

HOLTON, LISA

Name of Organisation: Lwandle Technologies (Pty) Ltd
Profession: Oceanographer
Position in Firm: Senior Marine Scientist
Date of Birth: 12/06/1990
Years with Firm: 4 years
SACNASP No. 100091/5

BIOGRAPHICAL SKETCH

Lisa has a background in the multidisciplinary science of Oceanography, with particular interest in ocean physics. She completed her MSc in 2014 at the University of Cape Town, where her thesis looked at inter-comparing several ocean and climate models on how they reproduce the temporal and spatial variability of the Agulhas Leakage. Prior to that, Lisa was based at the National Oceanography Center in Southampton (UK), where she completed her undergraduate and BSc (Hons) degrees.

Before undertaking her Masters, Lisa worked for the Cape Eleuthera Institute in the Bahamas. Whilst undertaking aquaculture and coral health research projects, she contributed to national fish surveys and BRUV studies of the surrounding coral and seagrass habitats. She took up her post with Lwandle Technologies in November 2014, where she became a member of the scientific team, working as an oceanographer and data analyst. Since joining Lwandle, Lisa has been tasked with increasing the efficiency of the data handling as well as implementing metocean studies and conducting the management and reporting aspects of a variety of marine specialist studies and related field work. These studies have typically focused on defining physical dynamics, marine sediment and water column characteristics as well as seafloor habitat classification to develop live data feeds for compliance management, marine monitoring plans, marine environmental baseline reports and impact assessments for oil & gas, desalination, aquaculture and port developments in Djibouti, Namibia, Mozambique and South Africa.

EDUCATION

MSc Ocean and Climate Dynamics (Distinction) University of Cape Town, Cape Town 2014
BSc (Hons) Oceanography (1st Class) National Oceanography Center, Southampton, 2013

EMPLOYMENT RECORD

2016- current Senior Marine Scientist, Lwandle Technologies, Cape Town, South Africa
2014- 2016 Oceanographer and Data Analyst, Lwandle Technologies, Cape Town, South Africa
2013 Research Assistant, NERC/RAPID Group, Southampton, United Kingdom
2011 Research and Development, DSM Dyneema, CEI, Eleuthera, Bahamas
2010 Aquaculture research manager, Cape Eleuthera Institute, Eleuthera, Bahamas

KEY EXPERIENCE

An abridged list of Lisa Holton's project experience is presented below:

2018 Metocean measurement campaign for desalination plants in False Bay for Proxa Water
2018 Water quality measurement campaign for desalination plants in Cape Town Harbour for Suez
2018 Sediment and water quality baseline study for the CWDP compliance of the OranjeVis processing plant in St Helena Bay for Wayland engineering.
2018 Compilation of a marine water quality and biological monitoring plan and CWDP compliance monitoring of the emergency desalination plant for Advisian on behalf of the City of Cape Town.
2017 Water quality and metocean measurement campaign for desalination plants in Table Bay for Advisian on behalf of City of Cape Town.
2017 Allan Gray desalination plant discharge modelling – Environmental aspects for PRDW on behalf of Allan Gray.
2017 The identification, monitoring and management of pollution at 'hot spots' locations in the BCLME for The Benguela Current Commission.
2017 Desalination outflow ecological assessment for Allan Gray offices, Cape Town
2017 Dredge sediment and disposal site characterisation for a selection of Western Cape small harbours for PRDW, PBPS and Mott Macdonald.
2017 Effluent plume study using Rhodamine dye tracers for Aquunion, Romansbaai Abalone

farm.
2017 Sediment specialist study of the West Coast small harbours for Aurecon.
2016 Plume baseline and monitoring plan for De Beers, Namibia.
2016 Project management of the field survey, data analysis, GIS and reporting for a marine baseline study of the near-shore and intertidal environment for BRM in Djibouti.
2016 Marine specialist study for an aquaculture development, for PHS on behalf of Aquinion, South Africa.
2016 Project management, data analysis and reporting for the bathymetry, side scan and drop camera data report for HATCH, BRM Djibouti.
2016 Time series analysis and reporting for Basil Reed dredge monitoring project, Saldanha Bay.
2015 Environmental survey, data analysis, GIS and baseline reporting for a pipeline development on behalf of SASOL, Mozambique.
2015 Project management of SST buoy deployment and data presentation on behalf of the Institute for Marine Technology in False Bay, Cape Town.
2015 Coral identification guide for the Quirimbas Archipelago, northern Mozambique, on behalf of Anadarko Petroleum Corporation.
2015 GIS mapping for baseline study on behalf of Anadarko Petroleum Corporation.
2015 Data analysis and baseline reporting for a port development, for ERM on behalf of ItalThai, Mozambique.

PUBLICATIONS

Holton, L., J. Deshayes, B. C. Backeberg, B. R. Loveday, J. C. Hermes, and C. J. C. Reason, 2016: Spatio-temporal characteristics of Agulhas leakage: A model inter-comparison study. *Climate Dyn.*, doi:<https://doi.org/10.1007/s00382-016-3193-5>,



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