Referral of a Proposal by the Proponent to the Environmental Protection Authority under Section 38(1) of the *Environmental Protection Act 1986*.



PURPOSE OF THIS FORM

Section 38(1) of the *Environmental Protection Act 1986* (EP Act) provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the EP Act. This form sets out the information requirements for the referral of a proposal by a proponent.

Proponents are encouraged to familiarise themselves with the EPA's *General Guide on Referral of Proposals* [see Environmental Impact Assessment/Referral of Proposals and Schemes] before completing this form.

A referral under section 38(1) of the EP Act by a proponent to the EPA must be made on this form. A request to the EPA for a declaration under section 39B (derived proposal) must be made on this form. This form will be treated as a referral provided all information required by Part A has been included and all information requested by Part B has been provided to the extent that it is pertinent to the proposal being referred. Referral documents are to be submitted in two formats – hard copy and electronic copy. The electronic copy of the referral will be provided for public comment for a period of 7 days, prior to the EPA making its decision on whether or not to assess the proposal.

CHECKLIST

Before you submit this form, please check that you have:

	Yes	No
Completed all the questions in Part A (essential).	Χ	
Completed all applicable questions in Part B.	Χ	
Included Attachment 1 – location maps.	Χ	
Included Attachment 2 – additional document(s) the proponent wishes	Χ	
to provide (if applicable).		
Included Attachment 3 – confidential information (if applicable).		X
Enclosed an electronic copy of all referral information, including spatial	Χ	
data and contextual mapping but excluding confidential information.		

Do you consider the proposal requires formal environmental impact assessment?

Yes No Not sure

If yes, what level of assessment?

Assessment on Proponent Information Public Environmental Review

PROPONENT DECLARATION (to be completed by the proponent)

I, STEPHEN FOT ZPATRICK, (full name) declare that I am authorised on behalf of EMRC. (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Following a review of the information presented in this form, please consider the

Signature for part,	Name (print)	STEPHEN FITZBIRICA
Position DIRECTOR WASTE SERVICES,	Company	EMRC
Date 14/1/2014		

PART A - PROPONENT AND PROPOSAL INFORMATION

(All fields of Part A must be completed for this document to be treated as a referral)

1 PROPONENT AND PROPOSAL INFORMATION

1.1 Proponent

Name	Eastern Metropolitan Regional Council
Joint Venture parties (if applicable)	N/A
Australian Company Number (if applicable)	ABN: 89 631 866 056
Postal Address	1st Floor Ascot Place
(where the proponent is a corporation or an	226 Great Eastern Highway,
association of persons, whether incorporated or not,	Belmont, WA, 6104
the postal address is that of the principal place of business or of the principal office in the State)	
Key proponent contact for the proposal:	Steve Fitzpatrick
• name	Director Waste Services
• address	Eastern Metropolitan Regional Council
• phone	1st Floor Ascot Place
• email	226 Great Eastern Highway, Belmont, WA,
	6104
	Ph: (08) 9424 2222
	Fax: (08) 9277 7598
	stephen.fitzpatrick@emrc.org.au
Consultant for the proposal (if applicable):	Harry Ventriss
• name	Senior Principal
• address	Strategen Environmental Consultants
• phone	Level 2, 322 Hay Subiaco WA 6008
• email	PO Box 243 Subiaco WA 6904
	Phone (08) 9380 3100
	Fax (08) 9380 4606

1.2 Proposal

Title	Hazelmere Wood Waste to Energy Plant
Description	Expand the existing Hazelmere Recycling
	Centre by installing a 3 MW Wood Waste to
	Energy (WWTE) plant. The plant will be
	based on pyrolysis technology (indirect-fired
	pyrolysis kiln with resultant syngas used for
	power generation by gas engines) and
	would use recycled timber as the feed-
	source.
Extent (area) of proposed ground	0.2 ha (no clearing of native vegetation
disturbance.	required)
Timeframe in which the activity or	Construction: Q4 2014 to Q2 2015
development is proposed to occur	Operation: Q2 2015 onwards
(including start and finish dates where	
applicable).	
Details of any staging of the proposal.	The WWTE plant is not staged.
Is the proposal a strategic proposal?	No
Is the proponent requesting a declaration	No
that the proposal is a derived proposal?	
If so, provide the following information on	

the strategic assessment within which the referred proposal was identified:	
 title of the strategic assessment; and 	
 Ministerial Statement number. 	
Please indicate whether, and in what way,	The proposal is located in an area with an
the proposal is related to other proposals in	existing timber grinder and mattress
the region.	recycling centre.
Does the proponent own the land on which the proposal is to be established? If not,	Yes
what other arrangements have been	
established to access the land?	
What is the current land use on the	Land use is industrial and Part Lot 100 and
property, and the extent (area in hectares)	Lot 2 Lakes Road is approximately 10 ha
of the property?	

1.3 Location

Name of the Shire in which the proposal is located.	City of Swan
For urban areas:	Part Lot 100 and Lot 2 Lakes Road, Hazelmere, 6055. Nearest major road intersection at Roe Highway and Great Eastern Highway Bypass. N/A
to the proposal site. Electronic copy of spatial data - GIS or CAD, geo-referenced and conforming to the following parameters: • GIS: polygons representing all activities and named; • CAD: simple closed polygons representing all activities and named; • datum: GDA94; • projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA); • format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD.	Enclosed?: Yes / No

1.4 Confidential Information

Does the proponent wish to request the EPA to allow any part of the referral information to be treated as confidential?	
If yes, is confidential information attached as a separate document in hard copy?	Yes / No

1.5 Government Approvals

Is rezoning of any lar proposal can be imple If yes, please provide		Yes / No	
	State Government hority for any part of	Yes / -Ne	
	Approval required	Application lodged	Agency/Local
	- Approximately	Yes / No	Authority contact(s)
			for proposal
Department of	Part V Works	Yes	Richard Wilson
Environmental	Approval and		Swan Region
Regulation (DER)	subsequent Licence		Industry Regulation
	to Operate		T: (08) 9333 7545
City of Swan	Planning Approval	No	NA
	(MRS process)		

PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

2. ENVIRONMENTAL IMPACTS

Describe	the	impacts	of	the	proposal	on	the	following	elements	of	the	environment,	by
answering	g the	e questio	าร	cont	ained in S	Sect	ions	2.1-2.11:					

	2.1	flora and vegetati	on;	
	2.2	fauna;		
	2.3	rivers, creeks, we	tlands and e	stuaries;
	2.4	significant areas	and/ or land	features;
	2.5	coastal zone area	ıs;	
	2.6	marine areas and	biota;	
	2.7	water supply and	drainage ca	tchments;
	2.8	pollution;		
	2.9	greenhouse gas	emissions;	
	2.10	contamination; ar	nd	
	2.11	social surrounding	gs.	
The	se fea	tures should be sh	own on the	site plan, where appropriate.
For	all info	ormation, please in	dicate:	
	(a)	the source of the	information;	and
	(b)	the currency of th	e informatior	٦.
2.1	Flora	a and Vegetation		
2.1.	1 Do	you propose to cle	ear any nativ	e flora and vegetation as a part of this proposal?
	the 200	EP Act (Environn	nental Prote	tion may require a clearing permit under Part V or ction (Clearing of Native Vegetation) Regulations tment of Environment and Conservation (DEC) for
		(please tick)	☐ Yes	If yes, complete the rest of this section.
			× No	If no, go to the next section
2.1.	2 Hov	w much vegetation	are you pro	posing to clear (in hectares)?
2.1.		ve you submitted are exempt from	• •	on to clear native vegetation to the DEC (unless rement)?
		☐ Yes	☐ No	If yes , on what date and to which office was the application submitted of the DEC?

2.1.4	Are you aware of any by this proposal?	y recent floi	ra surveys carried out over the area to be disturbed
	☐ Yes	□ No	If yes , please <u>attach</u> a copy of any related survey reports and <u>provide</u> the date and name of persons / companies involved in the survey(s).
			If no , please do not arrange to have any biological surveys conducted prior to consulting with the DEC.
2.1.5			for known occurrences of rare or priority flora or es been conducted for the site?
	☐ Yes	□ No	If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.
2.1.6	Are there any known communities on the s		es of rare or priority flora or threatened ecological
	☐ Yes	☐ No	If yes, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.
2.1.7	or adjacent to a list	ted Bush F	politan Region, is the proposed development within orever Site? (You will need to contact the Bush of the Planning and Infrastructure)
	☐ Yes	☐ No	If yes, please indicate which Bush Forever Site is affected (site number and name of site where appropriate).
2.1.8	What is the condition	of the vege	etation at the site?
2.2 I	Fauna		
2.2.1	Do you expect that a	ny fauna or	fauna habitat will be impacted by the proposal?
	(please tick)	☐ Yes	If yes, complete the rest of this section.
		× No	If no, go to the next section.

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2.2.2 Describe the nature and extent of the expected impact.

2.2.3	Are you aware of an by this proposal?	y recent fau	na surveys carried out over the area to be disturbed
	☐ Yes	☐ No	If yes, please <u>attach</u> a copy of any related survey reports and <u>provide</u> the date and name of persons / companies involved in the survey(s).
			If no, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.
2.2.4	Has a search of threatened) fauna b		ls for known occurrences of Specially Protected ted for the site?
	☐ Yes	☐ No	(please tick)
2.2.5	Are there any know site?	n occurrenc	es of Specially Protected (threatened) fauna on the
	☐ Yes	□ No	If yes, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.
2.3	Rivers, Creeks, Wetl	lands and E	estuaries
2.3.1	Will the developmen	it occur withi	in 200 metres of a river, creek, wetland or estuary?
	(please tick)	☐ Yes	If yes, complete the rest of this section.
		× No	If no, go to the next section.
2.3.2	Will the developmen	nt result in th	e clearing of vegetation within the 200 metre zone?
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.
2.3.3	Will the developmer estuary?	nt result in t	he filling or excavation of a river, creek, wetland or
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.
2.3.4	Will the developme estuary?	ent result ir	the impoundment of a river, creek, wetland or
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.

2.3.5	Will the development result in draining to a river,	creel	k, wet	land or es	tuary?						
	☐ Yes ☐ No If yes , please of impact.	descri	be the	e extent of	the expecte	∍d					
2.3.6	Are you aware if the proposal will impact on a river, creek, wetland or estuary (or its buffer) within one of the following categories? (please tick)										
	Conservation Category Wetland		Yes	☐ No	Unsure	;					
-	Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998		Yes	☐ No	☐ Unsure	;					
Ī	Perth's Bush Forever site		Yes	☐ No	Unsure	,					
-	Environmental Protection (Swan & Canning Rivers) Policy 1998		Yes	☐ No	☐ Unsure	,					
-	The management area as defined in s4(1) of the Swan River Trust Act 1988		Yes	☐ No	☐ Unsure	,					
	Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA)										
2.4 \$ 2.4.1	Significant Areas and/ or Land Features Is the proposed development located within or a National Park or Nature Reserve?	adjac	ent to	an existir	ng or propos	sed					
	☐ Yes x No If yes, please p	orovid	e deta	ails.							
2.4.2	Are you aware of any Environmentally Sensitive under section 51B of the EP Act) that will development?										
	x Yes	orovid	e deta	ails.							
	An ESA overlies part of the Proposal area. buffer around the Bush Forever Area to the s			rs to be a	500 to 600) m					
2.4.3	Are you aware of any significant natural land fewill be impacted by the proposed development?	ature	s (e.g	. caves, r	anges etc) t	hat					
	☐ Yes x No If yes , please p	orovid	e deta	ails.							

2.5	Coastal Zone Areas (Coastal Dunes and Beaches)								
2.5.1	Will the development occur within 300metres of a coastal area?								
	(please tick)	☐ Yes	If yes, complete the rest of this section.						
		× No	If no, go to the next section.						
2.5.2	What is the expected the primary dune?	setback of	f the development from the high tide level and from						
2.5.3	-	fill the development impact on coastal areas with significant landforms including each ridge plain, cuspate headland, coastal dunes or karst?							
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.						
2.5.4	Is the development like	cely to impa	act on mangroves?						
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.						
2.6	Marine Areas and Bio	ota							
2.6.1	Is the development I such as seagrasses,	-	pact on an area of sensitive benthic communities, or mangroves?						
	☐ Yes	× No	If yes, please describe the extent of the expected impact.						
2.6.2		servation (a	mpact on marine conservation reserves or areas as described in <i>A Representative Marine Reserve</i> ALM, 1994)?						
	☐ Yes	× No	If yes , please describe the extent of the expected impact.						
2.6.3	Is the development li or for commercial fish	•	act on marine areas used extensively for recreation es?						
	☐ Yes	× No	If yes , please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).						

2.1	vater Supply and Dramage Catchinents
2.7.1	Are you in a proclaimed or proposed groundwater or surface water protection area?
	(You may need to contact the Department of Water (DoW) for more information of the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)
	★ Yes
	Site located within the Swan Proclaimed Groundwater Area.
2.7.2	Are you in an existing or proposed Underground Water Supply and Pollution Contro area?
	(You may need to contact the DoW for more information on the requirements for your location, including the requirement for licences for water abstraction. Also refer to the DoW website)
	☐ Yes X No If yes, please describe what category of area.
2.7.3	Are you in a Public Drinking Water Supply Area (PDWSA)?
	(You may need to contact the DoW for more information or refer to the DoW website. A proposal to clear vegetation within a PDWSA requires approval from DoW.)
	☐ Yes X No If yes, please describe what category of area.
2.7.4	Is there sufficient water available for the proposal?
	(Please consult with the DoW as to whether approvals are required to source water as you propose. Where necessary, please provide a letter of intent from the DoW)
	× Yes
2.7.5	Will the proposal require drainage of the land?
	☐ Yes X No If yes, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.
2.7.6	Is there a water requirement for the construction and/ or operation of this proposal?
	(please tick) × Yes If yes, complete the rest of this section.
2.7.7	What is the water requirement for the construction and operation of this proposal, i kilolitres per year?
2.7.8	Approximately 1 300 000 kL/year (i.e. 5000 kL/day, 5 days per week). What is the proposed source of water for the proposal? (e.g. dam, bore, surfact water etc.)

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There is groundwater available onsite from a production bore, scheme water will also be available by the time the plant is operational.

2.8 Pollution

	ondion.							
2.8.1	8.1 Is there likely to be any discharge of pollutants from this development, such noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or o pollutants?							
	(please tick) X Yes If yes, complete the rest of this section.							
	No If no, go to the next section.							
2.8.2	Is the proposal a prescribed premise, under the Environmental Protection Regulations 1987?							
	(Refer to the EPA's General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986 for more information)							
	☐ Yes X No If yes, please describe what category of prescribed premise.							
2 2 2	Will the proposal result in gaseous emissions to air?							
2.0.5								
	★ Yes							
	Air emissions will result from combustion of syngas created by the pyrolysis section in gas engines/generator sets. Emissions will include usual components of fuel gas firing, such as carbon monoxide (CO), nitrous oxides, sulfur dioxide (SO ₂) and volatile organic compounds (VOC). Air emissions will also be produced by the SACTO.							
	Refer to the supporting document for further discussion on the air emissions.							
2.8.4	Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?							
	★ Yes							
	Results of air emissions modelling show that all predicted ground level concentrations will be less than the NEPM limits and stack concentrations are under the WID threshold limits. Cumulative impacts have been considered in the context of background emissions.							
	Refer to the supporting document for further discussion on the air emissions.							
2.8.5	Will the proposal result in liquid effluent discharge?							
	★ Yes							
	Process Wastewater will be stored onsite in a bunded tank, to be disposed of offsite at an appropriately-licensed liquid waste disposal facility.							
	Onsite sewage will be managed using an onsite sewage treatment facility.							

2.8.6	If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?								
	☐ Yes	×	No	If yes, p	lease des	scribe.			
2.8.7	Will the propo	sal produc	e or resu	It in solid	wastes?				
	× Yes		No		•	•	describe the I location/ me		
	bed and t or as a so these pur	hen prefera pil amendm poses will (ably sold ent. Onl excess be	as an add y in the ev e dispose	litive to bi vent that t d of to lar	rick manut here is an ndfill, in wh	re-used in the facture, barbe insufficient m nich case a fin f completed la	eque fuel narket for nal	
2.8.8	Will the propo	sal result i	n significa	ant off-site	e noise er	nissions?			
	☐ Yes	×	No	If yes , p	lease brie	efly descri	be.		
2.8.9	Will the de Regulations 1	•	be suk	oject to	the Env	ironmenta	l Protection	(Noise)	
	× Yes		No		rate that		been carried osal will com		
				Please a	ittach the	analysis.			
	predicted	to comply	with assi	gned leve	ls at all se	ensitive pr	oise levels ard emises at all i document).		
	Refer to t	he support	ing docur	ment for fu	ırther disc	cussion or	the noise.		
2.8.10	odour or ar "sensitive pr	other pollu emises" su	utant tha Ich as sch	t may afi nools and	ect the a	amenity of (proposal	quality impac f residents a ls in this catec d quarries etc	nd other gory may	
	× Yes		No				d provide the nsitive premis		
	Centre to	•	nd south	at 61, 53	and 54 L		lazelmere Red Hazelmere. II		
2.8.11	If the proposition			-			nsitive premis	ses", is it	
	☐ Yes		No	× Not	Applicable	€			
						scribe and ollution so	provide the c urce	listance	

					<u> </u>	use gas emissions (greater quivalent emissions)?
		Yes	×	!		vide an estimate of the annual a absolute and in carbon figures.
		•		•	oposed measures ed to offset emission	to minimise emissions, and any ons.
2.10 C	ontami	ination				
2.10.1					•	cated been used in the past for ter contamination?
		Yes	×	No	☐ Unsure	If yes, please describe.
		•			een used historical nolding stock for M	ly for rural living and grazing lidland Abattoir.
2.10.2	Has a	ny assessme	nt be	en done	for soil or groundw	vater contamination on the site?
	×	Yes		No	If yes, please	describe.
	201 To und has gro	12 to determir date, monitor contaminated s been detect	ne ba ring o but it ed fro	ackground data indica initial resu om a sour	I groundwater qua ates groundwater i Ilts suggest that lo rce beyond the site	es were installed in November lity and obtain baseline data. in the deeper aquifer is calised surface contamination e boundary. Routine to confirm and track these
2.10.3	Has th Act 20	ne site been r 103? (on final	egist isatio	tered as a on of the C	a contaminated site CS Regulations an	e under the <i>Contaminated Sites</i> of proclamation of the CS Act)
		Yes	×	No	If yes, please	describe.
2.11 S	ocial S	urroundings	;			
2.11.1		•			which contains ognificance that ma	or is near a site of Aborigina ay be disturbed?
	×	Yes	□ N	No	Unsure	If yes, please describe.
		ere are no kn nity of the site		Aborigina	ıl heritage sites; h	owever, four sites are within the
2.11.2					ch contains or is n atural scenic featu	near a site of high public interesture)?
		Yes	× N	No I	f yes, please desc	cribe.

2.9 Greenhouse Gas Emissions

2.11.3	Will the proposaffect the ameni	r require substantial transport of goods, which may larea?	
	☐ Yes	× No	If yes, please describe.
		,	site will be transported by either two 15 tonne trucks

The bio-char produced on site will be transported by either two 15 tonne trucks or one 30 tonne reticulated truck on a fortnightly basis (see attached document). On average, two extra truck movements are anticipated per week from the WWTE plant. This is an increase of just over 1% of traffic from the Hazelmere facility from current traffic conditions.

Counts sourced from the current operations at Hazelmere show that there are around 144 trucks that use Lakes Road on a daily basis, or 720 movements per week (based on a five day week). The increase of two trucks per week equates to an increase of around 0.3% from current conditions on Lakes Road.

3. PROPOSED MANAGEMENT

3.1 Principles of Environmental Protection

3.1.1	Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA website)										
	1. The precautionary principle.	×	Yes	☐ No							
	2. The principle of intergenerational equity.	×	Yes	☐ No							
	3. The principle of the conservation of biological diversity and ecological integrity.	×	Yes	☐ No							
	4. Principles relating to improved valuation, pricing and incentive mechanisms.	×	Yes	☐ No							
	5. The principle of waste minimisation.	×	Yes	☐ No							
3.1.2	1 1	ronmei A webs rmance	ite)? e of waste	0,							
3.2	Consultation										
3.2.1	Has public consultation taken place (such as with o community groups or neighbours), or is it intended place?										
	X Yes No If yes, please list the comments or summ separate sheet.	ose co narise	nsulted ar response								
	Stakeholders that have been consulted to date are:										

- Office of the Environmental Protection Authority
- Waste Management Community Reference Group (WMCRG)
- Community Task Force (CTF)
- local community groups.

Consultation is described further in the supporting document.