



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

DEA Reference: 14/12/16/3/3/2/1100

Enquiries: Ms Matlhodi Mogorosi

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Mr. Robert Gillmer
Department of Water and Sanitation
Private Bag X313
PRETORIA
0001

Tel: (012) 336 6933
Email: GillmerR@dws.gov.za

PER E-MAIL / MAIL

Dear Mr Gillmer

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: GN R982/983/984/985, AS AMENDED: MOKOLO AND CROCODILE RIVER (WEST) WATER AUGMENTATION PROJECT (PHASE 2A) (MCWAP – 2A), WITHIN THE THABAZIMBI AND LEPHALALE LOCAL MUNICIPALITIES, IN THE WATERBERG DISTRICT MUNICIPALITY, LIMPOPO PROVINCE

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the EA, of the Department's as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, 2000 (Act No 3 of 2000), you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, 2013 (Act no. 4 of 2013) which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, 1998 (Act No. 107 of 1998) National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

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Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appealsdirector@environment.gov.za;

By hand: Environment House
473 Steve Biko
Arcadia
Pretoria
0083; or

By post: Private Bag X447
Pretoria
0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appealsdirector@environment.gov.za.

Yours faithfully



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 18/03/2019

CC:	Mr. D Henning	Nemai Consulting	Tel: 011-781-1730	Email: donavanh@nemai.co.za
	Mr. T Ngoasheng	Limpopo Department of Economic Development, Environment and Tourism	Tel: 015-290-7058	Email: NgoashengTR@ledet.gov.za





environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

**Mokolo and Crocodile River (West) Water Augmentation Project (Phase 2A) (MCWAP – 2A),
within the Thabazimbi and Lephalale Local Municipalities, Limpopo Province**

Waterberg District Municipality

Authorisation register number:	<i>14/12/16/3/3/1/1100</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>DEPARTMENT OF WATER & SANITATION</i>
Location of activity:	<i>LIMPOPO PROVINCE: Within Wards 1 & 9 of Thabazimbi Local Municipality, and Wards 1, 2 & 3 of Lephalale Local Municipality</i>

This Environmental Authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

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Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Environmental Authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this Environmental Authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

DEPARTMENT OF WATER AND SANITATION

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr. Robert Gillmer
Department of Water and Sanitation
Private Bag X313
PRETORIA
0001
Tel: (012) 336 6933
Cell: (083) 791 0833
E-mail: GillmerR@dws.gov.za

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1, Listing Notice 2 and Listing Notice 3, as amended (GN R983, R984 and R985, as amended):

Listed activities	Activity/Project description
<p><u>GN R. 983 Item 9:</u></p> <p><i>The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of <u>water</u> or storm water—</i></p> <p><i>(i) with an internal diameter of 0,36 metres or more; or</i></p> <p><i>(ii) with a peak throughput of 120 litres per second or more;</i></p> <p><i>excluding where—</i></p> <p><i>(a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve or railway line reserve; or</i></p> <p><i>(b) where such development will occur within an urban area.</i></p>	<p>Water pipelines that form part of the transfer scheme, based on 75 million m³/a transfer capacity. Pipe diameter up to 2400mm.</p>
<p><u>GN R. 983 Item 12:</u></p> <p><i>The development of—</i></p> <p><i>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres; or</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 100 square metres or more;</i></p> <p><i>where such development occurs—</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(b) in front of a development setback; or</i></p> <p><i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p>	<p>Various infrastructure with a physical footprint of 100 square metres or more within watercourse(s) / within 32m from watercourse(s), including:</p> <ul style="list-style-type: none"> • Abstraction works (Crocodile River); • Gauging weirs - Crocodile River, Bierspruit and Sand River; • Pipeline crossings - tributaries of the Limpopo River system (including the Matlabas River main stem and tributaries) as well as tributaries of the Mokolo River system; and • Access roads' crossings - tributaries of the Limpopo River system.

Listed activities	Activity/Project description
<p><u>GN R. 983 Item 13:</u> <i>The development of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50 000 cubic metres or more, unless such storage falls within the ambit of activity 16 in Listing Notice 2 of 2014.</i></p>	<p><u>Balancing Dam:</u></p> <ul style="list-style-type: none"> • Size - 620 x 440 m; • Storage capacity – 3 days, 68 000m³ for 75 million m³/a transfer <p><u>Break Pressure Reservoir:</u></p> <ul style="list-style-type: none"> • Dimensions - 260 x 300m; • Storage capacity – 8 hours, 90 000m³ for 75 million m³/a; <p><u>Operational Reservoir:</u></p> <ul style="list-style-type: none"> • Dimensions - 260 x 300m; • Storage capacity - 8 hours, 90 000m³ for 75 million m³/a.
<p><u>GN R. 983 Item 14:</u> <i>The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres.</i></p>	<p>"Dangerous goods" that are likely to be associated with the greater project, are fuel stores, as well as any dangerous goods to be used during the construction phase. Threshold of 80m³ expected to be exceeded. Fuel and other dangerous goods will be stored at all site establishments.</p>
<p><u>GN R. 983 Item 19:</u> <i>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</i></p>	<p>Various infrastructure within watercourse(s) / within 32m from watercourse(s), including:</p> <ul style="list-style-type: none"> • Abstraction works (Crocodile River); • Gauging weirs - Crocodile River, Bierspruit and Sand River; • Pipeline crossings - tributaries of the Limpopo River system (including the Matlabas River main stem and tributaries) as well as tributaries of the Mokolo River system; and

Listed activities	Activity/Project description
	<ul style="list-style-type: none"> • Access roads' crossings - tributaries of the Limpopo River system.
<p><u>GN R. 983 Item 24:</u></p> <p><i>The development of a road-</i></p> <p><i>(i) for which an environmental authorisation was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Government Notice 545 of 2010; or</i></p> <p><i>(ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</i></p> <p><i>but excluding a road—</i></p> <p><i>(a) which is identified and included in activity 27 in Listing Notice 2 of 2014;</i></p> <p><i>(b) where the entire road falls within an urban area; or</i></p> <p><i>(c) which is 1 kilometre or shorter.</i></p>	<p>Access roads to the various sites (construction and operational phases) are expected to exceed thresholds.</p>
<p><u>GN R. 983 Item 27:</u></p> <p><i>The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for—</i></p> <p><i>(i) the undertaking of a linear activity; or</i></p> <p><i>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</i></p>	<p>Clearance of large areas associated with the construction footprint, which includes the following large project components:</p> <ul style="list-style-type: none"> • Balancing Dam - 620 x 440m; • Break Pressure Reservoir - 260 x 300m; • Operational Reservoir - 260 x 300m; • Laydown areas, and • General site establishment.
<p><u>GN R. 983 Item 28:</u></p> <p><i>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:</i></p>	<p>Footprint of project on land used for agricultural and game farming purposes. This includes the Balancing Dam which is 600m x 370m and ancillary structures (including workshops, offices and stores), which mostly occur on land used for</p>

Listed activities	Activity/Project description
<p><i>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</i></p> <p><i>excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.</i></p>	<p>agricultural purposes, outside of an urban area.</p>
<p><u>GN R. 983 Item 30:</u></p> <p><i>Any process or activity identified in terms of section 53(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).</i></p>	<p>Possible occurrence of sensitive biodiversity features at affected areas.</p>
<p><u>GN R. 984 Item 31:</u></p> <p><i>The decommissioning of existing facilities, structures or infrastructure for—</i></p> <p><i>(i) any development and related operation activity or activities listed in this Notice, Listing Notice 2 of 2014 or Listing Notice 3 of 2014;</i></p>	<p>Above mentioned Activity 4 of GN R 984 and below activity 10 of GN R 985 are only required for temporary storage (during construction activities) of dangerous goods, thereafter all storage equipment and containers will be decommission and removed from the site once construction activities have been completed.</p>
<p><u>GN R. 983 Item 56:</u></p> <p><i>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre—</i></p> <p><i>(i) where the existing reserve is wider than 13,5 meters;</i></p> <p><i>or</i></p> <p><i>(ii) where no reserve exists, where the existing road is wider than 8 metres;</i></p>	<p>Access roads to the various sites (construction and operational phases).</p> <p>Relocation of roads that will be inundated by abstraction weir.</p>
<p><u>GN R. 983 Item 67:</u></p> <p><i>Phased activities for all activities—</i></p> <p><i>(i) listed in this Notice, which commenced on or after the effective date of this Notice or similarly listed in any of the previous NEMA notices, which commenced on</i></p>	<p>Possible phased activities that may collectively trigger this listed activity.</p>

Listed activities	Activity/Project description
<p><i>or after the effective date of such previous NEMA Notices;</i></p> <p><i>(ii) listed as activities 5, 7, 8(ii), 11, 13, 16, 27(i) or 27(ii) in Listing Notice 2 of 2014 or similarly listed in any of the previous NEMA notices, which commenced on or after the effective date of such previous NEMA Notices;</i></p> <p><i>where any phase of the activity was below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold.</i></p>	
<p><u>GN R. 984 Item 4:</u></p> <p><i>The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.</i></p>	<p>"Dangerous goods" that are likely to be associated with the greater project, are fuel stores, as well as any dangerous goods to be used during the construction phase.</p> <p>Fuel and other dangerous goods will be stored at all site establishments.</p>
<p><u>GN R. 984 Item 6:</u></p> <p><i>The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding—</i></p> <p><i>(i) activities which are identified and included in Listing Notice 1 of 2014;</i></p> <p><i>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</i></p>	<p>Approval will be required for the scouring of sediment back to the Crocodile River from the desilting works in terms of the National Water Act (No. 36 of 1998).</p>

Listed activities	Activity/Project description
<p>(iii) the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</p> <p>(iv) where the development is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</p>	
<p><u>GN R. 984 Item 11:</u></p> <p>The development of facilities or infrastructure for the transfer of 50 000 cubic metres or more water per day, from and to or between any combination of the following —</p> <p>i) water catchments;</p> <p>(ii) water treatment works; or</p> <p>(iii) impoundments;</p> <p>excluding treatment works where water is to be treated for drinking purposes.</p>	<p>Transfer scheme from Crocodile River (West) to Lephalale with a capacity of 75 million m³/a.</p>
<p><u>GN R. 984 Item 15:</u></p> <p>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for—</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>Cumulative area to be cleared for entire project (except linear components) exceeds 20 hectares.</p>
<p><u>GN R. 984 Item 16:</u></p> <p>The development of a dam where the highest part of the dam wall, as measured from the outside toe of the wall to the highest part of the wall, is 5 metres or higher or where the highwater mark of the dam covers an area of 10 hectares or more.</p>	<p>Abstraction weir at Vlieëpoort. The lowest part of weir would be approximately 4m - 6m high above the river bed level.</p>

Listed activities	Activity/Project description
<p><u>GN R. 985 Item 2:</u> <i>The development of reservoirs, excluding dams, with a capacity of more than 250 cubic metres.</i> e. Limpopo ii. Outside urban areas</p>	<p>Threshold exceeded by break pressure reservoir, operational reservoir and balancing dam.</p>
<p><u>GN R. 985 Item 4:</u> <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i> e. Limpopo i. Outside urban areas</p>	<p>Access roads to the various sites (construction and operational phases) are expected to exceed thresholds.</p>
<p><u>GN R. 985 Item 10:</u> <i>The development and related operation of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres.</i> e. Limpopo i. All areas</p>	<p>"Dangerous goods" that are likely to be associated with the greater project, are fuel stores, as well as any dangerous goods to be used during the construction phase. Threshold of 30 m³ expected to be exceeded. Fuel and other dangerous goods will be stored at all site establishments.</p>
<p><u>GN R. 985 Item 12:</u> <i>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</i> e. Limpopo i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</p>	<p>Clearance of large areas associated with the construction footprint.</p>

Listed activities	Activity/Project description
<p>ii. <i>Within critical biodiversity areas identified in bioregional plans;</i></p>	
<p><u>GN R. 985 Item 14:</u> <i>The development of—</i> <i>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or</i> <i>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</i> <i>where such development occurs—</i> <i>(a) within a watercourse;</i> <i>(b) in front of a development setback; or</i> <i>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i> <i>excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</i> e. Limpopo i. Outside urban areas</p>	<p>Various infrastructure within watercourse(s) / within 32m from watercourse(s), including:</p> <ul style="list-style-type: none"> • Abstraction works - Crocodile River; • Gauging weirs - Crocodile River, Bierspruit and Sand River; • Pipeline crossings - tributaries of the Limpopo River system (including the Matlabas River main stem and tributaries) as well as tributaries of the Mokolo River system; and • Access roads' crossings - tributaries of the Limpopo River system.
<p><u>GN R. 985 Item 18:</u> <i>The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i> e. Limpopo i. Outside urban areas</p>	<p>Access roads to the various sites (construction and operational phases) are expected to exceed thresholds.</p>
<p><u>GN R. 985 Item 23:</u> <i>The expansion of—</i> <i>(i) dams or weirs where the dam or weir is expanded by 10 square metres or more; or</i></p>	<p>Upgrade of existing bridge(s) along access road(s).</p>

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Listed activities	Activity/Project description
<p><i>(ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more; where such expansion occurs-</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(b) in front of a development setback adopted in the prescribed manner; or</i></p> <p><i>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p> <p><i>excluding the expansion of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</i></p> <p><i>e. Limpopo</i></p> <p><i>i. Outside urban areas</i></p>	
<p><u>GN R. 985 Item 26:</u></p> <p><i>Phased activities for all activities—</i></p> <p><i>i. listed in this Notice and as it applies to a specific geographical area, which commenced on or after the effective date of this Notice; or</i></p> <p><i>ii. similarly listed in any of the previous NEMA notices, and as it applies to a specific geographical area, which commenced on or after the effective date of such previous NEMA Notices—</i></p> <p><i>where any phase of the activity was below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold</i></p> <p><i>All the areas as identified for the specific activities listed in this Notice.</i></p>	<p>Possible phased activities that may collectively trigger this listed activity.</p>

as described in the Environmental Impact Assessment Report (EIAr) dated November 2018 at:
 21 Digit SG code and property description:

Abstraction Well & Lowest PS	Retaining Dams	Break Pressure Reservoir	Operational Reservoir	Pipeline CR	Pipeline DT	Pipeline DA	Blow-off CVL	Canal Flow DW	Paarl Hoop GW	SG Code	Farm Name	Portion
✓										TOKQ0000000034100000	Hanover 341 KQ	RE
✓			✓							TOKQ0000000034400010	Donkerpoort 344 KQ	10
✓			✓							TOKQ0000000034200000	Mooivalei 342 KQ	RE
			✓							TOKQ0000000034200010	Mooivalei 342 KQ	10
			✓							TOKQ0000000034200009	Mooivalei 342 KQ	9
			✓							TOKQ0000000034200008	Mooivalei 342 KQ	8
			✓							TOKQ0000000034200007	Mooivalei 342 KQ	7
			✓							TOKQ0000000034200006	Mooivalei 342 KQ	6
			✓							TOKQ0000000034200005	Mooivalei 342 KQ	5
			✓							TOKQ0000000034200024	Mooivalei 342 KQ	24
			✓							TOKQ0000000034200004	Mooivalei 342 KQ	4
			✓							TOKQ0000000034200003	Mooivalei 342 KQ	3
	✓		✓							TOKQ0000000034200002	Mooivalei 342 KQ	2
	✓		✓							TOKQ0000000034200001	Mooivalei 342 KQ	1
			✓							TOKQ0000000032000000	HAMPTON 320 KQ	0
			✓							TOKQ0000000032000001	HAMPTON 320 KQ	1
			✓							TOKQ0000000046200000	STRATFORD 462 KQ	
			✓							TOKQ0000000031100000	MEKLENBERG 311 KQ	
			✓							TOKQ0000000031000000	MECKLENBURG 310 KQ	
			✓							TOKQ00000000012400007	Paarl 124 KQ	7
			✓							TOKQ00000000012400006	Paarl 124 KQ	6
			✓							TOKQ00000000012400000	Paarl 124 KQ	RE
			✓							TOKQ00000000012300000	Amsterdam 123 KQ	
			✓							TOKQ00000000012600000	Karobult 126 KQ	0
			✓							TOKQ00000000012700000	Buffelsvlei 127 KQ	
		✓	✓							TOKQ00000000012900001	Leeuwbosch 129 KQ	1
			✓							TOKQ00000000013000001	Zondagskuil 130 KQ	1
			✓							TOKQ00000000013000002	Zondagskuil 130 KQ	2
			✓							TOKQ00000000013000000	Zondagskuil 130 KQ	0
			✓							TOKQ00000000013500002	Diepkuil 135 KQ	2
			✓							TOKQ00000000013500003	Diepkuil 135 KQ	3
			✓							TOKQ00000000013500006	Diepkuil 135 KQ	6
			✓							TOKQ00000000013200001	Tarantaalpen 132 KQ	1
			✓							TOKQ00000000013200002	Tarantaalpen 132 KQ	2

Department of Environmental Affairs
 Environmental Authorisation Reg. No. 14/12/16/3/3/2/1100

Abstraction Well & Location PE	Balancing Cuts	Break Pressure Forecast	Operational Reserve	Pipeline CR	Pipeline D1	Pipeline D4	Blaspruit GW	Sand River GW	Paul Hugo GW	SG Code	Farm Name	Portion
				✓						TOKQ0000000013200004	Tarantaalpan 132 KQ	4
				✓						TOKQ0000000013200000	Tarantaalpan 132 KQ	RE
				✓						TOKQ0000000013300000	Blaauwpan 133 KQ	RE
				✓						TOKQ0000000009700005	Ruigtevley 97 KQ	5
				✓						TOKQ0000000009700006	Ruigtevley 97 KQ	6
				✓						TOKQ0000000006650004	Witklip 665 KQ	4
				✓						TOKQ00000000009500037	Groenrivier 95 KQ	37
				✓						TOKQ00000000009800000	Matsulan 98 KQ	RE
				✓						TOKQ00000000009400000	Matlabas 94 KQ	
				✓						TOKQ00000000005100000	Haarlem Oost 51 KQ	RE
				✓						TOKQ00000000005100016	Haarlem Oost 51 KQ	16
				✓						TOKQ00000000005000000	Grootfontein 50 KQ	RE
				✓						TOKQ00000000005000001	Grootfontein 50 KQ	1
				✓						TOKQ00000000016000001	Welgevonden 16 KQ	1
				✓						TOKQ00000000016000000	Welgevonden 16 KQ	RE
				✓						TOKQ00000000016000002	Welgevonden 16 KQ	2
				✓						TOKQ00000000016000009	Welgevonden 16 KQ	9
				✓						TOKQ00000000016000005	Welgevonden 16 KQ	5
				✓						TOKQ00000000014000001	Schoonwater 14 KQ	1
				✓						TOKQ00000000015000000	Rietfontein 15 KQ	RE
				✓						TOKQ00000000082000000	Rietfontein 820 KQ	RE
				✓						TOKQ00000000010000003	Inkermann 10 KQ	3
				✓						TOLQ00000000039700002	Groenland 397 LQ	2
				✓						TOLQ00000000040600000	Mabulskop 406 LQ	0
				✓						TOLQ00000000038600000	Diepspruit 386 LQ	0
				✓						TOLQ00000000038200001	Zandfontein 382 LQ	2
				✓						TOLQ00000000038200002	Zandfontein 382 LQ	1
			✓	✓						TOLQ00000000035700004	Rooipan 357 LQ	4
				✓						TOLQ00000000035700000	Rooipan 357 LQ	RE
					✓					TOLQ00000000035500002	Rooipan 355 LQ	2
					✓					TOLQ00000000036300000	Naauwpoort 363 LQ	0
					✓					TOLQ00000000036100005	Rhenosterpan 361 LQ	5
					✓					TOLQ00000000036100002	Rhenosterpan 361 LQ	2
					✓					TOLQ00000000036100000	Rhenosterpan 361 LQ	0
					✓					TOLQ00000000036100004	Rhenosterpan 361 LQ	4
					✓					TOLQ00000000036100006	Rhenosterpan 361 LQ	6
					✓					TOLQ00000000035800001	Zandnek 358 LQ	1
					✓	✓				TOLQ00000000031400000	Enkeldraai 314 LQ	0

M.S

Abstraction Weir & Low-lift PS	Balancing Dams	Break Pressure Transmitt	Operational Reservoir	Pipeline CH	Pipelines D1	Pipelines D2	Integrated GW	Sand River GW	Fault Hugo GW	SG Code	Farm Name	Portion
					✓	✓				TOLQ0000000071800000	Enkeldraai 718 LQ	0
					✓	✓				TOLQ00000000035900001	Geelhoutskloof 359 LQ	1
					✓					TOLQ00000000032000000	Taaiboschpan 320 LQ	0
					✓					TOLQ00000000071200000	Pontes Estates 712 LQ	0
					✓					TOLQ00000000030200002	Loopleegte 302 LQ	0
							✓			TOKQ00000000035200000	GROOTFONTEIN 352 KQ	0
								✓		TOKQ00000000034800022	KLIPGAT 348 KQ	22
								✓		TOKQ00000000034800003	KLIPGAT 348 KQ	3 RE
									✓	TOKQ00000000037300003	HAAKDOORNDRIFT 373 KQ	3
									✓	TOKQ00000000037300000	HAAKDOORNDRIFT 373 KQ	0

Project Components	Preferred Alternatives	Coordinates
Vleëpoort abstraction weir	-	Central point: 24°38'00.80"S, 27°18'59.63"E
Low-lift pumping station	-	Central point: 24°37'59.66"S, 27°18'59.68"E
Low-lift rising main	-	Start point: 24°38'00.31"S, 27°19'00.39"E End point: 24°35'54.47"S, 27°18'05.05"E
Balancing dam	-	Central point: 24°35'43.72"S, 27°17'59.18"E
Desilting works	-	Central point: 24°35'51.49"S, 27°18'06.98"E
Sediment Storage Compartments	-	Central point: 24°35'39.62"S, 27°18'12.42"E
High-lift pumping station	-	Central point: 24°35'33.54"S, 27°17'50.80"E
Pipeline (rising main, gravity main and delivery line) (preferred route alternatives)	Central Route	1) Start point: 24°35'30.68"S, 27°17'55.45"E 2) Bend point 1: 24°35'06.27"S, 27°18'53.69"E 3) Bend point 2: 24°34'40.13"S, 27°18'31.42"E 4) Bend point 3: 24°34'30.36"S, 27°18'35.41"E 5) Bend point 4: 24°31'38.55"S, 27°16'30.32"E 6) Bend point 5: 24°28'19.01"S, 27°17'28.58"E 7) Bend point 6: 24°25'55.64"S, 27°23'09.38"E 8) Bend point 7: 24°25'46.21"S, 27°23'37.23"E 9) Bend point 8: 24°25'33.97"S, 27°24'13.39"E 10) Bend point 9: 24°25'31.98"S, 27°24'25.69"E 11) Bend point 10: 24°24'24.48"S, 27°24'02.18"E 12) Bend point 11: 24°23'12.01"S, 27°26'55.36"E 13) Bend point 12: 24°12'18.29"S, 27°26'59.22"E 14) Bend point 13: 23°56'55.01"S, 27°23'26.22"E 15) Bend point 14: 23°53'41.79"S, 27°24'12.09"E 16) Bend point 15: 23°53'38.31"S, 27°24'12.28"E 17) Bend point 16: 23°53'38.61"S, 27°24'03.35"E 18) End point: 23°53'31.98"S, 27°24'03.29"E
	Alternative D1	19) Start point: 23°53'35.59"S, 27°24'13.39"E

Project Components	Preferred Alternatives	Coordinates
		20) Bend point 1: 23°46'42.99"S, 27°25'52.56"E 21) End point: 23°45'22.16"S, 27°24'56.07"E
	Alternative D4	22) Start point: 23°45'22.16"S, 27°24'56.07"E 23) End point: 23°44'03.94"S, 27°25'45.82"E
BPR	BPR (Central Route)	Central point: 24°25'36.02"S, 27°24'19.42"E
OR	-	Central point: 23°53'33.95"S, 27°24'07.22"E
Bierspruit Gauging Weir	-	Central point: 24°40'53.10"S, 27°19'20.62"E
Sand River Gauging Weir	-	Central point: 24°40'47.22"S, 27°27'12.75"E
New Paul Hugo Gauging Weir	-	Central point: 24°41'40.86"S, 27°24'32.92"E
Access Roads	-	Start point: 24°37'58.26"S; 27°18'58.34"E End point: 24°37'20.34"S; 27°18'47.29"E Bend point 1: 24°37'53.63"S; 27°19'01.13"E Bend point 2: 24°37'28.73"S; 27°18'53.43"E

the location indicated in the locality plan, attached as Annexure 2 of this authorisation.

- for the Mokoio and Crocodile River (West) Water Augmentation Project (Phase 2A) (MCWAP – 2A), within the Thabazimbi and Lephalale Local Municipalities, in the Waterberg District Municipality, Limpopo Province; hereafter referred to as “the property”.

The water transfer infrastructure will comprise of the following major scheme components:

- Vlieëpoort Abstraction Weir on the Crocodile River (West);
- Low-lift Pumping Station;
- Low-lift Rising Main (2 pipes);
- Sedimentation Works;
- Balancing Reservoir;
- High-lift Pumping Station;
- High-lift Rising Main to Break Pressure Reservoir;
- Break Pressure Reservoir;
- Gravity Pipeline from Break Pressure Reservoir to Operational Reservoir;
- Operational Reservoir;
- Gravity pipeline from Operational Reservoir to Medupi Tee-off via Steenbokpan; and
- Ancillary infrastructure (gauging weirs, River Management System in the Crocodile River (West) and its tributaries), access roads, accommodation, offices, workshops and security measures).

Conditions of this Environmental Authorisation

Scope of authorisation

1. The preferred pipeline alignment: Sections 1, 2 and 3 – Central Route; Section 4 – Alternative D1; and Section 5 – Alternative D4), with preferred Option 1 (Portion 1 and 2 of the farm Mooivalei 342 KQ) for the Balancing Dam and Central Route Alternative 1 – Configuration 1a for the rising and gravity main and reservoirs, for the Mokolo Crocodile River (West) Water Augmentation Project (Phase 2A) (MCWAP – 2A), within Wards 1 and 9 of Thabazimbi Local Municipality, and Wards 1, 2, and 3 of Lephalale Local Municipality in the Limpopo Province is approved as per the geographic coordinates cited in the table above.
2. Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised may only be carried out at the property as described above.
5. Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.
6. The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
7. This activity must commence within a period of five (05) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made in order for the activity to be undertaken.

8. In line with the intent and purpose of the EIA Regulations, 2014 (as amended) regarding activities which do not include operational aspects, this EA will no longer be valid once all activities associated with above-mentioned authorised activity 4 and 10 of GN R. 984 and 985 respectively, have been decommissioned and the site rehabilitated to the satisfaction of the EMC.
9. Construction must be completed within five (05) years of the commencement of the activity on site
10. Commencement with one activity listed in terms of this Environmental Authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

11. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.
12. The notification referred to must –
 - 12.1. specify the date on which the authorisation was issued;
 - 12.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 12.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 12.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

13. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

Management of the activity

14. The Environmental Management Programme (EMPr) submitted as part of the Application for EA must be amended and submitted to the Department for written approval prior to commencement of the activity. The recommendations and mitigation measures recorded in the EIAR dated November 2018 must be incorporated as part of the EMPr. Once approved, the EMPr must be implemented and adhered to. The EMPr must be amended to include:
 - 14.1. The requirements and conditions of this environmental authorisation;
 - 14.2. All recommendations and mitigation measures recorded in the EIAR and the specialist reports as included in the final EIAR dated November 2018; and
 - 14.3. A final development layout plan (with micro-siting of the pipelines' route) and all mitigation measures as dictated by the final development layout plan.
15. The final development layout plan to be included in the EMPr must indicate the following:
 - 15.1. The final position of the pipeline within the approved sections of the 100m corridor;
 - 15.2. The specific and final position of the major scheme components and associated ancillary infrastructure e.g. gauging weir, river management system, access roads, offices, construction camps etc ;
 - 15.3. All existing infrastructure associated with the development particularly along the pipeline route;
 - 15.4. All sensitive features e.g. wetlands, pans, drainage channels, and heritage sites that will be affected by the pipeline; and
 - 15.5. All "no-go" and buffer areas.

Frequency and process of updating the EMPr

16. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 23 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the Environmental Authorisation or EMPr.
17. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
18. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of GN R982 of 04 December 2014, as amended. The updated

EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.

19. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of GN R982 of 04 December 2014, as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
20. The holder of the authorisation may apply for an amendment of an EMPr, if such amendment is required before an audit is required. In assessing whether to grant such approval or not, the Department will consider the processes and requirements prescribed in Regulation 37 of GN R982 of 04 December 2014, as amended.

Monitoring

21. The holder of the authorisation must appoint an experienced independent Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 21.1. The ECO must be appointed before commencement of any authorised activities.
 - 21.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
 - 21.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 21.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

22. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this Environmental Authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@environment.gov.za.

23. The holder of the Environmental Authorisation must, for the period during which the Environmental Authorisation and EMPr remain valid, ensure that project compliance with the conditions of the Environmental Authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@environment.gov.za.
24. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R982 of 04 December 2014, as amended.
25. The holder of the authorisation must, in addition, submit an environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
26. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014, as amended, and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the Environmental Authorisation conditions as well as the requirements of the approved EMPr.
27. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and Competent Authority in respect of this development.

Notification to authorities

28. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

29. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

30. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.

Specific conditions

Conditions for Non-operational aspects

31. Baseline monitoring needs to be undertaken to determine the pre-construction state of the receiving environment, the baseline monitoring will serve as a reference to measure the residual impacts of the project by evaluating the deviation/s from the baseline conditions and the associated significance of the adverse effects;
32. The ecological status of the Matlabas River needs to be determined during the high-flow period, prior to construction. The high flow survey needs to address potential impacts of the valve scouring on water quality, erosion and sedimentation of the Matlabas. Furthermore, a study of the potential introduction of nuisance and invasive species into the Matlabas must be conducted. This must include a diatom assessment of the Crocodile and Matlabas Rivers to determine risk during valve scouring and leaks. This will determine the requirements for crossing the watercourse (i.e. open trench), as well as for scouring (i.e. draining water from the pipeline, typically during maintenance);
33. A team consisting of a terrestrial ecologist, aquatic ecologist, botanist, heritage specialist and social specialist must be established, this team must conduct an environmental sensitivity survey of the entire project footprint prior to construction. The aforementioned team must work hand in hand with the design and technical team and must inform the determination of the final position of the pipeline within the authorised areas, as well as the final development layout plan that is to be submitted to the Department for approval as per conditions 13 and 14 above.
34. A high flow baseline assessment of the Bierspruit and Sandspruit must be conducted prior to construction, as no surface water was available during the low flow survey.
35. Provision for a fishway at the Vlieëpoort abstraction weir should be included based on the considerations mentioned under maintenance of connectivity.
36. A sediment study must be conducted by a fluvial-geomorphologist to determine the baseline sediment balance associated with the Vlieëpoort Abstraction Weir, the potential risks and benefits of sediment abstraction and return during the operational phase of the MCWAP-2.
37. A flow gauge must be installed at the Vlieëpoort abstraction weir to inform farmers of the availability of water.
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38. The River Management System must be in place prior to the commissioning of the authorised transfer scheme.
 39. No activities, which require a water use license, must be allowed to encroach into a water resource without a water use authorisation being in place from the Department of Water and Sanitation.
 40. With the exception of the activities and structures required to traverse a watercourse, a recommended buffer zone of 30m from the edge of the riparian zone, a riverine buffer zone of 32m from the delineated riparian zones of the Crocodile River (West) and Matlabas Rivers, as well as their tributaries and National Freshwater Ecological Priority Area wetlands identified (pans and floodplains) must be strictly adhered to during the construction phase of the project.
 41. The location for the construction camp at Rooipan 357 LQ which is adjacent to a pan and within the buffer zone of 15m must be relocated further east of the present proposal. The final location of the construction camp must be included in the final amended EMPr.
 42. During the excavation of watercourses, flows should be diverted around active work areas where required. Water diversion must be temporary and re-directed flow must not be diverted towards any stream banks that could cause erosion.
 43. A traffic monitoring programme (TMP) must be implemented and roads maintained. The TMP must form part of the amended EMPr to be submitted as per condition 13 and 14.
 44. The EMPr must be amended to include a layout plan of the final pipeline route within the corridor.
 45. A permit must be obtained from the relevant nature conservation agency for the removal or destruction of indigenous, protected or endangered plant or animal species and a copy of such permit/s must be submitted to the Department for record keeping. Copies of the permit/s must be included in the final EMPr to be submitted to this Department for approval before commencement of construction activities.
 46. No exotic plants may be used for rehabilitation purposes. Only indigenous plants of the area may be utilised.
 47. Vegetation clearing must be kept to an absolute minimum. Mitigation measures as specified in the Specialist Studies / EIAr dated November 2018 must be implemented to reduce the risk of erosion and the invasion of alien species.
 48. A Phase 1 palaeontology assessment must be conducted to assess the value and prominence of fossils along the Central Route.
 49. All heritage sites identified with a significance of medium and high, must be preserved in situ by designing the development footprints in such a way that a buffer area of at least 50m is maintained from construction activities. In cases where the preservation of such sites and buffer areas are not possible, site-specific mitigation measures must be implemented.
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50. An archaeological and heritage workshop must be conducted with the project ECO before construction commences to allow the ECO to undertake constant monitoring of construction activities.
51. A determination on the risk to the bat cave (subterranean chambers) in Mooivallei area must be made in consultation with a suitable specialist, and subject to the findings, the necessary mitigation measures must be instituted and included in the amended EMPr.
52. Construction must include design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
53. Affected and neighbouring land owners that will be impacted and affected by construction activities must be given 12 months' notice before commencement of construction activities to enable them to make necessary arrangements.
54. The holder of EA must comply with Thaba Tholo's (and other landowners, as relevant) biosecurity protocols in relation to the construction and maintenance of the pipeline on the related properties.
55. A Rehabilitation Management Plan must be developed, and it must include additional measures identified during construction to supplement the reinstatement and rehabilitation provisions included in the EMPr for the construction phase. This plan must be submitted to the DEA for approval before completion of construction activities.
56. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste must be disposed of at a landfill licensed in terms of Section 20 (b) of the National Environment Management Waste Act, 2008 (Act No.59 of 2008).

Environmental Monitoring Committee

57. An environmental Monitoring Committee (EMC) must be established by the holder of the authorisation before commencement of construction activities.
58. The EMC must meet before the commencement of construction activities (to appoint a chairperson discuss terms of reference), from then on the EMC must sit once every two months, special meetings can be convened on special situations.
59. The EMC must comprise of, but not limited to, the following representatives:
 - Chairperson;
 - National Environmental Department (Observer);
 - National Environmental Department : Chief Directorate: Compliance Monitoring

- The holder of the authorisation;
- Implementing Agency
- Provincial Environmental Department;
- Hartbeespoort Irrigation Board
- Makoppa Agriculture
- Cocodile River West Irrigation Board
- Mooivallei Land Owners and or other representative from any other affected Land Owner Associations;
- Provincial Roads Department;;
- Non-Governmental Organisations;
- Local Government; and
- The Environmental Control Officer.
- Community Liaison Officer

General

60. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-

60.1. at the site of the authorised activity;

60.2. to anyone on request; and

60.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.

61. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of Environmental Authorisation: 18/03/2018



Mr Sabelo Malaza

Chief Director, Integrated Environmental Authorisations

Department of Environmental Affairs

Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the EIA dated November 2018;
- b) The comments received from the Department of Water and Sanitation; Department of Forestry and Fisheries; and interested and affected parties as included in the EIA dated November 2018;
- c) Mitigation measures as proposed in the EIA dated November 2018 and the EMP;
- d) The information contained in the specialist studies contained within Appendix I of the EIA; and
- e) The objectives and requirements of relevant legislation, policies and guidelines, including Section 2 of the National Environmental Management Act, Act No.107 of 1998, as amended.

2. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed was sufficiently addressed. Fifteen percent (15%) of the country's total power generation is situated in Waterberg. The assurance of water supply to the current power stations is not acceptable and places the country's power supply at risk.
- c) There are major developments planned for the Waterberg coalfields that are located in the Lephalale area. As a direct result of those developments, the demand for water in the Lephalale area is expected to significantly increase into the future. Based on the water infrastructure, the current water availability and water use allows only limited spare yield existing for future allocations for the anticipated surge in economic development. To address the limited availability of water in the Lephalale area, the Department of Water and Sanitation conducted a feasibility study (completed in 2010) of the Mokolo Crocodile River (West) Water Augmentation Project to establish how the future water demands could be met.

- d) The availability of water for the proposed transfer of water as part of MCWAP-2A was modelled during the Reconciliation Study 2015 (DWS, 2015), which took into consideration the Existing Lawful Water Uses, including the Hartbeespoort Irrigation Board, Crocodile River (West) Irrigation Board and the Makoppa Irrigation Area. The return flows from growing urban areas that feed into the Hartbeespoort Dam provide surplus water that is available and targeted for the proposed water transfer, which is more than the natural yield of the Crocodile River (West).
- e) Eskom confirmed that the MCWAP 2 substation can be accommodated into the network without any capacity constraints. The proposed substation will be supplied from the new Thabatshipi – Thabazimbi Combined 132 kV Power Line.
- f) Eskom will submit a separate application to DEA to seek approval for the bulk power required for MCWAP-2A
- g) As a positive impact, MCWAP-2A will supplement the Flue-Gas Desulphurisation (FGD) water demand from Medupi Power Station. The FGD technology is used to reduce the sulphur dioxide emissions from the facility. This is also a condition in Eskom's World Bank loan
- h) The EIAr dated November 2018 identified all legislation and guidelines that have been considered in the preparation of the EIAr dated November 2018.
- i) The methodology used in assessing the potential impacts identified in the EIAr dated November 2018 and the specialist studies have been adequately indicated.
- j) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014, as amended, for public involvement.

3. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the EIAr dated November 2018 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) The information contained in the EIAr dated November 2018 is accurate and credible.

- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAr and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the Environmental Authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, Act No. 107 of 1998, as amended, and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The Environmental Authorisation is accordingly granted.

Annexure 2: Locality Plan

