

## **CURRICULUM VITAE**

Name:	Brian Peter Whitfield
Nationality:	South African
Date of Birth:	20 October 1977
Profession:	Environmental Scientist
Professional Qualification/ Training:	BSc Honours (Botany); University of the Witwatersrand, 1999
Professional Membership/ Registrations:	Registered Professional Natural Scientist (SACNASP- #400447/13).
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

#### **KEY EXPERIENCE**

Brian is a senior project manager at EIMS and has been involved in numerous significant projects over the past 16 years he has been with the company. He holds a BSc (Botany and Zoology) and a BSc Honors degree in Botany from the University of the Witwatersrand. Brian is a registered professional natural scientist with the South African Council for Natural Scientific Professions. Brian's broad range of experience includes managing and/or undertaking projects in various sectors, including Energy, Mining, Oil and Gas, Water and Infrastructure. Brian's other experience includes Site Assessments, Water-use licensing, Environmental Monitoring and Auditing, Due Diligence Assessments, Competent Persons Reporting, Environmental Management Plans and Strategic Environmental Assessments.

#### **CAREER SUMMARY**

Period: May 2014 - Current	Organisation: EIMS	Position: Senior Environmental Consultant, Project Manager and Quality Reviewer	
Key Projects/Assignments	Managed and/or undertook the following projects:		
	Ilima Colliery EIR/EMPR Amendment Application		
	Manungu Coal Mine Expansion (EIA, WML, IWUL)		
	Tetra 4 Evander Exploration Right Application		
	<ul> <li>Tetra 4 Virginia Regional General Authorisation</li> <li>Menar Kookfontein Prospecting Right Application</li> </ul>		
	Sungu Sungu Dannhauser Oil and Gas Exploration Application		
	Sungu Sungu ER313 Oil and Gas Exploration Application		



	Eskom Real Estate (ERE) Waste Management Plan		
	Eskom Dolos Giraffe Substation BA		
	PH Bagale Lichtenburg Hospital BA		
	Old Mutual Properties Zonkizizwe Township Development EMP and Advisory Services		
	Continental Coal Ferreira Mine Internal Annual Audit		
	Pembani Mine External Annual Audit		
	Cennergi Tsitsikamma Community Wind Farm Annual External Audit (including IFC/World Bank compliance)		
	Cennergi Amakala Emoyeni Wind Farm Annual External Audit (including IFC/World Bank compliance)		
	Old Mutual Properties Zonkizizwe Township Substation Construction		
	Eskom Wittekleibosch Powerline and Substation Construction Audits		
	Eskom Dedisa Grassridge Powerline Construction Audits		
	Various audits for Eskom Power Stations		
Period: August 2012 – May 2014	Organisation: EIMS (Secondment to Transnet Capital Projects Environmental Manager		
Key Projects/Assignments	ransnet Capital Projects (TCP) Environmental Manager on the New Multi- roduct Pipeline (NMPP) Project under the umbrella of the Centre of Excellence. he project included the following aspects:		
	Pipeline 1: 554km of pipeline construction (30m wide servitude) from Durban Harbor (Island View) to Heidelberg (Gauteng) including construction of 2 Terminals, 3 Pump Stations and 2 Metering Stations.		
	Harbor (Island View) to Heidelberg (Gauteng) including construction of 2		
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	Harbor (Island View) to Heidelberg (Gauteng) including construction of 2 Terminals, 3 Pump Stations and 2 Metering Stations.      Pipeline 2&3: 72km of Pipeline construction (30m wide servitude) from Jameson Park Terminal (Gauteng) via Alrode Terminal to Langlaagte Depot		
	Harbor (Island View) to Heidelberg (Gauteng) including construction of 2 Terminals, 3 Pump Stations and 2 Metering Stations.      Pipeline 2&3: 72km of Pipeline construction (30m wide servitude) from Jameson Park Terminal (Gauteng) via Alrode Terminal to Langlaagte Depot (Gauteng).      Pipeline 4: 89km of Pipeline construction (30m wide servitude) from Kendal		
	Harbor (Island View) to Heidelberg (Gauteng) including construction of 2 Terminals, 3 Pump Stations and 2 Metering Stations.      Pipeline 2&3: 72km of Pipeline construction (30m wide servitude) from Jameson Park Terminal (Gauteng) via Alrode Terminal to Langlaagte Depot (Gauteng).      Pipeline 4: 89km of Pipeline construction (30m wide servitude) from Kendal Power Station (Mpumalanga) to Waltloo Terminal (Gauteng).		



- Facilitate the environmental execution of the reinstatement and rehabilitation of the Right of Way servitude (Wetland, erosion, grassing, etc);
- Manage and ensure the landowner signoff of each property that has been obtained;
- Ensure that all the required documents for handover have been prepared and are ready for handover to Transnet Pipelines (TPL);
- Ensure all environmental risks are captured on the risk register and that all risks are mitigated and closed out;
- Ensure that all actions from Community Liaison Forums (CLF's) and any other meetings are closed out.
- · Plan, monitor and control the allocated budget.
- Ensure compliance with all conditions of the Environmental Authorisation (EA), permits, licenses, etc.
- · Oversee the environmental performance of all contractors:
  - Ensure that all relevant information is shared with the contractor;
  - Ensure quality control of all environmental services.
- Visit and check all sites to ensure that the work is being undertaken as required by the EA and Environmental Management Plan (EMP).
- Facilitate environmental communication and engagement with internal and external stakeholders:
  - Interface with Interested and Affected Parties (I&AP's) where required;
  - Chair and facilitate regular feedback meetings with TPL and the environmental team;
  - Liaise with Government Departments as required;
  - Regularly meet with the Project Directors of the various teams on the project to ensure that environmental management is being adequately addressed.
- Provide the necessary environmental input into designs, plans, etc.
- Prepare environmental opinions and interpretations as and when required.
- Sign off all Independent Environmental Audit reports.
- Prepare and submit monthly progress and cost reports to various Executive Committee Members.
- Support and manage the environmental team.



Period: 19 May 2008 to 31 July 2012	Organisation: EIMS	Position: ECO Manager and Independent Environmental Auditor to the Transnet NMPP Project		
Key Projects/Assignments	esponsibilities:			
, ,	_	project construction) as well as acting as Independent Auditor during period		
	<ul> <li>Assist with all permits and applications where applicable on the project e. borrow pits, water use licenses (WUL), etc. including but not limited to:         <ul> <li>The compilation of 40 borrow pit (mining permit) applications with applications of the second permits issued (others cancelled for various reasons). Closure applications for the 9 permits have additionally been undertaken.</li> </ul> </li> </ul>			
	<ul> <li>Educate the construction team a EMP's and ROD's/EA's.</li> </ul>	bout the management measures of the		
	<ul> <li>Regular liaison with the construction</li> </ul>	on team and the project leader.		
	<ul> <li>Recommend corrective action for any non-compliance incidents on t construction site.</li> </ul>			
	Consult with the I&AP's and the contractor where required by the EMP.			
	<ul> <li>Comment on damage claims from the public.</li> <li>Notify affected parties of changes to the construction programme shouthey be involved.</li> </ul>			
	<ul> <li>Ensure open communication channels between the affected partice contractor and respond promptly to queries and claims.</li> <li>Develop a monitoring and auditing programme which is implement duration of the construction phase of the project to monitor compute conditions of the EMP's and RoD's/EA's. The management programme includes:</li> </ul>			
	<ul> <li>Ensure ECO's conduct dai</li> </ul>	ly audits in identified sensitive areas;		
	<ul> <li>Ensure ECO's conduct weekly audits in their respective areas;</li> </ul>			
	· ·	hly audit report with a rating of the P. This report is submitted to the relevant cluding:		
	<ul> <li>Department of E</li> </ul>	<ul> <li>Department of Environmental Affairs (DEA);</li> </ul>		
	<ul> <li>Gauteng Depa Development (G</li> </ul>	ortment of Agriculture and Rural DARD);		
	<ul> <li>Department of V</li> </ul>	Vater Affairs (DWA – National).		
	Ensure ECO's keep a pho     outside the demargated s	tographic record of any damage to areas		

outside the demarcated site area. The date, time of damage, type of



Key Projects/Assignments	Was involved in and managed numerous projects during this time. A detailed list can be provided on request.	
Period: July 2004 to 19 May 2008	Organisation: EIMS	Position: Environmental Consultant
	responsible party  Provide ad hoc a responsible control  Maintain record conditions of the authorities on record camp sites and do Review and appropriate and appropriate camp sites and approved the control camp sites and do Review and approximate camp sites and ap	dvise and clarification on compliance issues to the ractor; is of compliance / non-compliance with the authorizations and make available to competen

# LANGUAGE CAPABILITY

Language	Speak	Read	Write	
English	Excellent	Excellent	Excellent	
Afrikaans	Good	Good	Good	

## DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.

2020-07-03
Signature of Staff Member Date



## **CURRICULUM VITAE**

Name:	Cheyenne Muthukarapan	
Nationality:	South African	
Date of Birth:	3 January 1992	
Profession:	Environmental Scientist	
Professional Qualification/	B.S.c Environmental and Geographical Sciences; University of Cape Town	
Training:	Advanced Diploma Business Project Management; University of Cape Town	
	ArcGIS Working with imagery - online course, ESRI South Africa, 2017	
	ArcGIS Geo-mapping - online course, ESRI South Africa, 2017	
Current Employer:	Environmental Impact Management Services (Pty) Ltd.	

### **KEY EXPERIENCE**

Ms Cheyenne Muthukarapan holds a Bachelor of Science degree in Environmental and Geographical Science from the University of Cape Town and an Advanced Diploma in Business Project Management from the University of Cape Town. Her expertise lies in public consultation/participation processes and sustainability consulting. She has participated in numerous public/stakeholder consultations in relation to environmental impacts, and the formulation of sustainable solutions to various environmental problems.

#### **CAREER SUMMARY**

Period: November 2016 - Current	Organisation: EIMS	Position: Junior Environmental Scientist
Key Projects/Assignments	Environmental Assessment Practitioner for the Tsakane Sewer Pump Station     Basic Assessment;	
	Environmental Assessment Practitioner for the Kookfontein Prospecting Right Basic Assessment and Water Use Licence Application Process;	
	<ul> <li>Consultant for the Sasol Secunda Plant Air Quality Education and Awareness Project as part of the offset programme required by the plants Air Emission License;</li> </ul>	
	<ul> <li>Sustainability consultant for Arup (Pty) Ltd for the Thabametsi Coa (Lenders technical advisory team);</li> </ul>	
	Development of Sustainability Appraisal Framework for IDC;	



- Public Participation Consultant for EcoRevert Pyrolysis Plant and Refinery (Gauteng);
- Public Participation Consultant for Motuoane Hennenman Natural Gas Exploration Right (Free State);
- Public Participation Consultant for the Harmony Hill Township Establishment (Sabie);
- Public Participation Consultant for Pembani Coal Carolina (Carolina);
- Public Participation Consultant for S. Bothma and Son Transport Sand Mine (Sasolburg);
- Public Participation Consultant for Laudem Mining and Industrial Services (Pty) Ltd. Sand Mine (Free State);
- Public Participation Consultant for Manungu Colliery (Delams);
- Public Participation Consultation for Vlakvarkfontein Coal Mine (Ogies);
- Public Participation Consultant for Lothtech (Pty) Ltd. (Wynberg);
- Public Participation Consultant for the Sasol Air Quality Matters Public Participation sessions;
- Environmental Management Plans update for EMPR for Harmony Gold;
- Compilation of a Site and Retail Licence Application;



## LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Average	Good	Average

## **DECLARATION**

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications at the time of signature.

Cheyenne Muthukarapan

Date: 2020/08/04