Environmental Protection Authority

EPA REFERRAL FORM PROPONENT

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).	✓	
Completed all applicable questions in Part B.	✓	
Included Attachment 1 – location maps.	✓	
Included Attachment 2 – additional document(s) the proponent wishes to provide (if applicable).	√	
Included Attachment 3 – confidential information (if applicable).		✓
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but excluding confidential information.	√	

Following a review of the information presented in this form, please consider the following question (a response is optional).							
Do you consider the proposal requires formal environmental impact assessment?							
☐ Yes ☐ No	☐ Not sure						
If yes, what level of assessment?							
Assessment on Proponent Information	on Public Environmental Review						
PROPONENT DECLARATION (to be completed by the proponent) I, Nial Stock, (full name) declare that I am authorised on behalf of SITA Australia Pty Limited (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.							
Signature	Name (print)						
Position	Company						
Date							

PART A - PROPONENT AND PROPOSAL INFORMATION

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

PROPONENT AND PROPOSAL INFORMATION

1.1 Proponent

Name	SITA Australia Pty Limited
Joint Venture parties (if applicable)	
Australian Company Number (if applicable)	002 902 650
Postal Address	SITA Australia
(where the proponent is a corporation or an association of	116 Kurnall Road
persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal	Welshpool WA 6106
office in the State)	
Key proponent contact for the proposal:	Nial Stock
• name	116 Kurnall Road
• address	Welshpool WA 6106
• phone	Phone: (08) 9350 7101
• email	Mobile: 0458 001 121
	Email: nial.stock@sita.com.au
Consultant for the proposal (if applicable):	Bowman & Associates Pty Ltd
• name	PO Box 2059
• address	ROSSMOYNE WA 6148
• phone	(08) 9457 5899
• email	bruce@bowmanassociates.com.au
	adam@bowmanassociates.com.au

1.2 Proposal

Title	Allowing Londfill
Title	Allawuna Landfill
Description	Class II or III Putrescible Landfill
Extent (area) of proposed ground disturbance.	Approximately 50 hectares
Timeframe in which the activity or development is	Construction to begin in 2014, with a
proposed to occur (including start and finish	nominal landfill waste placement
dates where applicable).	lifespan of 37 years.
Details of any staging of the proposal.	The landfill will be constructed in
	three stages, with each stage
	consisting of multiple cells.
Is the proposal a strategic proposal?	No
Is the proponent requesting a declaration that the	No
proposal is a derived proposal?	
Please indicate whether, and in what way, the	This proposal is unrelated to any
proposal is related to other proposals in the	other proposal in the region.
region.	
Does the proponent own the land on which the	The proponent has entered into an
proposal is to be established? If not, what other	exclusive right to purchase
arrangements have been established to access	arrangement with the owner,
the land?	conditional on the acquisition of the
	appropriate environmental approvals
	for the site.
What is the current land use on the property, and	The current land use is agricultural.
the extent (area in hectares) of the property?	The area of the property is 1,500
(hectares.

1.3 Location

Name of the Shire in which the proposal is located.	The Shire of York
For urban areas:	
street address;	
lot number;	
suburb; and	
 nearest road intersection. 	
For remote localities:	York.
nearest town; and	The site boundary is 16 km to the
 distance and direction from that town to the 	East of the town of York.
proposal site.	
Electronic copy of spatial data - GIS or CAD,	
geo-referenced and conforming to the following	Enclosed?: Yes / No
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.	

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 la proposal can be implem If yes, please provide de		Yes / No	
		Yes / No	
Agency/Authority	Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal
DEC	Works Approval	No	Cristina Angel
Shire of York	Development Approval	No	Shire of York
Main Roads WA	Intersection Upgrade Approval	No	Melinda Marshall
Department of Water	Construction of culvert across 13 Mile Brook	No	James Mackintosh

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:					

ans	wening	ine questions con	laiii	eu iii Se	CHOHS 2.1-2.11.
	2.1	flora and vegetation	n;		
	2.2	fauna;			
	2.3	rivers, creeks, wet	land	ds and e	stuaries;
	2.4	significant areas a	nd/	or land f	eatures;
	2.5	coastal zone area	s;		
	2.6	marine areas and	biot	ta;	
	2.7	water supply and	drai	nage cat	chments;
	2.8	pollution;			
	2.9	greenhouse gas e	mis	sions;	
	2.10	contamination; an	d		
	2.11	social surrounding	ß.		
The	se fea	tures should be sh	owr	on the	site plan, where appropriate.
For	all info	ormation, please in	dica	ite:	
	(a)	the source of the i	nfo	rmation;	and
	(b)	the currency of the	e inf	ormation	1.
2.1	Flor	a and Vegetation			
		•	ar a	ny nativ	e flora and vegetation as a part of this proposal?
2.1.				•	tion may require a clearing permit under Part V of
	the 200	EP Act (Environm	ent	al Prote	ction (Clearing of Native Vegetation) Regulations ment 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 Ho	w much vegetation	are	you pro	posing to clear (in hectares)?
		4.67 ha of scattered	ed r	emnant t	rees on otherwise cleared cropland
2.1.		ve you submitted a			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?	recent flo	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.				
	Attachment: Company: Contact Person: Phone:	ENV A Karen	al Document Appendix A. ustralia. Godridge 214 6100				
2.1.5			for known occurrences of rare or priority flora or ies 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		ces 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	ed Bush F	politan Region, is the proposed development within Forever Site? (You will need to contact the Bush nt for Planning and Infrastructure)				
	☐ Yes	☐ No	If yes , please indicate which Bush Forever Site is affected (site number and name of site where appropriate).				
	N/A						
2.1.8	What is the condition	of the veg	etation at the site?				
	Scattered trees of	n otherwise	e cleared cropland. Low habitat value.				

2.2.1	Do you expect that any	y 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.
2.2.2	Describe the nature ar	nd extent o	of the expected impact.
			nt trees with isolated evidence of Black Cockatoo sting or roosting. Impact is considered negligible.
2.2.3	Are you aware of a disturbed by this propo	•	fauna surveys carried out over the area to be
	✓ 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.
	Attachment: Company: Contact Person: Phone:	ENV A Karen (08) 92	al Document Appendix A. ustralia. Godridge 214 6100
2.2.4	Has a search of DE (threatened) fauna be		s for known occurrences of Specially Protected ted for the site?
	✓ Yes	☐ No	(please tick)
2.2.5	Are there any known site?	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.

2.2 Fauna

	3 Rivers, Creeks, Wetlands and Estuaries3.1 Will the development occur within 200 metres of a river, creek, wetland or estuary?									
	(please tick)	☐ Yes	If yes, con	nplete the res	t of this	s section.				
		✓ No	If no , go to	the next sec	tion.					
	The site access roinfrastructure and wa (13 Mile Brook). Refe	aste plac	cement area will	be over 200	m from					
2.3.2	Will the development res	ult in the	e clearing of veg	etation within	the 20	0 metre zone?				
	☐ Yes ✓	No	If yes, please dimpact.	escribe the ex	ktent of	the expected				
	Minor clearing may crossing.	be req	uired for acces	s road const	ruction	at the creek				
2.3.3	Will the development reseastuary?	sult in th	ne filling or exca	vation of a riv	er, cre	ek, wetland or				
	☐ Yes ✓	No	If yes, please dimpact.	escribe the ex	ktent of	the expected				
2.3.4	Will the development restuary?	esult in	the impoundme	ent of a rive	er, cree	ek, wetland or				
	☐ Yes 🗸	No	If yes, please dimpact.	escribe the ex	ktent of	the expected				
2.3.5	Will the development res	ult in dra	aining to a river,	creek, wetlan	d or es	tuary?				
	☐ Yes ✓	No	If yes, please de impact.	escribe the ex	tent of	the expected				
2.3.6	Are you aware if the prop buffer) within one of the f		•		land o	r estuary (or its				
	Conservation Category W	/etland		☐ Yes •	No	Unsure				
	Environmental Protect Agricultural Zone Wetland		(South West by 1998	☐ Yes •	No	Unsure				
	Perth's Bush Forever site	}		☐ Yes •	No	Unsure				
	Environmental Protection Rivers) Policy 1998	n (Swa	an & Canning	☐ Yes •	No No	Unsure				
	The management area as Swan River Trust Act 198		d in s4(1) of the	☐ Yes •	No	Unsure				
	Which is subject to an ir because of the importar waterbirds and waterbird JAMBA CAMBA)	nce of t	he wetland for	☐ Yes •	No No	☐ Unsure				

	_		
2.4.1	Is the proposed develop National Park or Nature		cated within or adjacent to an existing or proposed?
	☐ Yes ✓	N o	If yes, please provide details.
	The closest National	l Park is	1 km from the proposed development.
2.4.2	•		entally Sensitive Areas (as declared by the Minister P Act) that will be impacted by the proposed
	☐ Yes ✓	N o	If yes, please provide details.
2.4.3	will be impacted by the p	proposed	•
	☐ Yes 🗸	• No	If yes, please provide details.
2.5	Coastal Zone Areas (Co	astal Du	nes and Beaches)
2.5.1	Will the development oc	cur withir	n 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 set the primary dune?	etback of	the development from the high tide level and from
2.5.3			coastal areas with significant landforms including and, coastal dunes or karst?
	☐ Yes ☐] No	If yes, please describe the extent of the expected impact.
2.5.4	Is the development likely	v to impa	ct on mangroves?
	Yes	No	If yes, please describe the extent of the expected impact.

2.4 Significant Areas and/ or Land Features

2.6	Marine Areas and Biot	a					
2.6.1	Is the development like such as seagrasses, co	-	-	eact on an area of sensitive benthic communities, or mangroves?			
	☐ Yes	~	No	If yes, please describe the extent of the expected impact.			
2.6.2 Is the development likely to impact on marine conservation reserves recommended for reservation (as described in <i>A Representative Marin System for Western Australia</i> , CALM, 1994)?							
	☐ Yes	•	No	If yes, please describe the extent of the expected impact.			
2.6.3		Is the development likely to impact on marine areas used extensively for recreation or for commercial fishing activities?					
	☐ Yes	•	No	If yes , please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).			
2.7	Water Supply and Drai	na	ge Cato	chments			
2.7.1	Are you in a proclaime	d o	r propo	sed groundwater or surface water protection area?			
	(You may need to contact the Department of Water (DoW) for more informati the requirements for your location, including the requirement for licences for abstraction. Also, refer to the DoW website)						
	☐ Yes	~	No	If yes, please describe what category of area.			
2.7.2	Are you in an existing Control area?	ng	or prop	posed Underground Water Supply and Pollution			
	(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 •	, N	No	If yes , please describe what category of area.			
2.7.3	Are you in a Public Dri	nki	ng Wate	er Supply Area (PDWSA)?			
	` •			DoW for more information or refer to the DoW egetation within a PDWSA requires approval from			
	☐ Yes •	, 1	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 was you propose. Where necessary, please provide a letter of intent from the DoV					
	√ \	'es	☐ No	(please tick)		
2.7.5	Will the p	roposal req	uire drainage	e of the land?		
	□ Y	es/es	✓ 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				ne construction and/ or operation of this proposal?		
	(pl	ease tick)	✓ Yes	If yes, complete the rest of this section.		
			☐ No	If no, go to the next section.		
2.7.7	What is tl kilolitres բ		quirement for	the construction and operation of this proposal, in		
	Estimated water requirements are:					
	50,000 kL total for construction.					
2.7.8		he propose	per year for ed source of	operation. water for the proposal? (e.g. dam, bore, surface		
	Wate	r will be so	ourced from	the existing farm dams on site and the surface		

Water will be sourced from the existing farm dams on site and the surface water catchment to the east of the development (refer attached referral document). If required water may also be transported in from off site.

2.8 I	Pollution
2.8.1	Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?
	(please tick) ✓ 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 ☐ No If yes, please describe what category of prescribed premise.
	Category 64 - Class II or Class III Putrescible Landfill
2.8.3	Will the proposal result in gaseous emissions to air?
	✓ Yes □ No If yes, please briefly describe.
	Decomposition of waste will produce landfill gas comprising mainly of methane and carbon dioxide. The composite lining and capping system will capture landfill gas for extraction and flaring (to convert methane to carbon dioxide) and potentially power generation. For more detail on landfill gas management please refer to the attached referral document.
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 □ No If yes, please briefly describe.
	Odour modelling has shown any impacts would be retained within the site boundary.
	Attachment: Referral Document Appendix E. Model data included with

digital submission.

Company: Environmental Alliances Pty Ltd

Contact Person: **David Pitt**

Phone: (08) 9343 0554

2.8.5 Will the proposal result in liquid effluent discharge?

If yes, please briefly describe the nature, ☐ Yes ✓ No concentrations and receiving environment.

The decomposition of waste will generate leachate. Leachate will be collected from the base of the landfill and evaporated or recirculated. A maximum leachate head of 300 mm in the base of the landfill will be maintained at all times. Leachate may also be transported off site for alternative treatment. No leachate will be discharged to the surrounding environment during normal

operations. A more detailed description of leachate management processes can be found in the attached referral document.

2.8.6 If there is likely to be discharges to a watercourse or marine environment, has any

	•		strate that the State Water Quality Management ndards will be able to be met?
	☐ Yes	✓ No	If yes, please describe.
	operational mar surrounding env	nagement fea vironment wo	ng environment are unlikely given the design and attures of the site. Any leachate discharge to the uld be managed on a case by case basis, with ned by the volume and composition of the leachate.
2.8.7	Will the proposal pro	oduce or resu	ult in solid wastes?
	✓ Yes	☐ No	If yes , please briefly describe the nature, concentrations and disposal location/ method.
			and operation of the site will be either placed in another appropriate facility for disposal.
2.8.8	Will the proposal re-	sult in signific	cant off-site noise emissions?
	☐ Yes	✓ No	If yes, please briefly describe.
		•	construction and operation shows noise levels rest sensitive receptors.
	Attachment: Company: Contact Person: Phone:	Vipac E : Sheikh	Il Document Appendix D. Engineers and Scientists Ltd Mahbub Alam 77 3335
2.8.9	Will the developn Regulations 1997?	nent be su	bject to the Environmental Protection (Noise)
	✓ Yes	☐ No	If yes, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?
			Please attach the analysis.
	Noise modelling	performed a	as described above.
2.8.10	odour or another "sensitive premise	pollutant thats s"such as	tential to generate off-site, air quality impacts, dust, at may affect the amenity of residents and other schools and hospitals (proposals in this category re, aquaculture, marinas, mines and quarries etc.)?
	✓ Yes	☐ No	If yes , please describe and provide the distance to residences and other "sensitive premises".
	offsite impacts of	due to landfill lwelling 'sens	ces and proposed design and operational features, construction or operation are very unlikely. The itive premises' is 1,900 m from the proposed
2.8.11	If the proposal has	s a residentia	al component or involves "sensitive premises", is it

located near a land use that may discharge a pollutant?

	☐ Yes	✓ No	☐ Not Applicable					
			If yes, please describe and provide the distance to the potential pollution source					
2.9 G	reenhouse Gas Em	nissions						
	2.9.1 Is this proposal likely to result in substantial greenhouse gas emissions (greater than 100 000 tonnes per annum of carbon dioxide equivalent emissions)?							
	☐ Yes	✓ No	If yes, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.					
	the amount and climatic effects a capping gas cap tonnes of carbor Greenhouse and in its operational	type of waste and leachate ture system. In dioxide equal Energy Rep life, reaching arbon emission	generated by a putrescible landfill are a function of e placed, the rate of waste decomposition due to recirculation and the efficiency of the lining and While the landfill is likely to exceed the 20,000 ivalent emissions threshold for National porting Scheme (NGERS) reporting at some stage g a 100,000 tonnes threshold is unlikely. Further ons and likely annual emissions can be found in tion.					
	2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.							
	Emissions are minimised through effective gas capture and extraction and flaring to convert methane into carbon dioxide (which has 21 to 25 times less global warming potential than methane).							
2.10 C	ontamination							
	Has the property o		proposal is to be located been used in the past for ed soil or groundwater contamination?					
	☐ Yes	✓ No	Unsure If yes, please describe.					
2.10.2	Has any assessment site?	ent been do	ne for soil or groundwater contamination on the					
	✓ Yes	☐ No	If yes, please describe.					
	Baseline testing the site.	of groundwa	ater quality in 7 monitoring bores installed across					
2.10.3		•	a contaminated site under the <i>Contaminated Sites</i> CS Regulations and proclamation of the CS Act)					
	☐ Yes	✓ No	If yes, please describe.					

2.11 S	ocial Surround	lings				
2.11.1	2.11.1 Is the proposal on a property which contains or is near a site of About ethnographic or archaeological significance that may be disturbed?					
	☐ Yes	✓ No	Unsure	If yes, please describe.		
2.11.2	(e.g. a major r	ecreation area or	natural scenic fea	,		
	✓ Yes	☐ No	If yes, please de	scribe.		
		orint. The site is b		to the northwest of the proposed and not visible from the lookout		
2.11.3	Will the proposal result in or require substantial transport of goods, which may affect the amenity of the local area?					
	✓ Yes	☐ No	If yes, please des	scribe.		

Traffic impact on the Great Southern Highway is estimated at a 3% increase on 2008/2009 levels between the Great Eastern Highway intersection and the Allawuna site, 18 km west of York.

The proposal will include the upgrading of the site access intersection to enable passing of vehicles slowing down to enter the site in both directions and a speed up lane for trucks returning to Perth.

3. PROPOSED MANAGEMENT

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	Is the proposal consistent with the EPA's I Bulletins/Position Statements and Environ Guidelines/Guidance Statements (available on the EPA	nme		Protection Assessment					
	✓ Yes								
	The following guidelines were used for assessment of the site for potential use as a Landfill:								
	Best Practice Environmental Management - Siting, Design, Operation and Rehabilitation of Landfills EPA-Victoria 2010. Landfill Waste Classification and Waste Definition 1996 (as amended) December 2009. Separation Distances between Industrial and Sensitive Land Uses 2005. Environmental Protection Act 1986 (as amended). Australian Drinking Water Guideline 2004. Environmental Protection and Biodiversity Conservation Act 1999. Environmental Protection (Noise) Regulation 1997.								
3.2	Consultation								
3.2.1	Has public consultation taken place (such as with otle community groups or neighbours), or is it intended the place?	_		-					
	✓ Yes ☐ No If yes , please list those comments or summare separate sheet.		nsulted respon						
	Refer to Appendix I of the Referral Document.								