

TOBIN R. STETSON, P. Eng

Soil & Water Conservation Engineer

Prince Edward Island Department of Agriculture & Land

EDUCATION

- Bachelor of Civil Engineering (Cooperative Education), Dalhousie University, Halifax, NS, 2009
- Engineering Diploma, University of Prince Edward Island, Charlottetown, PEI, 2006

PROFESSIONAL ASSOCIATIONS & AFFILIATIONS

- Association of Professional Engineers of Prince Edward Island
- Prince Edward Island Soil and Crop Improvement Association Member

WORK EXPERIENCE

April 2018 - Current

Prince Edward Island Department of Agriculture – Soil & Water Conservation Engineer

Providing technical advice, design and project management for the department, farmers, agriculture industry groups and landowners on soil and water conservation practices using advanced GIS, UAV, GPS and CAD technologies. Technical advisor for various federal provincial agri-environmental assistance programs including soil conservation, irrigation and water supplies. Extensive work with erosion control modelling, in field designs and construction and advice to mitigate erosion risks on private farmland and demonstrate and promote sustainable farming practices. Provide technical advice and design of agricultural irrigation and water efficiency projects. Conduct field trial research to hypothesize and validate the affects of various agriculture BMP's. Complete Agriculture Crop Rotation Act (ACRA) field management plans for farms applying for variances to the provincial crop rotation act and advisor to farms on the alternative land use services (ALUS) Program.

June 2014 – April 2018

IDEA Group Inc. - Civil Engineer (Stratford, PEI & Calgary, Alberta)

Municipal engineering work experience includes onsite construction management, technical site inspections, project management and detailed civil design. Significant AutoCAD and Civil3D design knowledge while working on civil design models to produce civil engineering drawings of grading plans, road, highway, subdivision design and underground utility networks. Other tasks include project specific erosion and sedimentation control design and implementation, project management, budgeting, tenders, contracts and scheduling experience on \$1,000,000 to \$50,000,000 civil projects for private clients developing real estate and land development in the City of Calgary and surrounding areas in western Canada. Notable projects I was involved with include Jacksonport Industrial Development, Saddleridge Business Park, Deerfoot Mall redevelopment, various Canadian Tire retail developments.

January 2009 – June 2014

Stantec Consulting Ltd. – Engineer In Training (Charlottetown, PEI)

Completed geotechnical and environmental site assessments for private and public projects including tasks such as designing and conducting groundwater and soil quality investigations and reporting, site monitoring of soil and water contamination and other environmental and geotechnical field programs in challenging and difficult conditions while working with co-workers and sub-contractors to complete timely and effective projects on strict budgets. Notable projects I was involved with were the Winsloe Well Field Groundwater exploration project for the City of Charlottetown (2009-2013), multiple PWGSC Small Craft Harbour Subsurface Investigation for the Federal Government, geotechnical investigations for PEI TIR highway and bridge programs and the Charlottetown Convention Center (2012)

PUBLICATIONS

Characterizing potato yield responses to water supply in Atlantic Canada's humid climate using historical yield and weather data: Implications for supplemental irrigation, Yefang Jiang, Matthew Ramsay, Fanrui Meng, Tobin Stetson, Agricultural Water Management, Volume 255, Sept 1, 2021

CONFERENCE APPEARANCE

Soil Health Planning, K Stiles, T Stetson, International Potato Technology Expo, March 2022

TRAINING

ArcGIS Pro: Essential Workflows – Esri Canada Training Course, March 2020