Steve Demmer

Environmental Engineer

- Email me on Indeed: indeed.com/r/Steve-Demmer/67035c0d697f4f74

WORK EXPERIENCE

Environmental Engineer

Belmont Water Treatment Plant - Philadelphia, PA - May 2011 to September 2013

Facilitated optimal operating conditions of a conventional drinking water plant that supplies water to all of West Philadelphia and neighboring communities

- Ownership over performing jar tests, chemical demand tests and filter inspections per American Water Works Association (AWWA) and in accordance with laboratory standards
- Assisted in publishing a paper evaluating the effects of pre-chlorine removal in reducing disinfection byproducts in drinking water produced at Belmont Water Treatment Plant
- Authored and updated Standard Operating Procedures (SOP) for various water plant operations including filter inspections, laboratory procedures, emergency plant response and chemical pumping systems
- Responsible for submitting monthly turbidity, plant flow, total organic carbon, residual sludge, chlorine and fluoride reports to the Pennsylvania Department of Environmental Protection (PADEP) and the Environmental Protection Agency (EPA)
- Developed and implemented training initiative for Drexel University interns involving daily lab and filter testing
- Organized and led Safety Committee meetings which addressed hazardous issues in and around plant premises and collaborated with plant management to determine best course of action to remediate safety issues
- Employed the use of turbidimeters, spectrometers, pH meters, titration, multiparameter sondes and other lab techniques/equipment to properly measure and identify water quality parameters
- Disinfected new and replaced water mains, pumping stations and reservoirs with a team of engineers according to PADEP regulations before putting said systems into service

Senior Design Project

- September 2009 to May 2011

Results oriented water Efficient Energy Using Submersed Geothermal System resources and • Completed study of a pond-loop geothermal system to heat and cool a residential complex environmental engineer • Utilized EQuest design software to determine theoretical heat load of residential complex

seeking an environmental • Measured heat gains and losses in modeled pond-loop system, utilizing temperature sensors

engineering position to in conjunction with data acquisition

 Established optimal placement of sensors for adequate data apply and expand capacity within the industry RELEVANT EXPERIENCE

Laboratory Assistant

Dudley Street - Philadelphia, PA - September 2009 to May 2011

Philadelphia, PA 19145 • One of three undergraduate students selected to work on a graduate project analyzing soil

samples collected from beaches in the Gulf of Mexico affected by an oil spill

- Utilized laboratory equipment to separate microorganisms from soil, plate and incubate microorganisms and observe plates for reactions with chemicals commonly found in petroleum such as benzene
- TEL Prepared laboratory reagents under supervision of graduate student according to established procedures

908.770.3512

- Extracted microbial DNA from soil samples with DNA extraction kit
- Amplified and characterized DNA using polymerase chain reaction technique (PCR)

EDUCATION

Bachelor of Science in Civil & Environmental Engineering

Temple University - Philadelphia, PA May 2011

ADDITIONAL INFORMATION

CERTIFICATIONS & SKILLS

- Water Treatment Plant Operator Certification AutoCAD
- Maximo Asset Management Software Microsoft Office Suite steve.demmer@gmail.com ABB Distributed Control System (DCS) Vista Data Acquisition Software