

**REFERENCE:** 16/3/3/6/7/1/B5/16/1368/17

**ENQUIRIES:** Lorretta Osborne

DATE: 25 · 10 · 18

The Board of Directors

Darlingbrug and Wagenboomsrivier Irrigation Boards

PO Box 6

TULBAGH

6820

Attention: Mr D van Niekerk

Tel: (028) 230 1401 Fax: (086) 698 8097

Dear Sir

# COMMENT ON THE PRE-APPLICATION DRAFT BASIC ASSESSMENT REPORT ("BAR") FOR THE PROPOSED WATER DISTRIBUTION STRUCTURE AND PIPELINE ALONG THE SNEL RIVER AND THE WABOOMS RIVER, WOLSELEY

- 1. The draft BAR and the letter dated 14 August 2018, as received by the Department on the same day and the Departmental letter issued on 27 August 2018, refer.
- 2. Please find herewith the Department's comment on the draft BAR:
  - 2.1. The Department noticed discrepancies with regards to the description of the development components, e.g. different dimensions for the footprint of the water distribution structure. A clear, accurate and comprehensive description of the proposed development must be provided during the application phase.
  - 2.2. It is noted that a Water Use Licence Application ("WULA") is underway, as mentioned on page 18 of the report. Note that in terms of the Agreement for the One Environmental System (section 50A of the NEMA and sections 41(5) and 163A of the NWA) the processes for a WULA and for an Environmental Impact Assessment ("EIA") must be aligned and integrated with respect to the fixed and synchronised timeframes, as prescribed in the EIA Regulations, 2014 (as amended), as well as the 2017 WULA Regulations. Please be advised that in terms of the Standard Operating Procedure ("SOP") between this Department and the Department of Water and Sanitation ("DWS"), which came into effect on 1 July 2017, the EAP must submit a written water use pre-application request to DWS to determine whether or not a General Authorisation or WULA is required.

- The pre-application request should clearly indicate whether or not an EIA is required in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA").
- 2.3. The report states that, "the proposed pipeline will be approximately 2.7km in length with an internal diameter of 0.35m." Clarity is required why Activity 9 of Listing Notice 1 of 2014 will be applicable to the proposed development.
- 2.4. Furthermore, the report states that, "the construction footprint of the pipeline will be 21.6ha." Clarity is also required why Activity 27 of Listing Notice 1 of 2014 will be applicable.
- 2.5. The report refers to the incorrect trigger for the geographical area in Activity 12 of Listing Notice 3 of 2014. This must be corrected, since the site falls within an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004). To date no critical biodiversity areas as identified in bioregional plans have been adopted by a competent authority.
- 2.6. Proof of compliance with the public participation steps outlined in Regulation 41 must be included in the in-process BAR. In addition, a comprehensive Comments and Response Report that includes all the comments received and the responses thereto must be also be included in the in-process BAR.
- 2.7. All original signed declarations (applicant, environmental assessment practitioner and specialists) are to be included during the application phase.
- 2.8. The footnote on pages ii-vi of the Environmental Management Programme ("EMPr") refers to "Onseepkans bulk water supply system" and on pages 1-57 of refers to "Hut Dam". The in-process EMPr must be amended accordingly.
- 2.9. Page 1 of the EMPr states that, "EnviroAfrica (Pty) Ltd was appointed by Department of Agriculture, Land Reform and Rural Development." The correct details of the applicant must be included in the in-process EMPr.
- 2.10. Page 41 of the EMPr refers to, "method statements of a River Maintenance and Management Plan." Note that no Maintenance Management Plan was attached or part of the EMPr for reviewing purposes.
- 2.11. Since Activity 19 of Listing Notice 1 of 2014 will be applied for, the Department recommends that a Maintenance Management Plan ("MMP") forms a component of the Operational Environmental Management Programme. It should be noted that a Maintenance Management Plan is for the maintenance of structures and infrastructure after completion of construction activities and that construction related activities must be excluded from the Maintenance Management Plan. Please refer to the attached Guideline for Compiling a MMP.
- 2.12. The in-process BAR and EMPr must contain all information requirements outlined in Appendices 1 and 4 respectively of EIA Regulations 2014 (as amended). Omission of any required information may result in the application for Environmental Authorisation being refused by the Competent Authority.

- 2.13. All recommendations and mitigation measures proposed by the Environmental Assessment Practitioner and specialist studies must be incorporated into the inprocess BAR, MMP and EMPr.
- 3. Kindly quote the abovementioned reference number in any future correspondence in respect of the application.
- 4. Please note that it is an offence in terms of Section 49A(1)(a) of the NEMA for a person to commence with a listed activity unless the Competent Authority has granted an Environmental Authorisation for the undertaking of the activity. Failure to comply with the requirements of Section 24F of the NEMA will result in the matter being referred to the Environmental Compliance and Enforcement Directorate of this Department. A person convicted of an offence in terms of the above is liable to a fine not exceeding R10 million or to imprisonment for a period not exceeding 10 years, or to both such fine and imprisonment.
- 5. The Department reserves the right to revise or withdraw comments or request further information based on any information received.

Yours faithfully

**HEAD OF COMPONENT** 

MOSSILUU? \_

ENVIRONMENTAL IMPACT MANAGEMENT SERVICES: REGION 1
DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

CC: (1) Ms I Erasmus (EnviroAfrica CC)
(2) Ms H Truter (Witzenberg Municipality)

Fax: (086) 512 0154 Fax: (028) 316 1877





Request for the relevant Competent Authority to define or adopt a Maintenance Management Plan for a watercourse in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), Environmental Impact Assessment Regulations, 2014 (as amended).

	(For official use only)
File Reference Number:	
Date Received by Department:	
Date Received by Component:  Form Duly Signed and Dated:	Yes No
Form Doly Signed and Dated.	1 162 140
PROJECT TITLE	
TROJECT TILL	

#### A. SCOPE AND IMPORTANT INFORMATION

- This document is to be used to ensure that the request for adopting or defining a Maintenance Management Plan (MMP) in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA"), Environmental Impact Assessment (EIA) Regulations, 2014 (as amended) is undertaken to the sufficient standard and requirements as defined by the competent authority, the Department of Environmental Affairs and Development Planning of the Western Cape Government (henceforth the Department). It is advised that the determination of applicability regarding the scale of the proposed maintenance/management activity(ies) be undertaken through a pre-application consultation with the Department.
- 2) The geographical scope of the MMP is limited to watercourses as defined in the EIA Regulations, 2014(as amended). The document does not relate to coastal activities or activities to be undertaken in an estuary.
- 3) The use of this document for the development of a MMP for a watercourse **will only** be considered when the proposed maintenance activities constitute any one of the following listed activities identified in terms of the NEMA EIA Regulations, 2014 (as amended):

EIA Regulations Listing Notice 1 of 2014 (as amended)

Activity 19, Listing Notice 1: The infilling or depositing of any material of more than 10 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse; but excluding where such infilling, depositing, dredging, excavation, removal or moving-

- (a) will occur behind a development setback;
- (b) is for maintenance purposes undertaken in accordance with a maintenance management plan;
- (c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;
- (N.B. Points (d) and (e) does not apply as these activities fall within the coastal zone)
- Activity 27, Listing Notice 1: 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. The undertaking of a linear activity; or
  - ii. Maintenance purposes undertaken in accordance with a MMP.

#### EIA Regulations Listing Notice 2 of 2014 (as amended)

- Activity 15, Listing Notice 2: The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-
  - I. The undertaking of a linear activity; or
  - II. Maintenance purposes undertaken in accordance with a MMP.
- Activity 24, Listing Notice 2: The extraction or removal of peat or peat soils, including
  the disturbance of vegetation or soils in anticipation of the extraction or removal of
  peat or peat soils, but excluding where such extraction or removal is for the
  rehabilitation of wetlands in accordance with a MMP.

#### EIA Regulations Listing Notice 3 of 2014 (as amended)

Activity 12, Listing Notice 3: 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 MMP.

#### i. Western Cape

- 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;
- iv. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning; or
- v. On land designated for protection or conservation purposes in an Environmental Management Framework adopted in the prescribed manner, or a Spatial Development Framework adopted by the MEC or Minister.
- (NB. Point iii does not apply as this activity falls within the coastal zone)
- 4) In deciding the request, the competent authority may define conditions related to auditing compliance with the MMP; monitoring requirements; reporting requirements, review; updating and amending the document and period for which the MMP is defined/adopted.
- 5) The purpose of the MMP is to maintain both man-made and ecological infrastructure in a manner that either improves the current state of, and/or reduces the negative impacts on a

- watercourse to ensure that ecosystems services are preserved/improved and to prevent further deterioration of the watercourse.
- 6) Notwithstanding the MMP possibly being defined or adopted by the Competent Authority, any other applicable statutory requirement must still be complied with (e.g. any obligations under the National Water Act, 1998 (Act 36 of 1998) or the Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983)).
- 7) The proponent must note that a MMP for a watercourse **must** be undertaken through consultation with the Department of Water and Sanitation and/or the relevant Catchment Management Agency (responsible water authority). This is to ensure compliance in terms of a Permissible Water Use as set out in the National Water Act, 1998 (Act No. 36 of 1998). It is recommended that this process for authorisation in terms of the National Water Act be clarified prior to the drafting and submission of the MMP.
- 8) The development of this document has been done in such a way so as to meet the requirements of both this Department as the competent authority in terms of the NEMA EIA Regulations, 2014 (as amended), as well as the requirements of the delegated water authority, regarding general authorisation considerations for sections 21(c) and (i) of the National Water Act, 1998 (Act No. 36 of 1998), to ensure alignment between the two authorities when defining or adopting the MMP.
- 9) In situations where a Water Use Licence Application (WULA) is required by the water authority regarding the proposed activities within a MMP, this will not prevent the proponent from submitting a request for a MMP to be defined or adopted by the Department.
- 10) Unless protected by law, all information contained in, and attached to this document, shall become public information on receipt by the competent authority.
- 11) A duly dated and originally signed copy of this document together with one hard copy and one electronic copy of the MMP must be posted, to the Department at the postal address given below, or delivered to the Registry Office of the Department.
- 12) A copy of the final defined/adopted MMP and cover letter **must** be submitted to the responsible water authority.
- NOTE: Adopting or defining the MMP does not absolve the proponent from complying with any applicable legislation or the general "duty of care" set out in Section 28(1) of the NEMA that states, "Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, to minimise and rectify such pollution or degradation of the environment." (Note: When interpreting this "duty of care" responsibility, cognisance must be taken of the national environmental management principles contained in Section 2 of the NEMA.
- NOTE: This document can be used as a template to assist in the information required and is to be filled out in full. The Department reserves the right to request any additional information during the initial development and submission of the draft MMP.

NOTE: The Department reserves the right to not adopt the MMP and require that an application be submitted to obtain Environmental Authorisation for the respective activities. Furthermore, consideration for the review should also be aligned to the periodic reviews of the General Authorisation for sections 21 (c) and (i) of the National Water Act, 1998 (Act No. 36 of 1998) to ensure continued alignment and compliance.

#### B. MAINTENANCE MANAGEMENT PRINCIPLES

- 1) The following are overarching principles to be used by landowners and managers when considering the development and implementation of a MMP:
  - a. The anticipation and prevention of negative impacts and risks, then minimisation, rehabilitation or 'repair', where a sequence of possible mitigation measures to avoid, minimize, rehabilitate and/or remedy negative impacts is explicitly considered;
  - b. Avoid and reduce unnecessary maintenance;
  - c. Maintenance and management of a watercourse must be informed by the condition of the physical and ecological processes that drive and maintain aquatic ecosystems within a catchment, relative to the desired state of the affected system;
  - d. Management actions must aim to prevent further deterioration to the condition of affected watercourses and, overall, be guided by a general commitment to improving and maintaining ecological infrastructure for the delivery of ecosystem services:
  - e. Managers and organs of state must identify, address and, where feasible, eliminate the factors that necessitate intrusive, environmentally-damaging maintenance; and
  - f. A process of continuous management improvement be applied, namely Planning; Implementing; Checking (monitoring, auditing, determine corrective action) and Acting (management review).
- 2) The following table provides a simple overview for the determination of the need for a MMP:

	Question	If the answer to any of the questions is YES, then a MMP may be applicable.
2.1	Is there a watercourse on or adjacent to the property?	
2.2	Has there been a history of flood damage or vandalism to the existing infrastructure or watercourse – erosion and/or sedimentation?	
2.3	Is there infrastructure or any community at risk of being damaged by flooding?	
2.4	Is the design of infrastructure considered inadequate in terms of managing the risk of flooding, erosion and/or sedimentation?	
2.5	Would you consider an improved design to existing infrastructure to reduce maintenance needs?	
2.6	Are there specific incidences where the watercourse is obstructed or blockages occur that alter the flow of the river during floods?	
2.7	Is there an existing obstruction in the watercourse that has changed the flow of the river under normal conditions?	
2.8	Is there a marked increase in the rate of erosion/sedimentation being experienced which threatens operations and assets?	
2.9	Is there a presence of alien or bush encroachment vegetation within the watercourse and/or the presence of woody debris after flooding?	

3) It is important to consider that the type of maintenance required will impact on the level of assessment needed in terms of the impact the activity will have on the system and how best to mitigate the impact. Types of maintenance can broadly be classified in the following categories, with recognition that maintenance activities vary across the rural and urban context:

Maintenance Category	Types of maintenance activities (examples only)
Category A:  Sediment removal as a result of deposition or sediment deposition as a result of erosion	Clearing sediment or placing sediment at:  Pump hole/trench Return flow (irrigation) Off-take weir Stormwater outfall Detention/retention ponds Canalized urban rivers Bridges, culverts and drifts
	<ul> <li>Prevent formation of islands in the channel of the river</li> <li>Dredging of in-stream dams</li> </ul>
Category B: Emergency repairs – urgent action required to manage risk and damage to assets	<ul> <li>Repair to erosion of river bank or servicing infrastructure (e.g. pipelines/roads)</li> <li>Removal of material built up as a result of flooding/sedimentation and increasing risk to infrastructure</li> <li>Address damage or replacement of infrastructure (e.g. bridge, pipeline, pump house)</li> <li>Manage the condition of flood protection berms, and existing structures such as gabions, canalized and stormwater systems</li> <li>Installing temporary gravel approaches at flood-damaged river crossings</li> </ul>
Category C:  Managing alien invasive and bush encroachment plant species	<ul> <li>Clearing of alien invasive vegetation out of a watercourse to reduce maintenance requirements as they relate to erosion and sedimentation</li> <li>Management of indigenous species categorized as bush encroachment, to improve hydrological flow and reduce associated flooding impacts</li> </ul>
Category D:  Rehabilitation and restoration activities for maintaining ecological infrastructure	<ul> <li>Development and maintenance of ecological buffering systems to improve and/or restore functioning (e.g. wetlands and stormwater detention ponds)</li> <li>Actively rehabilitating riparian zones through planting of locally indigenous species</li> <li>Bank grading and movement/removal of berms and barriers to flow</li> </ul>

- 4) The development of appropriate method statements to mitigate the impact of the maintenance needs, should be aligned within the framework of these considerations:
  - a. Watercourses experience a natural process of sedimentation and erosion, with varying rates depending on the geomorphology and the integrity of the land-uses within the catchment;

- b. Manipulation of the watercourse results in increased erosion and/or deposition being experienced further downstream, perpetuating greater need for manipulation and more drastic and costly maintenance interventions;
- c. Locally indigenous riparian and wetland vegetation assists in the stabilization of river banks through effective root structures, while contributing to improve instream habitat and water quality conditions;
- Invasive alien and bush encroachment vegetation significantly impacts on the functioning of a watercourse, often leading to increased flood associated damage, with further implications and a reduction in water quality and availability;
- e. Persons undertaking maintenance activities have a responsibility to ensure a sense of duty of care is applied as prescribed within NEMA Section 28(1).
- 5) It is recognized that within urban areas, sedimentation and erosion rates are significantly amplified as a result of development in urban areas and thus systems associated with watercourses in such areas can no longer be considered as 'natural'. In such a context, the drivers of such a process are often located outside the control of the landowner or responsible authority (i.e. Municipality). Therefore, the response taken to address the needs of a maintenance management plan for a watercourse within the urban environment may be limited in mitigating the requirement for maintenance to be undertaken.

# C. REQUEST FOR THE COMPETENT AUTHORITY TO DEFINE OR ADOPT A MAINTENANCE MANAGEMENT PLAN FOR A WATERCOURSE IN TERMS OF THE NEMA, EIA REGULATIONS 2014 (AS AMENDED).

The following information must be submitted as part of the request for the competent authority to define or adopt the MMP:

#### 1. PERSONAL DETAILS

Highlight the Departmental Sub-Region(s) in which the maintenance is to be undertaken. (mark the appropriate box with an 'X'). For Departmental details see Annexure A.

REGION 1 (City of Cape Town Metropolitan West Coast District)  Name of person/authority who will undertake responsibility for the activity: Contact person (if other):  Postal address:	and	REGION 2 (Cape Winelands District District)	t, Overberg	REGION 3 (Eden & Central Karoo Districts)
Telephone:	(	)	Postal code:	
Fax:	(		Cell:	
Email:				
Name of person who has prepared the MMP:				
Contact Person (if other):				
Postal address:				
Telephone:	(	)	Postal code:	
Fax:	(		Cell:	
E-mail:		•		
Name of landowner(s) on				
whose behalf the plan has been developed:*				
Contact person(s):				
Postal address:				
Telephone:	(	)	Postal code:	
Fax:	(	)	Cell:	
E-mail:		*		
Municipality for proposed	H.C.			
project:				
Farm name(s), erf(s) and portion number(s) etc*:				
Magisterial District or Town:				
Name(s) of watercourse(s) in question:				
	portio	n number, Erf number, coore		andowners with their full names, contact gned declaration confirming approval for

Name of institution/company:

2.	DECLARATION
TH	E PERSON THAT WILL BE UNDERTAKING THE MAINTENANCE
The	in my <b>personal capacity</b> or <b>duly authorised</b> (please circle applicable option) by
•	Request the MMP to be adopted by the Competent Authority;
•	Regard the information contained herein to be true and correct for this Maintenance Management Plan;
•	Am fully aware of my responsibilities in terms of the National Environmental Management Act of 1998 ("NEMA") (Act No. 107 of 1998) and that, notwithstanding the adoption of this MMP, I/we shall comply with any other statutory requirement applicable, which may include, but not limited to the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983), the National Water Act, 1998 (Act No. 36 of 1998) and the Environmental Impact Assessment Regulations, 2014 (as amended) ("EIA Regulations"), in terms of NEMA;
•	Am fully aware that the proposed maintenance constitutes a listed activity in terms of the NEMA EIA Regulations, 2014 (as amended) and that an environmental assessment for environmental authorisation may be required for any other listed activities not included as part of this MMP;
•	Acknowledge that any activity undertaken that does not form part of the defined and adopted MMP, will be subject to the Section 24(F) of NEMA and that appropriate enforcement and compliance requirements will follow;
•	Shall undertake only those tasks described in the MMP, failing which environmental authorisation will be required, where applicable;
•	Shall provide the competent authorities with access to all information at my disposal that is relevant to this request;
•	Shall be responsible for any costs incurred in complying with environmental legislation;
•	Hereby indemnify the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of, inter alia, any loss or damage to property or person as a consequence of undertaking this MMP; and
	Am aware that a false declaration is an offence in terms of Regulation 48(1)(a) GN No. R. 982 of 4 December 2014 (as amended).
ign	pature of the proponent:  Date:

## 3. BACKGROUND AND INTRODUCTION

The MMP (MMP) must be submitted with the signed declaration (see above) for the MMP to be defined or adopted in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), Environmental Impact Assessment Regulations, 2014 (as amended).

Provide a strategic overview of the need for the development of the MMP – what is the need for this plan; how this plan will aim to contribute to furthering sustainable practices and reducing and/or mitigating the need for maintenance.

This section must also include details of the responsible party who will implement the MMP, engineers or other specialists appointed and the specifications for their appointment to assess the needs for the maintenance work, the Environmental Assessment Practitioner (EAP) or consultant appointed to compile the MMP. A short portfolio of evidence which indicates the relevant freshwater/ aquatic experience of the EAP/consultant or the person who prepared the MMP is required as supporting information to the introduction.

Should sufficient expertise and resources be available for the development of an MMP by the proponent, the process of appointing an EAP for the final compilation and submission of the MMP to the Department is still required.

## 3.1 DEFINITIONS OF TERMS AND ACRONYMS

Acronyms and technical terms used in the MMP must be defined or clarified so that the person(s) who must implement the plan understands the document clearly.

## 4. ENGAGEMENT PROCESS

### 4.1 AUTHORITY ENGAGEMENT

Please indicate (with an 'x') which of the following authorities have been consulted to provide input based on the proposed maintenance activities:

Department of Water and Sanitation
Catchment Management Agency
CapeNature
SANParks
Western Cape Department of Agriculture, Directorate: Sustainable Resource Management
District Municipality
Local Municipality
Irrigation Board / Water Users Association
Heritage Western Cape
Department of Agriculture, Forestry and Fisheries
Department of Environmental Affairs & Development Planning
Other (please list):

For each of the indicated authorities, please provide an explanation as to their required involvement. Details of interactions with each of the respective authorities should be captured by providing an attendance register and minutes of meetings attended with the authority in question. Comments received from the authorities must be submitted and referenced within the final application.

For a MMP where multiple property owners are involved or a plan is developed for members of an association, it is recommended that a Project Liaison Committee is setup, to achieve the following objectives:

- Present the project work plan and objectives for approval;
- Present the initial findings and draft of the plan for discussion and approval;
- Present the final accepted plan for agreement and clarification.

In cases where the Municipality is the proponent, it is advised that the Project Liaison Committee represent the multiple departments involved with the maintenance and management of watercourse, which could include but is not limited to departments of, Stormwater, Water and Sanitation, Environment, Parks and Wastewater. Such an approach seeks to ensure alignment and an understanding of the roles and responsibilities of the varying maintenance requirements within the Municipality.

#### 4.2 PUBLIC PARTICIPATION

You are required to notify any and all potential interested and affected party(ies) of the proposed activity(ies) and allow them the opportunity to comment on the MMP for a watercourse. The detail required is outlined below, however this can be further discussed and determined as part of the pre-consultative meeting with the Department, which would ensure due diligence and good governance principles are applied.

It is noted, that for the development of MMPs for watercourses within the urban area, by Municipalities, public notice can be undertaken through the advertisement of the development of a MMP within local/community newspapers for the respective areas, with the relevant evidence of such an advertisement included in the final submission.

The following public participation recommendations, regarding the different scale or geographical extent of the request, are as follows. If no, then motivation must be given as to why a particular process was not undertaken.

Single property / maintenance and management activities along a watercourse occurring along a stretch of no more than 1 kilometer (≤1000 meters):

	14	-	
(i) Given written notice to the owner or person in control of	Yes	/	Evidence to be letter
that land if the person undertaking the maintenance activity is			from landowner
not the owner or person in control of the land.			acknowledging
			development of MMP.
			•
(ii) Given written notice to adjacent landowners (up to 500m	Yes	/	Evidence to be dated
upstream and downstream from furthest upstream and	No		letters addressed to
downstream maintenance site and opposite side of the banks)			landowner and/or
			manager of adjacent

of the development of the MMP.		properties.
(iii) Stakeholder meeting held for adjacent landowners, in which MMP is presented. This must include an opportunity for adjacent landowners to provide comment.	Yes / No	Evidence will consist of meeting requests, attendance register of said meeting, minutes / notes of the meeting, and comments provided.
(iv) Given written notice to any organ of state having jurisdiction in respect of any aspect of the activity(ies) proposed within the development of the MMP.	Yes / No	Evidence will include relevant dated letters to the relevant government agencies and departments.
(v) Provided written notice and confirmation to the relevant Water Users Association (WUA) or Irrigation Board (IB) of the development of the MMP, if applicable.	Yes / No	Evidence to be dated letter(s) to management body (secretary and chairperson) for the WUA/IB.

## Single or Multiple properties / WUA / IB / local authority applying for a single MMP to cover a stretch of a watercourse <u>longer than 1 kilometer (>1000 meters) OR</u> a catchment or sub-catchment area

(i) Given written notice to the owner(s) or person(s) in control of the land if the person(s) undertaking the maintenance activity(ies) is not the owner or person in control of the land.	Yes No	/	Evidence to be letter from landowner acknowledging development of MMP.
(ii) Given written notice to non-participating adjacent landowners (up to 1km upstream and downstream from furthest upstream and downstream maintenance site and opposite side of the river banks) of the development of the MMP. This must also include general notice to adjacent WUA or IB of the proposed MMP development if application is made by a WUA or IB.	Yes No	/	Evidence to be dated letters addressed to landowner and/or manager of adjacent properties.
(iii) Stakeholder meeting held for all participating and non- participating landowners, in which details and methodology of MMP is presented. A minimum of two meetings are required, to present on the development of the plan and a final draft version of the plan.	Yes No	/	Evidence will consist of meeting requests, attendance register of said meeting, minutes/notes of the meeting, and comments provided.
(iv) Given written notice to any organ of state having jurisdiction in respect of any aspect of the activity(ies) proposed within the development of the MMP.	Yes No	/	Evidence will include dated letters to the relevant government agencies and departments.
(v) Provide written notice and confirmation to the relevant Water Users Association (WUA) or Irrigation Board (IB), of the	Yes	/	Evidence to be dated letter(s) to management

development of the MMP (if a MMP is not requested and managed through a WUA/IB).	No	body (secretary and chairperson) for the WUA/IB.
(vi) Describe any other measures taken to inform the public about this MMP. A complete list of measures that are in place to deal with interactions with the public, if it becomes necessary and required by the competent authority during implementation of the project, must be provided for.	Yes / No	Evidence to be referenced accordingly based on the measures taken and/or developed.

Kindly note, the Department may request further or allow reduced requirements for public participation, noting the specific circumstances applied to each request to define or adopt an MMP. Please include or delete the respective sections as agreed to with the Department in the preconsultative meeting, with supporting evidence of this agreement included.

Please circle the appropriate answer above to indicate the public participation process that has been followed to give notice of this request to potential interested and affected parties and attach any comments and/or objections received, with evidence provided and referenced.

#### 5. DATA COLLECTION AND ASSESSMENT

[This section is intended to provide the required information on the needs for the scientific content and methodology statements of a MMP. It provides headings for the various sections that a MMP must contain, as well as a brief description of typical content and the level of detail required under each heading]

**Note**: Information relating to the specifications and Terms of Reference used for the appointment of all specialist inputs must be provided.

Information required for maintenance and management activities for a single/ multiple owner along a watercourse.

- 5.1 Provide a map (at an appropriate scale) of the watercourse or stretch of watercourse being applied for within the stretch where maintenance activities will take place being clearly defined consideration must be made to mapped features relating to Critical Biodiversity Areas (CBAs) and National Freshwater Ecosystem Priority Areas (NFEPAs).
- 5.2 GPS coordinates must be provided for all site(s) at which maintenance activities will take place and included on the map which defines the stretch of watercourse. Coordinates must be provided in degrees, minutes and seconds using the Hartebeesthoek94 WGS84 coordinate system. Where numerous properties/sites are involved (e.g. linear activities), you may attach a list of property descriptions and co-ordinates to this form.
- 5.3 Specialist assessment to be undertaken to determine (NOTE: information relating to the specifications and Terms of Reference used for the appointment of all specialist inputs must be provided):
- Hydrological (incl. flood hydrological data etc.) and geomorphological assessment of watercourse functioning;
- The relevant Present Ecological Status (PES) of the stretch of watercourse in question, if not available an assessment is to be done to determine PES in accordance with the Department of Water and Sanitation (DWS) guidelines;
- What is the reason/cause for the maintenance activities based on an ecological and hydrological assessment of the watercourse within the context of the larger catchment;
- What are the drivers of system functioning within the watercourse and what is the ecological objective based on historical condition and PES;
- What is the management objective given the ecological status of the watercourse based on historical and PES data; as set out in agreement with the person(s) responsible for undertaking the maintenance activities;
- What is the impact on the watercourse/river system (resource quality characteristics: flow regime, geomorphology, water quality, habitat and biota) for a minimum of 500m both up and downstream of the proposed maintenance activities, with the mitigation measures included;
- An appropriate assessment for risk for each of the proposed types of maintenance activities and linked management actions in terms of the risk matrix for General Authorisations (GA) of Section 21 (c) and (i) by the DWS (GN 509 of 2016) or where applicable.

- 5.4 Mapped biodiversity features such as Critical Biodiversity Area, Ecological Support Area, National Freshwater Ecosystem Priority Area (NFEPA), and the National list of Ecosystems that are threatened and in need of protection (2011) gazetted in terms of Section 52 of the National Environmental Management: Biodiversity Act (Act No. 10 of 2004) (NEMBA), the Western Cape Biodiversity Spatial Plan 2017, as well as relevant provincial specific plans and classifications etc. Please consult the website www.bgis.sanbi.org.za to determine mapped features.
- 5.5 Include a description of existing or previous protection measures or reinforcements (eg. gabions or groynes etc.) and infrastructure. Describe any evidence of erosion and/or siltation at the various sites and outlining possible causal factors and maintenance practices.
- 5.6 Provide historical maps and data (images/flow/water quality/land use) of the river channel (if available) in order to assess the natural to changing flow patterns of the watercourse to determine cause of maintenance and possible impact of the maintenance activities, to inform mitigation measures.
- 5.7 Provide a photographic record for the condition of the riparian habitat around maintenance sites, with the presence of important and/or sensitive habitat/species noted.
- 5.8 For sites prone to flood damage, a description regarding the history and effect of past floods and include dates of most recent events must be provided. This must inform the process to understand what actions are required along the stretch of the watercourse to reduce such impacts to the resource quality characteristics.
- 5.9 Explain the risks associated with the no-go option for the MMP i.e. the risk of not undertaking the maintenance activities as stated in the MMP.
- 5.10 Reference must be made to any strategic plan where available, for example, a Catchment Management Strategy, with the objectives of the MMP shown to be in alignment with such plans.

#### 6. METHOD STATEMENT

- 6.1 The method statement must provide a step-by-step plan (which may include a schematic diagram etc.) to inform the responsible person(s) on the process and actions to take in a sequential and logical manner, which aims to reduce the impact of undertaking the activity within a reasonable timeframe and cost.
- 6.2 A method statement should be compiled for each individual activity given the likely specific circumstances and conditions of a site requiring maintenance. However, in situations whereby uniform conditions and circumstances are evident for multiple sites requiring the same type of activity, a method statement can be given for a specific type of activity to be undertaken at multiple sites given the aforementioned requirements.
- 6.3 The detail of the method statement will be assessed by the Department and other relevant regulatory authorities to ensure actions that are taken are such that they do not perpetuate increased incidences of erosion/deposition of material.

- 6.4 Time periods must be given within which the maintenance actions contemplated need to be implemented. An indication must be made whether maintenance actions will be repeated, e.g. clearing of silt/debris from under a bridge annually or after flood events.
- 6.5 The following serves as a general guide required to minimise the spatial impact of the maintenance activity:
- Repairs and maintenance should be undertaken within the dry season, except for emergency maintenance works.
- Where at all possible, existing access routes should be used. In cases where none exist, a
  route should be created through the most degraded area avoiding sensitive/indigenous
  vegetation areas.
- Responsible management of pollutants through ensuring handling and storage of any
  pollutants is away from the watercourse. When machinery is involved, ensure effective
  operation with no leaking parts and refuel outside of the riparian area, at a safe distance
  from the watercourse to manage any accidental spillages and pose no threat of pollution.
- At no time should the flow of the watercourse be blocked (temporary diversions may be allowed) nor should the movement of aquatic and riparian biota (noting breeding periods) be prevented during maintenance actions.
- No new berms can be created.
- In circumstances which require the removal of any top soil, this must be sufficiently restored through sustainable measures and practices.
- Concerted effort must be made to actively rehabilitate repaired or reshaped banks with indigenous local vegetation.
- No deepening of the watercourse beyond the original, pre-damage determined thalweg, unless such deepening is directly related to the natural improved functioning and condition of such a watercourse.
- Where at all possible, limit the disturbance to the zone of the thalweg. This is due to the
  ecological importance of the low flow channel and respective habitat being allowed to reestablish improving the ecological condition.
- The build-up of debris/sediment removed from a maintenance site may:
  - be utilised for the purpose of in-filling or other related maintenance actions related to managing erosion, which form part of an adopted MMP;
  - o not be used to enlarge the height, width or any extent of existing berms;
  - o not be deposited anywhere within the watercourse or anywhere along the banks of a river where such action is not part of the proposed maintenance activity (ies). Material that cannot be used for maintenance purposes must be removed out of the riparian area to a suitable stockpile location or disposal site. Further action and consideration may be required where the possibility of contaminated material may occur, such as in urban watercourses.
- The use of foreign material, such as concrete, rubble, woody debris and/or dry land based soil, is strictly prohibited from being used in maintenance actions, unless for the specific purpose of repairs to existing infrastructure, coupled with appropriate mitigation measures.

On completion of the maintenance action, the condition of the site in terms of relative topography should be similar to the pre-damaged state (i.e. the shape of the river bank should be similar or in a state which is improved to manage future damage). This ultimately dictates that the channel, banks and bed cannot be made narrower, higher or deepened respectively. Exceptions are considered for systems involved with the management of stormwater and improvements for water quality within the urban context.

#### 7. MONITORING AND REPORTING

It is important to note that any and all activities undertaken outside the scope of the adopted MMP, in terms of the action outlined within the given method statement, the responsible person(s) will be subject to Section 24(F) of NEMA and that appropriate enforcement and compliance requirements will follow.

The specific reporting information required by the competent authority should be discussed during the consultation phase between the proponent and the Department. The relevant information required should be considered on a case-by-case basis.

The following Forms A and B are to be considered as a guideline in terms of the type of information required. It is proposed that Form A below must be completed by the relevant person(s) before maintenance activities are undertaken and Form B after a maintenance activity has been completed. A copy of each completed Form A & B must be sent to the relevant WUA/IB/local authority management if they have undertaken the development of the MMP. For any individual landowner applications, the landowner is responsible to ensure a record of all maintenance activities is recorded as per Form A & B below. Form A and B must also be sent to the Provincial Department of Agriculture, Directorate: Sustainable Resource Management.

The Department may, within a reasonable notice period, request to evaluate the maintenance activities and assess the maintenance sites as per the adopted MMP.

Form A should be completed at least 7 working days before the commencement of any maintenance activity and Form B at least 3 working days following the completion of the maintenance activity(ies). At least two photographs are required from two different points of perspective (A and B) looking at the site (coordinates of these points are required). When listing the type and reference code, this must be done by specifically listing the relevant detail within the adopted MMP.

REPORTIN	G FOR INTENT TO UNDERTA			ORM A
	Section A: La	ndowner Details		
Name	Surname	Farm No.	Erf No.	Today's Date
	Section B: Details of prop			
WUA/GA reference	Activity Type:	Reference	Footprint	Volume of
number and		code (make	area (m²)	material (m³)
DEA&DP reference		reference to		
number for MMP.		MMP)		
				1
Equipment to be	Description of method for	planned activit	v:	Date when work
used:				will commence:
Date of last flood	Note any further damage	and comments	regarding the s	tate of the site
event for site:	,			
0	li C. Di -l l f H	- 1		
	ion C: Photographs of acti	vity location bet	ore maintenanc	:e
Before A				
Coordinates:				
S				
E				
Dafana D				
Before B				
Coordinates:				
S				
3				
E	E.			
-				
Date of photos				
taken:				

REPOR	TING FOR COMPLETIO			DRM B
Name		A: Landowner Details Farm No.	Erf No.	To de de Dela
Name	Surname	rarm No.	EII NO.	Today's Date
	Section B: Details of	proposed maintenar	nce activity	
WUA/GA reference number and DEA&DP reference number for MMP.	Activity Type:	Reference code (make reference to MMP)	Footprint area (m²)	Volume of material (m³)
Equipment that was used:	Description of meth commence date ch	nod for completed anged	activity and i	f Date activity completed
Date of last flood event for site:	Note any challeng method statement	es or difficulties ex	perienced in	following the MMP
Sec	ction C: Photographs	of activity location af	ter maintenand	ce
After A				
Coordinates: S				
E				
After B		-		
Coordinates: S				
E				
Date of photos taken:				

#### **DEFINITIONS**

"Activity" means an activity identified in any notice published by the Minister or MEC in terms of section 24D(1)(a) of the Act as a listed activity or specified activity. Activity in this document refers to the activities as listed in Listing Notice 1, 2 and 3 of the Environmental Impact Assessment Regulations, 2014 (as amended).

**"Bush Encroachment"** means stands of plants of the kinds specified in column 1 of Table 4 of the Conservation of Agricultural Resources Act (Act No. 43 of 1983) where individual plants are closer to each other than three times the mean crown diameter.

"Diverting" as defined in the General Authorisation, in terms of section 39 of the National Water Act, 1998 (Act no 36 of 1998) for Water Uses as defined in Section 21(c) and 21(i) (GN. 509 of 26 August 2016), means to, in any manner, cause the instream flow of water to be rerouted temporarily or permanently.

**"Ecological Infrastructure"** refers to naturally functioning ecosystems that deliver valuable services to people, such as water and climate regulation, soil formation and disaster risk reduction.

**"Estuary"** has the meaning assigned to it in the National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008)

"Flood event" is the event where land is inundated by the overflowing of water from a river channel and where this event causes significant damage to infrastructure or results in watercourse erosion and/or sediment deposition.

NOTE that flooding can be a natural phenomenon in many river or wetland systems which, due to encroachment and human modification of the form and function of the affected system, may have evolved into a potential hazard to life or property.

**"Flow-altering"** as defined in the General Authorisation, in terms of section 39 of the National Water Act, 1998 (Act no 36 of 1998) for Water Uses as defined in Section 21(c) and 21(i) (GN. 509 of 26 August 2016), means to, in any manner, alter the instream flow route, speed or quantity of water temporarily or permanently.

"General Authorisation" in this document refers to the General Authorisation in terms of section 39 of the National Water Act, 1998 (Act no 36 of 1998) for Water Uses as defined in Section 21(c) or Section 21(i) (GN. 509 of 26 August 2016).

"Impeding" as defined in the General Authorisation, in terms of section 39 of the National Water Act, 1998 (Act no 36 of 1998) for Water Uses as defined in Section 21(c) and 21(i) (GN. 509 of 26 August 2016), means to, in any manner, hinder or obstruct the instream flow of water temporarily or permanently, but excludes the damming of flow so as to cause storage of water.

"Indigenous vegetation" refers to vegetation consisting of indigenous plant species occurring naturally in an area, regardless of the level of alien infestation and where the topsoil has not been lawfully disturbed during the preceding ten years.

"Maintenance" means actions performed to keep a structure or system functioning or in service on the same location, capacity and footprint.

"Maintenance Management Plan" means a management plan for maintenance purposes defined or adopted by the competent authority.

"River Management Plans" as defined in the General Authorisation, in terms of section 39 of the National Water Act, 1998 (Act no 36 of 1998) for Water Uses as defined in Section 21(c) and 21(i) (GN. 509 of 26 August 2016), any river management plan developed for the purposes of river or storm water management in any municipal/metropolitan area or described river section, river reach, entire river or sub quaternary catchment that considers the river in a catchment context.

"River reach", a length of river characterised by a particular channel pattern and channel morphology, resulting from a uniform set of local constraints on channel form. A river reach is typically hundreds of meters in length.

"Stretch" a section of watercourse, delineated between two or more mapped coordinates, within which proposed maintenance activities are to take place as guided by a MMP.

"Thalweg" refers to the line of lowest elevation within a valley or watercourse.

#### "Watercourse" means:

- (a) a river or spring;
- (b) a natural channel in which water flows regularly or intermittently;
- (c) a wetland, lake or dam into which, or from which, water flows; and any collection of water which the Minister may, by notice in the Gazette, declare to be a watercourse as defined in the National Water Act, 1998 (Act No. 36 of 1998); and

a reference to a watercourse includes, where relevant, its bed and banks.

"Wetland" means, land which is transitional between terrestrial and aquatic systems where the water table is usually at or near the surface, or the land is periodically covered with shallow water, and which land in normal circumstances supports or would support vegetation typically adapted to life in saturated soil.

#### **ACRONYMS**

CBA Critical Biodiversity Area

DEA&DP Department of Environmental Affairs & Development Planning

DWS Department of Water & Sanitation

EAP Environmental Assessment Practitioner

EIA Environmental Impact Assessment

GA General Authorisation, in terms of the National Water Act, 1998 (Act No. 36

of 1998)

GN Government Notice

IB Irrigation Board

MEC Member of Executive Council

MMP Maintenance Management Plan

NEMA National Environmental Management Act, 1998 (Act No. 107 of 1998)

NEMBA National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of

2004)

NFEPA National Freshwater Ecosystem Priority Areas

NWA National Water Act, 1998 (Act No. 36 of 1998)

PES Present Ecological State

SANParks South African National Parks Authority

WUA Water Users Association

WULA Water Use Licence Application

#### REFERENCE GUIDE FOR DRAFTING MMPs FOR A WATERCOURSE

Ecosystem Guidelines for Environmental Assessment in the Western Cape, Edition 2, 2016. Available at: <a href="https://www.bgis.org.za">www.bgis.org.za</a>

Wetland offsets: A best practice guideline for South Africa, 2016. Available at: <a href="http://www.wrc.org.za">http://www.wrc.org.za</a>

Preliminary guideline for the determination of buffer zones for rivers, wetlands and estuaries, 2014. Available at: http://www.wrc.org.za

National Water Act, 1998 (Act No. 36 of 1998). Available at: <a href="http://www.gov.za/documents/national-water-act">http://www.gov.za/documents/national-water-act</a>

General Authorisation, in terms of Section 39 of the National Water Act, 1998 (Act No. 36 of 1998) for water uses as defined in Section 21(c) or Section 21(i).

#### **ANNEXURE A**

### **DEPARTMENTAL DETAILS**

CAPE TOWN OFFICE: REGION 1 (City of Cape Town & West Coast District)	CAPE TOWN OFFICE: REGION 2 (Cape Winelands District & Overberg District)	GEORGE OFFICE: REGION 3 (Central Karoo District & Eden District)
Requests for competent authority to adopt an MMP must be sent to the following details:	Requests for competent authority to adopt an MMP must be sent to the following details:	Requests for competent authority to adopt an MMP must be sent to the following details:
Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 1) Private Bag X 9086 Cape Town, 8000	Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 2) Private Bag X 9086 Cape Town, 8000	Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 3) Private Bag X 6509 George, 6530
Registry Office 1st Floor Utilitas Building 1 Dorp Street, Cape Town	Registry Office 1st Floor Utilitas Building 1 Dorp Street, Cape Town	Registry Office 4 <sup>th</sup> Floor, York Park Building 93 York Street George
Queries should be directed to the Directorate: Development Management (Region 1) at: Tel: (021) 483-5829 Fax (021) 483-4372	Queries should be directed to the Directorate: Development Management (Region 2) at: Tel: (021) 483-5842 Fax (021) 483-3633	Queries should be directed to the Directorate: Development Management (Region 3) at: Tel: (044) 805-8600 Fax (044) 8058650

#### WESTERN CAPE DEPARTMENT OF AGRICULTURE DETAILS

Francis Steyn

Director: Sustainable Resource Management, LandCare Programme

Western Cape Department of Agriculture

Private Bag X1 Elsenburg 7607

Main Building, Elsenburg, Muldersvlei Road

Tel: 021 808 5090

Email: franciss@elsenburg.com