



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Feasibility Study for Foxwood Dam

Project Steering Committee (PSC) Meeting, No. 3

At 9:00 on 03 October 2013, Casabella Guest House, East London

MINUTES

1. REGISTRATION FROM 08:30 TO 09:00

2. WELCOME

Mrs Sanet van Jaarsveld, Chairperson welcomed attendees to the meeting

3. ATTENDANCE AND INTRODUCTIONS

Mrs Sanet van Jaarsveld noted the organisations that were invited to the PSC. The attendance is noted at the end of these minutes. The attendance register is attached to these minutes.

The following organisations were invited to the PSC:

- *Head Office and Regional Office of Department of Water Affairs*
- *National Department of Agriculture, Forestry & Fisheries*
- *Department of Rural Development and Land Reform*
- *Eastern Cape Department of Rural Development and Agrarian Reform*
- *Provincial Department of Economic Development, Environmental Affairs and Tourism*
- *Provincial Department of Local Government and Traditional Affairs [DID NOT ATTEND]*
- *Representatives of the Amathole District Municipality, Nxuba Local Municipality and Amatola Water*

The Office of the Premier (OTP) confirmed that the representation of the Provincial Department of Economic Development, Environmental Affairs and Tourism and the Provincial Department of Local Government and Traditional Affairs will act as representation of the OTP

4. APPROVAL OF THE AGENDA

New subjects to be included in Item 10: Any Other Business

The Agenda was approved without changes or additions

5. MINUTES OF THE PREVIOUS PSC MEETING (18 APRIL 2013)

5.1 Approval

Minor corrections were made to the names of the attending National and Provincial departments of government.

5.2 Matters arising (not covered in items 6 to 9 on the Agenda)

Item 6 – Governance Structure – nominated persons within stakeholder departments for communication regarding Foxwood Dam.

Mrs van Jaarsveld confirmed that the following people have been nominated by their respective departments to act as contact persons for the Project Steering Committee.

Government Department	Nominated PSC Contact Person
DWA - EC	Mrs Makanya P.
	Ms Morapeli S
	Mr Theo Geldenhuys
	Mr Ferreira C
	Mr Lucas A.
	Mr Maduna S
	Mr Mullineux S
	Mr Mbambisa G
	Ms Gidana A
	Mr Vonco M.
	M Gasa-Lubelwana P.
	Ms Kama B
	Mr Kunene B
	Ms Mapuma N
Department of Agriculture, Forestry and Fisheries	Ms Jean M. Gabriel
National Department of Rural Development and Land Reform	Ms N Gobozi
EC Department of Economic Development, Environmental Affairs and Tourism	Mr Zola Hewu
Provincial Department of Rural Development and Agrarian Reform	Mr Kowie Joubert
Department of Local Government and Traditional Affairs	Mr Tshitsho Majavu

6. MOVING FORWARD FROM THE PRELIMINARY STUDY

6.1 Presentation

Hydrology and Ecological Water Requirements

Mr Bob Pullen, Study Leader, gave an overview of the Module dealing with determination of Ecological Water Requirements (EWR). The EWR are determined in terms of the Water Act as the flow regime that must be maintained in the river, ie the Environmental Reserve, to sustain the riverine ecology. As a consequence the EWR significantly affect the quantity of water that can be made available for domestic and other uses. Following a specialist workshop by the EWR team the preliminary findings are:

- *the Koonap River has a Present Ecological State (PES) of category C*
- *the Koonap River is of MODERATE Ecological Importance and Sensitivity (EIS)*
- *Recommended Ecological Category (REC) is to maintain the PES of category C*

Full details will be reported in the Water Resources module.

Potential Irrigation Development& Agricultural Working Group

Mr John Allwood, Agriculture & Irrigation specialist, summarised the progress that has been made with a review of the irrigation potential downstream of the Foxwood Dam:

- *It is estimated that there is some 15 000 ha of irrigable land downstream of the Foxwood Dam site. Consequently the availability of land is not a limiting factor for development of irrigated agriculture in the Koonap valley.*
- *Land currently being irrigated tends to be in relatively small patches.*
- *Current practices include mainly irrigation of pastures and high value crops like citrus, avocado and pecan.*
- *It was confirmed that little land is now available on the Municipal Commonage for food plots or other irrigation models as had been suggested in previous reports.*
- *Cropping patterns and irrigation systems have changed in recent years with less flood irrigation being practiced and the proportion of permanent crops increasing.*

Mr John Allwood, Agriculture & Irrigation specialist, summarised the outcomes of the Agricultural Technical Working Group (ATWG), representing agricultural stakeholders in the area, which had met in Adelaide as follows:

- *There was a stated willingness of commercial and aspirant farmers to work together for the development of commercial farming models for new farmers.*
- *All agreed that aspirant farmers should be assisted to become commercially successful farmers.*

- *Advice is required from the Department of Rural Development and Land Reform, the Department of Agriculture, Forestry and Fisheries, the Department of Rural Development and Agrarian Reform, and the Eastern Cape Coordinating Committee on Agricultural Water (CCAW) to establish the way forward.*

Mr Barry Levinrad (Policy Advisor, Department of Rural Development and Land Reform) noted:

- *That the positive outcome and collaborative spirit in the ATWG was to be welcomed.*
- *That Chapter 6 of the National Development Plan on **An Integrated and Inclusive Rural Economy** proposes the establishment of District Lands Committees within district municipalities comprising all private and public agriculture stakeholders from district, provincial and national level.*
- *That the Department of Rural Development and Land Reform and Department of Agriculture, Forestry and Fisheries are committed to an existing policy and programme to promote and support smallholder farming development.*
- *That the Land Reform and Agriculture policy should be presented to the ATWG to determine which policies may be most applicable to the local Adelaide farming community and how best they can be implemented.*

Mr Barry Levinrad undertook to provide the PSP with all relevant policies of the Department of Rural Development and Land Reform.

Theo Geldenhuys (Regional Office, DWA) noted that as the Foxwood Dam project had been motivated by DWA, it should be assumed that the capital cost of developing the dam would be incurred by National Treasury.

Mr Kowie Joubert (Engineer, Department of Rural Development and Agrarian Reform & Chairperson of the Coordinating Committee on Agricultural Water, Eastern Cape, CCAW) noted:

- *If it is assumed that the capital cost of the dam will be funded by national Government, it should be expected that irrigation development and agricultural Development benefiting from the dam should be carried out in accordance with Land Reform policy and objectives.*
- *If the Land Reform policy and objectives are clearly defined, the provincial Department of Agrarian Reform can propose options and strategies for developing agriculture in line with these.*
- *If the department of Land Reform could confirm what financial net farm income is considered optimal, the provincial Department of Agrarian Reform could determine the minimum farm sizes required.*

Alternative Supplies to Adelaide Town

Mr Bob Pullen (PSP Study Leader) summarised the key finding of the review of Alternative Supplies carried out as part of the Preliminary Study:

- *An initial review of the hydrology has indicated that the current and likely future domestic demand of Adelaide can be supplied by the existing off-take weir canal and storage dam subject to repairs being made regular maintenance being done.*
- *The current and future domestic demand of Adelaide should be able to be supplied without the need to build Foxwood Dam.*

Mr Stephen Nash (Amathole District Municipality, ADM) noted that:

- *ADM is implementing a maintenance programme on the canal which has recently delivered flows of 5ML/day. It was operating at 2.9ML/day on Monday 30 September 2013. This decrease is believed to be due to the low level in the Koonap River.*
- *Contractors are currently carrying out work in Bedford and Adelaide to repair leaks in the water reticulation network.*
- *ADM is keen to support investment in major water schemes (such as Foxwood Dam) within its Municipality as there is very little availability of funds to carryout smaller scale maintenance required to optimise its existing assets*

Dam Technical Feedback, Geotechnical data & Aerial Imagery

Mr James Hampton (Project Director & Dam Engineer) provided a brief update on technical progress with the dam design. Geotechnical investigations on the site have been completed and a report is being prepared.

The procurement of Aerial Surveys and Mapping has taken longer than originally programmed and is expected to be completed by late October 2013. Dam design activities will then commence.

6.2 Discussion and comments

See above.

7. ENVIRONMENTAL IMPACT ASSESSMENT

Mr Sanet van Jaarsveld (DWA Project Manager) reported that the DWA process for procuring and appointing an EIA consultant is in progress.

It was noted in the meeting that:

- **Consideration of Alternatives** *is an important aspect of the EIA which must not be overlooked.*
- *The social aspect of the EIA is particularly relevant to the Foxwood Dam project and the Land Reform policy must be given attention.*

8. PROJECT PROGRAMME

Mr James Bristow (Arup Project Manager) provided a brief overview of the work programme as follows:

- *the Preliminary Study has been completed*
- *the Water Resources module is reaching its conclusion*
- *Geotechnical site investigations have been completed*
- *Aerial Imagery of the dam site has been completed and mapping is commencing.*

It is anticipated that once the mapping is completed, design of the dam structure will take place between November 2013 and January 2014. This is delayed compared to the original project programme, but will not impact on the overall project completion date.

9. PROJECT RISKS

Perceived risks to the project were discussed and mitigation and actions agreed as recorded in the table below:

	Risk	Mitigation	Action
1	Environmental Impact Assessment – delay of authorisation for project	Appointment of Environmental Assessment Practitioner	DWA Head office
2	No development of commercially viable agricultural model	Implementation of Land Reform and Agricultural policy.	PSC & CCAW, Department of Land Reform & Department of Agriculture
3	Project Funding – risk of lack of affordability of Capital Expenditure for project	Awareness of National Treasury policy	DWA Head office
4	Project Funding – risk of lack of affordability of Operational Expenditure for project	Development of financial viability model based on proposed institutional and financing arrangements	PSP
5	Road diversion Timing and Schedule Implication	Consultation with Eastern Cape Provincial Department of Roads and Public Works	PSP
6	Ownership and administration of water resource	Project Module: Institutional Arrangements	Amathole District Municipality & PSP

10. ANY OTHER BUSINESS

It was agreed that because direct input to the project is required from a number of key stakeholder departments (notably Department of Rural Development and Land Reform, Department of Agriculture, Forestry and Fisheries and Department of Rural Development and Agrarian Reform) Agenda items should be included in future PSC meetings for ‘report back’ from those departments and others, such as Amathole DM and Amatola waterboard.

11. DATE FOR NEXT MEETING

Thursday 13 March 2014

12. CLOSURE

Mrs Sanet van Jaarsveld thanked everyone present for attending and contributing to the meeting.

13. ATTENDANCE

PSP Project Team

James Hampton	(PSP Project Director)
James Bristow	(PSP Project Manager)
Bob Pullen	(PSP Study Leader)
John Allwood	(PSP Agriculture Specialist)

DWA Project Team

Mrs Sanet van Jaarsveld	(DWA, Project Engineer: Options Analysis (North))
Mr Menard Mugumo	(DWA, Chief Engineer: Options Analysis (South))

DWA Eastern Cape

Mr Theo Geldenhuys	(DWA Regional Office: Regulation & Use)
Mr Stephen Mullineux	(DWA Regional Office: Engineer: Planning)
Mr Bhekokwakhe Kunene	(EC - Institutional Establishment Directorate)
Ms Nosibuyiselo Mapuma	(EC - Institutional Establishment Directorate)

Eastern Cape Department of Rural Development and Agrarian Reform

Mr Kowie Joubert	(Provincial Department: Rural Development & Agrarian Reform)
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National Department of Agriculture, Forestry & Fisheries

Ms Puleng Mofokeng	Deputy Director (Water Use & Irrigation Development)
Mr Ernest Malatsi	Assistant Director (Water Use & Irrigation Development)

Department of Rural Development and Land Reform

Mr Barry Levinrad	(Chief Land Reform Policy Advisor)
Viwe Mbiyo	(Project Coordinator)
Xoliswa Mzilikazi	(Project Coordinator)
N. Yokwana	

Department of Economic Development, Environmental Affairs and Tourism

Hlomela Ntsini	(Assistant Manager: Environmental Quality Management)
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Amathole District Municipality


Mr Stephen Nash

Amatola Water

[DID NOT ATTEND]


Nxuba Local Municipality

Mrs Leonora Bruintjies	(Speaker)
Mr Siphiso Caga	(Municipal Manager)
Councillor Ernie Lombard	(Nxuba Local Municipality: Councillor)
Councillor Quondile Maloni	
L N Zweni	
T France	(Nxuba CDW LC)
L Jebe	(Nxuba official)



Feasibility Study for Foxwood Dam

**Project Steering
Committee Meeting 03**
03 October 2013 9am

 **water affairs**
Department of Water Affairs
REPUBLIC OF SOUTH AFRICA

Feasibility Study for Foxwood Dam

Project Steering Committee Meeting 03
East London
03 October 2013

 **water affairs**
Department of Water Affairs
REPUBLIC OF SOUTH AFRICA

Sanet van Jaarsveld
Production Engineer
Options Analysis (North)

Menard Mugumo
Chief Engineer
Options Analysis (South)

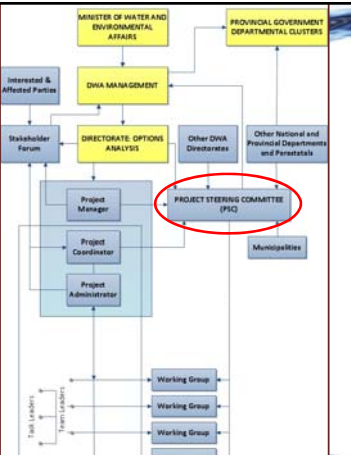
Welcome

“The PSC will be responsible for advising the DWA, through the DWA Project Manager, on the strategic matters relating to the study and for locating and making available information necessary for the investigations.”

Department	Nominated Person
EC Department of Water Affairs	Various
National Department of Rural Development and Land Reform	Ms N Gobozi
EC Department of Economic Development, Environmental Affairs and Tourism	Mr Zola Hewu
Provincial Department of Rural Development and Agrarian Reform	Mr Kowie Joubert
Department of Local Government and Traditional Affairs	Mr Tshitsho Majavu

Project Governance Structure

“The PSC will be responsible for advising the DWA, through the DWA Project Manager, on the strategic matters relating to the study and for locating and making available information necessary for the investigations.”



Feasibility Study Work Programme

- | | | |
|------------------------------|-----------|-------------------------------------|
| ✓ Inception Report | 3 months | Commencement:
August 2012 |
| ✓ Phase 1: Preliminary Study | 6 months | |
| • Phase 2: Feasibility Study | 18 months | |
-
- | | |
|---|---|
| 1. Water Resources | 8. Cost Estimate and Comparison |
| 2. Water Requirements | 9. Land Matters |
| 3. Irrigation Development | 10. Regional Economics |
| 4. Bulk Raw Water Supply Infrastructure | 11. Record of Implementation Decisions |
| 5. Water Quality Assessment | 12. Legal, Institutional and Financing Arrangements |
| 6. Site Investigations | 13. Public Participation |
| 7. Dam Technical Details | |
- Completion:**
October 2014

Feasibility Study for Foxwood Dam

Technical Feedback

- Ecological Water Requirements input to Hydrology
- Potential Irrigation Development
- Alternative Supplies to Adelaide



Bob Pullen
Study Leader

Ecological Water Requirements – Specialist Workshop

- Two EWR sites used
- Separated at confluence of Enyara River

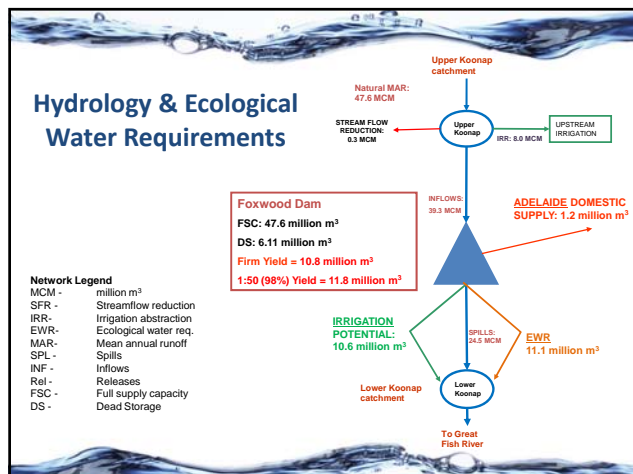


Ecological Water Requirements – Specialist Workshop

- The Recommended Ecological Category (REC) was determined based on ecological criteria only and considered the EIS, the restoration potential and attainability thereof.
- Ecological Importance and Sensitivity (EIS) is **MODERATE**
- PES (instream) was already in a moderate state (C)
- no improvement was required & the REC set to maintain the PES (C)

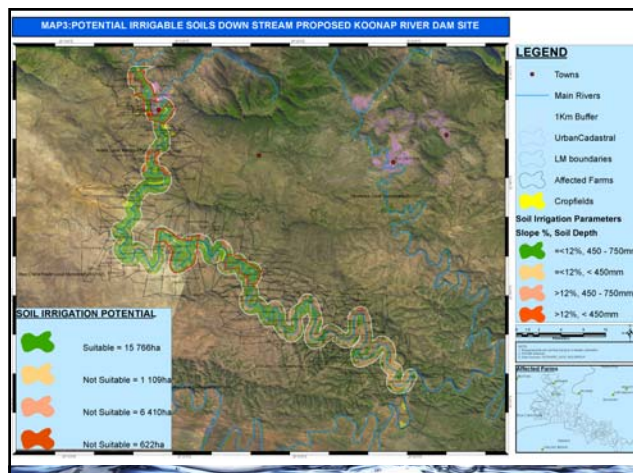


Driver Components	PES and REC
WQ	C
WATER QUALITY	B/C
HYDROPHYSICAL	B
Response Components	PES and REC
Flow	C
MICRO-INVERTEBRATES	C
WETLAND	C
RIPARIAN VEGETATION	C
ECOTONE	C
WETLAND USE	C
WETLAND USE	C
WQ	MODERATE
Driver Components	PES and REC
WQ	C
WATER QUALITY	C
HYDROPHYSICAL	B
Response Components	PES and REC
Flow	C
MICRO-INVERTEBRATES	B/C
WETLAND	C
RIPARIAN VEGETATION	C
ECOTONE	C
WETLAND USE	C
WETLAND USE	B/C
WQ	MODERATE



Irrigation Development – Agricultural Working Group (AWG)

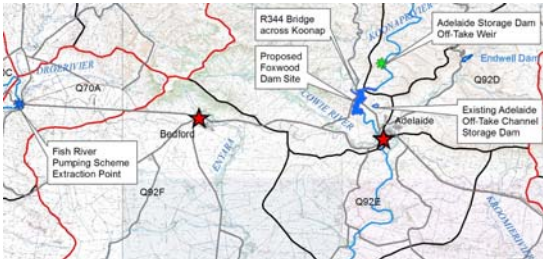
- AWG established following PSC02 and Stakeholder Forum Meeting in Adelaide
- Using GIS maps supplied by the Department of Rural Development and Agrarian Reform indicated a potential for irrigation of some 15 000ha:
 - 1km distance from Koonap River
 - slopes less than 12%
 - soil depth more than 450mm
- Current conclusion is that availability of irrigable land downstream from the Foxwood Dam site is not a limiting factor.
- Land currently being used, tend to be in relatively small areas.
- Current irrigation is used for irrigated pastures and high value food crops like citrus, avocado and pecan.



Irrigation Development – Agricultural Working Group

- Cropping patterns and irrigation systems have changed in recent years with less flood irrigation being practiced and more permanent crops.
- It was confirmed that little Municipal Commonage land is available for food plots or irrigation, as had been suggested in previous reports.
- ❖ Stated willingness of commercial and aspirant farmers to work together for the development of commercial farming models for new farmers.
- ❖ All agreed that aspirant farmers should be assisted to become commercially successful farmers.
- ❖ Advice from CCAW required to open the way forward.

Alternative Supplies for Adelaide

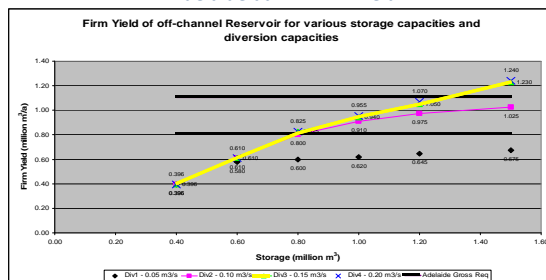


- Off-take canal & storage dam
- Fish River Pumping Scheme
- Borehole development
- WC&DM improvement

Alternative Supplies for Adelaide

- A major new project will take significant time to develop
- Water security in Adelaide over this period must be addressed
- Present sources are not optimally used:
 - Off-take canal system can be enhanced to supply Adelaide domestic requirements.
 - Fish River Pumping Scheme has the capacity to supply 30l/s from the Fish River to the Adelaide treatment works, however major maintenance is required.
 - The realistic groundwater potential ranges from 20 l/s to 40 l/s). This assumes at least 10 new suitable production boreholes can be located. High salinity.
 - Adelaide is estimated to have an unallocated water percentage of 40-60%.

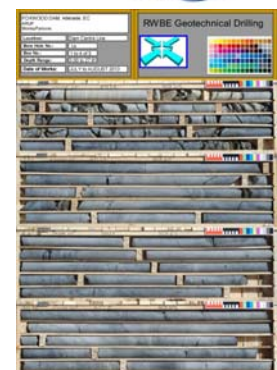
Adelaide dam – Firm Yield



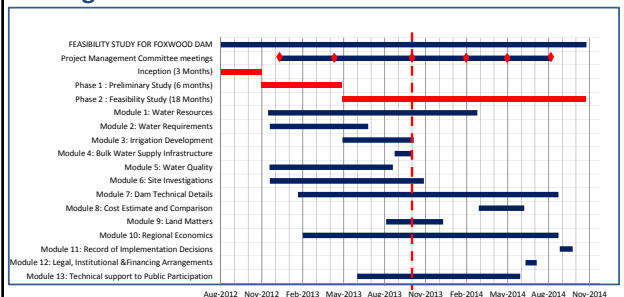
- Maintain or increase canal capacity and possibly increase storage of off-channel storage.
- Adelaide demand can be met with gravity system independently of Foxwood Dam

Dam Technical Details

- Progression of Geotechnical investigations
- Completion of Aerial Imagery and commencement of mapping



Programme



Date of next PSC meeting: Feb/March 2014

Project Risks

Risk	Mitigation	Action & Responsibility
Environmental Impact Assessment – delay of authorisation for project	Appointment of Environmental Assessment Practitioner	National DWA
Development of sustainable agricultural model	Agricultural Working Group	PSC & CCAW
Project Funding – changing Treasury priorities	Awareness of Treasury policy	National DWA
Road diversion Timing and Schedule Implication	Consultation with EC Roads Department	PSP
Ownership and administration of water resource	Project Module: Institutional Arrangements	Amathole District Municipality & PSP

Any Other Business



Thank you



Feasibility Study for Foxwood Dam (WP10580)

National DWA



Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mr Solly Mabuda	Chief Director: IWRP	MabudaS@dwa.gov.za	082 805 9139	?	
Mrs Sanet van Jaarsveld	PRODUCTION Process Engineer	VanJaarsveldS@dwa.gov.za	0795108523	* S. Jaarsveld	—
Mr Menard Mugumo	Chief Engineer: Options Analysis (South)	mugumom@dwa.gov.za		*	
Mrs Isa Thompson		ThompsonI@dwa.gov.za		Apologies	
Mr Dewald Coetzee	National Water Resource Infrastructure -Director: Operations and Maintenance	coetzeed@dwa.gov.za	083 627 5920	Apologies	
Archie Thobejane	Director: Hydrological Engineering (Infrastructure Branch)	thobejanea@dwa.gov.za	012 336 7869	*	
VIWE MBIYO	Project Co-ordinator	VMbiyo@ruraldevelopment.gov.za	0786554564	VMbiyo	
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Feasibility Study for Foxwood Dam (WP10580)

Eastern Cape DWA






Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mrs Portia Makhanya	Chief Director	makhanyap@dwa.gov.za	0824109754	* APOLOGY	
Ms Selemeng Morapeli	Capacity Building and Support	morapelis@dwa.gov.za	083 235 0446	? *	
Mr Theo Geldenhuys	DWA, Reg OFF Head of Office - Planning WRU	geldenhuyst@dwa.gov.za	082 808 0499	* [Signature]	
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Mr Andrew Lucas	Director	lucasa@dwa.gov.za	082 802 8564	* APOLOGY	
Mr Stephen Mullineux	Chief Engineer: Planning	MullineuxS@dwa.gov.za	082 809 5687	* SK	Am no longer in planning section,
Mzamo Vonco		VoncoM@dwa.gov.za		?	
Asanda Gidana		GidanaA@dwa.gov.za		?	
M Gasa-Lubelwana P.		gasalubelwanap@dwa.gov.za	043 701 0376	?	
N. Yokwana	DRDLR	N. Yokwana @ ruraldevelopment.gov.za	083 3385206		
Ms Fezeka Mila		milaf@dwa.gov.za		?	
Luleka Mntu		MntuL@dwa.gov.za		?	
Mr Mpulampula	South African Local Government Association	zmpulampula@salga.org.za		?	

Feasibility Study for Foxwood Dam (WP10580)

Rural Development and Land Reform

Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
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Xoliswa Mzilikazi	PROJECT Coordinator	CXMzilikazi@ruraldevelopment.gov.za	082 827 6023		
NOMATHA SANUANQA				APOLOGIES	

Feasibility Study for Foxwood Dam (WP10580)

Department of Agriculture, Forestry and Fisheries

[illegible]

Feasibility Study for Foxwood Dam (WP10580)

Rural Development and Agrarian Reform

[illegible]

Local Government and Traditional Affairs



Feasibility Study for
Foxwood Dam (WP10580)

Dept. of Economic Development, Environmental
Affairs and Tourism




Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mr Zola Hewu		zola.hewu@deaet.ecape.gov.za	071-866-5997	*	
MEC Jonas	MEC	pearlido@gmail.com		?	
Nolungalungisa Nelani		Nolungalungisa.Nelani@otp.ecprov.gov.za			
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Ms Hlomela Ntsini	Assistant Manager: Environmental Quality Management	hlomela.ntsini@deaet.ecape.gov.za		?	

Feasibility Study for
Foxwood Dam (WP10580)

Amathole District Municipality



Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mr Stephen Nash		stephenn@amathole.gov.za	0833873159	 *	
Gervais Sery		GervaisS@amathole.gov.za		?	
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Mr Mpumi Shezi	Director : Engineering Services	kolekaj@amathole.gov.za	083 517 9069	?	
Loliwe Nosikhumbuzo		nosikhumbuzol@amathole.gov.za		?	
		mongezim@amathole.gov.za		?	

Feasibility Study for Foxwood Dam (WP10580)

Amatola Water

[illegible]

Feasibility Study for
Foxwood Dam (WP10580)

Nxuba Local Municipality



Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mrs Leonora Bruintjies	Speaker	shayis@nxuba.gov.za	074 509 2933		
Ms Joyce Malinga	Chief Financial Officer	malingaj@nxuba.gov.za	079 515 1924		
MR Siphiso Janine de Klerk Caga	municipal Secretary Manager	caga siphiso@yahoo.com deklerkj@nxuba.gov.za use both emails	081 0330931		
Mr Tozamile France	Community Development Officer	francet@nxuba.gov.za	074 201 0294		
Cllr Ernie Lombard	Cllr Nxuba mpany	ernielombard5@gmail.com	082619122		
CNA DONOILE MALONI	CHIEF WHIP - NXUBA LM	maloni.gondile@gmail.com	0732826917		
LN Zweni	LED officer Nxuba LM		046 6840034		
T France	NXUB CDW L.C		0466840034		
L JEBE	NXUBA-OFFICIAL	jebe134@ovi.com	0739627798		

Feasibility Study for
Foxwood Dam (WP10580)

PSP



Name	Job Title	E-mail Address	Mobile Phone	Signature	Corrections
PSP Team (Arup)					
Mr James Hampton	PSP Project Director			*	
Mr James Bristow	PSP Project Manager			* JHB	
Mr Bob Pullen	PSP Study Leader			* Pullen.	
Mr John Allwood	PSP Agriculture & Irrigation Specialist			* JA.	