

Gordon is a senior civil engineer with nearly 33 years of experience in general civil engineering services across Africa and Western Canada. His experience and expertise includes water resources planning, drought and water shortage planning, municipal services (including water and wastewater utilities, pumps and pump stations, road and pedestrian design issues), asset management and infrastructure reliability planning, site-wide infrastructure for mining operations and O&G facilities, water and wastewater treatment plants and systems, asset management and finance and CAPEX planning for municipalities and large projects.

Gordon is well known for his ability to bring diverse project teams and individuals together to develop and implement creative and technically superior, environmentally responsible and financially sustainable solutions for his clients. After numerous years of focusing on business development and client relationships he has honed the ability to navigate the fine balance between business and client needs to produce positive solution-oriented win-win results

CORE COMPETENCIES

Strategic Planning ♦ Master planning (utility systems) ♦ Asset Management ♦ Multi-dimensional engineering expertise (water, transport, structures) ♦ Integration Manager (multi-discipline infrastructure projects including Environmental aspects) ♦ Owners Engineer ♦ Senior Project Manager ♦ Design Lead (civils and utilities) ♦ Design QA / Lead – water and wastewater treatment, surface water drainage and conveyance systems ♦ Design Interface between Consultant and Contractor ♦ CAPEX and Project implementation planning

Organizational restructuring and process system restructuring ♦ Collaboration facilitator ♦ Business operations (finance and projects) ♦ Client Relationship Management ♦ Design lead for OBS utility systems – oil and gas / mining

EXPERIENCES AND ACHIEVEMENTS

Regenerate Water Inc, Summerland, BC, Canada

January 2020: Current

Director; Principal Civil and Water Resources and Systems Lead

Founded in December 2019 to provide a niche, focussed and agile professional engineering service in the fields of general civil, water resources and municipal services. Based in Central Southern BC but able to service clients across western Canada. **Regenerate Water** is part of an association of professional service companies, capable of providing a wide range of advice and engineering services, thereby providing clients a potentially full-service offering.

GHD Limited, Richmond, BC, Canada

January 2019 to December 2019

Civil Engineering lead, BC

Business Development Lead (Civil & Water projects)

- Review business development strategy and develop focussed and targeted business focus
- Deputy PM (Vancouver based) setting up the bid design team for the Translink Broadway Subway Project prior to the PM relocating to Vancouver.

Senior Project Manager

- Client relationship management – White Rock, district of Squamish
- Support the project team on commercial, legal and operational aspects

Integration Design Lead – Civil and Utilities

- Design Integration Lead of earthworks, civil layouts, surface water drainage and leachate collection system for VFPA project
-

AECOM SA (Pty) Ltd, Centurion, South Africa

April 2014 to August 2018

Business Line Lead, Business development lead for Water Systems; Water and Wastewater - Africa

Business Unit Manager

- Manage the Water Systems team in Centurion, and integrate with the Water Systems teams in Durban and Cape Town regional offices
- Strategic planning for business operations expansion into Africa
- Expanding operational effectiveness into Uganda, Kenya and Botswana regional offices

Business Development Lead

- Review business development strategy and develop focussed and targeted business focus
- Engage with AECOM teams across the world to participate in multi-region / multi-discipline projects
- Finance and commercial modelling (AECOM system) of large bids
- Prepare and submit bids for multi-discipline opportunities (airports, rail, energy) with both internal and external stakeholders

Senior Project Manager

- Client relationship management
- Support the project team on commercial, legal and operational aspects pertaining to contract close-out
- Review / finalize O&M systems for Hand-over

Integration Design Lead – Civil and Utilities

- Design Integration Lead of earthworks, civil layouts, raw water supply, internal pipe networks, treated water pipelines and pump stations, structures
- Oversight / QA of the process design for the City of Tshwane WTP.

AECOM Canada Limited, Calgary, Alberta, Canada

January 2012 – March 2014

Manager (Water), Southern Alberta, Western Canada

Business Unit Manager

- Manage the Water team in Calgary
- Provide senior management support and guidance to the Lethbridge regional office
- Business forecasting (utilization; project resource demands)
- Support and enhance internal QA process and application of accepted practices

Business Development Lead

- Lead business development for Western Canada in Water projects (municipal, oil and gas, mining)
- Integrate business development between infrastructure and energy market sectors
- Engage with AECOM teams across the world to participate in multi-region / multi-discipline projects
- Finance and commercial modelling for targeted bids

Senior Project Manager

- Multiple projects across multiple end markets
 - Municipalities; Provincial Departments, Private sector (Calgary Airports Company), O&G (SUNCOR, Shell Canada, TransAlta); Mines (TECK Coal)
- Client relationship management
- Responsible for Quality Assurance

Integration Design Lead – Civil and Utilities

- Design Integration / Utilities Design Lead of:
 - Bulk earthworks, civil layouts, raw water pumps and pipelines, lake intake works, treated water pipelines and pump stations, structures
 - Treated effluent water supply system (TEW) for reuse in a WwTW plant

Gordon Chrystal

Regenerate Water Inc.
Mobile: +778-392-8398

Email: gordonc@regeneratewater.ca

-
- Pipeline and pump station interface and pipeline routing through underground utility tunnels using C3D planning
 - Stormwater management and water quality improvement project, integrated with a natural parkland and wetland configuration utilizing Green water treatment technologies
 - Utilities for the construction of mining temporary / permanent man-camps including access and internal roads, fire water supply, sewer, stormwater and potable water distribution

GOLDER Canada Limited, Calgary, Alberta, Canada

December 2008 – December 2011

Manager Engineering Design & Construction

Management

- Manage the Engineering Design & Construction Team in Calgary office
- Business forecasting (utilization; project resource demands)
- Support and enhance internal QA process and application of accepted practices

Business Development Lead

- Implement business model for focussed and targeted business development
- Lead bid teams for targeted projects / clients
- Engage with GOLDER teams across the world to participate in multi-region / multi-discipline projects

Senior Project Manager

- Multiple projects across municipal utilities, surface water management, private sector (Calgary Airports Company), O&G (SUNCOR, Total Energy, Imperial Oil, Shell Canada, TransAlta)
- Integration management between environmental agencies, specialist sub-consultant and client project managers.
- Responsible for Quality Assurance and delivery of project to schedule while meeting client requirements
- Negotiated Phase 1 construction contract on behalf of Federal department and assisted in managing the tender process for Phase 2 (project specific)

Integration Design Lead – Civil and Utilities

- Design Integration / Utilities Design Lead of:
 - Bulk earthworks, civil layouts, raw water pumps and pipelines, lake intake works, treated water pipelines and pump stations, structures
 - Transient pressure management and design mitigation (raw water pipelines)
 - Environmental containment systems for surface water run-off and TEW pipeline corridors
 - Utilities for the construction of mining temporary / permanent man-camps including access and internal roads, fire water supply, sewer, stormwater and potable water distribution
 - Surface water decanting systems (from open pits) for active treatment of Selenium, prior to passive treatment solutions and release to the environment
 - Design and economic optimization project of mine operational gravel roads
 - Remote fishing harbour breakwater, laydown areas, harbour dredging, quay expansion

URBAN Systems Limited, Calgary, Alberta, Canada

September 2004 – November 2008

Manager Engineering Design & Construction

Management

- Integrate and manage civil design teams between Calgary, Edmonton, Kamloops and Kelowna
- Developed and implemented a staff engagement plan in Calgary

Business Development

- Participated on bid teams for targeted projects / clients

Project Manager

Gordon Chrystal

Regenerate Water Inc.
Mobile: +778-392-8398

Email: gordonc@regeneratewater.ca

-
- Project manager for infrastructure projects in BC municipalities (Invermere; Fernie) and private sector clients
 - Developed strong client relationships through engagement, problem identification and participatory discussion / workshops
 - Client relationship development

Design Lead – Civil and Utilities

- Infrastructure / Utilities Design Lead of:
 - Draft and prepare Drought Management Plans for small municipalities
 - Municipal utilities including downtown revitalization projects, fire water supply, sewer, stormwater and potable water distribution, sewer treatment systems, water treatment plants and alternative water source development
 - Design, develop and prioritize a recapitalization plan for the sewer and water utilities with CAPEX and OPEX budgets for varying budget cycles
 - Review and recommend updates to utility finance plan and billing policies
 - Stormwater management and surface water run-off management at airport facilities

BKS Pty Ltd, Pretoria, South Africa

August 2001 – August 2004

Senior Project Manager

Department of Water Affairs & Forestry, Durban, KZN, SA

August 1999 – July 2001

Senior Engineer, Southern Region, KZN Regional Office

Self-Employed, Durban, KZN SA

March 1998 – July 1999

Independent Contractor (water resources and planning engineer)

NGO Sector (Rural Water Supply), Durban, SA

November 1991 – December 1997

Project Manager & Director,

Grinaker Construction, Durban, South Africa

July 1987 – October 1991

Graduate engineer / Construction Engineer,

EDUCATION & CREDENTIALS

BSc Civil Engineering, University of Cape Town, 1985

Professional Registration

PEGBC: P.Eng (150808)

APEGA: P.Eng (82439)

ECOSA: Pr.Eng (20180233)

NATIONALITY

South Africa; Canada