



## Ryan Jonas

**Senior Environmental Consultant**

### Overview

Ryan Jonas is a professionally registered environmental scientist in the field of environmental management of large infrastructure related developments and mining projects in Southern Africa.

Ryan's experience focuses on the management and execution of various environmental authorisation processes, waste management license, water use license applications, air emissions licence and environmental management programmes as required by environmental legislation for large infrastructure developments and mining projects. He has gained a good working knowledge of South African environmental legislation in terms of the NEMA, 1998; MPRDA, 2002; NEM:WA, 2008, NEM:AQA, 2004 and NWA, 1998.

Ryan has also fulfilled numerous Environmental Control Officer and compliance monitoring functions for infrastructure related developments (i.e. road, pipeline, airport, housing and mixed-used projects), and also on various mining and industrial sites throughout South African.

### Areas of Expertise

- Environmental Impact Assessments
- Environmental Management Programme compilation
- Environmental site assessments (Feasibility / Constraints Analysis)
- Environmental Awareness Training
- Environmental Compliance Monitoring
- Waste Management Licence applications
- Water Use Licence applications
- Atmospheric Emission Licence applications
- Gap Analysis assessments
- Environmental liability closure and rehabilitation cost quantifications

### Relevant Experience

**Project Management | SANRAL Olifants River Bridge upgrade project: Basic Assessment, WULA and Borrow pit (mining permit) applications | Aurecon (on behalf of SANRAL) | 2015**

Project management. Client and Authority liaison (DMR, DEA & DWS); Collation of Civil Engineering input into a (DEA) Basic Assessment Reporting template; Completion of a WULA application to DWS, and mining permit application to DMR for borrow pit sites (for the online SAMRAD portal); Liaison with directly affected and landowners adjacent to the bridge upgrade location; Completion of PP Process as per NEMA Requirements.



**Project Management Support | Blanco 400/132kV substation and powerline EIA Project | Eskom | 2015**

Project management support, Client and Authority (DEA) liaison; Co-ordination of Specialist input and Scoping & EIR report compilation; Extensive liaison with landowners affected by the proposed line route and substation position alternatives

**Project Management | Basic Assessment process for the proposed rehabilitation to the Hout Bay Dune area | City of Cape Town | 2014- 2015**

Project management, Client and Authority (DEA&DP) liaison; Collation of the Rehabilitation Specialist's dune proposed management options into a (DEA&DP) Basic Assessment Report template; Extensive liaison with businesses and landowners adjacent to the dune (beach front area) regarding the most preferred dune management option to eliminate the excess accumulation of windblown sand; Completion of PP Process as per NEMA Requirements

**Project Management | Basic Assessment process for the upgrade to the Sea Point and Mouille Point promenade | City of Cape Town | 2014 -2015**

Project Management, Client and Authority (DEA&DP) liaison; Collation of the Landscape Architect and Coastal Engineer's input into a (DEA&DP) Basic Assessment Reporting template; Extensive liaison with businesses and landowners adjacent to the Promenade situated between Sea Point and Mouille Point, Cape Town, regarding the most preferred promenade upgrade option; Completion of PP Process as per NEMA Requirements.

**Project Management Support | Environmental Impact Assessment for the proposed Pearly Beach Sewage Treatment Works | GIBB | 2013-2014**

Project management support. Client and Authority (DEA&DP) liaison; Collation of Civil Engineering input for Scoping & EIR report compilation. Liaison with adjacent landowners and residents affected by the proposed location of the WWTW, associated pipeline route and pump station; Completion of PP Process as per NEMA Requirements

**Project Management Support | Environmental Impact Assessment for the proposed Leeuwenkuil Vineyard Waste Water Treatment Works | Leeuwenkuil Vineyard | 2013-2014**

Project management support. Client and Authority (DEA&DP) liaison; Collation of Engineering input for Scoping & EIR report compilation. Liaison with adjacent landowners and residents affected by the proposed location of the WWTW, associated pipeline route and pump station; Completion of PP Process as per NEMA Requirements.

**Project Management | Basic Assessment process for the Paardevlei Integrated Storm Water & Ecological Management System (ISW&EMS) in Somerset West | Paardevlei Properties | 2013-2014**

Project Management. Client and Authority (DEA&DP) liaison. Collation of the Stormwater Engineer, Freshwater and Coastal Specialists' input for the proposed ISW&EMS into a (DEA&DP) Basic Assessment Reporting template; Extensive liaison with State Departments and City of Cape Town Internal Departments regarding the finalised layout of the ISW&EMS; Completion of PP Process as per NEMA Requirements



**Project Management Support | Basic Assessment and Waste Management Licences for closure of seven landfill sites within the Matzikama Local Municipality and three landfill sites in the Overstrand Local Municipality | Department of Environmental Affairs | 2013-2014**

Project Management support, Client and Authority (DEA&DP) liaison; Collation of Civil Engineering input for each landfill site closure into a (DEA&DP) Basic Assessment Reporting template and Waste Management licence applications; Liaison with affected Municipalities, adjacent landowners and residents; Completion of PP Process as per NEMA Requirements.

**Project Management Support | Basic Assessment and WULA for Eskom Wolfkop 66/22kV substation and powerline | Eskom | 2012-2013**

Client and Authority (DEA) liaison. Collation of Eskom Line and Substation Engineering input into a (DEA) Basic Assessment Reporting template; Extensive liaison with landowners affected by the proposed line route and substation position alternatives; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for Xstrata Vekeerdepan Coal Mine Extension project | Xstrata | 2010-2012**

Project Manager. Client and Authority (DEA & DMR) liaison; Compilation of a S&EIA process under NEMA, 1998 and EMPR revision under MPRDA, 2002 for the Mine Extension project; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Anglo Greenside Colliery Environmental Management Programme Amendment under the MPRDA, 2002 & Section 24G Application under the NEMA, 1998 for an expansion to existing Co-Disposal Facility | Anglo American | 2012**

Project management, Client and Authority (DEA & DMR) liaison; Compilation of a Section 24G\_process under NEMA, 1998 and EMPR amendment under MPRDA, 2002 for unauthorised construction of a Co-Disposal Facility. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | De Beers Kimberley Mines Environmental Management Programme Revision under the MPRDA, 2002 | De Beers Mines Consolidated | 2012**

Project management, Client and Authority (DMR) liaison; Compilation of a revised EMPR under MPRDA, 2002.

**Environmental Scientist | Environmental Management Programme compilation under the MPRDA, 2002 and NEMA, 1998 for Xstrata Tweefontein Mine Optimisation project | Xstrata | 2010-2012**

Client and Authority (DEA & DMR) liaison; Assistance with the compilation of a S&EIA process under NEMA, 1998 and EMPR revision under MPRDA, 2002 for this Mine Optimisation project; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Annual revision (update) of Exxaro's Zincor Industry Environmental Management Master Plan Upgrade | Exxaro | 2010-2012**

Project management, Client and Authority (GDARD) liaison; Compilation of an annual report documenting the Industrial Plant's Environmental Management Master Plan



**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the rehabilitation of Blaauwpan and associated stormwater channel | Airports Company South Africa | 2008-2009**

Project Management. Client and Authority (DEA) liaison; Collation of the Rehabilitation Specialist's input (to remediate Blaauwpan wetland system due to excessive JET A1 fuel spillage) into a (DEA) Basic Assessment Reporting template; Extensive liaison with businesses and landowners adjacent to the Blaauwpan wetland.

**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the Northern Access Road Development at OR Tambo International Airport | Airports Company South Africa | 2008-2009**

Client and Authority (DEA) liaison; Collation of Airport Engineer's design input for the Northern Access Road Development (NARD) into a (DEA) Basic Assessment Reporting template; Extensive liaison with businesses within the Airport's premises affected by the NARD project; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998, Waste Management Licence under NEM:WA, 2008 and assistance with completion of an AEL under NEM:AQA, 2004 for the Flexilube Meyerton Oil Re-refinery expansion project | Flexilube (Pty) Ltd. | 2010-2012**

Project Management. Client and Authority (GDARD) liaison; Input of the Refinery's expansion design into a S&EIR Report; Extensive liaison with adjacent businesses affected by the expansion project; Completion of EIA, PP Process as per NEMA, 1998 Requirements, Waste Management Licence application under NEM:WA, 2008 and assistance with completion of AEL under NEM:AQA, 2004.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the upgrade (expansion) to the Sunderland Ridge Waste Water Treatment Works Slangriver Wastewater Treatment Works Upgrade | City of Tshwane | 2008-2009**

Client and Authority (GDARD) liaison; Input of the WWTW expansion design into a GDARD Basic Assessment Reporting template; Extensive liaison with adjacent businesses affected by the expansion project; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the construction of Ekangala Waste Water Treatment Works | Department of Water Affairs | 2009-2010**

Client and Authority (DEA) liaison; Collation of Civil Engineering input and Scoping & EIR report compilation. Liaison with adjacent landowners and residents affected by the proposed location of the WWTW, associated pipeline route and pump station; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the construction of Morgenzon Waste Water Treatment Works | Lekwa Municipality | 2009-2010**

Client and Authority (GDARD) liaison; Collation of Civil Engineering input and Scoping & EIR report compilation; Liaison with adjacent landowners and residents affected by the proposed location of the WWTW, associated pipeline route and pump station; Completion of PP Process as per NEMA Requirements.



**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the SASOL Tembisa-link gas pipeline realignment project | SASOL | 2009-2010**

Assistance with Scoping & EIR report compilation; Liaison with adjacent landowners and residents affected by the proposed pipeline route; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the SASOL gas pipeline realignment through Ekurhuleni and Mogale City | SASOL | 2009-2010**

Assistance with Scoping & EIR report compilation; Liaison with adjacent landowners and residents affected by the proposed pipeline route; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the Soland Park residential development | Masingita Developments | 2008-2010**

Assistance with Scoping & EIR report compilation; Liaison with adjacent landowners and residents affected by the proposed residential development; Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the Cradle of Pilanesberg Lodge | Pilanesberg National Park | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the construction of Staff Houses in the Pilanesberg National Park. | Pilanesberg National Park | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the construction of the Mankwe Hotel and Conference Centre | Mankwe Hotels (Pty) Ltd. | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Environmental Impact Assessment under the NEMA, 1998 for the construction of William Tell Particle Board Manufacturing Plant | William Tell Particle Board | 2007-2008**

Upgrading of Trunk Road 25 to a rural class 1 standard and obtaining environmental authorization from the Western Cape Department of Environmental Affairs and Development Planning for the proposed upgrade.

**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the Marang Motor Retail, Hotel and Residential Development | Marang Estate | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.



**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the Villa Del Country Estate | Private Developer | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Basic Assessment under the NEMA, 1998 for the Bellevue residential development in GeelhoutPark, Rustenburg | Private Developer | 2007-2008**

Basic Assessment Report compilation on NWDACE template. Completion of PP Process as per NEMA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the SANRAL Olifants River Bridge upgrade project | SANRAL | 2015**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for Eskom's Vierfontein – Viljoenskroon 88kV Refurbishment project | Eskom | 2014**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the Apollo Brick Manufacturing Plant | Apollo Brick | 2014**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the Eskom's Wolfkop 66/22kV substation and powerline project | Eskom | 2014**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the proposed Langeberg Residential Development | CSI | 2015**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the Atlantis Housing Development | City Of Cape Town | 2015**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.



**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the Pearly Beach Sewage Treatment Works | GIBB | 2015**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for proposed Beacon Valley Housing Development | City Of Cape Town Eskom | 2015**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Water Use Licence Application under the NWA, 1998 for the proposed Erf 3418 Industrial Development | VDMV | 2014**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Integrated Water Use Licence Application and IWWMP under the NWA, 1998 for the Inyanda Mine Siding | Exxaro | 2011**

Completion of Section 21 Water Use Application forms and supporting Technical Report as per NWA Requirements.

**Environmental Scientist | Closure related financial provision quantification for LA FARGE Tygerberg, Peak, Dortsberg and Saldanha quarries | LA FARGE | 2012-2014**

Annual financial provision quantification for Rehabilitation and mine closure.

**Environmental Scientist | A comparative analysis of Anglo American New Denmark Colliery's existing environmental authorization applications with regard to current environmental legislation and new FEL3 requirements, specifically for the North Shaft Re-opening project | Anglo American | 2011**

Completion of Gap Analysis assessment.

**Environmental Scientist | A renewal and variation application of the AEL for an upgrade to Maitland Crematorium | City of Cape Town | 2014**

Completion of the AEL application and incorporation of input from Air Quality study.

**Environmental Control Officer | Upgrade to SANRAL National Road 7 between Melkbos and Atlantis | SANRAL | 2013-2015**

Monthly EMP compliance audits.

**Environmental Control Officer | Housing Development on ERF 934, Pelican Park, Cape Town. | POWER Development | 2014-2015**

Monthly EMP compliance audits.



**Environmental Control Officer | MR302 road realignment and upgrade project | AURECON | 2012-2015**

Monthly EMP compliance audits.

**Environmental Control Officer | De Velde Residential Development, Somerset West | Balwin Properties | 2012-2015**

Monthly EMP compliance audits.

**Environmental Control Officer | Elgin Anaerobic Digester Installation project | Bau Afrika Engineers | 2014**

Monthly EMP compliance audits.

**Environmental Control Officer | Construction of a retaining wall structure for the Silverstroom Resort | C2C Engineers | 2014**

Monthly EMP compliance audits.

**Environmental Control Officer | Construction and installation of a 66Kv electrical cable within the Stellenbosch municipal area | AURECON | 2013-2014**

Monthly EMP compliance audits.

**Environmental Control Officer | Construction of 66kV underground electrical cable from an existing substation to the proposed 66/11kV substation, Hermanus | AURECON | 2014 -2015**

Monthly EMP compliance audits.

**Environmental Control Officer | Audit of Xstrata Alloys Carbon Division's five industrial operations situated between Witbank and Middelburg construction | Xstrata | 2012**

Annual EMP compliance audit.

**Environmental Control Officer | Audit of Xstrata Alloys Carbon Division's five industrial operations situated between Witbank and Middelburg construction | Xstrata | 2012**

Annual EMP compliance audit.

**Environmental Control Officer | Audit of Exxaro Tshikondeni mine's clean and dirty water management measures as per the conditions stipulated in Regulation GN704 of the NWA, 1998 well as an evaluation of the mine's compliance to conditions specified in the Water Use Licence issued by the Department of Water Affairs | Exxaro | 2011**

Monthly EMP compliance audits..

**Environmental Monitor | Pre-construction monitoring (for the establishment of an environmental baseline description) of the biophysical environmental aspects (included the baseline geophysical, geotechnical, geohydrological, surface water and ecological survey) as well as the compilation of**



**an Environmental Management Plan and Construction Specification for TCTA Mokolo Crocodile Water Augmentation Project (MCWAP) | TCTA | 2009-2010**

Weekly inspections.

**Environmental Control Officer | Audit for the construction of the Remote aprons, Taxiway Papa, Northern Ring Road, extension of Charlie Taxiway and extension of Golf Apron at OR Tambo International Airport. Environmental compliance scores for the respective Contractors (namely WBHO, Sanyati, LTA-Grinaker and Rand Roads) involved in the construction were presented in monthly audit reports and presented at an Environmental Monitoring Committee meetings MR302 road realignment and upgrade project | ACSA | 2008-2010**

Monthly EMP compliance audits.

**Environmental Control Officer | Environmental Control Officer. Audit for the upgrade to Sunderland Ridge Waste Water Treatment Works. Environmental compliance scores for the respective Contractor involved (namely Basil Read) was presented in a monthly audit report and discussed at an Environmental Monitoring Committee meetings (comprising of the Client, Contractors and any other interested & Affected Parties) | City of Tshwane | 2008-2009**

Monthly EMP compliance audits.

**Environmental Control Officer | Audit (which included a bi-weekly site inspection and audit report compilation) for the reconstruction of Dan Nkabinde Bridge in Tembisa | City of Joburg | 2008-2009**

Monthly EMP compliance audits.

**Environmental Control Officer | Audit for the construction of PetroNet St James Transfer Station | PETRO SA | 2008**

## **Qualification & Affiliations**

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- MSc (Environmental Science)
- BSc (Natural Sciences)
- SACNASP Professional Natural Scientist (Environmental Science) Reg no: 400159/15

## **Publications/Presentations**

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- 2007 An assessment of epigeal arthropods along an urbanization gradient in the Potchefstroom municipal area, North-West University, South Africa. (National Research Foundation funded). North-West University, Potchefstroom Campus. R E Jonas, 2007



## Work History

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2015 - Current	Senior Environmental Consultant, Advisian (trading as Worley Parsons RSA (Pty) Ltd)
2012-2015	Senior Environmental Scientist, GIBB (Pty) Ltd / SEF
2010-2012	Environmental Scientist, Clean Stream Environmental Consultants
2008 - 2010	Environmental Specialist, Aurecon (previously Africon (Pty) Ltd)
2007 - 2008	Environmental Consultant, K2M Technologies
2006 - 2007	Research Assistant for the Persistent Organic Pollutants & Toxicants (POPT) Group: North West University, Potchefstroom
2002-2006	Practical Demonstrator (Microbiology), North West University, Potchefstroom