



Phoenix Engineering

Control Systems Specialists

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Personal Details

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Qualifications

Qualifications obtained **Master of Science in Civil Engineering –**
2000 / 2001
Bachelor of Science in Civil Engineering
(Honours Degree) – December 1999

Memberships Member of the Chartered Institute of Waste
Management
Institute of Civil Engineers

Career History

2010 – Present Phoenix Engineering (Phoenix)
www.phoenix-engineers.co.uk
Managing Director

2001 – 2010 SKM Enviro Consulting
Consulting Group Manager and
Senior Consulting Civil and Environmental
Engineer

2000 – 2001 Durban Solid Waste
Development of Model and Continuous Testing
for Masters Dissertation.

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1995 – 1999

Group Five Civils (Student Vacation Work)

- 1 month site practical work at Durban Bayhead Shell Petrochemicals Plant, comprising demolition and refurbishment of an existing petrochemicals plant. Performed the role of a general worker.
- 1 month site practical work at Pietermaritzburg Tongaat Hulett Aluminium Smelter Plant, comprising construction of a new aluminium smelter. Performed the role of gang leader on the excavation and construction of a below ground substation.

1 month site practical work at Richards Bay Dry Bulk Jetty, comprising the construction of a new dry bulk jetty. Performed the role of gang leader on the construction of over-water, inclined in-situ concrete and support columns to the jetty loading conveyor.

Pen Profile

I am a Civil Engineer and Contracts Manager with over 16 years experience in the Waste Management Sector. I have a Masters Degree in Civil Engineering and I am a Member of the Chartered Institute of Waste Management and a Graduate Member of the Institute of Civil Engineers. I have been working for Phoenix since October 2010, where I undertake the roles of Managing Director and Senior Engineering Manager.

My duties as Managing Director include the profitable running of the business, strategic planning, marketing, public relations, new business development and research and development. My responsibilities as Senior Engineering Manager include, coordination of all project disciplines, Civil, Mechanical, Electrical, Instrumentation, Control and Automation. I am the direct contact for Client and Consultant liaison. Phoenix acts as Principal Contractor and Designer under the CDM Regulations 2015 and I am responsible for coordinating health and safety matters.

Prior to working for Phoenix, I worked for SKM Enviro Consulting (now Jacobs) where my principal responsibilities were managing projects and providing Civil, Environmental and Process Engineering expertise. My technical specialties included design, preparation, tendering, supervision and administration of construction contracts, including process, civil engineering and hydraulic design. I also undertook the role of Consulting Group Manager for the SKM Enviro Consulting Midlands Waste Engineering Team.

Relevant Projects Undertaken

Hatfield Landfill Leachate Treatment Plant

The site is located in St Albans and operated by CEMEX. Phoenix was awarded the Contract for design and construction of a new 50m³/day landfill leachate treatment plant, comprising nitrification. Phoenix Engineering undertook the role of Principal Contractor. Jonty undertook the role of Project/Contract Manager for Phoenix Engineering.

Westmill Leachate Treatment Plant

The site is located in Hertfordshire and operated by Biffa Waste Services Limited. Phoenix Engineering was awarded the Contract for design (including biological process design) and construction of a new 150m³/day landfill leachate treatment plant, comprising nitrification. Phoenix Engineering undertook the role of Principal Contractor. Jonty undertook the role of Project/Contract Manager for Phoenix Engineering.





Brookhurst Leachate Treatment Plant Extension

Following on from the successful design and upgrade of the existing treatment plant Phoenix Engineering was awarded the contract to increase the treatment plant capacity by constructing a further process tank and integrating it into the existing treatment plant. Jonty Undertook the role of Senior Project/Contract Manager for Phoenix Engineering

Brookhurst Leachate Treatment Plant

The site is located in Horsham and operated by Biffa Waste Services Limited. Phoenix Engineering was awarded the Contract for design (including biological process design) and upgrading of the existing landfill leachate treatment plant, comprising nitrification. Phoenix Engineering undertook the role of Principal Contractor. Jonty undertook the role of Project/Contract Manager for Phoenix Engineering

Masons Leachate Treatment Plant

The site is located in Great Blakenham Ipswich and operated by Viridor. Phoenix Engineering was awarded the Contract for design (excluding biological process design) and construction of the 160 m³/day landfill leachate treatment plant, comprising nitrification and ultra-filtration. Phoenix Engineering is undertaking the role of Principal Contractor. Jonty is undertaking the role of Senior Project/Contract Manager for Phoenix Engineering.

Bletchley Leachate Treatment Plant

The site is located in Bletchley Milton Keynes and operated by WRG. Phoenix Engineering was awarded the Contract for design (excluding biological process design) and construction of the 200 m³/day landfill leachate treatment plant, comprising nitrification, denitrification and ultra-filtration. Phoenix Engineering undertook the role of Principal Contractor. Jonty undertook the role of Project/Contract Manager for Phoenix Engineering.

Shirley Constructed Reedbed

The site is located in Shirley Worcestershire and is owned by Worcestershire County Council. Phoenix Engineering was awarded the Contract for construction of a 350 m² constructed reedbed to treat diluted landfill leachate prior to discharging to sewer. Phoenix Engineering undertook the role of Principal Contractor. Jonty undertook the role of Project/Contract Manager for Phoenix Engineering.

Scottish Water Horizons Asset Development

Development of assets for Scottish Water Horizons:

Jonty undertook the role of Project Manager and key advisor to the Employer for the development of the Scottish Water Horizons Waste Treatment Facilities. Jonty was intimately involved in the procurement process, detailed design, construction and commissioning stages of the Deerdykes Anaerobic Digestion Facility, which included developing the design and environmental risk assessments with the Contractor, HAZOP analysis and development of the risk register for the project. This recent experience has allowed Jonty to develop an in depth detailed knowledge of the current risks associated with anaerobic digestion systems relating to the process, health and safety and the impact on licensing and permitting.

Deerdykes Composting and Organics Recycling Facility

The site is located in Cumbernauld Glasgow. Jonty provided consultancy support for the conceptual design and feasibility study, detailed design, tender, contract award, construction supervision and commissioning of a 45,000 tpa in-vessel compost facility (as the nominated NEC Option A Project Manager). Peripheral organics handling facilities on site included industrial sludge reception, dewatering and processing and industrial liquid reception and processing. The in-vessel facility was fully completed in March 2008. In 2009 Jonty provided consultancy support for the procurement of an anaerobic digestion plant with capacity for up to 30,000 tpa of animal by-products/sludge (comprising anaerobic digestion process, reception building, waste pre-treatment and decontamination equipment, and CHP equipment). Jonty completed the full performance/output specification, indicative drawings and tender documents. He also managed the procurement and tender evaluation process and was responsible for supervising construction and commissioning of the plant (as the nominated NEC Option A Project Manager). As part of the overall process for the anaerobic digestion facility development Jonty also managed the

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connectivity study and the assessment of the potential for heat networks and private wires to local industry.

Johnstone Composting and Anaerobic Digestion Facility

The site is located in Linwood Glasgow. Jonty provided consultancy support for the design, tender, contract award, construction supervision and commissioning of a 20,000 tpa open air compost facility. Construction of the facility was completed in March 2008. Jonty completed a detailed feasibility study assessing the potential for constructing and operating an anaerobic digestion plant at the Johnstone Facility. He assessed a range of throughputs from 30,000 tpa to 60,000 tpa. The feasibility study included a full connectivity study for connection of a CHP engine to the local grid. He provided consultancy support for the procurement of an anaerobic digestion plant with capacity for up to 40,000 tpa of animal by-products/sludge (comprising anaerobic digestion process, reception building, waste pre-treatment and decontamination equipment, and CHP equipment). Jonty completed a full performance/output specification, indicative drawings and tender documents. He also managed the procurement and tender evaluation process. Following tender evaluation, the project did not proceed due to funding restrictions.

Prestwick Anaerobic Digestion Facility

Jonty completed a detailed feasibility study assessing the potential for constructing and operating an anaerobic digestion plant at Prestwick. He assessed a range of throughputs from 30,000 tpa to 60,000 tpa. The feasibility study included a full connectivity study for connection of a CHP engine to the local grid. He provided consultancy support for the procurement of an anaerobic digestion plant with capacity for up to 40,000 tpa of animal by-products/sludge (comprising anaerobic digestion process, reception building, waste pre-treatment and decontamination equipment, and CHP equipment). Jonty completed a full performance/output specification, indicative drawings and tender documents. He also managed the procurement and tender evaluation process. Following tender evaluation, the project did not proceed due to funding restrictions.

Scottish Enterprise

Jonty undertook a feasibility study for a centralised anaerobic digestion facility to be located in Lockerbie Scotland. The project was funded by Scottish Enterprise and included a waste survey, feedstock model, technology assessment, site specific assessment including planning, licensing, and engineering. A financial model was also developed for the project.

Zero Waste Scotland

Jonty undertook the role of Project Monitor for Zero Waste Scotland for the 75,000 tpa Scottish and Sothern Energy Anaerobic Digestion Facility at Barkip in Ayrshire and the 16,000 tpa TEG Anaerobic Digestion Plant in Glenfarg, Perthshire.

Other Projects Undertaken (Further project references can be provided on request)

Beddington Farmlands Green Waste Composting Plant

Civils and process design, and construction supervision of an in-vessel forced air green waste composting facility, including development of Contract Documents and Specification.

Beddington Farmlands Skip Waste Plant

Civils design of reinforced concrete structures for a Skip Waste Plant, including detailing and scheduling of reinforcing.

Efford Leachate Treatment Plant

Design, construction supervision and biological commissioning of a leachate treatment plant in Hampshire designed to treat up to 150 m³/day.

Granish Leachate Treatment Plant

Construction supervision, technical support and biological commissioning of a leachate treatment plant in Scotland designed to treat up to 80 m³/day.



Mont Cuet Leachate Management

Assessment of the biochemical state of the landfill. Review of discharge consent conditions. Development of leachate management and disposal schemes. Implementation of selected leachate management scheme, including design, construction supervision and commissioning.

Dugas Industrial Wastewater Treatment Plant

Detailed process design of an industrial wastewater treatment system in Dubai for a petrochemical company, comprising oil interception, dissolved air flotation, chemical and biological oxidation, UV treatment and reverse osmosis

Eton College Rowing Lake

Planning Supervisor role for the construction of 3 reinforced concrete road bridges at the Eton College Rowing Lake; the Finishing Tower.

Contract support duties, preparing valuations and certifications for payment under ICE 5th Edition for the Eton Collage Rowing Lake construction Works.

Training Courses and Conferences

International Training Seminar, Control, Management and Treatment of Landfill Emissions (2000)

Wastecon Conference, Biennial Conference of the Institute of Waste Management of Southern Africa (2000)

WISSA Conference and Exhibition (2000)

Seminar on Needlepunched Geotextiles, technology and environmental engineering applications (2001)

EnvirosAspinwall Leachate Treatment Safari United Kingdom (2001)

The New Generation Group 5th National Event (2002)

Course on Working with the CDM Regulations (2003)

Course on NEC Conditions of Contract (2003)

Course on Civil Engineering Law and Contract Procedure (2003 to 2004)

CITB Managers Health and Safety Test (2004)

Standing Conference on Stormwater Source Control (2004)

Seminar on Biowaste: Digesting the Alternatives (2005)

Wastecon Conference, Biennial Conference of the Institute of Waste Management of Southern Africa (2006)

In-house Health and Safety Training course (2006)

CIWM 5th International Symposium on Waste Treatment Technologies (2006)

The Composting Association Annual Conference and Exhibition – Shaping the Future of Composting: The Road to 2013 (2006)

In-house Project Management Training course (2006)



Essentials of Management (2007) – Course run by Alfred McAlpine Academy

Practical Project Management (2011) – Mike Clayton Workshop

Coaching for Safety – Institution of Occupational Safety and Health (2016)

Publications

WISSA Conference and Exhibition, 2000:

Appropriate Biological Treatment of Landfill Leachates with Full Nitrification and Denitrification.

Wastecon Conference, 2000:

Investigation of Constructed Wetlands for Treating Landfill Leachates

Full Scale, On-site, Complete Treatment Solution for Landfill Leachates: A First for South Africa.

Masters Dissertation, 2003:

An Investigation into the Technical Feasibility of Using Vegetated Submerged Bed Constructed Wetlands for the Treatment of Landfill Leachate.

Sardinia, 2003:

Characterisation of contaminant removal achieved by biological leachate treatment systems.

Torbay, 2004:

Design and Operation of Cost-Effective Leachate Treatment Schemes at UK Landfills: Recent Case Studies (Published in CIWM Journal April 2005)

Dr Jenkins Memorial Competition, 2004:

Biological Treatment of Landfill Leachate - A Case Study

Torbay, 2006:

From Waste Water Treatment Works to Composting and Organics Recycling Facility

CIWM Journal, December 2006:

Launching Pod

Sardinia, 2011:

Full Scale Treatment of Landfill Leachates with Full Nitrification and Denitrification

