

Sandpiper Project Verification Programme

Volume 2: Appendices

Namibian Marine Phosphate (Pty) Ltd Mining Licence Area No. 170

November 2014





J. Midgley and Associates

DISCLAIMER

This Verification Programme study was coordinated and prepared by J Midgley and Associates in accordance with reasonable professional standards and the terms of the contract agreed to between Namibian Marine Phosphate (Pty) Ltd and J Midgley and Associates.

J Midgley and Associates makes no warranties, express or implied, whether arising by operation of law, course of performance or dealing, custom, usage in the trade or profession or otherwise, including without limitation implied warranties.

The CSIR provided independent review and process quality control services to the Verification Programme study in accordance with reasonable professional standards and the terms of the contract agreed to between Namibian Marine Phosphate (Pty) Ltd and the CSIR.

The CSIR makes no warranties, express or implied, whether arising by operation of law, course of performance or dealing, custom, usage in the trade or profession or otherwise, including without limitation implied warranties.

CONDITIONS OF USE OF THIS REPORT COPYRIGHT © NAMIBIAN MARINE PHOSPHATE (PTY) LTD 2014 ALL RIGHTS RESERVED

© NMP 2014. All rights to the intellectual property and/or contents of this document remain vested in Namibian Marine Phosphate (Pty) Ltd. (NMP). This document is issued for the sole purpose for which it is supplied. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Namibian Marine Phosphate (Pty) Ltd, except in the case of brief quotations embodied in critical reviews and certain other non-commercial uses permitted by copyright law. For permission requests, write to Namibian Marine Phosphate (Pty) Ltd, addressed "Attention: Administration Manager," at the address below.

Email: info@namphos.com
127 Theo-Ben Gurirab Street
Walvis Bay
Namibia

Sandpiper Project Verification Programme

VOLUME 2: APPENDICES

Namibian Marine Phosphate (Pty) Ltd Mining Licence Area No. 170

Application:

This report has been prepared to verify the findings of the NMP Final EIA (Midgley 2012), as submitted to the authorities (April 2012): Ministry of Environment and Tourism. The need for, and scope of, the Verification Programme was detailed in the EMP (Midgley 2012), The scope subsequently was expanded following consultations with MFMR, the Fishing Industry, and the NatMIRC scientists (2012 / 2013).

Report co-ordinated and prepared by:

Mr Jeremy Midgley Pr.Sci.Nat J. Midgley & Associates PO Box 110 Constantia 7806 South Africa

Email: mwjmidg@mweb.co.za

Independent Programme Reviewer and Process Quality Controller:

Mr Patrick Morant Pr.Sci.Nat CSIR PO Box 320 Stellenbosch 7599 South Africa

Email: pmorant@csir.co.za





November 2014

Contents

SECTION D: APPENDICES

1.0 Water Column and Sedimentary Environment

- 1.1: Project Execution Plan: Verification Survey MV DP Star
- 1.2: Cruise Report: Verification Survey MV DP Star
- 1.3: Project Execution Plan: Thiobacteria Survey MV *Snowgoose*
- 1.4: Cruise Report: Thiobacteria Survey MV *Snowgoose*
- 1.5: Project Execution Plan: Core sampling MV Snowgoose
- 1.6: Gravity Core: Analysis requirements
- 1.7: Cruise Report: Core Sampling MV Snowgoose
- 1.8: MSI Instrument Mooring Report: Day 0 to 45
- 1.9: MSI Instrument Mooring Report: Day 45 to 90
- 1.10: CSIR Chemical Analysis Method Statement

2.0 Fisheries and Biodiversity

- 2.1: PEP Biodiversity Survey FV Zeerarend
- 2.2: Cruise Report Biodiversity Survey FV Zeearend
- 2.3: CTD Deployment Report FV Zeearend
- 2.4: Sailing Orders Biodiversity Survey FV Zeearend
- 2.5: Biodiversity Induction Module FV Zeearend

3.0 Geophysics

- 3.1: Geophysical Processing Procedures
- 3.2: Geophysical Habitat Mapping

4.0 Process Documentation

- 4.1: Verification Project Timelines
- 4.2: MFMR Response to the 2012 EIA
- 4.3: Final Scope of the Verification Programme submitted to the Authorities

5.0 Curricula vitae and Terms of Reference

- 5.1: Curricula vitae
- 5.2: Terms of Reference

6.0 Dredging Project Description

6.1: Dredging Operations