



forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

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

DFFE Reference: 14/16/12/3/3/1/1100

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Mr Johann Enslin
Department of Water and Sanitation
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0001

Telephone Number: 012 336 8600
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APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE MOKOLO CROCODILE RIVER (WEST) WATER AUGMENTATION PROJECT PHASE 2A (MCWAP2A), AND FOR THE CONSTRUCTION OF TELECOMMUNICATION STRUCTURES AND PROJECT DEVIATIONS TO THE ENVIRONMENTAL AUTHORISATION DATED 13 OCTOBER 2020, WITHIN THE WATERBERG DISTRICT MUNICIPALITY, LIMPOPO PROVINCE.

With reference to the above application, please be advised that the Department has decided to grant authorisation.

In addition, as per Regulation 25 (4), *“the competent authority may replace an existing valid environmental authorisation with an environmental authorisation contemplated in this regulation, indicating the extent of replacement in the environmental authorisation, if the existing valid environmental authorisation is directly related to the application for environmental authorisation.”*, please be advised that the Department has decided to replace the EA dated 13 October 2020 with the attached EA.

The attached EA is for listed activities applied for and authorised as per the application for environmental authorisation with DFFE Reference no.: 14/12/16/3/3/2/1100 and DFFE Reference no.: 14/12/16/3/3/1/2481.

The attached EA will retain the DFFE reference no.: 14/12/16/3/3/2/1100 and all activities applied for under the reference no: 14/12/16/3/3/1/2481 are authorised under the DFFE Reference no: 14/12/16/3/3/2/1100.

In compliance with the requirements of Regulation 25 (4), please be advised that all the new inclusions (project description, project infrastructure components, 21 SG Codes, coordinates and conditions) as per the process undertaken under the DFFE Reference no.: 14/12/16/3/3/1/2481 are indicated in bold and italics for ease of reference.

Please be advised that any appeals to be submitted on the attached decision, if any, are only applicable to the new project deviations and its associated infrastructure, and the thirteen (13) telecommunication infrastructure which were applied for as per the Basic Assessment Process with DEA reference no.: 14/12/13/3/3/1/2481. 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 decision, of the decision, 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, 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, Act No. 4 of 2013 which stipulate 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 abuse or compromise your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, 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 prescribes 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.

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: appeals@dffe.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 appeals@dfpe.gov.za.

Yours faithfully



Ms Millicent Solomons
Acting Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment
Date: 27/01/2022.

cc:	Ms. Umeshree Naicker	GIBB Environmental Pty Ltd, part of the GBN-JV.	Email: unaicker@gibb.co.za
	Dr. Karen Steenkamp	Limpopo Economic Development, Environment and Tourism (LEDET)	Email: SteenkampK@ledet.gov.za
	Mr Bill Tlhabadira	Thabazimbi Local Municipality	Email: billytlhaba@gmail.co.za
	Mr April Shiko	Lephalale Local Municipality	Email: April.shiko@lephalale.gov.za



forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

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

The authorised Mokolo Crocodile River (West) Water Augmentation Project Phase 2A (MCWAP-2), and the associated construction of telecommunication structures and project deviations in the Limpopo Province

Waterberg District Municipality

Authorisation register number:	14/12/16/3/3/1/1100 <i>(Inclusive of activities applied for under application with DFFE Reference No: 14/12/16/3/3/1/2481)</i>
Last amended:	<i>Second Issue (First issue on 13 October 2020)</i>
Holder of authorisation:	<i>Department of Water and Sanitation</i>
Location of activity:	<i>Limpopo Province: within Wards 1 and 9 in Thabazimbi Local Municipality Wards 1, 2, and 3 Lephalale Local Municipality</i>

This 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.

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 Johann Enslin
Department of Water and Sanitation
Private Bag X313
PRETORIA
0001

Telephone Number: 012 336 8600
Cellphone Number: 071 382 3255
E-mail: enslinj@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 of the EIA Regulations, 2014 as amended:

Listed activities	Activity/Project description
<p><u>Listing Notice 1, Item 9:</u></p> <p>The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of <u>water</u> or storm water—</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more;</p> <p>excluding where—</p> <p>(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</p> <p>(b) where such development will occur within an urban area.</p>	<p>Water pipelines, and deviations, that form part of the transfer scheme, based on 75 million m³/a transfer capacity. Pipe diameter up to 2400mm.</p>
<p><u>Listing Notice 1, Item 12:</u></p> <p>The development of—</p> <p>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres; or</p> <p>(ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</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. • Pipeline deviations located near the Crocodile River and Matlabas River.

Listed activities	Activity/Project description
<p><u>Listing Notice 1, 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>Listing Notice 1, 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.</p> <p>Fuel and other dangerous goods will be stored at all site establishments.</p>
<p><u>Listing Notice 1, 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)

Listed activities	Activity/Project description
	<p>as well as tributaries of the Mokolo River system; and</p> <ul style="list-style-type: none"> • Access roads' crossings - tributaries of the Limpopo River system. • The project deviations will require construction activities at the Vlieëpoort. Abstraction Weir and Evaporation Pond.
<p><u>Listing Notice 1, Item 24:</u></p> <p>The development of a road-</p> <p>(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</p> <p>(ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</p> <p>but excluding a road—</p> <p>(a) which is identified and included in activity 27 in Listing Notice 2 of 2014;</p> <p>(b) where the entire road falls within an urban area; or</p> <p>(c) which is 1 kilometre or shorter.</p>	<p>Access roads to the various sites (construction and operational phases) are expected to exceed thresholds. Access roads are also required for the deviations.</p>
<p><u>Listing Notice 1, Item 27:</u></p> <p>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—</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>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>The Telecommunication Towers range between 32 metres to 54 metres in height.</p>

Listed activities	Activity/Project description
	<i>The towers are positioned within Critical Biodiversity Areas (CBA) 1 and 2, and Ecological Support Areas (ESA).</i>
<p><u>Listing Notice 1, Item 28:</u> <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> <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>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 agricultural purposes, outside of an urban area.</p>
<p><u>Listing Notice 1, Item 30:</u> <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>Listing Notice 1, Item 31:</u> <i>The decommissioning of existing facilities, structures or infrastructure for—</i> <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 decommissioned and removed from the site once construction activities have been completed.</p>
<p><u>Listing Notice 1, Item 56:</u> <i>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre—</i> <i>(i) where the existing reserve is wider than 13,5 meters; or</i></p>	<p>Access roads to the various sites (construction and operational phases).</p>

Listed activities	Activity/Project description
<p>(ii) where no reserve exists, where the existing road is wider than 8 metres;</p>	<p>Relocation of roads that will be inundated by abstraction weir.</p>
<p><u>Listing Notice 1, Item 67:</u> Phased activities for all activities— (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 or after the effective date of such previous NEMA Notices; (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;</p> <p>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.</p>	<p>Possible phased activities that may collectively trigger this listed activity.</p>
<p><u>Listing Notice 2, Item 4:</u> 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.</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. Fuel and other dangerous goods will be stored at all site establishments.</p>
<p><u>Listing Notice 2, Item 6:</u> 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) activities which are identified and included in Listing Notice 1 of 2014; (ii) activities which are included in the list of waste management activities published in terms of section 19 of</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><i>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><i>(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</i></p> <p><i>(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.</i></p>	
<p><u>Listing Notice 2, Item 11:</u></p> <p><i>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 —</i></p> <p><i>i) water catchments;</i></p> <p><i>(ii) water treatment works; or</i></p> <p><i>(iii) impoundments;</i></p> <p><i>excluding treatment works where water is to be treated for drinking purposes.</i></p>	<p>Transfer scheme from Crocodile River (West) to Lephalale with a capacity of 75 million m³/a.</p>
<p><u>Listing Notice 2, Item 15:</u></p> <p><i>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding 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>Cumulative area to be cleared for entire project (except linear components) exceeds 20 hectares.</p>
<p><u>Listing Notice 2, Item 16:</u></p> <p><i>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</i></p>	<p>Abstraction weir at Vlieëpoort. The lowest part of weir would be approximately 4m - 6m high above the riverbed level.</p>

Listed activities	Activity/Project description
<p><i>the highwater mark of the dam covers an area of 10 hectares or more.</i></p>	
<p><u>Listing Notice 3, Item 2:</u> <i>The development of reservoirs, excluding dams, with a capacity of more than 250 cubic metres.</i> <i>e. Limpopo</i> <i>ii. Outside urban areas</i></p>	<p>Threshold exceeded by break pressure reservoir, operational reservoir and balancing dam.</p>
<p><u>Listing Notice 3, Item 3</u> <i>The development of masts or towers of any material or type used for telecommunication broadcasting or radio transmission purposes were the mast or tower—</i> <i>(a) is to be placed on a site not previously used for this purpose</i> <i>(b) will exceed 15 metres in height— but excluding attachment to existing buildings and mast on rooftops;</i> <i>Limpopo</i> <i>i. Outside urban areas:</i> <i>aa) A protected area identified in terms of NEMPAA, excluding conservancies.</i> <i>cc) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority</i> <i>(dd) Sites or areas identified in terms of an international convention.</i> <i>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</i></p>	<p><i>The telecommunication towers (lattices) range between 32 metres to 54 metres in height. The towers are positioned within the authorised corridor (EA: Reference No. 14/12/16/3/3/2/1100), areas within the corridor are Critical Biodiversity Areas (CBA) 1 and 2.</i></p>
<p><u>Listing Notice 3, Item 4:</u> <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i> <i>e. Limpopo</i></p>	<p>Access roads to the various sites (construction and operational phases) are expected to exceed thresholds.</p>

Listed activities	Activity/Project description
<p>i. Outside urban areas</p>	<p>These includes access roads for the deviated sections of the pipelines.</p>
<p><u>Listing Notice 3, 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></p> <p>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 for construction and operational activities.</p>
<p><u>Listing Notice 3, 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></p> <p>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; ii. Within critical biodiversity areas identified in bioregional plans;</p>	<p>Clearance of large areas associated with the construction footprint.</p> <p>The proposed activities will require clearance of vegetation for the Telecommunication Towers and Project Deviations</p>
<p><u>Listing Notice 3, Item 14:</u> <i>The development of—</i> (i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or (ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs—</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

Listed activities	Activity/Project description
<p>(a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour. e. Limpopo i. Outside urban areas</p>	<p>Matlabas River main stem and tributaries) as well as tributaries of the Mokolo River system; and</p> <ul style="list-style-type: none"> • Access roads' crossings - tributaries of the Limpopo River system. • The extension of the construction footprint is located around the abstraction weir. The abstraction weir is located on the banks of the Crocodile River (West).
<p><u>Listing Notice 3, Item 18:</u> The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre. 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>Access roads are also required for the new pipeline alignment (deviations)</p>
<p><u>Listing Notice 3, Item 23:</u> The expansion of— (i) dams or weirs where the dam or weir is expanded by 10 square metres or more; or (ii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more; where such expansion occurs- (a) within a watercourse; (b) in front of a development setback adopted in the prescribed manner; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p>	<p>Upgrade of existing bridge(s) along access road(s).</p>

Listed activities	Activity/Project description
<p>excluding the expansion of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</p> <p>e. Limpopo</p> <p>i. Outside urban areas</p>	
<p><u>Listing Notice 3, Item 26:</u></p> <p>Phased activities for all activities—</p> <p>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</p> <p>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—</p> <p>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</p> <p>All the areas as identified for the specific activities listed in this Notice.</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 and Basic Assessment Report (BAR) dated June 2022 at:

Affected properties, telecommunication towers, coordinates, and SG Codes:

SG Code	Farm name	Portion	
T0KQ0000000034100000	Hanover 341 KQ	RE	
T0KQ0000000034400010	Donkerpoort 334 KQ	10	
TCKQ0000000034200000	Mooivalei 342 KQ	RE	
T0KQ0000000034200010	Mooivalei 342 KQ	10	
T0KQ0000000034200009	Mooivalei 342 KQ	9	
T0KQC0000000034200008	Mooivalei 342 KQ	8	
T0KQ0000000034200007	Mooivalei 342 KQ	7	
T0KQ0000000034200006	Mooivalei 342 KQ	6	
T0KQ0000000034200005	Mooivalei 342 KQ	5	
T0KQ0000000034200024	Mooivalei 342 KQ	24	

46.

Department of Forestry, Fisheries and the Environment
Environmental Authorisation Reg. No. 14/12/16/3/3/2/1100

T0KQ00000000034200004	Mooivalei 342 KQ	4	
T0KQ00000000034200003	Mooivalei 342 KQ	3	
T0KQ00000000034200002	Mooivalei 342 KQ	2	
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T0KQ00000000001600000	Welgevonden 16 KQ	RE	
T0KQ00000000001600002	Welgevonden 16 KQ	2	
T0KQ00000000001600009	Welgevonden 16 KQ	9	
T0KQ00000000001600005	Welgevonden 16 KQ	5	
T0KQ00000000001400001	Schoonwater 14 KO	1	
T0KQ00000000001500000	Rietfontein 15 KQ	RE	
T0KQ000000000082000000	Rietfontein 820 KQ	RE	
T0KQ00000000001000003	Inkermann 10 KO	3	
T0LQ000000000039700002	Groenland 397 LQ	2	

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T0LQ0000000040600000	Mabulskop 406 LQ	0	
T0LQ0000000038600000	Dienspruit 386 LQ	0	
T0LQ0000000038200002	Zandfontein 382 LQ	2	
T0LQ0000000038200001	Zandfontein 382 LQ	1	
T0LQ0000000035700004	Rooipan 357 LQ	4	
T0LQ0000000035700000	Rooipan 357 LQ	RE	
T0LQ0000000035700002	Rooipan 357 LQ	2	
T0LQ0000000036300000	Naauwpoort 363 LQ	0	
T0LQ0000000036100005	Rhenosterpan 361 LQ	5	
T0LQ0000000036100002	Rhenosterpan 361 LQ	2	
T0LQ0000000036100000	Rhenosterpan 361 LQ	0	
T0LQ0000000036100004	Rhenosterpan 361 LQ	4	
T0LQ0000000036100006	Rhenosterpan 361 LQ	6	
T0LQ0000000035800001	Zandnek 358 LQ	1	
T0LQ0000000031400000	Enkeldraai 314 LQ	0	
T0LQ0000000071800000	Enkeldrai 718 LQ	0	
T0LQ0000000035900001	Geelhoutskloof 359 LQ	1	
T0LQ0000000032000000	Taaiboschpan 320 LQ	0	
T0LQ0000000071200000	Pontes Estates 712 LQ	0	
T0LQ0000000074400000	Pontes Estates 744 LQ		
T0LQ0000000031500000	Hooikraal 315 LQ	0	
T0LQ0000000031300000	Vaalpensloop 313 LQ	1	
T0LQ0000000046000000	Hieromtrent 460 LQ	0	
T0LQ0000000068700000	Eenzaamheid 687 LQ	0	
T0LQ0000000050900000	Naauw Ontkomen 509 LQ	0	
T0LQ0000000050800009	Hanglip 508 LQ	9	
T0LQ0000000050800003	Hanglip 508 LQ	3	
T0LQ0000000050800001	Hanglip 508 LQ	1	
T0LQ0000000032100000	Vergulde Helm 321 LQ	0	
TELECOMMUNICATION			
T0KQ0000000034400010	Donkerpoort 344 KQ	10	Tower-Low Lift Pump Station (LLPS) (6 mx4 m) Tower-Repeater A LLPS to High Lift Pump Station (HLPS) (15 mx15 m) Tower-Break Pressure Tank (15 mx15 m)
T0KQ0000000034200003	Mooivalei 342 KQ	3	
T0KQ0000000034200001	Mooivalei 342 KQ	1	Tower-High Lift Pumping Station (8 mx9 m) Tower-Repeater 1A (HLPS) to break Pressure Tank (15 m x15 m)
T0KQ0000000012400000	Paarl 124 KQ R	RE	
T0KQ0000000013000002	Zondagskuil 130 KQ	2	Tower-Break Pressure Tank (15 mx15 m)
T0KQ0000000012900001	Leeuwbosch 129 KQ	1	Tower-Break Pressure Reservoir (10 mx10 m)
T0KQ0000000005100016	Haarlem oost 51 KQ P	16	Tower- Repeater 1A (BPR To OFF Takes) 15 mx15 m
T0LQ0000000071800000	Enkeldraai 718 LQ	RE	Tower-Off-Take C (15 mx15 m)
T0LQ0000000068700000	Eenzaamheid 687 LQ R	RE	Tower-Off-Take B (15 mx15 m)
T0LQ0000000046500003	Grootestryd 465 LQ	3	Tower-Off-Take A (15 mx15 m)
T0LQ0000000052800000	Zeeland 528 LQ	RE	Tower-Zeeland Water Treatment Works (15 mx15 m)
DEVIATION: BAT CAVE RE-ALIGNMENT			
T0KQ0000000034200010	Mooivalei 342 KQ	10	Pipeline Re-alignment (671 m)
T0KQ0000000034200000	Mooivalei 342 KQ	RE	Pipeline Re-alignment (503 m)

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DEVIATION: PIPELINE RE- ALIGNMENT			
T0KQ00000000013000000	Zondagskuil 130 KQ	RE	Pipeline Re-alignment (1432m)
DEVIATION: EXTENDING CONSTRUCTION FOOTPRINT AT THE VLEEIPOORT ABSTRACTION WEIR			
T0KQ00000000034400010	Donkerpoort 344 KQ	10	Construction footprint Area 2.599 hectares
T0KQ00000000034100000	Hanover 341KQ	RE	Construction footprint Area 7.847 hectares
T0KQ00000000034200000	Mooivalei 342 KQ	RE	Construction footprint Area 2.675 hectares
DEVIATION: LEFT BANK SCOUR AREA			
T0KQ00000000034100000	Hanover 341KQ	RE	Extent of scour area 1.090ha
DEVIATION: DISCHARGE PIPELINE, STORM WATER CANAL AND TEMPORARY SEDIMENT STORAGE AREA			
T0KQ00000000034200002	Mooivalei 342 KQ	2	Discharge pipeline and stormwater canal area 3.728 ha
T0KQ00000000034200001	Mooivalei 342 KQ	1	Discharge pipeline area is 5.100 ha
T0KQ00000000034200001	Mooivalei 342 KQ	1	Temporary Sediment Storage Area 5.067 ha
DEVIATION: CONSTRUCTION LAYDOWN AREAS			
T0KQ00000000009500037	Groenriver 95KQ	37	New Storage G1 Area 4.787 ha
T0KQ00000000009490000	Welgevonden 949KQ	RE	New Storage G2 Area 4.287 ha
T0KQ00000000008200000	Rietfontein 820KQ	RE	New Storage G3 Area 4.732 ha
T0KQ00000000001400001	Schoonwater 14KQ	1	New Storage G3 Alternative Area 4.838 ha
T0LQ000000000036100004	Rhenosterpan 361LQ	4	New Storage G4 Area 3.961 ha
T0LQ000000000071200000	Pontes Estates 762LQ	RE	New Storage G5 Area 3.500 ha
T0LQ000000000050900000	Naauw Ontromen 509LQ	RE	New Storage G6 Area 4.510 ha
DEVIATION: ACCESS ROAD			
T0KQ00000000009500037	Groenrivier 95KQ	37	Access Road for Storage Area G1 (132 m)
T0KQ00000000009700000	Ruiqtevely 97 KQ	RE	Access Road for pipeline re-alignment (for Transnet Widening) (574 m)
T0KQ000000000066500004	Witklip 665 KQ	4	Access Road for pipeline re-alignment ((for Transnet Widening) (631 m)
T0KQ00000000009700000	Ruiqtevely 97 KQ	RE	Access Road for existing pipeline alignment (123 m)
T0KQ00000000005100016	Haarlem Oost 51KQ	16	First Access (Haarlem Oost 1) Road for existing pipeline alignment (462 m)
T0KQ00000000005100016	Haarlem Oost 51KQ	16	Second Access (Haarlem Oost 2) Access Road for existing pipeline alignment (175 m)
T0KQ00000000005100016	Haarlem Oost 51KQ	16	Third Access (Haarlem Oost 3) Access Road for existing pipeline alignment (127 m)
DEVIATION: PIPELINE RE-ALIGNMENT OUT OF CORRIDOR			
T0KQ00000000005100016	Haarlem Oost 51KQ	16	Pipeline alignment falls out of corridor (approximately 100m)
DEVIATION: PIPELINE RE-ALIGNMENT AT END OF MCWAP2A			
T0LQ000000000050900000	Naauw Ontromen 509 LQ	RE	Pipeline re-alignment (4188 m)
T0LQ000000000050800003	Hangklip 508 LQ	3	Pipeline re-alignment 1125 m)
T0LQ000000000050800009	Hangklip 508 LQ	9	Turning Point Area 0.110 ha
T0LQ000000000046500003	Grootestryd 465 LQ	10	Pipeline re-alignment (280 m)
DEVIATION: TURNING POINT			
T0KQ00000000001600005	Welgevonden 16KQ	5	Turning Point Area 0.042 ha
T0KQ00000000001400001	Schoonwater 14KQ	1	Turning Point Area 0.039 ha
DEVIATION: TRANSNET WIDENING			
T0KQ00000000009700000	Ruiqtevely 97 KQ	RE	Pipeline re-alignment (671 m)
T0KQ000000000066500004	Witklip 665 KQ	4	Pipeline re-alignment (216 m)
DEVIATION: EVAPORATION POND			
T0KQ00000000001600005	Welgevonden 16KQ	5	Sediment Pond Area 4.522 ha

Low lift rising MAIN		
	Longitude	Latitude
W2	E27° 18' 59.67"	S24° 37' 59.25"
W3	E27° 18' 59.10"	S24° 37' 57.12"
W4	E27° 18' 57.68"	S24° 37' 53.22"
W5	E27° 18' 57.46"	S24° 37' 53.12"
W6	E27° 18' 52.19"	S24° 37' 38.68"
W7	E27° 18' 44.96"	S24° 37' 29.77"
W8	E27° 18' 42.83"	S24° 37' 24.93"
W9	E27° 18' 45.82"	S24° 37' 19.05"
W10	E27° 18' 38.63"	S24° 37' 07.73"
W11	E27° 18' 34.45"	S24° 37' 02.41"
W12	E27° 18' 29.58"	S24° 36' 55.36"
W13	E27° 18' 27.82"	S24° 36' 51.29"
W14	E27° 18' 24.06"	S24° 36' 45.87"
W15	E27° 18' 15.88"	S24° 36' 37.64"
W16	E27° 18' 12.87"	S24° 36' 31.98"
W17	E27° 17' 57.70"	S24° 36' 27.31"
W18	E27° 17' 51.29"	S24° 36' 26.23"
W19	E27° 17' 47.76"	S24° 36' 21.70"
W20	E27° 17' 43.55"	S24° 36' 17.69"
W21	E27° 17' 41.45"	S24° 36' 14.86"
W22	E27° 17' 40.12"	S24° 36' 06.99"
W23	E27° 17' 44.35"	S24° 36' 02.03"
W24	E27° 17' 59.06"	S24° 35' 55.00"
W25	E27° 18' 12.21"	S24° 35' 50.73"
W26	E27° 18' 13.42"	S24° 35' 48.30"
W27	E27° 18' 08.69"	S24° 35' 36.03"

HIGH LIFT RISING MAIN		
	Longitude	Latitude
W3	E27° 17' 46.74"	S24° 35' 33.15"
W4	E27° 17' 54.82"	S24° 35' 29.74"
W5	E27° 18' 52.24"	S24° 35' 05.99"
W6	E27° 18' 48.82"	S24° 34' 59.39"
W7	E27° 18' 47.34"	S24° 34' 56.75"
W8	E27° 18' 43.25"	S24° 34' 50.38"
W9	E27° 18' 41.91"	S24° 34' 48.62"
W10	E27° 18' 38.87"	S24° 34' 45.38"
W11	E27° 18' 36.63"	S24° 34' 43.27"
W12	E27° 18' 34.59"	S24° 34' 41.53"
W13	E27° 18' 33.13"	S24° 34' 40.40"
W14	E27° 18' 32.36"	S24° 34' 39.35"
W15	E27° 18' 33.97"	S24° 34' 36.19"
W16	E27° 18' 34.66"	S24° 34' 34.24"
W17	E27° 18' 35.17"	S24° 34' 32.13"

W18	E27° 18' 35.15"	S24° 34' 29.65"
HIGH LIFT RISING MAIN Cont		
W19	E27° 18' 34.89"	S24° 34' 28.21"
W20	E27° 18' 32.21"	S24° 34' 21.70"
W21	E27° 18' 27.87"	S24° 34' 12.37"
W22	E27° 18' 22.68"	S24° 34' 00.70"
W23	E27° 18' 21.32"	S24° 33' 58.19"
W24	E27° 18' 17.06"	S24° 33' 52.33"
W25	E27° 17' 17.54"	S24° 32' 37.20"
W26	E27° 17' 08.91"	S24° 32' 27.17"
W27	E27° 16' 30.53"	S24° 31' 38.73"
W28	E27° 16' 31.58"	S24° 31' 36.56"
W29	E27° 17' 28.55"	S24° 28' 20.34"
W30	E27° 17' 51.33"	S24° 28' 08.75"
W31	E27° 21' 39.85"	S24° 26' 32.27"
W32	E27° 21' 40.54"	S24° 26' 30.70"
W33	E27° 22' 36.58"	S24° 26' 08.86"
W34	E27° 22' 59.55"	S24° 26' 00.08"
W35	E27° 23' 07.24"	S24° 25' 46.09"
W36	E27° 23' 18.83"	S24° 25' 39.23"
W37	E27° 23' 26.56"	S24° 25' 41.29"
W38	E27° 23' 36.79"	S24° 25' 46.11"
W39	E27° 24' 13.23"	S24° 25' 33.37"
W40	E27° 24' 16.55"	S24° 25' 40.39"
W41	E27° 24' 18.37"	S24° 25' 39.67"

GRAVITY MAIN		
	Longitude	Latitude
W1	E27° 24' 24.69"	S24° 25' 37.46"
W2	E27° 24' 25.80"	S24° 25' 37.02"
W3	E27° 24' 23.25"	S24° 25' 31.62"
W4	E27° 24' 25.78"	S24° 25' 30.50"
W5	E27° 24' 21.65"	S24° 25' 22.63"
W6	E27° 24' 17.48"	S24° 25' 14.68"
W7	E27° 24' 16.11"	S24° 25' 11.80"
W8	E27° 24' 14.78"	S24° 25' 08.06"
W9	E27° 24' 04.69"	S24° 24' 32.43"
W10	E27° 24' 04.10"	S24° 24' 29.89"
W11	E27° 24' 03.43"	S24° 24' 24.82"
W12	E27° 24' 18.80"	S24° 24' 18.42"
W13	E27° 24' 53.06"	S24° 24' 04.24"
W14	E27° 25' 44.24"	S24° 23' 43.14"
W15	E27° 26' 10.95"	S24° 23' 31.79"
W16	E27° 26' 13.04"	S24° 23' 31.97"
W17	E27° 26' 14.25"	S24° 23' 30.39"
W18	E27° 26' 55.22"	S24° 23' 13.11"

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W19	E27° 26' 55.16"	S24° 23' 04.22"	W66	E27° 24' 47.26"	S24° 04' 06.27"
W20	E27° 26' 56.08"	S24° 20' 45.15"	W67	E27° 24' 44.88"	S24° 03' 54.96"
W21	E27° 26' 56.72"	S24° 19' 26.38"	W68	E27° 24' 38.88"	S24° 03' 22.24"
W22	E27° 26' 56.80"	S24° 19' 14.22"	W69	E27° 24' 38.43"	S24° 03' 21.98"
W23	E27° 26' 57.28"	S24° 18' 01.38"	W70	E27° 24' 38.19"	S24° 03' 20.97"
W24	E27° 26' 57.11"	S24° 17' 53.34"	W71	E27° 24' 38.54"	S24° 03' 20.47"
W25	E27° 26' 55.22"	S24° 17' 51.64"	W72	E27° 23' 36.23"	S23° 57' 50.61"
W26	E27° 26' 55.39"	S24° 17' 30.59"	W73	E27° 23' 32.47"	S23° 57' 31.00"
W27	E27° 26' 54.53"	S24° 17' 28.68"	W74	E27° 23' 28.45"	S23° 57' 09.40"
W28	E27° 26' 57.58"	S24° 17' 21.78"	W75	E27° 23' 26.09"	S23° 56' 56.47"
W29	E27° 26' 57.79"	S24° 16' 50.07"	W76	E27° 23' 26.20"	S23° 56' 51.73"
W30	E27° 26' 57.75"	S24° 16' 29.38"	W77	E27° 23' 30.76"	S23° 56' 32.69"
W31	E27° 26' 57.95"	S24° 16' 22.47"	W78	E27° 23' 39.98"	S23° 55' 54.61"
W32	E27° 26' 58.37"	S24° 15' 19.35"	W79	E27° 23' 45.10"	S23° 55' 33.39"
W33	E27° 26' 58.36"	S24° 15' 11.25"	W80	E27° 23' 46.24"	S23° 55' 28.10"
W34	E27° 26' 58.51"	S24° 15' 00.89"	W81	E27° 24' 00.72"	S23° 54' 28.25"
W35	E27° 26' 58.58"	S24° 14' 50.65"	W82	E27° 24' 11.96"	S23° 53' 41.12"
W36	E27° 26' 58.84"	S24° 14' 14.57"	W83	E27° 24' 12.56"	S23° 53' 38.44"
W37	E27° 26' 58.84"	S24° 14' 01.63"	W84	E27° 24' 14.24"	S23° 53' 30.93"
W38	E27° 26' 59.05"	S24° 13' 48.82"	W85	E27° 24' 14.64"	S23° 53' 29.16"
W39	E27° 26' 58.78"	S24° 13' 33.02"	W86	E27° 24' 26.87"	S23° 52' 39.67"
W40	E27° 26' 58.63"	S24° 13' 20.12"	W87	E27° 25' 15.44"	S23° 49' 17.24"
W41	E27° 26' 59.22"	S24° 12' 38.92"	W88	E27° 25' 52.85"	S23° 46' 42.16"
W42	E27° 26' 59.29"	S24° 12' 20.06"	W89	E27° 24' 57.54"	S23° 45' 23.37"
W43	E27° 26' 58.50"	S24° 12' 15.20"	W90	E27° 25' 47.15"	S23° 44' 04.61"
W44	E27° 26' 51.20"	S24° 11' 49.02"	W91	E27° 27' 22.14"	S23° 43' 00.64"
W45	E27° 26' 45.89"	S24° 11' 29.54"	W92	E27° 27' 47.94"	S23° 42' 42.77"
W46	E27° 26' 35.20"	S24° 10' 52.12"	W93	E27° 27' 48.10"	S23° 42' 40.93"
W47	E27° 26' 32.58"	S24° 10' 49.49"	W94	E27° 27' 52.20"	S23° 42' 41.23"
W48	E27° 26' 34.05"	S24° 10' 48.21"	W95	E27° 27' 57.21"	S23° 42' 41.30"
W49	E27° 26' 31.73"	S24° 10' 40.25"	W96	E27° 28' 02.44"	S23° 42' 41.07"
W50	E27° 26' 25.55"	S24° 10' 18.07"	W97	E27° 29' 48.35"	S23° 42' 32.33"
W51	E27° 26' 19.34"	S24° 09' 56.76"	W98	E27° 30' 21.40"	S23° 42' 29.68"
W52	E27° 26' 14.77"	S24° 09' 40.69"	W99	E27° 30' 26.29"	S23° 42' 29.29"
W53	E27° 25' 28.89"	S24° 06' 59.59"	W100	E27° 30' 31.26"	S23° 42' 28.45"
W54	E27° 25' 15.18"	S24° 06' 12.17"	W101	E27° 30' 37.02"	S23° 42' 27.34"
W55	E27° 25' 12.56"	S24° 06' 02.69"	W102	E27° 30' 40.47"	S23° 42' 26.54"
W56	E27° 25' 08.89"	S24° 05' 48.72"	W103	E27° 32' 10.32"	S23° 42' 05.09"
W57	E27° 25' 01.97"	S24° 05' 25.14"	W104	E27° 32' 41.33"	S23° 41' 57.61"
W58	E27° 25' 00.94"	S24° 05' 20.38"	W105	E27° 32' 47.49"	S23° 41' 55.75"
W59	E27° 25' 00.52"	S24° 05' 20.13"	W106	E27° 32' 54.45"	S23° 41' 53.66"
W60	E27° 25' 00.24"	S24° 05' 18.83"	W107	E27° 33' 04.81"	S23° 41' 50.31"
W61	E27° 24' 58.34"	S24° 05' 08.49"	W108	E27° 33' 05.79"	S23° 41' 48.69"
W62	E27° 24' 58.63"	S24° 05' 08.12"	W109	E27° 35' 27.56"	S23° 41' 03.35"
W63	E27° 24' 57.14"	S24° 04' 59.87"	W110	E27° 36' 02.81"	S23° 40' 52.66"
W64	E27° 24' 56.73"	S24° 04' 57.93"	W111	E27° 36' 02.82"	S23° 40' 42.90"
W65	E27° 24' 51.58"	S24° 04' 29.37"			

COMPONENT	COORDINATES - CENTRE POINTS	
TELECOMMUNICATION		
Tower-Low Lift Pump Station (LLPS) (6 mx4 m)	24°37'58.9"S	27°19'00.7"E
Tower-Repeater A LLPS to High Lift Pump Station (HLPS) (15 mx15 m) Tower-Break Pressure Tank (15 mx15 m)	24°36'11.6"S	27°17'42.8"E
Tower-High Lift Pumping Station) (8 mx9 m)	24°36'11.6"S	27°17'42.8"E
Tower-Repeater 1A (HLPS) to break Pressure Tank (15 m x15 m)	24° 28'15 6"S	27°17'39 0"E
Tower-Break Pressure Tank (15 mx15 m)	24° 25 09 7"S	27° 23'12.55"E
Tower-Break Pressure Reservoir (10 mx10 m)	24°25'42 6"S	27°24'19.8"E
Tower- Repeater 1A (BPR To OFF Takes) 15 mx15 m	24°09'18.2"S	27°26'07.5"E
Tower-Repeater 2A Break Pressure Reserve to Offtakes (15 m	24°36'11.6"S	27°17'42.8"E
Tower-Repeater 3A Break Pressure Reserve to Offtakes (15 mx15 m)	24°36'11.6"S	27°17'42.8"
Tower-Off-Take C (15 mx15 m)	24°44'06.2"S	27°25'45.1"E
Tower-Off-Take B (15 mx15 m	24°41'56.1"S	27°32'47.8"E
Tower-Off-Take A (15 mx15 m)	24°40'41.9"S	27°36'04.1"E
Tower-Zeeland Water Treatment Works (15 mx15 m)	24° 45' 35.2"S	27° 37'26.6"E
DEVIATION: BAT CAVE RE-ALIGNMENT		
Pipeline Re-alignment (671 m)	24°37'9.87"S	27°19'4.02"E
Pipeline Re-alignment (503 m)	24°36'13.78S	27°19'5.65"E
DEVIATION: PIPELINE RE- ALIGNMENT		
Pipeline Re-alignment (1432m)	24°25'59.46"S	27°22'59.44"E
DEVIATION: EXTENDING CONSTRUCTION FOOTPRINT AT THE VLEEIPOORT ABSTRACTION WEIR		
Construction footprint Area 2.599 hectares	24°37'33.23"S	27°21'2.89"E
Construction footprint Area 7.847 hectares	24°38'11.96"S	27°17'15.25"E
Construction footprint Area 2.675 hectares	24°36'13.78"S	27°19'5.65"E
DEVIATION: LEFT BANK SCOUR AREA		
Extent of scour area 1.090ha		
DEVIATION: DISCHARGE PIPELINE, STORM WATER CANAL AND TEMPORARY SEDIMENT STORAGE AREA		
Discharge pipeline and stormwater canal area 3.728 ha	24°35'48.41"S	27°17'49.48"E
Discharge pipeline area is 5.100 ha	24°35'44.91"S	27°17'48.27"E
Temporary Sediment Storage Area 5.067 ha	24°35'44.91"S	27°17'48.27"E
DEVIATION: CONSTRUCTION LAYDOWN AREAS		
New Storage G1 Area 4.787 ha	24°14'57.02"S	27°26'56.30"E
New Storage G2 Area 4.287 ha	24°7'23.39"S	27°25'33.08"E
New Storage G3 Area 4.732 ha	24°2'08.00"S	27°24'22.95"E
New Storage G3 Alternative Area 4.838 ha	24°04'44.60"S	27°24'52.08"E
New Storage G4 Area 3.961 ha	23°50'5.66"S	27°24'59.50"E
New Storage G5 Area 3.500 ha	23°44'0.66"S	27°25'46.57"E
New Storage G6 Area 4.510 ha	23°41'32.23"S	27°34'06.24"E
DEVIATION: ACCESS ROAD		

Access Road for Storage Area G1 (132 m)	24°14'49.02"S	27°26'57.85"E
Access Road for pipeline re-alignment (for Transnet Widening) (574 m)	24°18'49.14"S	27°26'56.26"E
Access Road for pipeline re-alignment ((for Transnet Widening) (631 m)	24°16'12.13"S	27°26'42.93"E
Access Road for existing pipeline alignment (123 m)	24°18'49.14"S	27°26'56.26"E
First Access (Haarlem Oost 1) Road for existing pipeline alignment (462 m)	24°10'19.79"S	27°25'53.32"E
Second Access (Haarlem Oost 2) Access Road for existing pipeline alignment (175 m)	24°10'19.79"S	27°25'53.32"E
Third Access (Haarlem Oost 3) Access Road for existing pipeline alignment (127 m)	24°10'19.79"S	27°25'53.32"E
DEVIATION: PIPELINE RE-ALIGNMENT OUT OF CORRIDOR		
Pipeline alignment falls out of corridor (approximately 100m)	24°10'50.33"S	27°26'33.38"E
DEVIATION : PIPELINE RE-ALIGNMENT AT END OF MCWAP2A		
Pipeline re-alignment (4188 m)	23°41'48.89"S	27°33'05.81"E
Pipeline re-alignment 1125 m)	23°41'03.79"S	27°35'43.35"E
Turning Point Area 0.110 ha	23°41'04.21"S	27°35'25.37"E
Pipeline re-alignment (280 m)	23°40'51.78"S	27°36'03.14"E
DEVIATION: TURNING POINT		
Turning Point Area 0.042 ha	23°6'12.55"S	27°24'17.11"E
Turning Point Area 0.039 ha		
DEVIATION: TRANSNET WIDENING		
Pipeline re-alignment (671 m)	24°17'53.22"S	27°26'56.60"E
Pipeline re-alignment (216 m)	24°17'28.27"S	27°26'54.28"E
DEVIATION: EVAPORATION POND		
Sediment Pond Area 4.522 ha	23°6'12.55"S	27°24'17.11"E

- for the authorised Mokolo Crocodile River (West) Water Augmentation Project Phase 2A (MCWAP-2), and **the associated construction of Telecommunication Structures and Project Deviations**, 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).
- **Telecommunication Structures**
- **Extension of the construction footprint area at the Vlieëpoort Abstraction Weir;**
- **Four (4) Pipeline route deviations;**
- **One (1) Storm water Channel, One (1) Sediment Discharge Point and One (1) Temporary Sediment Storage Area;**
- **One (1) Sediment Pond;**
- **Two (2) Turning Points;**
- **Eight (8) Access Roads; and**
- **Seven (7) construction storage areas.**

Conditions of this Environmental Authorisation

Scope of authorisation

1. The construction of the authorised Mokolo Crocodile River (West) Water Augmentation Project Phase 2A (MCWAP-2), and the **associated construction of telecommunication structures and project deviations are approved. The preferred alternative (Alternative A) for the re-alignment of the pipeline at the end of MCWAP2A (Medupi) with a length of 4 650 meters and the preferred option for the storm water channel disposal (Option 2) are also approved as per the geographic coordinates and property details 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 ten (10) 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. Construction must be completed within five (05) years of the commencement of the activity on site.

Notification of authorisation and right to appeal

9. 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.
10. The notification referred to must –
 - 10.1. specify the date on which the authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 10.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

11. 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

12. The consolidated final Environmental Management Programmes (EMPr), for the authorised Mokolo Crocodile River (West) Water Augmentation Project Phase 2A (MCWAP-2) as per the EA dated 13 October 2020, which is inclusive of the management of impacts associated with the construction of Telecommunication Structures and Project Deviations as per BAR dated June 2022 (14/12/16/3/3/1/2481), is approved.
13. The EMPr must be implemented and strictly enforced during all phases of the project. They shall be seen as dynamic documents and shall be included in all contract documentation for all phases of the development.
14. Changes to the approved EMPr must be submitted to the department for review and approval in accordance to the EIA Regulations applicable at the time.
15. The Department reserves the right to amend the approved EMPr, should any impacts that were not anticipated or covered in the BAR be discovered.

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 the EIA Regulations, 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 the EIA Regulations, 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 must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments

to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

21. The holder of the authorisation must appoint an experienced 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.
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.
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 the EIA Regulations, 2014 as amended.
25. The holder of the authorisation must, in addition, submit an environmental audit report 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

- 38 ***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.***
- 39 ***The excavations must be monitored during the entire period of excavation and that this "Chance Find Protocol" must be updated on a regular basis during the life-time of the excavation period for the project. The Palaeontologist must be notified of the final sign-off of the project date, for final posting of the "Chance Find Protocol" on the SAHRIS Website for record purposes.***
- 40 ***A search and rescue for Species of Conservation Concern (SCC) must be undertaken by a suitably qualified ecologist before commencement of construction activities. The finding of the of the search a rescue must inform the final search and rescue plan to be developed and implement through the construction phase of the approved development.***

- 41 ***A monthly SCC rescue and relocation report must be compiled wherein the details of the SCC found and relocation details are reported (the daily record sheets must be appended). These reports must also provide feedback on the monitoring requirements as stated herein for relocated SCC. All monthly reports must be submitted to the relevant authorities.***
- 42 ***The applicant must ensure that the safe minimum river discharge under which flushing of the settler must commence is 40 m³ /s.***
- 43 ***Each canal at the sedimentation works must be flushed, one at a time for 60 min, with the maximum pump capacity.***
- 44 ***The canals must be flushed regularly to limit the quantity of sediment inundating the river at any one time.***
- 45 ***During the rainy season, the sedimentation must be flushed once a month. This ensures that sediment removed during a flood event can be discharged back to the river at the end of the same flood.***
- 46 ***The applicant must ensure that the flushing duration for boulder traps, gravel traps, and pump canal traps are limited to 20 minutes, 20 minutes, and 15 minutes, respectively.***
- 47 ***Before and after the construction of the proposed abstraction works, sediment management must be monitored by the applicant in order to identify any potential negative impacts and to allow the necessary interventions in a time critical manner.***
- 48 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

31. An environmental Monitoring Committee (EMC) must be established by the holder of the authorisation before commencement of construction activities.
32. 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.
33. 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 (DWS);

- Implementing Agency (TCTA)
- Provincial Environmental Department;
- Hartbeespoort Irrigation Board
- Makoppa Agriculture
- Cocodile River West Irrigation Board
- Mooivallei Landowners and or other representative from any other affected Landowner Associations;
- Provincial Roads Department;
- Non-Governmental Organisations;
- Local Government; and
- The Environmental Control Officer.
- Community Liaison Officer

General

34. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
- 34.1. at the site of the authorised activity;
 - 34.2. to anyone on request; and
 - 34.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
35. 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: 29/07/2022

Millicent Solomons

Ms Millicent Solomons

**Acting Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment**

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 listed activities as applied for in the application form received on 20 January 2022.
- b) The information contained in the BAR dated June 2022.
- c) The comments received from the City of Johannesburg, City of Tshwane, Department of Public Works, Department of Water and Sanitation, Department of Economic Development, Environment & Tourism, and other I&AP's and interested and affected parties as included in the BAR dated June 2022.
- d) Mitigation measures as proposed in the EIAR dated November 2018, the BAR dated June 2022 and the updated and consolidated EMPr for the entire pipeline route (including deviations) dated June 2022.
- e) The information contained in the specialist studies contained within the appendices of the EIAR dated November 2018.
- f) The information contained in the specialist studies contained within the appendices of the BAR dated June 2022 and as appears below:

Name of Specialist	Title of specialist report/ s as attached in FBAR	Date issued
Inkululeko Wildlife Services (Pty) Ltd by	Bat cave assessment study	December 2020
Stephan Gaigher	Heritage Impact Assessment	October 2020
GBN Joint Venture	Geotech Report	July 2020
A. Mileson	wetland Impact Assessment	March 2021
K. Marais (Pr. Sci. Nat)	HERPETOFAUNA AND INVERTEBRATE	March 2021
C. Hooton	Ecological Impact Assessment	March 2021
Elmie Weideman / Shalini Chetty	visual Impact Assessment)	April 2021
Prof Gerrit Basson, Dr Jeanine Vonkeman, Dr Kuria Kirungu, Dr Ousmane Sawadago and Mr Louis Swart	Sediment Study Impact Assessment	April 2021

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 water demand is increasing in the Lephalale area due to the following planned and anticipated consequential developments due to the Waterberg coalfields:
 - Construction of Eskom's Medupi Power Station;
 - Possible development of further Eskom power;
 - Possible development of power stations by Independent Power Producers (IPPs);

- Extension of the Grootegeluk mining operations and further mines;
 - Possible exploitation of gas; and
 - Accelerated growth in the population in the area.
- i) The EIAr dated November 2018 and the EA issued on 13 October 2020.
- j) The conditions within the EA stipulated specialist studies that must be conducted to input into the design of the MCWAP2A. After reviewing the EIAr (2018) recommendations and the conditions of the EA, the GBN-JV appointed eighteen (18) specialists to undertake various studies as listed above.
- k) The above was undertaken with a view to inform the design of the pipeline and associated infrastructure, the engineering design was based on the approved alignment and within the assessed 100 m wide corridor, and considered the other conditions and requirements (specialist studies) as indicated in the EA. The GBN-JV identified challenges in placing the pipeline alignment and associated infrastructure within the assessed 100 m wide corridor and therefore required certain section of pipeline and associated infrastructure to be placed outside of the 100 m corridor. The areas that fall out of the 100 m corridor are indicated on Page 14-15 of this environmental authorisation.
- l) The Project Deviations assessed in the basic assessment with DFFE reference no: 14/12/16/3/3/1/2481 are critical to ensure constructability, avoidance of key infrastructure (Transnet), reduction of pipeline length and concomitant costs, delivery of water at actual off-take points, and avoidance of environmentally sensitive features.
- m) In addition to the Project Deviations, the Basic Assessment Report also assesses the impacts of telecommunication structures that are required for the MCWAP2A communication during the operational phase of the project. There are thirteen (13) new telecommunication structures that would require environmental authorisation. The new telecommunication structures will connect to existing telecommunication structures in the Project area
- n) The BAR dated June 2022 identified all legislation and guidelines that have been considered in the preparation of the EIAr dated November 2018.
- o) The location of the project.
- p) The methodology used in assessing the potential impacts identified in the Environmental Impact Assessment Report (EIAr) dated November 2018 and BAR dated June 2022 and the specialist studies have been adequately indicated.
- q) 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 Environmental Impact Assessment Report (EIAR) dated November 2018 and the BAR dated June 2022 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 information contained in the Environmental Impact Assessment Report (EIAR) dated November 2018 and the BAR dated June 2022 is deemed to be accurate and credible.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in both the EIAR dated November 2012 and the BAR 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, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



**forestry, fisheries
& the environment**

Department:
Forestry, Fisheries and the Environment
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Ms. Millicent Solomons
Director: Prioritized Infrastructure Projects

Dear Mrs Solomons

**APPOINTMENT AS ACTING CHIEF DIRECTOR: INTEGRATED ENVIRONMENTAL AUTHORIZATIONS
FOR THE PERIOD OF 25 APRIL 2022 UNTIL 31 OCTOBER 2022**

I hereby inform you that I have decided to appoint you as the Acting Chief Director: Integrated Environmental Authorizations for the period of 25 April to 31 October 2022 whilst Mr Sabelo Malaza is fulfilling his temporary reassignment function at the Forestry Branch.

All the correspondence and other documents that are usually signed by the Chief Director: Integrated Environmental Authorizations must be signed under Acting Chief Director: Integrated Environmental Authorizations during the above-mentioned period.

Your appointment in the above acting position remains subject to the provisions of the Public Service Act, 1994 (Proclamation No. 103 of 1994), as amended, the Government Employees Pension Fund Act, 1996 (Proclamation No. 21 of 1996), the regulations promulgated under these Acts and relevant circulars.

In the execution of your duties and the exercising of the powers delegated to you, you will furthermore be subjected to the provisions of the Public Finance Management Act, compliance with the Promotion of Access to Information Act, Promotion of Administrative Justice Act, the Minimum Information Security Standard, Departmental Policies and other applicable legislations with the Republic of South Africa. You are therefore advised to make yourself familiar with the provisions of these legislations and policies and the amendments thereof. (Copies of Departmental policies can be obtained from the Human Resource Office).

Please accept my heartfelt gratitude for all your assistance on behalf of the department.

Yours sincerely

Ms. Devinsigle Bendeman
Deputy Director-General: RCSM (Regulatory Compliance and
Sector Monitoring)

Date 20 April 2022

ACKNOWLEDGEMENT

I ACCEPT / ~~DO NOT ACCEPT~~
appointment as Acting Chief
Director: Integrated Environmental
Authorizations

Signed:

Date:

20/04/2022