery Facility at Red Hill Waste Management Facility as anaerobic digestion and gasification.

CARRIED UNANIMOUSLY



9.6 RESOURCE RECOVERY FACILITY PROJECT – FINANCIAL COMMITMENT

REFERENCE: COMMITTEES-12853

PURPOSE OF REPORT

To advise Council of the implications of a possible deferment of the member Council financial guarantee obligation on the Resource Recovery project as a result of the State Government's local government reform process.

KEY ISSUES AND RECOMMENDATION(S)

- At its 21 July 2011 meeting, Council discussed the possible impact of the Local Government Reform process on the ability of member Councils to make a financial commitment in relation to the Resource Recovery Project.
- The final cost for the Resource Recovery Facility will not be known until completion of the tender process in 2013.
- The tender price sets the amount for a loan facility after consideration of the Secondary Waste Reserve and the contract ownership model being used.
- The loan amount (for a Design & Construct (D&C) or a Design Build Operate and Maintain (DBOM) contract ownership model) sets the member Council guarantee requirement.
- The member Council financial guarantee obligation would be apportioned based on population at an agreed point in time and the net EMRC borrowing requirement from Western Australian Treasury Corporation.
- Deferring confirmation of the financial guarantee objective from the member Councils would delay the project from around December 2012 until such time as the impacts of the local government reform processes are known and would add to the on-going project costs and uncertainty for the acceptable tenderers and the community engagement process.
- Probity advice is that delay to the tender process beyond December 2012 may pose a risk to the current tender process.

Recommendation(s)

That the report be received.

SOURCE OF REPORT

Manager Project Development

BACKGROUND

During 2010, EMRC officers briefed all member Councils on the outcome of the financial modelling for the different technology options and the financial guarantee implications.

On 21 July 2011, under New Business of an Urgent Nature Approved by the Chairman or Person Presiding or by Decision of Meeting, and in the context of the Local Government Reform process currently being undertaken by the Minister for Local Government and the uncertainty that this brings to the EMRC and its member Councils, Council resolved:

"THAT A REPORT BE BROUGHT BACK TO THE NEXT MEETING OF COUNCIL ON THE RAMIFICATIONS OF DEFERRING THE FINANCIAL GUARANTEE OF THE MEMBER COUNCILS IN RELATION TO THE RESOURCE RECOVERY FACILITY PROJECT."



Item 9.6 continued

REPORT

At its 21 July 2011 meeting, Council discussed the possible impact of the Local Government Reform process on the ability of member Councils to make a financial commitment in relation to the Resource Recovery Project. The Local Government Reform report is expected to be completed by June 2012 but there is no timetable for consideration and implementation of the recommendations of that report.

The final cost for the Resource Recovery Facility will not be known until the completion of the tender process, selection of a preferred tenderer and type of contract ownership model selected, that is:

- BOO contract ownership model – Gate fee, \$ per tonne for the term of the contract (with escalation factors and minimum waste quantity requirements).
- D&C contract ownership model – Capital cost and expected operating cost per tonne.
- DBOM – Capital cost and Gate fee, \$ per tonne for the term of the contract (with escalation factors and minimum waste quantity requirements).

Arising from the tender process and the preferred tenderer selection will be a requirement for a financial guarantee by the participating member Councils, apportioned in relation to their population at the time, after taking into account the offsetting effect of the amount available in the Secondary Waste Reserve, allowing for contingencies and potential write-offs on the investments held in the Reserve.

In the case of a BOO contract ownership model, which is the least preferred option at this stage of the project, a decision will have to be made on how the Secondary Waste Reserve will be deployed to minimise costs to the member Councils, for example by subsidising the expected increase in the gate fee for the RRF and/or meeting the cost of an additional household bin. There will still be a requirement for the participating member Councils to provide a guarantee to the financier of the RRF.

Prior to calling for tenders from the acceptable tenderers, the EMRC would need an agreement in principle from the participating member Councils that they would deliver their waste to the RRF for the term of the contract (under a BOO or DBOM) or the life of the facility (under a D&C). This then sets the capacity requirement for the RRF in the tender specification. It would also allow the EMRC to finalise preparations for a loan facility with the Western Australian Treasury Corporation (WATC), subject to adjustments for the final tendered price and the loan offset from use of the Secondary Waste Reserve.

Project Timeline

Subject to confirmation from the EPA on the assessment timeline but based on the meeting with them on 21 July 2011, the amended project schedule is as follows (strikethrough items are the previous timetable dates):

Task	Details	Commencement	Completion	Target timeframe
PER Assessment	Submit draft PER to EPA	July October 2011	July October 2011	Milestone
	Review by EPA	July November 2011	August November 2011	4 weeks
	Revise PER & Release	August December 2011	September 2011 January 2012	1 Month
	Public Review	September 2011 February 2012	October 2011 March 2012	8 weeks
	EPA provide summary of submissions	October 2011 April 2012	November 2011 April 2012	3 weeks
	Proponent Response	November 2011 May 2012	November 2011 May 2012	2 weeks



Item 9.6 continued

Task	Details	Commencement	Completion	Target timeframe
Appeals	Appeals Period	February August 2012	March August 2012	2 weeks
Minister	Minister Consideration	March August 2012	June November 2012	3 Months
Member Council resolution to continue project		June December 2012	July December 2012	1 month
Request for Tender Process		July 2012 February 2013	November 2012 June 2013	5 months
Evaluation of Tender submissions		November 2012 July 2013	April October 2013	4 months
Finalise RRF contract		April November 2013	November 2014 May 2014	7 months
Development Approval / Works Approval / Building Licence		November 2013 June 2014	February August 2014	3 months
Complete construction of RRF		February September 2014	May November 2015	15 months
Obtain operational licence		February September 2015	May November 2015	3 months
Wet commissioning of RRF		May December 2015	August 2015 February 2016	3 months

The schedule shows a projected date for an EMRC Council decision supported by member Council decisions to proceed with the tender process by December 2012, nominally six months after the conclusion of the Local Government Reform Panel report. At this point in the process timetable, EMRC would be seeking from each member Council:

1. Agreement in principle to participate in the project; and
2. Agreement in principle to provide a loan guarantee in proportion to population and the expected loan requirement (net of available Secondary Waste Reserve).

Deferring the decision on an in principle financial loan guarantee from the member Councils would delay the project from around December 2012 until such time as the impacts of the local government reform processes are known and would add to the on-going project costs and uncertainty for the acceptable tenderers and the community engagement process. The timetable for implementation of the Local Government Reform process is unknown and could potentially take several years.



Item 9.6 continued

The EMRC has sought advice from the probity advisor for the Resource Recovery Project, Stantons International, on the effect of a delay of the EMRC tender process. Their advice is that a delay to the tender process beyond the end of 2012, with three and a half years elapsed since the completion of the EOI process, would be grounds for EMRC to cancel the tender process and start again on the basis of:

- Possible changes to the market conditions;
- Possible further changes to the acceptable tenderer list through withdrawals or ownership changes or consortium changes; and
- The level of interest of the acceptable tenderers to continue.

The probity advisor indicated that there will be an obligation to inform the acceptable tenderers, before going to tender, of possible changes in the member Councils of the EMRC due to the Local Government Reform process and the possible consequences of this change on the project.

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

All costs covered within this report are accounted for in the annual budget approved by Council. Delaying the Resource Recovery Project activities scheduled for 2012/2013 may have financial implications for the project.

SUSTAINABILITY IMPLICATIONS

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

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Additional project costs (staff salaries, consulting fees) and potential uncertainties for acceptable tenderers and the community
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

Nil

VOTING REQUIREMENT

Simple Majority



Item 9.6 continued

RECOMMENDATION(S)

That the report be received.

Discussion ensued

The Manager Project Development summarised the report.

The EMRC's probity advisor explained the issues to be considered in relation to any potential delay to the tendering process beyond 2012. The issues were discussed at length and the Committee agreed that the process needed to be transparent with tenderers being kept informed.

Cr Färdig raised concerns on the possible impact of the Local Government reform process on the ability of member Councils to make a financial guarantee in relation to the Resource Recovery Project, in particular the City of Swan.

The Chief Executive Officer advised EMRC was pursuing supplementary funding opportunities to reduce the amount of borrowings and therefore reduce the financial guarantee from the member Councils.

ALTERNATIVE RECOMMENDATION

MOVED CR FÄRDIG

SECONDED MR PUMPHREY

That the EMRC seek funding opportunities for a guarantee from the State Government Waste Authority or State Government Treasury due to the fact that the Member Councils would not be in a position to provide any guarantee on the Resource Recovery Project until the State Local Government reform process was resolved.

MOTION LOST 2/10
Cr Färdig & Mr Pumphrey for

Cr Färdig advised that the City of Swan supported the Resource Recovery Facility Project but had concerns related to providing a financial guarantee due to the uncertainty relating to the Local Government Reform process.

Cr Lindsey stated that he understood the City of Swan's concerns but advised that if Council allowed itself to be paralysed by uncertainty into not making decisions nothing would ever be achieved.

POST MEETING NOTE

Further advice - A copy of a letter received from the City of Swan to the CEO, EMRC is attached for information in relation to the discussion about the City of Swan's position on the Resource Recovery Facility.

RRC RECOMMENDATION(S)

MOVED CR LINDSEY

SECONDED CR RADFORD

That the report be received.

CARRIED 10/2
Cr Färdig & Mr Pumphrey against

RECEIVED

04 AUG 2011

Enquiries: Michael Foley - 9267 9108
E-mail: mike.foley@swan.wa.gov.au
Fax: 9267 9119

2 August 2011

Mr P Schneider
Chief Executive Officer
Eastern Metropolitan Regional Council
P O Box 234
BELMONT WA 6984

Dear Peter

SECONDARY WASTE TREATMENT PLANT

My Council is well aware and has fully supported the EMRC and the work that it has been undertaking in relation to the development of a secondary waste treatment plant at Red Hill.

In relation to the recent decision by the Minister for Local Government to set up a panel of three people to review the boundaries of all local governments in the Perth Metropolitan Area, the City of Swan resolved at its meeting held on 27 July 2011 to:

"Advise the EMRC that due to the current local government reform process being undertaken by the Minister for Local Government, the Council is unable to guarantee any loan funding required for the project until the size and population to be serviced by the secondary waste treatment plant can be confirmed."

I would be happy to discuss the matter with you at any time.

Yours sincerely


M J Foley
CHIEF EXECUTIVE OFFICER


city of swan

2 Midland Square, Midland
PO Box 196, Midland WA 6936

enquiries 08 9267 9267
facsimile 08 9267 9444
sms 0428 520 544



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

Nil

11 GENERAL BUSINESS

Nil

12 FUTURE MEETINGS OF THE RESOURCE RECOVERY COMMITTEE

The next meeting of the Resource Recovery Committee will be held on **Thursday, 8 September 2011 (if required)** at the EMRC Administration Office, 1st Floor, Ascot Place, 226 Great Eastern Highway, Belmont WA 6104 commencing at 5.00pm.

Future Meetings 2011

Thursday	8 September (if required)	at	EMRC Administration Office
Thursday	6 October	at	EMRC Administration Office
Thursday	17 November (if required)	at	EMRC Administration Office

13 DECLARATION OF CLOSURE OF MEETING

There being no further business, the Chairman closed the meeting at 7.00pm.