

CURRICULUM VITAE



NATALIE KOHLER

PRINCIPAL ENVIRONMENTAL AND SOCIAL ADVISOR

Advisory Services, South Africa

QUALIFICATIONS

BSc (Hons) 1996
HED 1999

BSc (Honours) Biological Sciences (cum laude) from University of Natal, Durban (UND)
Post Graduate Diploma (HED), Mathematics and Biology (distinction) from UNISA

CERTIFICATIONS

- Registered EAP
- Member of IWMSA
- Member of IEMA
- MCIWM
- Associate member of IAIA

- Registered Environmental Assessment Practitioner (EAP) with the Environmental Assessment Practitioners Association of South Africa (EAPASA): EAP Registration no. 2019/1388
- Member of the institute of Waste Management of South Africa (IWMSA); Registration no. 20110132 (member for > 10 years)
- Member of the Institute of Environmental Management and Assessment (IEMA)
- Associate member of the International Association of Impact Assessment South Africa (IAIA): Registration no. 6965
- Chartered Member of the Chartered Institute of Waste Management (CIWM): MCWIM Registration no. 1003844 (member for > 20 years)

EXPERTISE

- Waste Management
- Due Diligence
- IFC ESDD & ESAPs
- Environmental Auditing
- EIA / ESIA
- Legislation

Natalie has 19 years consulting experience in mainly Africa and Europe and has led and managed teams across multiple sectors as part of a broad range of projects, including environmental and social impact assessments (ESIA), strategic environmental assessments, feasibility studies and waste management. Natalie has also been involved in a range of environmental compliance (regulatory and corporate standards assessments) and due diligence (DD) audits, as well as assessments in terms of the South African, best practice and International Finance Corporation (IFC) standards.

Natalie has completed numerous projects in Southern Africa (South Africa, Botswana, Mozambique, Namibia), Central Africa (DRC, Zambia), East Africa (Uganda, Tanzania, Kenya, Ethiopia), West Africa (Cameroon, Ghana) and North Africa (Egypt) as well as Europe and the Middle East (UAE), in a variety of sectors including mining, oil and gas, energy/power, infrastructure industrial, waste and agriculture. These projects were conducted in line with, where applicable, corporate standards, national environmental legislations, and/or international requirements.

She is a registered EAP with EAPASA, chartered waste consultant with CIWM, and associate member of the IWMSA, IEMA and IAIA.

LANGUAGES

- English – *fluent*
- German - *fluent*
- Afrikaans - *basic*

PROJECTS

Due Diligence and Auditing – Waste

(Landfill, landfill gas to energy, recycling, treatment, oil recovery, incineration)

<p>World Bank ESDD (2021) – South Africa</p>	<p>Independent environmental and social due diligence (ESDD) of the Averda portfolio of sites in South Africa for World Bank funding. The environmental and social appraisal due diligence included landfill, recycling and incinerator and storage depot sites. The greater ESDD project included sites in the UAE, Qatar, Oman, Saudi Arabia, Congo, Morocco, South Africa, and India.</p>
<p>Confidential (2021) – South Africa</p>	<p>Red flag reporting of landfill gas to energy (LFGTE) DD for five EnerG Systems sites in Gauteng, South Africa. The project included GasSim2 landfill gas resource assessments and environmental compliance assessments.</p>
<p>Anglo-American (2016 – 2021) – South Africa</p>	<p>Waste audits for the Anglo-American Polokwane Metallurgical Smelter Complex’s slag dump Waste Management Licence (WML). Audits have been undertaken annually since 2016 to the present, and still ongoing.</p>
<p>Confidential – Impala EHS DD (2020) – South Africa, Uganda & Mozambique</p>	<p>EHS DD of EnviroServ’s waste management operations in South Africa, Uganda and Mozambique for refinancing. This was undertaken in 2020 on 41 waste sites including landfill, composting and incineration facilities and depots. The DD included project kick-off, telephonic interviews, site visits, red flag reporting, landfill airspace estimates, landfill development, operation to closure and aftercare provisions, assessment of the Group environmental approach as well as health and safety approach, individual site reports, summary report and meetings with senior management.</p>
<p>Total EDD (2020) - South Africa & Mozambique</p>	<p>Environmental audits of 10 waste facilities in South Africa and Mozambique for Total. The compliance audits were undertaken based on waste disposed by Total at various waste facilities including recyclable waste, e-waste, hazardous drill cutting wastes and sludges and storage depot sites.</p>
<p>Oricol ETO DD (2019) – South Africa</p>	<p>Environmental, technical and operational (ETO) DD for Veolia of three Oricol waste facilities in South Africa including recycling, recovery, effluent treatment, liquid alternative fuel and bioremediation operations.</p>
<p>UraMin ETDD (2019) - Namibia</p>	<p>ETDD of the UraMin heap leach mining site at Trekkopje in Namibia for use by Interwaste as a hazardous waste landfill site</p>
<p>KwaDukuza landfill ETDD (2018) – South Africa</p>	<p>ETDD including Phase I and Phase II pollution contamination assessment of surface water, soil and groundwater, as well as water use licence advisory for the DCLM Class A (hazardous) landfill at KwaDukuza in Kwa-Zulu Natal.</p>
<p>Sasol ESA (2017) – South Africa</p>	<p>Environmental independent third-party audits of a Interwaste as the waste management company for Sasol. The ESA included site visits to 10 Interwaste facilities, and assessments of >30 waste streams. Numerous independent third-party audits of Interwaste’s facilities were undertaken in accordance with licensing requirements and assessments of environmental monitoring data</p>
<p>Sasol ESA (2017) – South Africa</p>	<p>Environmental independent third-party audits for Sasol Secunda’s WML requirements including waste treatment facilities, waste ash dumps and landfills (2016 and 2017).</p>

Wasteman ETDD (2015) – South Africa	ETDD acquisition for Averda in Southern Africa on the Wasteman Group portfolio in 2015. The environmental, technical and operational DD included landfills, incineration facilities, fleet vehicles and numerous other assets, human resources and management operations.
A-Thermal ETO DD (2015) – South Africa	ETO DD was undertaken for Averda of a waste facility in Gauteng that treats medical and pharmaceutical waste by incineration and pyrolysis.
Samacor WML audit (2015) – South Africa	Waste audit for Samancor Chrome Ltd – Ferrometals in terms of the ECA S20 Licence of the slag disposal site.
NEF ETDD (2014) – South Africa	ETDD of the Danhauser Health Care Risk Waste Treatment Facility Pre-Feasibility Study including hydroclave and macro burn incinerator technologies in north KZN.
ACE DD (2012) – South Africa	Due diligence for insurance company (ACE) of the EnviroServ portfolio in South Africa including an assessment of all technical aspects.
EnerG Systems IFC DD (2012) – South Africa	Phase 1 auditing, lender advisory DD according to IFC standards and Equator Principle review, gas resources assessments for landfill gas to energy projects at 12 landfill sites across South Africa (2012 and ongoing support). This DD was done for financing by Nedbank of EnerG Systems.
	Due Diligence and Auditing – Mining
TNCL (2023) - Tanzania	Independent Sustainability Consultant covering health, safety, security, environment, social and human rights performance according to E&S international finance standards to develop the ESDD and ESAP (Equator Principles, IFC PS, World Bank) for a nickel, cobalt and copper mine and multi-minerals processing facility in Tanzania.
Rio Tinto Iron Ore Atlantic Limited (2022) - Guinea	Health, Safety, Security, Environmental and Social (HSSES) performance and human rights due diligence (DD) of the rail-to-port (infrastructure components) construction activities of the Simandou Project in Guinea. ESDD and EASP undertaken according to General Environmental, Social and Governance (ESG) Standards and international IFC requirements.
Metallon ESDD (2020) - DRC	Desktop ESDD according to IFC requirements and independent technical review for Metallon Corporation of the Adidi-Kanga Gold Project situated within a block of eleven Permis d’Exploitation (PE) covering ~4500 km ² within the Ituri Province of the north-eastern DRC.
Confidential (2011) - Senegal	Project reviewer for due diligence audit of a coastal dune mining operation in Senegal.
GBG EDD (2010) – South Africa	Environmental review with reference to Equator Principles and IFC Performance Standards for Great Basin Gold (GBG) near Delmas, Mpumalanga.

	Due Diligence – Renewable Energy (Solar and Wind)
Camco ESDD (2023) – Africa	ESDD and ESAP according IFC PSs, WB EHS Guidelines (General and for Wind Energy), ILO Core Conventions and Basic Terms and Conditions of Employment; and 2X Challenge, for the Wind Garden project located in the Eastern Cape of South Africa.
Confidential (2023) – Kenya and South Africa	ESDD and ESAP to IFC PSs, national requirements, Sustainable Development Goals (SDGs), International Labour Organisation (ILO) and GIIP of development partners in Kenya, South Africa, Uganda, Ghana and Nigeria of a renewable energy company for Funders.
Globeleq Africa Limited (2022) – South Africa	Environmental and Social Due Diligence (ESDD) of three proposed 140 MW wind energy facilities (WEFs) namely Khabasi North, East and West, with associated transmission powerline bordering the eastern and western Cape. ESAP undertaken according to national regulations, protocols and guidelines, and IFC PSs.
EDF (2022) - South Africa	ESDD of three wind energy facilities (WEFs) namely Cloeskop, San Kraal and Phezukomoya undertaken according to national regulations, protocols and guidelines, and IFC PSs.
	Due Diligence and Auditing – Manufacturing (Printing/packaging, pharmaceutical, IT, chemicals, agrichemical, engineering, automotive, food and electronics manufacturing)
IFC (2022) – Tanzania and Kenya	IFC DD for the investment and expansion of Kamal Steel that has sites in Cape Town, South Africa and Dar es Salaam, Tanzania. ESAP according to local and international laws, Good International Industry Good Practice (GIIP), Equator Principles (EPs), IFC Performance Standards (PSs), relevant WB and IFC Environmental, Social, Health & Safety Guidelines
Confidential Helix EHS DD (2021) – South Africa	EHS red flag due diligence of aluminium rolling and casting manufacturing sites in Richards Bay and Pietermaritzburg, KZN for Norton Rose on behalf of Ta Chen.
Servier PSCI Audit (2021) - Egypt	Desktop Pharmaceutical Supply Chain Initiative (PSCI) audit with remote video site walkover of Servier in Egypt for Sanofi based on management, social / ethics, environment and health and safety aspects
Biovac PSCI Audit (2020) – South Africa	PSCI audit of the Biovac in Cape Town for Sanofi based on management, social / ethics, environment and health and safety aspects.
Pfizer ESA (2020 and 2015) – South Africa	Divestiture environmental site assessment (ESA) of the Pfizer head office building in Sandton, Gauteng. Evaluate the potential for environmental impacts of the site’s activities involving the storage, transfer, use, treatment or on-site disposal of chemicals, raw materials, intermediates, products, and waste.
Apple EDD (2020) – South Africa	Phase I and Phase II Environmental Due Diligence (EDD) of a target site for Apple in East Quay, Cape Town.

Ford EDD (2015-2020) – South Africa	EDD auditing for the automotive industry of at sites in East London and Waltloo, Gauteng for Ford, via site visits, telephonic interviews, and data room research.
AkzoNobel ETDD (2019) – South Africa	Environmental and technical due diligence (ETDD) review for AkzoNobel of the Venator site in Umbogintwini, KwaZulu Natal.
Confidential - Ivalo EHS DD (2019) – South Africa	Environmental Health and Safety (EHS) red flag report and due diligence site visit of the Lanxess site in Newcastle, KwaZulu-Natal for the vendor, Brother Holdings (Hong Kong)
Volvo EDD (2019) – South Africa	Due diligence auditing and environmental compliance auditing for Volvo in Roslyn in Pretoria Africa, via site visits, telephonic interviews, and data room research.
Profert ESA DD (2018) – South Africa	Phase I ESA DD, including a contaminated land assessment (CLA), on three agricultural processing Profert sites in South Africa located in Ventersdorp, Bothasville and Durban for ETG Group of Companies.
Confidential - Lotus EDD (2018) – South Africa	EDD of joining and roll forming technology, automotive engineering sites in East London and Port Elizabeth for Linde & Wiemann.
Confidential - Columbus & Marco Polo VEDD (2016 and 2018) – Europe, USA, Asia & Africa	Global vendor environmental due diligence (VEDD) covering 16 countries (Germany, France, Austria, Poland, Denmark, Italy, Spain, Turkey, the UK, Belgium, South Africa, Mexico, USA, Russia, India and Vietnam) during two VEDD divestments for CFlex's labels and packaging divisions during in 2016 and 2018.
Confidential - Cabernet Sauvignon EDD (2015) – Kenya, UAE & South Africa	EDD for the acquisition of packaging and labelling companies for Constantia Flexibles (CFlex). EDD of numerous sites located Kenya (Dilpack, Afriflex and GPL, Nairobi), United Arab Emirates (UAE) and South Africa (ACF KZN Mahogany Ridge, AIF Sacks and Coating Mobeni, ACF Labels Pinetown, Afripack Brits, Spear Boksburg), working with the legal and financial advisors (2015).
Chemipharm PSCI Audit (2018) - Egypt	PSCI audit of Chemipharm in Egypt for Sanofi based on management, social / ethics, environment and health and safety aspects
Sukuma ECO (2018 – 2021) – South Africa	Independent review of the Environmental Control Officer (ECO) reporting of the Internal and external construction works from the City of uMhlatuze Municipality Sukuma Consulting Engineers from 2018 to 2020.
Speddick ESA (2018) – South Africa	Phase I ESA of Speddick Industrial Tyres in Riverside, Durban for Camso.
Confidential – Ferrari EDD (2016) - Serbia & Italy	EDD of two printing and packaging sites in Serbia and Italy.
Athi Steel EHS DD (2014) – Kenya	Environmental, Social and Health and Safety Audit of Athi River Steel Plant for Swedfund. The audit was undertaken in terms of compliance with Kenyan legislation, Swedfund's Policy for Sustainable Development to identify risks and mitigation, as well as recommendations for improvement.
Confidential – Trident ESA (2014) – South Africa	Phase I ESA of the SPEAR packaging company located in Boksburg.

Eaton ENHSA (2013) – South Africa	ENHSA auditing for Eaton of their engineering manufacturing site in Midrand, Gauteng. The audit included the company corporate standards and a detailed asbestos survey and inventory.
General Mills EHS (2012) – South Africa	EHS audit in accordance with legislation and corporate requirements of General Mills, a food manufacturing site, in Linbro Park, Gauteng.
Loreal EDD (2011) – South Africa & Zimbabwe	Environmental compliance auditing of Loreal in the Southern Africa including Zimbabwe.
Dulux EDD (2011) – South Africa	EDD audits of Dulux, a leading manufacturer of household electrical appliances, across five sites in South Africa.
SPX EDD (2011) – South Africa	Environmental audit to identify current and historic recognized environmental conditions (RECs) of the SPX Flow Technology, Midrand facility.
RNRF DD (2011) – South Africa	Independent lender technical advisor (LTA) of the Rainbow Nations Fuels (RNRF) soybean crushing plant in the IDZ of Coega.
Due Diligence and Auditing – Oil and Gas	
Beluluane Gas Company (2022) - Mozambique	ESDD and Post-Closure Environmental and Social (E&S) monitoring for the financing of Beluluane Gas Company (BGC) developing an LNG import terminal in Matola Port, Mozambique. ESDD identified against international law and treaties ratified in Mozambique, applicable EP and IFC PSs, WB guidelines, and industry specific best practice.
NOV EHS (2017) – South Africa	EHS audits for oil and gas depots in Southern Africa including assessments of air, water, land and waste environmental data and reporting for acquisition and closure reporting of Westpro Pumps for NOV in Algoa Cape Town.
Confidential (2008) - UK	EDD of four salt deposit and gas cavern storage sites for use as gas storage facilities in the UK for an American major oil and gas company. Work included legislative review, current planning permitting status, review of ES, EIA and scoping reports, environmental status and landmark desk-based search. Data room and drive by for due diligence of 22 oil production sites in the UK for an American oil and power company for potential takeover bid or acquisition of sites.
Environmental Impact Assessment (EIA)	
V&A Waterfront Holdings BA (2022) – South Africa	Basic Assessment (BA) to inform the Waste Management Licence (WML) and an Atmospheric Emissions Licence (AEL) for the development of a waste-to-energy pyrolysis plant using general waste at the Victoria and Alfred (V&A) Waterfront in Cape Town, South Africa.
Eskom Solar BA (2020) - South Africa	BA for the Environmental Authorisation (EA) of the Eskom Holdings solar photovoltaic (PV), battery energy storage system (BESS) and telecommunications tower at two sites 80km apart in the Mier, Rietfontein of the Northern Cape.
Saipem LNG EIA (2020) - South Africa	EIA for a new onshore small scale liquified natural gas (LNG) storage and regassification terminal to be located in the Port of Richards Bay.

Vopak Dbn tank farm BA (2020) - South Africa	Section 24G application for the increase in tank capacity of Vopak’s Efficiency (Growth 4) expansion project in Durban.
Vopak RB tank farm BA (2020) - South Africa	EA application in respect of a Part 1 amendment to its EA for the proposed Vopak Reatile Terminal Richards Bay Bulk Liquid storage and handling facility.
Bushveld Solar BA (2020) - South Africa	Basic assessment and Part 2 amendment for the 2.5 MW solar and 1 MW battery storage development of Bushveld Energy at the Vametco vanadium mining complex in the Northwest Province.
Red Rocket Solar ESIA (2018) - Zambia	ESIA for two solar PV plants at Bulemu East & West in Zambia for Building Energy (now known as Red Rocket). The ESIA involved extensive ecology studies and stakeholder engagement as well as grave relocations and RAP study. The Project was awarded as part of the GETFit programme and was submitted successfully to ZEMA.
Lanele tank farm EIA (2018) – South Africa	EIA for the development of a tank storage and blending facility in Ambrose Park, Near Durban Harbour engineered by ThyssenKrupp. The EIA includes 14 specialist studies including surface water, groundwater, geology, air quality, noise, visual, heritage, wetland, terrestrial and aquatic ecology, estuarine and mine, socio-economic, waste and soil and land use capability studies.
Natcos BA (2018) – South Africa	BA process up to and before announcement to I&APs of the Natcos crude oil replacement pipeline in Prospecton Durban, engineered by Fluor Igoda projects.
Scaw Union Junction BA (2012) – South Africa	BA process for the reprocessing of the Scaw Union Junction foundry waste including extensive waste characterization studies.
Amadwala landfill EIA (2013) – South Africa	EIA for the development of an integrated hazardous waste facility between Gauteng and Mpumalanga for Interwaste. The facility included a hazardous Class A landfill facility, treatment and recycling plant as well as sorting and reception and outgoing areas. The EIA includes 13 specialist studies including surface water, groundwater, geology, air quality, noise, visual, heritage, wetland, terrestrial and aquatic ecology, socio-economic, waste and soil and land use capability studies.
Delonex EIA (2013) - Chad	EIA addendum to supplement the completed Baseline and Environmental Management Plan Update for Seismic Surveying and Drilling in Block H, Chad. The project included addressing aspects of well testing and well suspension in the project description, impact assessment, and environmental management plan to comply with international best practice.
Scaw Dimbaza BA (2012) – South Africa	BA process for the Scaw decommissioning of the hazardous landfill and foundry site near King Williams Town.
Scaw Leo BA (2012) – South Africa	BA process for the Scaw Leo scrap metal facility in Germiston.
Scaw Eclipse East & West BA (2012) – South Africa	BA process for the Scaw Eclipse East and West scrap metal facility in Germiston.
Enviroil WML (2011) – South Africa	WML application for the storage, recycling and treatment of oily wastes for Enviroil in Wadeville, Gauteng

Harsco WML (2011) – South Africa	Expansion of existing licensed waste management facilities at Harsco Metals site in Krugersdorp. A full EIA process was undertaken during 2011 and 2012 in support of the WML, which was issued in 2013.
Scantago ESIA (2011) – Togo	ESIA of Scantago clinker plant for Heidelberg Cement in Tabligbo Togo.
	Waste Specialist Studies
American Tower Corporation (2023) – 7 countries in Africa	Environmental training (online) for telecommunications infrastructure options according to GIIP, to the personnel of ATC's African markets in Burkina Faso, Ghana, Kenya, Niger, Nigeria, South Africa and Uganda.
EnviroServ (2023 – ongoing) – South Africa	Senior Waste Project Manager and Advisory to EnviroServ. Undertake all waste consulting work for EnviroServ on a project and ad hoc basis for all company sites in South Africa, Mozambique and Uganda. Join quarterly technical company meetings.
Tshipi Mining (2023) – South Africa	Waste assessment, strategy and assessment of environmental compliance of the Tshipi manganese mine in the Northern Cape.
KFW Ex post waste evaluation (2022) – South Africa	Independent Ex-post evaluation of the KFW Advanced Integrated Solid Waste Management (AISW) Project for the DEFF (now the DFFE) including the expanded Public Works Programmes (EPWP) and GIZ. Waste sites included the Rustenburg Local Municipality (RLM) Waterfall landfill; and Impendle, Umgeni and Umshwati buy-back centres in uMgungundlovu District Municipality (UMDM) assisted by the DEFF expanded public works programme (EPWP) and Icando from 2006.
Swedfund (2022) - Zambia	Zambia Railway Line (ZRL) ESIA Waste Specialist study with a waste management plan in Zambia for the integrated ESIA submission to ZEMA. The Waste Study was undertaken according to local Zambian legislation, international IFC requirements and best practice standards.
Shell Downstream South Africa (Pty) Ltd (2022) – South Africa	Shell Three Sisters UltraCity WMP and short, medium and long terms waste strategy. The site generates and handles recyclable, mixed general waste, organic garden and kitchen waste, restaurant food and packaging waste, hazardous wastes from the workshop, grid screening and sludge waste from the wastewater treatment plant at a remote location of Beaufort West in the Western Cape.
Kamoa Waste Procedures (2021) – DRC	Develop and update of Waste Management, Hazardous Substance Control and Materials Safety Data Sheet (MSDS) Procedures for Kamoa Copper SA in the DRC aligned to internal company policies and procedures.
Royal Bafokeng waste scats exclusion (2021) – South Africa	Motivation application to DFFE for Royal Bafokeng Platinum's scats waste from platinum mining and concentrator plant processing to be excluded from the definition of waste in terms of GN R. 715 "Regulations Regarding the Exclusion of a Waste Stream or a Portion of a Waste Stream from the Definition of Waste" to be used in construction and brick making.
AECI waste ash exclusion (2020) – South Africa	Motivation application to DEA for AEL Intelligent Blasting (AEL), a business of AECI Mining Solutions (AECI), to exclude fly ash from the definition of waste in terms of GN R. 715 "Regulations Regarding the Exclusion of a Waste Stream or a Portion of a Waste Stream from the Definition of Waste" to be used in road construction and brick making.

<p>GIFA Feasibility Study of Alternative Waste Treatment Technologies in the City of Tshwane (2013-2020) – South Africa</p>	<p>Lead advisor for technical, financial, and legal for the Feasibility Study on Alternative Waste Treatment Technologies for the City of Tshwane. Project phases included municipal solid waste, sewage sludge, abattoir and electronic waste for recycling, treatment (AD and composting) and waste-to-energy. Project phases include status quo, market and needs analysis, waste characterisation, waste flow modelling and life cycle assessment, technology applications, site identification, conceptual designs, environmental screening, stakeholder engagement, legal regulatory assessment, options analyses for financial modelling, risk assessment, financial modelling, project plan and procurement.</p>
<p>DEA State of Waste (2019) – South Africa</p>	<p>Compile the First South African State of Waste Report on Behalf of the Department of Environmental Affairs (DEA) from 2018 to 2019.</p>
<p>Royal Bafokeng WMP (2019) – South Africa</p>	<p>Waste Management Plan (WMP) and waste strategy for the non-mining waste at Royal Bafokeng's three mines namely, Rasamone, Styldrift and Maseve in North West province in South Africa.</p>
<p>Exxaro Waste Specialist Opinion (2019) – South Africa</p>	<p>Waste specialist opinion and strategic advice for the Grootegeluk dump 6 mining residues, preliminary environmental risk assessment,</p>
<p>KCC WMP (2018) – DRC</p>	<p>WMP and waste strategy for the non-mining waste at Kamoto Copper and Cobalt (KCC) mine, a subsidiary of Glencore, in the DRC.</p>
<p>Lake Albertine O&G WMP (2017) – Uganda</p>	<p>WMP and waste strategy for the oil and gas and waste sector along the lake Albertine exploration and production blocks of Uganda for including CNOOC, Total and Tullow.</p>
<p>DPM Landfill Site Selection (2015) – Namibia</p>	<p>Site selection including fatal flaws assessment, GIS mapping, environmental screening and ground truthing for a new hazardous landfill site for Dundee Precious Metals near Tsumeb, Namibia.</p>
<p>Hulamin Waste to Energy Study (2015) – South Africa</p>	<p>Strategic waste and energy supply options study for the Hulamin sites in Camps Drift and Edendale, Pietermaritzburg.</p>
<p>WtE Advisory Support (2014) – South Africa</p>	<p>Waste technology applications advisory of the Waste-to-Energy (WtE) performance for West Rand and Sedibeng projects funded by GIFA.</p>
<p>Sasol Waste Study (2014) – Mozambique</p>	<p>Waste Specialist Study in support of the EIA process for the integrated PSA Development and LPG Project for Sasol Petroleum in Mozambique. The project included gas and oil wells, flowlines, the 5th gas train (PSA Gas Project), PSA liquids and LPG Plant and Standalone LPG plant</p>
<p>Exxaro Arnot Waste Advisory (2014) – South Africa</p>	<p>Legal permitting requirements and advisory support for waste sites at Arnot including Shaft 8, 10, Central Plan, Strathrae areas.</p>

<p>Lanele Biofuels Feasibility Study (2013) – South Africa</p>	<p>Feasibility study (before EIA) for a waste to cellulosic ethanol biorefinery and biogas using wood waste and municipal solid waste. The study includes the following main themes and study areas: feedstock and product, technology, site location, environmental regulatory requirements and CDM, financial assessment and project planning.</p>
<p>Uzbek Waste Study (2013) – Uzbekistan</p>	<p>Waste Specialist Study for the Uzbekistan Gas to Liquid (UZGTL) The ESHIA project was a Joint Venture (JV) between Sasol Synfuels International (SSI), Petronas and Uzbekneftegaz (UNG) to develop a GTL facility in the Gouzar District, Kashkadarya Region, Republic of Uzbekistan.</p>
<p>Tulu Kapi Waste Study (2012) – Ethiopia</p>	<p>Waste Specialist Study for the Tulu Kapi Gold Mine ESIA in Ethiopia. The study was one of the specialist studies required for the ESIA process of the application for external bank funding for the project for Nyota Minerals.</p>
<p>Tulu Kapi Waste Study (2011) – Ethiopia</p>	<p>Technical review of the WMP for the Tulu Kapi Gold Mine ESIA in Ethiopia.</p>
<p>Dynamo Waste Advisory (2010) – Lesotho</p>	<p>Waste advisory support for sludges generated at the following five textile factories: CGM/Presitex, Nieng Hsing/Global and C&Y in Lesotho.</p>
<p>PUBLICATIONS</p>	
<p>2022</p>	<p>State of Waste of South Africa – Good News Stories (October 2022) IWMSA, WasteCon.</p>
<p>2019</p>	<p>Renewable Energy from Waste, Wastecon 2019</p>
<p>2016</p>	<p>Opportunities and Challenges in Biomass to Biofuels in South Africa, Wastecon 2016</p>
<p>2013</p>	<p>The Potential for Waste-to-Energy from Household Waste in Gauteng, South Africa, Sardinia 2013.</p>
<p>2012</p>	<p>Sustainable Development, Climate Change, and Waste-to- Energy from Municipal Solid Waste in Gauteng, WasteCon 2012.</p>
<p>2012</p>	<p>Exploration of New Waste Treatment Methods in South Africa, Engineering News August 2012.</p>
<p>2011</p>	<p>Developing Landfill Gas to Energy Systems in South Africa, Sardinia 2011.</p>
<p>2006</p>	<p>Has the Implementation of the Landfill Directive in the 15 Member States of the European Union encouraged a move to a Sustainable Landfill, CIWM Stratford 2006.</p>
<p>AWARDS</p>	

Sustainability Award (2012)

Sustainability Award Winner for Alternative Waste to Energy project, January 2012.



Matthew is a Technical Director with SLR's International ESIA team, currently based in the United Kingdom. Matthew has over 17 years' experience as an Environmental Assessment Practitioner within the environmental consulting field. He is well versed in the authorisation and compliance requirements of environmental legislation in south African countries and has an expanding body of experience with international lender's environmental and social risk management requirements.

He has managed a wide range of licensing projects including environmental authorisations, water use license and waste management license applications, mainly in the oil and gas exploration, waste management, mining, industry and electricity generation sectors. His role included project management and co-ordination; specialist and engineering team management; environmental impact assessment; and co-ordination, facilitation and undertaking of stakeholder engagement processes, including for contentious projects.

Over the past few years Matthew's focus has been on assisting clients in the waste management and oil and gas sectors. Matthew has growing involvement in environmental and social risk management in terms of the World Bank/IFC performance standards for projects around Africa.

Matthew holds an MSc (Conservation Biology) degree from UCT, is SACNASP registered as a Professional Natural Scientist (Pr.Sci.Nat) - Environmental Science (400155/17), and is a Registered Environmental Assessment Practitioner (2019/1107) in South Africa.

A sample of Matthew's project experience, summarised by sector, is provided below.

Education

- MSc (Conservation Biology), with distinction, from University of Cape Town (2001)
- BSc (Agriculture) in Wildlife Science, with Zoology major, from University of Natal (1999)

Project Experience

Infrastructure

AFD – Expansion of Madaba Wastewater Treatment Plant, Jordan (2023)

The Jordanian Ministry of Water and Irrigation, with support from the United States Agency for International Development (USAID) is proposing an Expansion of Madaba Wastewater Treatment Plant (WWTP).

SLR undertook a review of the ESIA, on behalf of the Agence Française de Développement (AFD), in terms of the requirements of the World Bank Group's Environmental and Social Standards.

Interwaste –Hazardous Waste Management Facility, Namibia (2023-ongoing)

Interwaste is considering the development of a Waste Management Facility that could address the regional needs of waste generators in Namibia with respect to the treatment and disposal of hazardous wastes.

Matthew is the SLR project director for an Environmental, Social and Engineering screening study which has the aim of identifying a potentially suitable land parcel for further detailed design and Environmental Impact Assessment.

Interwaste – Wesco Integrated Waste Management Facility, Cape Town (2022-ongoing)

Interwaste intends to make application for the authorisations required for the Wesco Waste Management Facility that could address the regional needs of waste generators, including the City of Cape Town and other municipalities, with respect to the handling, recycling, treatment and disposal of both general and hazardous wastes.

Matthew is the SLR project director for the Environmental Impact Assessment process required to inform the applications for environmental authorisation made in terms of NEM:WA and NEMA, and an application in terms of the NWA.

Ministry of Local Government, Uganda – Rural Development and Food Security in Northern Uganda (2022-2023)

KfW has established a Financial Cooperation agreement with the Ministry of Local Government of the Republic of Uganda to finance road and market infrastructure upgrades. The project aims to reduce poverty and improve food security and climate resilience through enhanced productivity and agricultural incomes for the rural population of northern Uganda.

Matthew is project managing the development of an Environmental and Social Management Framework to provide guidance for the appraisal and management of environmental and social risks and impacts of the proposed project interventions.

EnviroServ Waste Management – Expansion of Holfontein Waste Management Facility, Gauteng (2022-ongoing)

EnviroServ intends to make application for the authorisations required for the Expansion of their Holfontein Waste Management Facility.

Matthew is the SLR project director for the Environmental Impact Assessment process required to inform the applications for authorisation made in terms of NEM:WA and NEMA, and an application in terms of the NWA.

V&A Waterfront – Waste-to-Energy Pyrolysis Plant, Cape Town (2022-2023)

The V&A Waterfront has proposed the establishment and operation of a waste to energy Pyrolysis plant at the V&A Waterfront, Cape Town.

Matthew is the SLR project director responsible for the Basic Assessment process required to inform the application for a waste management licence made in terms of NEM:WA, and an atmospheric emissions licence in terms of the NEM:AQA.

Propav Infrastructure Limited – Rehabilitation of Three Roads, Zanzibar (2022-2023)

Propav Infrastructure Limited is engaged with the Revolutionary Government of Zanzibar to source financing and undertake the rehabilitation and upgrading of three roads on the islands of Unguja and Pemba. Propav commissioned the preparation of a Supplementary Lender Information Pack (SLIP) to address material environmental and social risks, identified during an Environmental and Social Due Diligence.

Matthew project managed the development of the SLIP, including various specialist studies and an ESMP, to complete Propav's financing package for presentation to international financial institutions.

Magil Construction Company – Eastern Entrance to Douala Road Rehabilitation, Cameroon (2022)

Magil is appointed by the Government of Cameroon to construct the road upgrade for the Eastern Entrance to Douala. A lender requirement is for independent audits of environmental and social performance during construction.

Matthew undertook an audit of the project's environmental and social performance against the ESMS, construction ESMP and related plans.

Magil Construction Company – Completion of the Olembe Sports Complex, Yaounde, Cameroon (2022)

Magil is appointed by the Government of Cameroon to complete construction of the Olembe Sports Complex in Yaounde. A lender requirement is for independent audits of environmental and social performance during construction.

Matthew undertook an audit of the project's environmental and social performance during completion of Phase 1, against the ESMS, construction ESMP and related plans.

Peace Parks Foundation – Malawi Zambia Transfrontier Conservation Area Project (2021-2022)

KfW has established a Financial Cooperation agreement with Malawi Zambia Transfrontier Conservation Area project for infrastructure and physical interventions required to support park management and encourage active integration of the local population. The project is managed by the Peace Parks Foundation.

Matthew project managed the review, amendment and completion of an Environmental and Social Management Framework to provide guidance for the appraisal and management of environmental and social risks and impacts of the proposed project interventions.

Ministry of Environment, Forestry and Tourism– Integrated National Park Management II, Namibia (2021-2022)

Phase V of the Namibia National Parks Programme (NamParks), executed by the MEFT and co-financed by the Federal Republic of Germany (KfW), has the objective ensure sustainable management and fair access to resources within the four Coastal National Parks, such that biodiversity conservation and living conditions of neighbouring communities are improved. NamParks V will include a range of infrastructure interventions.

Matthew project managed the development of an Environmental and Social Management Guidance Document to specify how environmental and social risks and impacts of individual infrastructure components are to be assessed and managed in accordance with respective standards.

EnviroServ Waste Management - Chlookop Landfill Site, Midrand (2021-2022)

EnviroServ applied to amend the waste management licence for their Chlookop Landfill Site to allow for operations beyond the currently specified end-date.

Matthew was the Environmental Assessment Practitioner responsible for the assessment process required to inform the application for variation of the waste management licence made in terms of NEM:WA. Support was provided on an appeal of the licence decision.

Quidencia Investments – Thornridge Waste Park (2021-2022)

Quidencia Investments has proposed the development of a waste recycling and disposal facility at their property Thornridge in Cato Ridge, KwaZulu-Natal.

Matthew was the reviewer responsible for management of SLR's inputs to the Environmental Assessment process required to inform the application for a waste management licence made in terms of NEM:WA and other approvals in terms of NEMA and NWA. The project was suspended by the applicant.

KfW Development Bank – Sustainable Urban Development in Namibia (2020-2022)

KfW has established a Financial Cooperation project with Development Workshop Namibia for poverty-oriented development of infrastructure in urban areas to sustainably improve the living standard of the people living in informal settlements.

Matthew project managed the development of an Environmental and Social Management Framework to provide guidance for the management of environmental and social risks and impacts of the proposed project interventions.

Magil Construction Company – Eastern Entrance to Douala, Cameroon (2020-2021)

Magil is appointed by the Government of Cameroon to design and construct the road upgrade for the Eastern Entrance to Doula. An EIA had previously been completed to meet local legislative requirements.

Matthew project managed the review (Gap Analysis) of the local EIA and development of an ESIA to in terms of the IFC Performance Standards, as required by the lenders.

Lund Consulting Engineers – NamParks V Infrastructure, Namibia (2020-2021)

Phase V of the Namibia National Parks Programme (NamParks), executed by the MEFT and co-financed by the Federal Republic of Germany (KfW), intends to develop/upgrade park management infrastructure at six stations within the Coastal National Parks.

Matthew was the Environmental Assessment Practitioner responsible for the six EIA processes required to inform the applications for Environmental Clearance Certificates of the park management infrastructure.

EnviroServ Waste Management - Chloorkop Landfill Site, Midrand (2019-2022)

EnviroServ applied to expand the footprint of their Chloorkop Landfill Site to enable ongoing disposal of general wastes.

Matthew was the Environmental Assessment Practitioner responsible for the Basic Assessment process required to inform the application for a waste management licence made in terms of NEM:WA, and an application in terms of the NWA. Support was provided on an appeal of the licence decision.

EnviroServ Waste Management – Four Hazardous Landfill Sites, South Africa (2019)

Review, update and compilation of Environmental Management Programmes (EMPr) for four operational hazardous landfill sites.

Matthew authored the EMPr documents.

HHO Consulting Engineers (Pty) Ltd for SANRAL - Upgrading of N1 Section 18 (2017-Ongoing)

EIA and compliance monitoring for the widening of the National Route 1 Section 18, between Heuningspruit and Koppies, Free State Province.

Matthew was the reviewer responsible for oversight of the environmental authorisation application, Basic Assessment process and water use licence application.

Gibb Engineering & Architecture (Pty) Ltd (Gibb) for SANRAL – Upgrading of N2 Section 18 (2017-2022)

EIA and compliance monitoring for the widening of the National Route 2 Section 18, including road upgrade and material sourcing, between Viedgesville and Mthatha, Eastern Cape Province.

Matthew was the reviewer responsible for oversight of the environmental authorisation application, Basic Assessment process and water use licence application.

NamWater - Desalination Plant and Water Carriage System (2019-2020)

The Namibia Water Corporation Limited is undertaking a Feasibility Study for the development of a Desalination Plant and Water Carriage System, to secure water supply to the central coastal area of Namibia and Windhoek, as well as en-route users.

Matthew provided technical support to the Environmental Assessment Practitioner team responsible for undertaking the Scoping process required to inform the application for an Environmental Clearance Certificate in terms of Namibia's EMA.

Sun International – Pyrolysis and Ash to Brick Plant (2018-2019)

Sun International Limited proposed the establishment and operation of a waste to energy Pyrolysis plant and Ash-to-Brick plant at its Sun City resort in the North West Province.

Residual general waste and certain hazardous wastes will be recovered at the Pyrolysis plant to generate approximately 100 kW of electricity for the resort.

Matthew was the Environmental Assessment Practitioner responsible for the Basic Assessment process required to inform the application for a waste management licence made in terms of NEM:WA and an atmospheric emissions licence in terms of the NEM:AQA.

RHDHV for Quidenica Investments – Thornridge Waste Park Conservancy (2018)

Quidenica Investments has proposed the development of a waste park on a property at Cato Ridge, KwaZulu-Natal.

Matthew provided environmental inputs into an initial desktop environmental screening of the property and subsequent Master Plan development.

Dundee Precious Metals - Tsumeb Smelter, Namibia (2017)

As part of plans to increase the capacity of the Tsumeb Smelter, Dundee Precious Metals appointed SLR to provide a high-level overview and opinion on current waste management strategies and operational procedures at the Tsumeb Smelter, including for both general and hazardous waste.

Matthew managed the project which included the assessment of waste management strategies relative to national and international legislation and a review of current waste management practices and impacts of managed and unmanaged wastes at the site.

EnviroServ Waste Management - Holfontein Extension: Integrated Waste Management Facility, Gauteng (2014-2017)

EnviroServ intended to expand the facilities at their Holfontein Hazardous Waste Disposal Facility to include a range of additional disposal, recycling, recovery and treatment activities for both general and hazardous wastes. The project was withdrawn.

Matthew was the Environmental Assessment Practitioner responsible for the integrated Scoping and EIA process required to inform the applications for authorisation made in terms of NEMA, NEM:WA, NWA and NEM:AQA.

EnviroServ Waste Management - Shongweni Landfill Site, Durban (2012-2017)

EnviroServ own and operate the Shongweni Landfill Site in terms of a waste management licence. EnviroServ made application to the Department of Water and Sanitation for a water use licence in terms of the NWA.

Matthew was the project manager responsible for the integrated water use licence application made in terms of the NWA.

Power

Power Diamond Transmission Partners – Hornsea Two Transmission Assets, UK (2023)

Diamond Transmission Partners (DTP) has been selected through the Offshore Transmission Owners bidding process to own and operate the high voltage transmission connection link serving the Hornsea 2 Offshore Wind Farm. DTP are seeking finance from an Equator Principles Financial Institution.

SLR undertook a project categorisation in terms of the Equator Principles.

Anglo American – Project Gaia, Unki Solar PV Project, Zimbabwe (2022-2023)

Anglo American's Carbon Neutrality Group has made it its vision to supply 100% of AA mines in southern Africa with renewable energy by 2030. To achieve this AA has proposed the development of a solar PV facility at its Unki Mine in Zimbabwe.

SLR undertook an ESIA process with an in-country partner consultant. Matthew is the SLR project director responsible for ESIA process guidance and report review.

Anglo American – Carbon Neutrality Energy Storage project, Pre-feasibility Study, Southern Africa (2022-2023)

Anglo American is considering the development of an energy storage ecosystem across their southern African mine sites in order to achieve carbon neutrality. Anglo American are undertaking a Pre-Feasibility Study of the project which includes Pumped-Hydro and Battery Energy Storage System options.

Matthew was the SLR project director responsible for the compilation of the Environmental and Permitting Chapters for the Pre-Feasibility Study.

Anglo American – Project Gaia, Sishen Solar PV Project, South Africa (2022-2023)

Anglo American's Carbon Neutrality Group has made it its vision to supply 100% of AA mines in southern Africa with renewable energy by 2030. To achieve this AA has proposed the development of a solar PV facility at the Sishen Mine.

SLR is undertaking the ESIA process. Matthew is the project director responsible for ESIA process guidance and report review.

Oil and Gas

Rhino Oil and Gas Exploration South Africa (Pty) Ltd – Onshore exploration right applications, South Africa (2022-2023)

Rhino Oil & Gas Exploration South Africa lodged applications with the Petroleum Agency of South Africa for additional exploration activities within two of their onshore Exploration Right areas in the central-eastern regions of the Free State, South Africa.

Matthew is the SLR project director responsible for the Scoping and EIA processes required to inform the applications for environmental authorisation in terms of NEMA.

Afro Energy (Pty) Ltd – Renewal of onshore exploration rights, South Africa (2022)

Afro Energy lodged applications with the Petroleum Agency of South Africa to renew three Exploration Rights across onshore areas in the eastern regions of South Africa.

Matthew authored the Environmental Performance Assessment reports prepared to accompany the renewal applications.

Afro Energy (Pty) Ltd – Audits of onshore exploration drilling, South Africa (2021-2022)

Afro Energy undertook the drilling and testing of three wells in their onshore exploration right area.

Matthew reviewed the environmental audit reports prepared by SLR to document compliance with the EMPr requirements.

Rhino Oil and Gas Exploration South Africa (Pty) Ltd – Renewal of onshore exploration rights, South Africa (2021)

Rhino Oil & Gas Exploration South Africa lodged applications with the Petroleum Agency of South Africa to renew two Exploration Rights across onshore areas in the central-eastern regions of South Africa.

Matthew was the project director responsible for the Environmental Performance Assessment reports prepared to accompany the renewal applications.

Afro Energy (Pty) Ltd – Consolidation of EMPr for three exploration rights, South Africa (2021)

Afro Energy made application to the Petroleum Agency of South Africa to consolidate the Environmental Management Programmes (EMPr) for three of their onshore exploration rights into a single right.

Matthew prepared the consolidated EMPr for submission to PASA.

Total Exploration & Production South Africa – Additional Exploration in Block 11B/12B, South Africa (2020-2022)

Total Exploration & Production South Africa lodged an application with the Petroleum Agency of South Africa for environmental authorisation to undertake additional exploration activities in Block 11B/12B offshore of the Cape south coast, South Africa. The proposal included well drilling, CSEM and metocean monitoring campaigns.

Matthew was the Environmental Assessment Practitioner responsible for the Scoping and ESIA process required to inform the application for environmental authorisation in terms of NEMA. Matthew managed the environmental impact assessment as well as an extensive public consultation process.

Afro Energy (Pty) Ltd – Regulation 54A audits of onshore exploration rights, South Africa (2018)

The Petroleum Agency of South Africa required that Afro Energy complete and submit Environmental Audit Reports for three onshore Exploration Rights.

Matthew prepared reports reflecting the level of performance against and compliance with the EMPs and the suitability of the EMPs to manage the avoidance, management and mitigation of environmental impacts.

Rhino Oil and Gas Exploration South Africa (Pty) Ltd - Onshore exploration right applications, South Africa (2018- 2020)

Rhino Oil & Gas Exploration South Africa lodged two applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across onshore areas in the central-eastern regions of South Africa.

Matthew was the Environmental Assessment Practitioner responsible for the Scoping and EIA process required to inform the application for environmental authorisation in terms of NEMA. Matthew managed the environmental impact assessment as well as an extensive public consultation process. Support was provided on an appeal of the decision.

De Beers Marine (Pty) Ltd – Offshore Geophysical Survey in West Greenland (2019)

De Beers Marine proposed to undertake a short, geophysical survey in offshore West Greenland during July/August 2020. The geophysical survey would include seven seismic lines, undertaken between 66° and 67°N, for the purpose of testing different types of seismic equipment and obtaining high-resolution geophysical data.

Matthew managed the preparation of environmental inputs to the Pre-scope application document in accordance with the requirements of the Greenland Minerals Authority.

Afro Energy (Pty) Ltd – Renewal of onshore exploration rights, South Africa (2018)

Afro Energy lodged made application with the Petroleum Agency of South Africa to renew two onshore Exploration Rights.

Matthew prepared reports reflecting the extent of compliance with the requirements of the environmental authorisation for the exploration work programme.

Afro Energy (Pty) Ltd - Onshore exploration right applications, South Africa (2016-2017)

Afro Energy lodged two applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas.

Matthew was the overall project manager, responsible for ensuring that the Scoping and EIA process meet the legislative and client requirements.

Rhino Oil and Gas Exploration South Africa (Pty) Ltd - Onshore exploration right applications, South Africa (2015-2017)

Rhino Oil & Gas Exploration South Africa lodged five applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas in the eastern regions of South Africa.

Matthew was the Environmental Assessment Practitioner responsible for the Scoping and EIA process required to inform the application for environmental authorisation in terms of NEMA. Matthew managed the environmental impact assessment as well as an extensive public consultation process.

Centlube (Pty) Ltd - Blending Plant at Wadeville (2014-2016)

Centlube own an oil and lubricant blending and packaging facility in Wadeville that was operating without the required environmental authorisations.

Matthew was the Environmental Assessment Practitioner responsible for the Section 24G process required to inform the rectification application for environmental authorisation in terms of both the ECA and NEMA.

Energy Oil (Pty) Ltd - Waste oil recycling plant at Wadeville (2014-2016)

Energy Oil own a waste oil recycling facility in Wadeville that was operating without the required waste management licence.

Matthew was the Environmental Assessment Practitioner responsible for the Section 24G process required to inform the rectification application for environmental authorisation in terms of NEM:WA.

Industry

Rappa Holdings - Homestead Road, Gauteng (2020-2022)

Rappa operates a facility that specialises in the recovery of gold from various materials and wastes acquired from mining and mineral processing operations. Some of the facilities and activities pose risk to the water resource and thus require a water use licence in terms of the NWA.

Matthew is the project manager responsible for provision of support to Rappa in engaging with the Department of Water Affairs and for engineering solutions to surface water management.

The South African Breweries – Glass Bottle Manufacturing Plant, Gauteng (2018-2019)

SAB proposed the development of a glass bottle manufacturing plant on the farm Leeuwkuil 596 IQ in Vereeniging, Gauteng. The proposed glass bottle manufacturing plant would produce approximately 290 000 tons of green and amber coloured glass bottles using two gas fired furnaces. The facility would comprise a batch plant, main manufacturing building and warehouse.

Matthew was the Environmental Assessment Practitioner responsible for the integrated Scoping and EIA process required to inform the applications for authorisation made in terms of NEMA, NEM:WA and NEM:AQA. An application for general authorisation under the NWA was also made.

Clay Industry cc – Brick Manufacturing Plant (2018-2019)

Clay Industry cc operates a brick manufacturing plant in Fisantekraal, Durbanville.

Matthew was the project manager responsible for undertaking a general environmental compliance audit of the operations and managing an application for the renewal of the facilities atmospheric emissions licence in terms of the NEM:AQA.

SmartMatta (Pty) Ltd – Anderbolt (2016-2017)

SmartMatta made application for a Recycling and Waste Management Facility in Anderbolt, Boksburg.

Matthew was the Environmental Assessment Practitioner responsible for management of the Basic Assessment process to inform a Waste Management Licence in terms of the NEM:WA.

Rappa Holdings - Homestead Road operations, South Africa (2014-2017)

Rappa operates a facility that specialises in the recovery of gold from various materials and wastes acquired from mining and mineral processing operations. Some of the facilities and activities may pose risk to the water resource and thus require a water use licence in terms of the NWA.

Matthew was the project manager & responsible for the integrated water use licence application made in terms of the NWA.

Scaw South Africa - Electrical Cogeneration, Power Plant and Ash, Disposal Facility, Union Junction (2011-2015)

Scaw proposed to establish a 67 MW Electrical Cogeneration Power Plant and Ash Disposal Facility at their Union Junction facility. The Ash Disposal Facility was designed to cater for power plant ash and other Scaw wastes.

Matthew was the Environmental Assessment Practitioner responsible for the integrated Scoping and EIA process required to inform the applications for authorisation made in terms of NEMA, NEM:WA and NEM:AQA. The development was authorised.

EnviroServ Waste Management – Treatment technologies at Shongweni Landfill, Durban (2011-2012)

EnviroServ proposed to introduce a range of technologies for the recycling, recovery and treatment of wastes at the Shongweni Landfill Site, Durban.

Matthew was the Environmental Assessment Practitioner responsible for the Scoping and EIA process required to inform the application for authorisation made in terms of the NEM:WA.

Mining

Dynamic Mining - Bon Ami Bauxite Mine (2023)

Dynamic Mining has proposed the development of the Bon Ami bauxite project, located in the Boké Prefecture ~ 150 km north-northwest of Conakry. The project has been permitted under Guinean law, but gaps were identified in the context of compliance with International Finance Corporation (IFC) Performance Standards (PS) and Good International Industry Practice (GIIP)

SLR is appointed to undertake additional specialist assessments, to develop a supplementary environmental and social impact assessment (ESIA) and a framework environmental and social management plan to close the gaps to the IFC performance standards. Matthew made contributions to the supplementary ESIA report.

Jindal Iron Ore (Pty) Ltd, Melmoth Iron Ore Mine (2021- 2022)

Jindal Iron Ore has proposed to develop the Melmoth Iron Ore Mine in KwaZulu-Natal. Application will shortly be made for the authorisations required to support the mining right application.

Matthew is the Stakeholder Engagement Manager responsible for planning and implementing public participation required in terms of the MPRDA, NEMA, NEM:WA and NWA.

Hotazel Manganese Mines (Pty) Ltd (2020)

Hotazel Manganese Mines operates a the Mamatwan Mine manganese mine near to Hotazel in the Northern Cape. Application has been made for an integrated Environmental Authorisation and update of the mine's EMPr to address a number of layout and activity change.

Matthew assisted in drafting and review of the Scoping Report prepared in terms of the MPRDA, NEMA and NEM:WA.

Tshipi É Ntle Manganese Mining (Pty) Ltd (2017)

Tshipi É Ntle operates a manganese mine near to Kathu in the Northern Cape.

Matthew undertook a review of reported non-compliances and corrective actions taken by Tshipi in response to previous audit findings and associated authorisation conditions. Covering the Environmental Authorisation, EMPr and Water Use Licence held by Tshipi for the period 2014 to 2017.

Gecko Salt (Pty) Ltd - Cape Cross Salt Project, Namibia (2016-2018)

Gecko Salt intends to develop a new solar salt production facility at the Cape Cross Salt Pan. The proposed project involves the mining of natural rock-salt and the establishment of salt crystallization pans for salt production by solar evaporation.

Matthew was the Environmental Assessment Practitioner responsible for the compilation of the EIA Report required to inform the application for an environmental clearance certificate in terms of the Environmental Management Act, 2007.

Tronox Limited - Port Durnford Prospecting Rights, KwaZulu-Natal (2015)

Tronox hold prospecting rights over an area at Port Durnford and required investigations into the environmental features of the area to inform decision-making on future mining right applications.

Matthew was the environmental scientist responsible for Environmental Sensitivity Study, Risk Review and Findings report.

Tronox Limited - Port Durnford Prospecting Rights, KwaZulu-Natal (2015)

Tronox hold prospecting rights over an area at Port Durnford and required investigations into the environmental features of the area to inform decision-making on future mining right applications.

Matthew undertook a gap analysis of Specialist Studies previously compiled for the Port Durnford area.

Memberships and Associations

- EAPASA, Registered Environmental Assessment Practitioner (2019/1107)
- SACNASP, Registered with South African Council for Natural Scientific Professions as a Professional Natural Scientist (Pr.Sci.Nat) in Environmental Science (400155/17)
- IWMSA, Member of the Institute of Waste Management South Africa (20112082)
Committee member on the KZN branch of the IWMSA
- IAIAAsa, Member of the International Association of Impact Assessors (1753)
- DCCI, Member of the Durban Chamber of Commerce and Industry. Previous Vice-chair of the Environmental Forum (2019-2020)



Stephanie has 9 years of experience in environmental consulting. She has conducted several EIAs for projects in various sectors. Stephanie has managed multi-disciplinary teams on projects in Namibia and has worked on a variety of authorisation and auditing processes within various sectors. Key projects experience includes Environmental Assessments for urban development projects, road rehabilitation, telecommunication, waste management, and infrastructure development, mining and exploration projects. She has conducted numerous public participation and stakeholder engagement activities relevant to the projects. Stephanie also has experience in environmental compliance monitoring and auditing for projects.

Education

- MPhil Environmental Management, University of Stellenbosch (2022)
- PGD Environmental Management, University of Stellenbosch (2018)
- BA (Hons) Geography and Environmental Studies, University of Namibia (2012)

Project Experience

Desalination Plant and Water Carriage System for the Central Coast of Namibia (2023-ongoing)

Environmental and Social Impact Assessment for the proposed Desalination Plant and Water Carriage System for the Central Coast of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Environmental and Social Risk Screening of the PCLD and Scoping for ESMF or Comparable Safeguard Instrument (2023)

Preparation and stakeholder engagement for Environmental and Social Risk Screening of the PCLD and Scoping for ESMF or Comparable Safeguard Instrument. Stephanie was the project manager.

Osona Village Sewage Treatment Plant (2022) **

Environmental Impact Assessment of the proposed construction and operation of a sewage treatment plant at the Osona Village in the Otjozondjupa Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Environmental Compliance Monitoring, Osona Village (2018-2022) **

Stephanie has conducted monthly environmental compliance monitoring of the construction activities at the Osona Village Development. This includes a monthly site visit and monitoring

and reporting compliance to the client. It also includes applying for the renewal of the ECC for the development and updating the EMP as required.

Environmental Sensitivity Report for the Swakopmund Infrastructure Master Plan (2022) **

Stephanie compiled an Environmental Sensitivity Report to provide input into the Swakopmund Infrastructure Master Plan. The report aimed to outline environmentally sensitive areas which needed to be considered within the Master Plan.

Environmental Sensitivity Review Report: Windhoek Water and Wastewater Master Plan (2022) **

Stephanie compiled an Environmental Sensitivity Report to provide input into the Windhoek Water and Wastewater Master Plan. The report aimed to outline environmentally sensitive areas which needed to be considered within the Master Plan.

Exclusive Prospecting Licence 7547, Erongo Region (2021) **

Environmental Impact Assessment of the proposed exploration activities on EPL 7547 in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation with the affected farm owners as part of the application for environmental clearance.

Township Establishments in Walvis Bay, Erongo Region (2021) **

Environmental Impact Assessment for the establishment of eight townships in Walvis Bay in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation. The project also included the proposed development of a cemetery and identification of potential environmental and social impacts as part of the application for environmental clearance.

Operational Environmental Management Plans, Erongo Region (2021) **

Development of Operational Environmental Management Plans for existing tourism facilities of Namibia Wildlife Resorts (NWR). This involved site visits and identification of baseline environmental and social conditions on site and investigating and assessing activities taking place on site.

Telecommunication Towers in the Erongo, Kunene, Otjozondjupa, Omusati and Kavango West Regions, Namibia (2021) **

Environmental Impact Assessment for the Proposed Construction of Telecommunication Towers in the Erongo, Kunene, Otjozondjupa, Omusati and Kavango West Regions, Namibia. This entailed an identification of current and potential environmental impacts and

opportunities, as well as public participation as part of the application for environmental clearance.

IFC Compliance Audit of the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the Omburu 20MW PV Project (2020) **

Undertake a compliance audit of the EIA and EMP for the Omburu 20MW PV Project EIA against the IFC Performance Standards. It involved producing a gap analysis report which provided the results of the IFC Compliance audit.

Operational Environmental Management Plans (2021) **

Development of Operational Environmental Management Programme (OEMPr) for Shell DSA. This involved site visits and identification of baseline environmental and social conditions on site and investigating and assessing activities taking place on site.

Marble Mining Claim Authorisation (2020) **

Environmental assessment of the Existing Mining Operations on Mining Claims 65425 and 65426 to include additional mining claims 71547, 71548, 71549 and 71550 in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Exclusive Prospecting Licence (EPL) 6669 in the Kunene Region (2019) **

Environmental assessment of the proposed exploration activities on EPL 6669 in the Kunene Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Exclusive Prospecting License (EPL) 6226 near Kalkveld in the Otjozondjupa Region (2020) **

Environmental assessment of the proposed exploration activities on EPL 6226 near Kalkveld in the Otjozondjupa Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Preservation and Rehabilitation of Trunk Roads 8/2 and 8/3 (TR0802 and TR0803): Taranaki, Mururani Gate to Rundu in the Kavango East, Kavango West and Otjozondjupa Regions (2019) **

Environmental assessment of the proposed Preservation and Rehabilitation of Trunk Roads 8/2 and 8/3 (TR0802 and TR0803): Taranaki, Mururani Gate to Rundu in the Kavango East, Kavango West and Otjozondjupa Regions of Namibia. This entailed an identification of

current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Preservation or Rehabilitation of Main Road 92 (MR92) [Oshakati-Outapi-Ruacana Road] in the Oshana and Omusati Regions (2019) **

Environmental assessment of the proposed Preservation or Rehabilitation of Main Road 92 (MR92) [Oshakati-Outapi-Ruacana Road] in the Oshana and Omusati Regions of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

ANNA Transmission Project (2019) **

Coordination and Facilitation of the Public Participation Process for the Angola-Namibia Transmission Line Project. The process included three rounds of meetings with key stakeholders and registered interested and affected parties.

Telecommunication Sites, Swakopmund (2019) **

Environmental assessment of the proposed Telecommunication sites in Swakopmund in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Filling Station, Keetmanshoop (2019) **

Environmental assessment of the proposed Filling Station on Erf 2539, Keetmanshoop Extension 6 in the Karas Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Arandis Data Center, Arandis (2019) **

Environmental assessment of the proposed Arandis Data Center in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts, as well as public participation as part of the application for environmental clearance.

Namclay Bricks and Pavers, Uis (2018) **

Environmental Compliance Audit of the existing Namclay Bricks and Pavers operations. This involved a site visit and identification of baseline environmental and social conditions on site

and investigating and assessing the environmental compliance of activities taking place on site.

Osona Village Master Plan, Otjozondjupa Region (2018) **

Environmental assessment of the proposed Osona Village Development in the Otjozondjupa Region of Namibia. This entailed an identification of current and potential environmental impacts, as well as public participation as part of the application for environmental clearance.

Rundu waste disposal site, Kavango East Region (2017) **

Environmental assessment of the existing Rundu Waste Disposal Site in the Kavango East Region of Namibia. This entailed an identification of current and potential environmental impacts, as well as public participation as part of the application for environmental clearance.

Arandis Logistics Park, Erongo Region (2016) **

Environmental assessment of the proposed Arandis Logistics Park in the Erongo Region of Namibia. This entailed an identification of current and potential environmental impacts and opportunities, as well as public participation as part of the application for environmental clearance.

Memberships and Associations

- Environmental Assessment Professionals Association of Namibia (EAPAN) – President and registered as Practitioner