

The uMkhomazi Water Project Phase 1

LIST OF REPORTS

Module 1: Technical Feasibility Study Raw Water

P WMA 11/U10/00/3312/1/1 Summary report

Water resources

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Inception report
- P WMA 11/U10/00/3312/1
Main report
- P WMA 11/U10/00/3312/2/1
Hydrological assessment of the uMkhomazi River catchment report
- P WMA 11/U10/00/3312/2/2
Water requirements and return flows report
- P WMA 11/U10/00/3312/2/3
Water resources yield assessment report
- P WMA 11/U10/00/3312/2/4
Water resources planning model report

- P WMA11/U10/00/3312/2/2/1 –
Write-up 1: Possible water supply from Smithfield Dam to surrounding communities (Smithfield Dam regional WSS)
- P WMA11/U10/00/3312/2/2/2 –
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P WMA11/U10/00/3312/2/1/1 –
Supporting doc 1: Groundwater resources of the uMkhomazi catchment and interaction with surface water

P WMA11/U10/00/3312/2/3/1 –
Supporting doc 1: Sediment yield report

P WMA11/U10/00/3312/2/3/2 –
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Engineering investigation

- P WMA 11/U10/00/3312/3/1
Engineering feasibility design report
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- P WMA11/U10/00/3312/3/1/6 –
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- P WMA11/U10/00/3312/3/1/9 –
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- P WMA 11/U10/00/3312/3/1/10 –
Write-up 5: Traffic Impact Assessment
- P WMA 11/U10/00/3312/3/1/11 –
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P WMA11/U10/00/3312/3/1/1 –
Supporting doc 1: Optimisation of conveyance system report

P WMA 11/U10/00/3312/3/1/2 –
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P WMA 11/U10/00/3312/3/1/3 –
Supporting doc 3: Optimization of scheme configuration

P WMA 11/U10/00/3312/3/1/4 –
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P WMA 11/U10/00/3312/3/1/5 –
Supporting doc 5: Dam type selection

Implementation actions

- P WMA 11/U10/00/3312/4
Record of Implementation Decisions

Institutional, financial & operational aspects

- P WMA 11/U10/00/3312/5
Institutional and financial aspects report

Socio-economic analyses

- P WMA 11/U10/00/3312/6
Economic impact assessment report

Environmental Screening

- P WMA 11/U10/00/3312/7
Environmental screening report

P WMA 11/U10/00/3312/3/2/1 –
Supporting doc 1: Probabilistic seismic hazard analysis for Smithfield Dam, Langa Dam and the conveyance system

P WMA 11/U10/00/3312/3/2/2 –
Supporting doc 2: Seismic refraction investigation at the proposed uMkhomazi Water Project Phase 1

P WMA 11/U10/00/3312/3/2/3 –
Supporting doc 3: Smithfield Dam: Materials and geotechnical investigation

P WMA 11/U10/00/3312/3/2/4 –
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P WMA 11/U10/00/3312/3/2/5 –
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P WMA11/U10/00/3312/3/3/1 –
Supporting doc 1: Interim investigation for hydropower potential at Impedle Dam and Smithfield Dam transfer system

P WMA11/U10/00/3312/6/1 –
Supporting doc 1: Baseline socio-economic assessment

P WMA11/U10/00/3312/6/2 –
Write-up 1: Detailed socio-economic baseline study of the Umgeni supply area

Module 2: Environmental Impact Assessment

Module 3: Technical Feasibility Study Potable Water