PO Box 100 Leederville WA 6902 **T** (08) 9420 2420 **F** (08) 9420 3626

Our Ref:	JT1 2011 12136v01				WATER
Enquiries: Telephone:	Bree Atkinson (08) 9420 2893			nmental Authority	CORPORATIO
3 October 2	014	File:		2014-0150 0951448 CT 2014	
Dr Paul Vogel					
Chairman		fA:			
Environmen Locked bag	tal Protection Authority 10		General Manager	For Information	
East Perth V			Dir.AC	For Discussion	
			Dir. SPPD	For Consideration/ Advice	
Dear Dr Vog	gel		Dir. Bus Ops	Draft Response	
			Txoc Assist	No Further Action	

RE: BALANNUP WASTEWATER PRESSURE MAIN REFERRAL UNDER S38 OF THE ENVIRONMENTAL PROTECTION ACT 1986

The Water Corporation is pleased to refer the Balannup Wastewater Pressure Main proposal to the Environmental Protection Authority (EPA) under section 38 of *The Environmental Protection Act* 1986 (EP Act).

The proposed Balannup Wastewater Pressure Main involves the construction and operation of a 4.5 km wastewater pressure main from the Collared Street Pump Station (PS) to the Waterworks Road PS in Armadale. The proposed pressure main is required to meet the increased capacity requirements within the Balannup Sewer District. Recent subdivision developments in suburbs such as Piara Waters, Southern River and Harrisdale, with the resultant population increase, mean that existing Water Corporation wastewater assets and their operating arrangement within the Balannup sewerage district are no longer adequate.

The proposed pressure main alignment intersects a number of environmentally sensitive areas including;

- Bush Forever Site 342;
- Gibbs Road Swamp System (Nationally Important Wetland);
- Conservation Category Wetlands; and
- Regionally significant Flora and Fauna

Based on the results of the flora and fauna survey undertaken during Spring 2012 it was determined the proposal is unlikely to have a significant impact on Matters of National Environmental Significance (MNES). The Flora and Fauna assessment undertaken by ENV during spring 2012 identified no federally listed Threatened Ecological Communities (TEC) within the proposed construction footprint. Accordingly the project was not referred under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act).

A TEC is present within the Bush Forever site 342 and is groundwater dependent. However as it is proposed to install the pipeline using trenchless technology, dewatering will not be required thereby substantially minimizing the potential impact on the TEC.

The Water Corporation considers that the construction of the proposed pressure main does not require formal assessment under part IV of the EP Act and can be appropriately managed in accordance with the management plans to be developed specifically for this proposal and in accordance with a clearing permit issued under Part V of the EP Act.

Please find enclosed the referral form, relevant supporting documentation and spatial data.

If you have any questions relating to the proposal please contact Bree Atkinson on 9420 2893 or by email bree.atkinson@watercorporation.com.au.

Yours sincerely,

Rupert Duckworth

Manager EIA and Approvals

Environment and Aboriginal Affairs Branch

Water Corporation

Encl:

Attachment 1:

Section 38 Referral Form

Attachment 2:

Supporting Documentation including Appendices

Spatial Data:

Pipeline alignment

BALANNUP WASTE WATER PRESSURE MAIN

ATTACHMENT 1 SECTION 38 REFERRAL FORM





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	V	
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, Rupert Duckworth, declare that I am authorised on behalf of the Water Corporation (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: Rupert Duckworth

Position: Manager EIA & Approvals

Company: Water Corporation

Date: 2/10/2014

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

following question (a response is optional).

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	Water Corporation
Joint Venture parties (if applicable)	Not Applicable
Australian Company Number (if applicable)	ABN: 28 003 434 917
Postal Address	PO Box 100
(where the proponent is a corporation or an association	Leederville WA 6902
of persons, whether incorporated or not, 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:	Bree Atkinson
• name	Water Corporation
address	629 Newcastle St
• phone	Leederville WA 6007
• email	Ph: 9420 2893
- Silian	Bree.atkinson@watercorporation.com.au

1.2 Proposal

Description The construction and operation of a 4.5 km wastewater pressure main connecting Collared Road Wastewater Pump Station (WWPS) and Waterworks Road WWPS. "Trenchless" technology will be used to install 1.5km of the pressure main through an Environmentally Sensitive Area. (See Attachment 2 Section 3.1) Extent (area) of proposed ground disturbance. Extent (area) of proposed ground disturbance. Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable). Details of any staging of the proposal. Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within	Title	Balannup Wastewater Pressure Main
wastewater pressure main connecting Collared Road Wastewater Pump Station (WWPS) and Waterworks Road WWPS. "Trenchless" technology will be used to install 1.5km of the pressure main through an Environmentally Sensitive Area. (See Attachment 2 Section 3.1) Extent (area) of proposed ground disturbance. Extent (area) of proposed ground disturbance. Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable). Details of any staging of the proposal. Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within		
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Extent (area) of proposed ground disturbance. Temporary impact on approximately 3.6 has and 4m construction width for 3 km and 4m construction width through the Bush Forever for 1.5km). Less than 0.1 ha of native vegetation will be disturbed. Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable). Details of any staging of the proposal. Is the proposal a strategic proposal? Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within		
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Details of any staging of the proposal. No staging Is the proposal a strategic proposal? No Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within	(including start and finish dates where	
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Is the proponent requesting a No declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within	Details of any staging of the proposal.	No staging
declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within	Is the proposal a strategic proposal?	No
derived proposal? If so, provide the following information on the strategic assessment within	Is the proponent requesting a	No
derived proposal? If so, provide the following information on the strategic assessment within	declaration that the proposal is a	
on the strategic assessment within		
on the strategic assessment within	If so, provide the following information	
Willon the reletred proposal was	which the referred proposal was	
identified:	identified:	
title of the strategic assessment;	title of the strategic assessment:	
and		
Ministerial Statement number.	Ministerial Statement number.	

Please indicate whether, and in what way, the proposal is related to other proposals in the region.	This proposal is not related to any other proposal in the region.
Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?	No the Water Corporation does not own all of the land for this proposal. The Water Corporation will liaise with vesting authorities to obtain access as required. The land with Bush Forever site 342 is owned by WAPC and is managed by DPaW for the State of Western Australia. Consultation with WAPC has commenced and an in principle agreement for the Water Corporation to access WAPC land has been reached (Attachment 2, Appendix F) The remainder of the land on which the proposal is to be established is within existing road reserves.
What is the current land use on the property, and the extent (area in hectares) of the property?	Land use is either existing road or proposed road along the length of the proposed pressure main. The initial 1 km section from the Collared Road WWPS to Skeet Road is a built road. The section between Skeet Road and Anstey Road is the proposed, but as yet unbuilt section of Keane Road. This section is within Bush Forever site 342. The final 2 km to Waterworks Rd WWPS is along existing road (Keane Road and Hanlin Road), with a crossing at Armadale Road and Tonkin Highway.

1.3 Location

Name of the Shire in which the proposal is located.	City of Armadale
For urban areas:	Keane Road, Armadale (Nicholson
 street address; 	Road to Armadale Road)
lot number;	Hanlin Road (Armadale Road to
suburb; and	Tonkin Highway)
 nearest road intersection. 	
For remote localities:	
nearest town; and	
distance and direction from that town to the	
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	Yes / No
treated as confidential?	
If yes, is confidential information attached as a	
separate document in hard copy?	NA

1.5 Government Approvals

Is rezoning of any proposal can be imp If yes, please provide	lem		Yes / No	
	ger sal		Yes /-No	
Agency/Authority		Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal
City Armadale/WAPC	of	Development Approval	No – Awaiting Environmental Approvals	
WAPC		Land access within Bush Forever site	Yes	Alex Harrison (6551 9420)
Department Environment Regulation	of	Clearing Permit	No	

PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

ENVIRONMENTAL IMPACTS 2.

Describe	the	impacts	of	the	proposal	on	the	following	elements	of	the	environment,	by
answerin	g the	e question	าร	cont	ained in S	ecti	ons	2.1-2.11:					

- 2.1 flora and vegetation; 2.2 fauna; 2.3 rivers, creeks, wetlands and estuaries; 2.4 significant areas and/ or land features; 2.5 coastal zone areas; 2.6 marine areas and biota; 2.7 water supply and drainage catchments; 2.8 pollution; 2.9 greenhouse gas emissions; 2.10 contamination; and
- social surroundings.

These features should be shown on the site plan, where appropriate.

For all information, please indicate:

- the source of the information; and (a)
- the currency of the information. (b)

2.1 Flora and Vegetation

2.1.1 Do you propose to clear any native flora and vegetation as a part of this proposal?

[A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations 2004)]. Please contact the Department of Environment and Conservation (DEC) for more information.

(please tick)	Yes	If yes, complete the rest of this section
	☐ No	If no, go to the next section

- 2.1.2 How much vegetation are you proposing to clear (in hectares)?
 - 0.1 ha of native vegetation is proposed to be temporarily cleared within Bush Forever site 342 with minor pruning and trampling along the existing fire access track. More details about the vegetation impacts are included in Section 6.2 of Attachment 2.

				N 16		o on	what de	ato and to w	uhic	h o	ffico M	iac the
	you are exempt from such a requirement)?											
2.1.3	Have you	submitted	an	application	to	clear	native	vegetation	to	the	DEC	(unless

 Yes If yes, on what date and to which office was the ✓ No application submitted of the DEC?

propo	osai?		
	✓ 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.
			essment was undertaken in 2012 by ENV for this dix D of Attachment 2.
2.1.4			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.
and	Priority flora previous das threatened ta	ously recorded	EC database searches identified 26 threatened within 5 km of the study area. Of these six were a, one P2 taxa, five P3 taxa and ten P4 taxa (Env
2.1.5	Are there any kn communities on the		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.
Jaci			d during the survey. One Priority Flora Species, ecorded in the recent survey. See Section 6.2 of
2.1.6	or adjacent to a	listed 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).
			en Skeet Road and Anstey Road is within Bush pland and Adjacent Bushland, Forrestdale).
2.1.7	What is the condi	tion of the vege	etation at the site?
			Completely Degraded to Excellent. The proposal hrough much of Bush Forever site 342, however

Are you aware of any recent flora surveys carried out over the area to be disturbed by this

does not contain native vegetation and is considered completely degraded.

some vegetation in Excellent condition (0.1 ha) will be impacted within the Bush Forever site along the edge of this track. The remaining alignment, outside Bush Forever Site 342

2.2 F	auna		
2.2.1	Do you expect that ar	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.
2.2.2	Describe the nature a	and extent c	of the expected impact.
nativ durir	ve vegetation during o	construction	ack cockatoo habitat due to the clearing of 0.1 hand. A fauna management plan will be implemented er loss of habitat and minimise the risk of fauna
2.2.3	Are you aware of any by this proposal?	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.
The	fauna survey report is	attached in	Attachment 2, Appendix D.
2.2.4	Has a search of D (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?	occurrence	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.
			hin the proposal area, it is expected that all three will utilise habitat within Bush Forever site 342.
2.3 F	Rivers, Creeks, Wetla	nds and E	stuaries
			n 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 development	result in the	e clearing of vegetation within the 200 metre zone?
	✓ Yes	☐ No	If yes, please describe the extent of the expected impact.

The extent of vegetation clearing within 200 m of a wetland will not exceed 0.1 ha and will be temporary.

2.3.3 Will the development result in the filling or excavation of a river, creek, wetland or estuary?

✓ Yes

☐ No
☐ If yes, please describe the extent of the expected impact.

The proposal will involve the ploughing and burying of a wastewater pressure main. The 450 mm pipe will be buried at least 900 mm below the existing ground surface.

Within the Bush Forever site, the pipe would be laid using the EcoPlough process where:

- A large plough loosens the surface soil within a 4m corridor
- The pipe is laid into the soft ground
- The soil is re-compacted on top of the pipe
- Construction within the Bush Forever site takes less than a week.

Advantages of this method are that there is no dewatering required, there is no open trench which may trap small fauna and the corridor of disturbance is very narrow. The soil profile integrity will be maintained through this methodology, as there will be minimal mixing between layers. Any potential acid sulfate soil will remain at depth and is unlikely to be exposed to oxygen.

Refer to Attachment 2 for further details on the EcoPlough methodology.

2.3.4 Will the development result in the impoundment of a river, creek, wetland or estuary?

Yes • No If yes, please describe the extent of the expected impact.

2.3.5	3.5 Will the development result in draining to a river, creek, wetland or estuary?					
	☐ Yes ✓ No If yes, please dimpact.	escribe t	he extent o	f the expected		
dew Eco con dew thro	rks will occur in summer and autumn, in order to my ater. Dewatering will not be required for the laying Plough system within the bush forever site. The ventional trenching will be used to lay the prestratering. This will not have an impact upon veget ugh drawdown due to the timing of construction. An appending prepared for this project (Attachment 2, Appending to the timing of construction.	ng of the Outside sure mai ation wit dewater	e pressure the Bush n. Trenchir h in the Bu	main using the Forever site, ng may involve ush forever site		
2.3.6	Are you aware if the proposal will impact on a riv buffer) within one of the following categories? (ple			r estuary (or its		
	Conservation Category Wetland	✓ Yes	☐ No	Unsure		
	Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	☐ Yes	✓ No	☐ Unsure		
	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)	☐ Yes	✓ No	Unsure		
	Significant Areas and/ or Land Features					
2.4.1	Is the proposed development located within or a National Park or Nature Reserve?	djacent t	to an existin	ng or proposed		
	☐ Yes ✓ No If yes , please p	rovide de	etails.			
2.4.2	Are you aware of any Environmentally Sensitive under section 51B of the EP Act) that will development?	•				
	✓ Yes No If yes, please p	rovide de	etails.			
	section of the proposal from Skeet Road to V lared ESA.	Vaterwor	ks Rd WS	PS is within a		
wet	area is an ESA due to being within the Bush F ands and being partially within the Gibbs Ro ortant wetland.					
2.4.3	Are you aware of any significant natural land fea will be impacted by the proposed development?	atures (e.	g. caves, r	anges etc) that		

	☐ Yes	✓ No	If yes, please provide details.
2.5	Coastal Zone Areas (Coastal Du	unes and Beaches)
			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 the primary dune?	setback o	f the development from the high tide level and from
2.5.3			coastal areas with significant landforms including land, coastal dunes or karst?
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.
2.5.4	Is the development lik	elv to impa	act on mangroves?
	☐ Yes	☐ No	If yes, please describe the extent of the expected impact.
2.6 I	Marine Areas and Bio	ta	
2.6.1	Is the development li such as seagrasses, of		pact on an area of sensitive benthic communities, or mangroves?
			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 lik or for commercial fish		act on marine areas used extensively for recreationes?
	☐ 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 Su	pply and D	rainage Cat	hments		
2.7.1	Are you	in a proclaiı	med or propo	sed groundwater or	surface water prof	tection area?
	the requ	irements fo		epartment of Water n, including the rec V website)		
	~	Yes	☐ No	If yes, please desc	ribe what category	of area.
	the pro undwater	•	within a	proclaimed ground	water protection	area (Perth
Act Wat	2012 over er and Irri	rrides the goigation Act	eneric requir	tion by Section 139 ments of Sections 5 efore the Water Col ense.	C and 26D of the	Rights in
2.7.2	Are you area?	in an existir	ng or propos	d Underground Wat	ter Supply and Pol	lution Control
	your loc		ding the rec	oW for more inforr uirement for licence		
		Yes	✓ No	If yes, please of	lescribe what ca	tegory of
The	proposal	is 4.6 km e	ast of the Ja	area. dakot Underground	Water Pollution C	ontrol Area.
				er Supply Area (PDV		
	(You ma	ay need to	contact the	DoW for more info getation within a P	ormation or refer	
		Yes	✓ No	If yes, please darea.	lescribe what cat	tegory of
The	proposal	is 4.6 km e	ast of the Ja	dakot Underground	Water Pollution C	ontrol Area.
2.7.4	ls there s	sufficient wa	ater available	for the proposal?		
				to whether approva y, please provide a		
	~	Yes	☐ No	(please tick)		
2.7.5	Will the p	oroposal red	quire drainag	of the land?		
	V '	Yes	□ No	If yes, how is the the drainage be concerned Authority or Wassystem? Please processes the second system?	onnected to an exister Corporation	sting Local
site use	(see Sect conventio	ion 6.5 of A	ttachment 2) ng technolog	nstruction, in areas Construction outsid to lay the pressure	outside of the Bus de of the Bush Fore	ever site will

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.		
	✓ No	If no, go to the next section.		

2.7.7 What is the water requirement for the construction and operation of this proposal, in kilolitres per year?

Water will be required to pressure test the pipeline once installed. No water is required during operation.

2.7.8 What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)

Potable water will be sourced from Water Corporation owned assets.

2.8.1		_	rge of pollutants from this development, such as sions, dust, liquid effluent, solid waste or other
	(please tick)	✓ Yes	If yes, complete the rest of this section.
		☐ No	If no, go to the next section.
	See section 2.8.9		
2.8.2	Is the proposal a Regulations 1987?	prescribed	premise, under the Environmental Protection
	(Refer to the EPA's section 38(1) of the E		uide for Referral of Proposals to the EPA under for more information)
	☐ Yes	✓ No	If yes, please describe what category of prescribed premise.
202	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	16 :	
2.8.3	Will the proposal resu	Ü	
	☐ Yes	✓ No	If yes, please briefly describe.
2.8.4		_	analysis to demonstrate that air quality standards tion of cumulative impacts from other emission
	☐ Yes	✓ No	If yes, please briefly describe.
2.8.5	Will the proposal resu	lt in liquid ef	fluent discharge?
	☐ Yes	∨ No	If yes, please briefly describe the nature, concentrations and receiving environment.
	struction: The pressure		will either be infiltrated outside the bush forever by existing sewer.
	ration: There will be no tewater pressure main.	_	outlets (scour/air valves) installed along the
was	iewater pressure main.		
2.8.6	analysis been done	to demonst	to a watercourse or marine environment, has any trate that the State Water Quality Management dards will be able to be met?
	☐ Yes	✓ No	If yes, please describe.
Thei	re will be no discharges	s to waterco	urses or the marine environment.

2.8 Pollution

2.8.7 Will the proposal produce or result in solid wastes?

	Yes	✓ No	If yes, please briefly describe the nature, concentrations and disposal location/ method.
2.8.8	Will the proposal res	ult in significa ✓ No	ant off-site noise emissions? If yes, please briefly describe.
2.8.9	Will the developm Regulations 1997?	ent be sub	oject 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.
1997		e proposal wi	ne Environmental Protection (Noise) Regulations ill not be subject to the Environmental Protection
2.8.10	odour or another premises	oollutant that " such as sch	ential to generate off-site, air quality impacts, dust, to may affect the amenity of residents and other nools and hospitals (proposals in this category may uaculture, marinas, mines and quarries etc.)?
	☐ Yes	✓ No	If yes, please describe and provide the distance to residences and other "sensitive premises".
2.8.11			I component or involves "sensitive premises", is it a discharge a pollutant?
	☐ Yes	☐ No	✓ Not Applicable
			If yes, please describe and provide the distance to the potential pollution source
2.9	Greenhouse Gas Em	ieeione	
	Is this proposal likely	to result in s	ubstantial greenhouse gas emissions (greater 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.
292	Further if yes please	e describe pr	onosed measures to minimise emissions, and any

2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

2.10 C	ontamination			
2.10.1				ocated been used in the past for ter contamination?
	☐ Yes	✓ No	Unsure	If yes, please describe.
2.10.2	Has any assessm	ent been done	e for soil or ground	vater contamination on the site?
	☐ Yes	✓ No	If yes , please	describe.
2.10.3		_		e under the <i>Contaminated Sites</i> nd proclamation of the CS Act)
	☐ Yes	✓ No	If yes , please	describe.
2.11 Sc	ocial Surrounding	s		
2.11.1			which contains on which contains on which contains on the contains of the cont	or is near a site of Aboriginal ay be disturbed?
	∐Yes	✓ No	☐ Unsure	If yes, please describe.
			_	nal Heritage Inquiry System was tes occur within the proposal.
	-	_		proximity to the terminus of the chaeological Site 001 & 002).
South		Land and Se	a Council (SWAL	ent of Aboriginal Affairs and the SC). SWALSC acknowledged
	Is the proposal on (e.g. a major recre			near a site of high public interest ure)?
	✓ Yes	☐ No	If yes , plea	ase describe.
the term	community value is	t highly. The p	proposal has been	et as it has a Friends group and designed to have minimal long s buried it will not be noticeable
2.11.3	Will the proposal affect the amenity			transport of goods, which may
	Yes	✓ No	If yes, please des	cribe.

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 interest	ergeneratio	onal equity.		✓ Yes	☐ No	
	The principle of diversity and ecolo			oiological	✓ Yes	☐ No	
	4. Principles relating incentive mechanis	•	d valuation, pri	cing and	✓ Yes	☐ No	
	5. The principle of wa	ıste minimi	sation.		✓ Yes	☐ No	
3.1.2	See Section 5 of and a section 5 of	consisten Stateme	t with the ents and	EPA's En Environr	nental As	Protection sessment	
	✓ Yes	☐ No					
3.2	Consultation						
3.2.1							
	✓ Yes	☐ No	If yes, please comments or separate sheet	summari		d attach on a	

Water Corporation has conducted consultation with relevant government agencies, local and state politicians, the City of Armadale and a number of interest groups regarding the Balannup Wastewater Pressure Main. A summary of the stakeholder consultation conducted is included in Section 7 of Attachment 2. This includes a summary of the main issues raised by stakeholders and how Water Corporation has addressed the issues.