

REHABILITATION AND REMEDIATION MANAGEMENT GUIDELINES FOR WATER RESOURCES

PROJECT PLAN

Prepared by:

Directorate: Sources Directed Studies

Chief Directorate: Water Ecosystems Management

Department of Water and Sanitation

Private Bag X313,

Pretoria,

0001

Republic of South Africa

May 2021

DEPARTMENT OF WATER AND SANITATION

Rehabilitation and Remediation Management Guidelines for Water Resources

Project Plan

Sources Directed Studies Report No: RDM/RRMG/00/IHP/SDS/0120

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Chief Directorate: Water Ecosystems Management

Compiled by:

Production Scientist: Sources Directed Studies

Mr S.S Mnyango (Project Coordinator)

Recommended for Approval by:

Scientist Manager: Sources Directed Studies

Ms M.D Thwala (Project Manager)

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Approved for DWS by:

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Director: Sources Directed Studies

Ms T.B Nyamande (Project Leader)

Date: 26 May 2021

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DOCUMENT STATUS

Project	Department of Water and Sanitation-In-House Project: Rehabilitation and Remediation Management Guidelines for Water Resources		
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Directorate: Sources Directed Studies			
Authors	Mr Samkele Mnyango		
	Ms Mmaphefo Thwala		
	Mr Kgotso Mahlahlane		
	Ms Tovhowani Nyamande		
Contributor(s)	Mr Stanley Nzama		
	Ms Jackie Jay		
	Mr Musawenkosi Kunene		
	Ms Mahadi Mofokeng		
	Ms Naomi Fourie		
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Date	May 2021		

1. BACKGROUND AND INTRODUCTION

In 2020, the Directorate: Source Directed Studies (SDS) initiated an in-house project for the development of Rehabilitation and Remediation Management Guidelines for Water Resources in South Africa (SA). The project responds to one of the objectives of the Chief Directorate Water Ecosystem Management to conduct sources directed studies as informed by broader Department of Water and Sanitation (DWS) strategic objectives.

The sustainable management of water resources requires that water quality degradation be avoided, minimised, and remedied where applicable. Sections 19 and 20 of the National Water Act (Act 36 of 1998), respectively, makes provisions that environmental polluters carry the responsibility to remedy their pollution. Furthermore, in case of an emergency where the responsible person fails to comply or inadequately comply timeously, the Catchment Management Agency (CMA) (or DWS where a CMA is not yet established) may take the necessary remediation measures and recover the cost from every responsible person.

Motivation for the Project

Justification for developing Rehabilitation, Remediation and Management Guidelines is informed but not limited to the following policies and strategies:

- National Water Resource Strategy (NWRS) calls for the development of Government policies and strategies for proactive measures to mitigate water resource quality degradation and address legacy deterioration; while maintaining healthy water ecosystems (rivers, wetlands etc.) to ensure their continued provision of ecosystem services.
- The National Water and Sanitation Master Plan (NWSMP) Volume 1, (2018)
 prioritizes the protection of restoration of ecological infrastructure.
- In 2016 DWS initiated an extensive process to revise, update and consolidate its
 water quality management policies and strategies, a process that produced
 Integrated Water Quality Management (IWQM) Policies (2016) and Strategies for
 South Africa (2017). Amongst the guiding concepts of IWQM is Principle 10
 which focusses the promotion of green/ecological infrastructure restoration and
 rehabilitation.
- The implementation of Resource Directed Measures (RDM), particularly the Resource Quality Objectives (RQOs) and Source Directed Controls (SDC) is

founded on principles of improving resources deterioration where applicable, and the Rehabilitation and Remediation Management Guidelines are tools to effect such a need.

Project Aim(s)

The project aims to:

- establish the current status quo with regards to rehabilitation and remediation practices for management of water resources;
- map out the legislative framework for water resources rehabilitation and remediation practices in South Africa;
- develop best practices guidelines for the rehabilitation and remediation management of water resources.

2. PROJECT DELIVERABLES AND TIMELINES

The project was initiated during the 2020/2021 financial year and it is envisaged to be concluded within 36 months from the date of initiation. The first 12 months of the project (financial year 2020/2021) was used for the planning phase. The planned project deliverables and timelines indicated in **Table 1** below are expected to be conducted in-house, following which an external peer review process will be initiated.

Table 1: Project Deliverables and Timelines (2020/2021-2022/2023)

Component	Deliverables	Directorate	Responsible Official(s)	Estimated Timeframe (months)
	Information Analysis ReportDraft Gap Analysis Report			Jan – Mar 2020
	Draft Project PlanDraft Stakeholder databaseInternal Stakeholder engagement		Mr Samkele Mnyango	Apr – Jun 2020
	Revised Project Plan (Final)	Sources	Ms Tovhowani Nyamande	Jul – Sep 2020
Project Planning	Stakeholder engagement	Directed Studies		Jul – Sep 2020
	Updated stakeholder database	(SDS)		Oct – Dec 2020
	Revised Gap Analysis Report			
	Draft Framework document		Ms Mmaphefo Thwala Mr Samkele Mnyango Ms Tovhowani Nyamande	
	Internal Stakeholder engagement			Jan – Mar 2021
	Framework document (Final)			
	Nomination of Technical Task TeamConvening Project Management Committees		Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Mr Samkele Mnyango Ms Tovhowani Nyamande	Apr – Jun 2021
	External Stakeholder database			Jul – Sep 2021
	Project Steering Committee (PSC) ToR			
Project Inception	Stakeholder engagement	SDS		
	Draft Inception Report			
	External review of the Inception Report			
	Inception Report (Final)			Oct - Dec 2021
	Collate literature review inputs for Situation Assessment Report			
Situation	 Internal Review of the draft Situation Assessment Report 	SDS	Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Ms Tovhowani Nyamande	
Assessment	Updated Situation Assessment Report			Jan - Mar 2022
	Draft Situation Assessment Report			
Development of the Rehabilitation and Remediation Management Guidelines for Water Resources	Collate literature review inputs for Best Practices guidelines (first draft)			
	Draft 1 Rehabilitation and Remediation Management Guidelines Report		Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Ms Tovhowani Nyamande	
	Internal Review of Rehabilitation and Remediation Management Guidelines first daft	SDS		Apr – Jun 2022
	 Draft 2 Rehabilitation and Remediation Management Guidelines Report (Updated with internal inputs) 			
	External Review of Draft 2 Rehabilitation and Remediation Management Guidelines Report			
	Rehabilitation and Remediation Management	SDS	Mr Kgotso Mahlahlane	Jul -Sep 2022

Component	Deliverables	Directorate	Responsible Official(s)	Estimated Timeframe (months)
	Guidelines updated report Document Change Log updated with addressed inputs for internal and external stakeholders External Review of Best Practices Guidelines		Ms Mmaphefo Thwala Ms Tovhowani Nyamande	
	Rehabilitation and Remediation Management Guidelines (Final)			
Guidelines into practice (Program)	 Draft Guidelines into Practice Report (Draft) Internal Review of Draft Guidelines into Practice Report Draft Guidelines into Practice Report (Updated with internal inputs) External Review of Draft 2 Guidelines into Practice Report Guidelines into Practice Report (Final) – updated with external inputs Document Change Log updated with addressed inputs for internal and external stakeholders 	SDS	Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Ms Tovhowani Nyamande	Oct – Dec 2022
Capacity Building	Capacity building report	SDS	Mr Kgotso Mahlahlane	Throughout the project life-cycle
External Review	An external review panel will be identified to review study outputs and deliverables		To be confirmed	Jan 2023
Stakeholder Consultation and Communication	Stakeholder Issues and Responses Register	SDS	Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Ms Tovhowani Nyamande	Throughout the project life-cycle
Project Closure	Project Close-Out Report (Final)	SDS	Mr Kgotso Mahlahlane Ms Mmaphefo Thwala Ms Tovhowani Nyamande	Mar 2023

3. PROJECT STAKEHOLDER ENGAGEMENT PLAN

The development of the Rehabilitation and Remediation Management Guidelines for Water Resources is an in-house project. To this end, DWS will hold internal Project Planning Meetings (virtual or circulation of Project Plan in the form of presentation) to discuss the project plan and delegations/nominations of Sub-Technical Task (Sub-TT), Technical Task Team (TTT), and Project Management Committee (PMC) members to undertake certain tasks/project deliverables. In addition, each Regional Office will be requested to nominate representative(s) to assist with sourcing of related data and/or information within their Water Management Areas (WMA). **Table 2** below indicates a list of nominated TTT members from different Directorates.

Table 2: Nominated Technical Task Team (TTT) Members

Branch Name	Name of Official	Directorate	Director's Name	
Regulation,	Ms Dikeledi Baloyi	Resource Protection & Waste	Ms Raquel Mazwi	
Compliance and	Mr Rendani Ndou	-		
Enforcement	Dr Wietsche Roets	Water Abstraction and In-stream Impact	Ms Zanele Bila-Mupariwa	
	Mr Pieter Ackerman	-		
	Ms Lumka Kuse			
	Ms Naomi Fourie	Agriculture, and Forestry Regulation	Ms Anet Muir	
	Ms Avhabashoni Nefale	Agriculture, and Forestry Regulation		
	Ms Morongwa Seko	Enforcement	Ms Thandi Mopai	
Water Resource	Mr Elijah Mogakabe	Resource Quality Information Services	Ms Thembi Masilela	
Management	Mr Sazi Mthembu			
	Mr Washington Tunha	Implementation Support: Sanitation Macro Planning	Ms Lusanda Agbasi (Acting)	
	Ms Jacqueline Jay	Water Resource Planning: Economic and Environmental Studies	Mr Beason Mwaka	
	Mr Fanus Fourie	Water Resource Planning Systems		
	Mr Stanley Nzama	Reserve Determination: Groundwater	Mr Yakeen Atwaru	
	Ms Joyce Machaba	Reserve Determination: Surface		
	Ms Adaora Okonkwo	Water Resource Classification	Ms Lebogang Matlala	
	Ms Esther Lekalake	Water Resource Classification		
	Mr Lindelani Lalumbe	Surface and Groundwater Information	Mr Zacharia Maswuma	
Water Services Management	Ms Thivhafuni Nemataheni	Water Use Efficiency	Mr Xolani Hadebe	
Chief Operations	Mr Tendamudzimu Rasikhanya	Policy	Mr Siboniso Ndlovu	
Office (COO)	Mr Musawenkosi Kunene	Strategy	Ms Mahadi Mofokeng (Acting)	
	Ms Mahadi Mofokeng			
Regional	Ms Manisha Maharaj	Water Resource Management, Kwazulu-Natal		
Champions	Mr Mmereki Mokgadi	Water Sector Data Management, Northern Cape		
	Ms Shaddai Daniel	Water Resource Protection, Western Cape		
	Mr Adolph Maredi	Water Resource Management, Limpopo		
	Ms Dephney Kabini	Water Resource Management, Free State		
	Ms Rachel Mpe	Scientist Production, North West		

Branch Name	Name of Official	Directorate	Director's Name
	Mr Peet Venter	Scientific Manager, North West	
	Mr Stanford Macebele	Institutional Establishment, Mpumalanga	
	Ms Jeanette Nyama	Institutional Establishment, Gauteng	
	Ms Nombuyiselo Mgca	Institutional Establishment, Eastern Cape	

Table 3 below indicates a preliminary list of nominated PMC members. All the nominated TTT members will also form part of the PMC members in addition to the below list.

Table 3: Project Management Committee (PMC) Representatives

Name of Official	Directorate	Office
Ms Melissa Litnaar-Strauss	Water Resource Protection, Western Cape	Western Cape
Ms Khumbuzile Moyo	Water Use Efficiency: Strategy and Oversight	Head Office
Ms Lusanda Agbasi	Implementation Support	Head Office
Mr William Mosefowa	Resource Protection and Waste	Head Office
Mr Kwazikwake Majola	Reserve Determination: Groundwater	Head Office
Mr Pieter Viljoen	Water Resource Planning Systems: Water Quality Planning	Head Office

External stakeholder consultation will be undertaken with relevant water sector stakeholders in order to solicit inputs and partnerships to achieve the project's objectives. External stakeholders will be expected to participate at platforms such as Project Steering Committee (PSC) and Public meetings, befitting of their expertise. External stakeholders identified to date include, but not limited to:

- Water Research Commission (WRC)
- Council for Scientific and Industrial Research (CSIR)
- Department of Economic Development, Tourism and Environmental Affairs (DEDTEA)
- Department of Cooperative Governance and Traditional Affairs (DCOGTA)
- South African Local Government Association (SALGA)
- South African National Biodiversity Institute (SANBI)
- Mining sector
- Mining Body (Minerals Council of South Africa)
- Agricultural sector
- Industrial sector
- Catchment Management Agencies (CMAs)
- Water Boards

- Public members/NGO's
- Department of Environment, Forestry and Fisheries (DEFF)
- Department of Mineral Resources (DMR)
- Research Institutions (Universities and Academic Institutions)

Figure 1 below, illustrate the composition of the different levels of stakeholder engagement (PMC, PSC, TTT, Sub-TT and Public meetings)

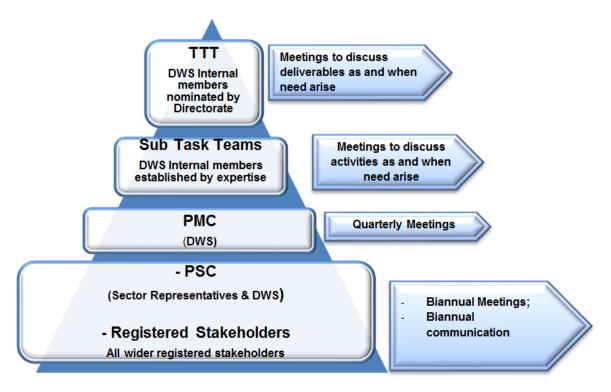


Figure 1: Project Stakeholder Engagement Process

4. CONCLUSON

The project aims to integrate and package various outputs and tools already produced by DWS or associated sector players. Therefore, SDS will liaise with other Directorates such as Reserve Determination, Water Resource Classification, Resource Protection and Waste, Compliance, Monitoring & Enforcement, Water Abstraction and Instream-Impact, Water Use Efficiency, Resource Quality Information Services (RQIS), Strategy and Policy with regards to finalization of the Project Plan and topics to be covered in this Project.