

LISA L. TURNER, P.E., L.S.S.

EDUCATION

B.S. – Civil Engineering, with highest distinction, University of Maine, 1984
B.S. – Soil Science, with highest distinction, University of Maine, 1984

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Professional Engineer – Maine
Licensed Soil Scientist – Maine

EMPLOYMENT HISTORY

2021 to present – Sevee & Maher Engineers, Inc., Cumberland, Maine, Project Manager/ Senior Project Engineer
2016 to 2017 – Sevee & Maher Engineers, Inc., Cumberland, Maine, Project Manager/Environmental Engineer
1997 to 2021 – Laughing Stock Farm, Freeport, Maine, Owner/Manager
1986 to 1992 – Sevee & Maher Engineers, Inc., Cumberland, Maine, Hydrogeologist/Project Engineer
1984 to 1986 – E.C. Jordan, Portland, Maine, Project Engineer
1981 to 1982 – Univ. of Maine Plant and Soil Department, Orono, Maine, Soil Laboratory Technician

AFFILIATIONS

Maine Vegetable and Small Fruit Growers Association (MVSFGA) – member; past president and board member
Maine Organic Farmers and Gardeners Association (MOFGA) – past president and board member
Greater Freeport Chamber of Commerce – past treasurer and board member

APPOINTMENTS

Land for Maine’s Future Board – 2016 to 2021

AWARDS

Commissioner’s Distinguished Service Award, 2014 – Maine Department of Agriculture, Conservation, and Forestry

PROFESSIONAL EXPERIENCE

Ms. Turner has been involved in solid and hazardous waste site feasibility studies, landfill design, monitoring, and hydrogeologic computer modeling. She has conducted exploratory field investigations to evaluate site suitability for acceptance of wastes; used computer groundwater models to evaluate groundwater and chemical transport; prepared waste management designs at feasibility and final design level; and monitored landfill construction. Projects she has been involved in have required coordination with: test boring and test pitting contractors, surveyors, site evaluators, geologists, chemical engineers, hydrogeologists, and general contractors.

Typical assignments in her various areas of expertise include:

Solid Waste/Landfill

- Prepared landfill designs for solid waste landfills including landfill base grades, liner systems, operating plans, access roads, surface water drainage, leachate generation estimates, leachate collection systems, pump sizing, leachate pond sizing, erosion control calculations, detention ponds, closure caps, and cost estimates.
- Monitored test pitting and drilling on numerous sites in support of landfill development, subdivision development, and geotechnical investigations;
- Prepared computer groundwater model to predict possible failure scenarios for a proposed paper mill landfill;
- Performed Hydrologic Evaluation of Landfill Performance (HELP) model calculations for numerous landfills;
- Interpreted geologic data including test pit logs, boring logs, and seismic logs to prepare geologic profiles for numerous sites;
- Performed site searches for new paper mill landfills, including evaluating soil surveys, geologic maps, seismic maps, and sand and gravel aquifer maps; review of state regulatory requirements, and site reconnaissance to locate potential sites with suitable characteristics; monitored test pitting and drilling to evaluate new sites;
- Performed construction monitoring for conventional and secure landfills in central Maine. Responsibilities included daily inspections of construction contractor to ensure that construction progress followed plans and specifications, review clay and synthetic liner testing data, and review of payment quantities and budgets;
- Designed demolition debris transfer station including access road, retaining wall, and interim waste storage bin;
- Reviewed water quality data for annual reporting for numerous sites and made recommendations for monitoring programs; and
- Performed hydrogeologic evaluations, including review and analysis of data and incorporation of various numerical and analytical computer groundwater models.

Site Development

- Prepared Maine Department of Environmental Protection permit applications for sand and gravel and clay borrow pits;
- Prepared a Natural Resource Protection Act (NRPA) permit for coastal development;
- Performed soil mapping for selection of appropriate sites for land application of industrial wastes, residential development, gravel pit permitting, and wetlands;
- Performed analysis of soil stability and settlement for foundations for oil storage tank, access road, and group residential building ;
- Prepared groundwater models to predict nitrogen pathways from septic systems in numerous large subdivisions to evaluate safety of potable water both on and off site; and
- Prepared grading plan and drainage for 75' by 96' gutter-connect greenhouse.

Site Evaluation and Remediation

- Prepared 2.5D computer groundwater model of a 2.5 square mile area to characterize and predict flows of groundwater and contaminants for an old landfill under consent decree with U.S. Environmental Protection Agency;
- Managed evaluation and cost estimate for remediation of asbestos at a paper mill;
- Performed Phase I Environmental Site Assessment; and
- Studied the statistical correlation between the properties of organic chemicals and their affinities for various soils, based on measurable soil characteristics.

Research

- Performed chemical and physical analyses to assist in Soil Conservation Service classification of the soils of Maine; and
- Developed analytical method for estimating seepage through engineered RCRA Subtitle C surface impoundments for U.S. EPA.