

DENIS G. STEVENS

Head, Ecology

Year of Birth: 1945

Citizenship: Canadian

Education: B.A. (Social Science), 1971
B.Sc. (Ecology), 1973
M.Sc. (Ecology & Resources Planning), 1978
Ontario Diploma in Agriculture (in progress), University of Guelph

Memberships: Canadian Botanical Association: Canadian Society of Environmental Biologists
Ecological Society of America

Languages: English

EXPERIENCE

- 1983 Environmental Assessment Coordinator, Regina Waste Management Plan, City of Regina
- preparation of the final report site selection and constraint mapping write up; coordination of report production for submission to review agencies.
- Site selection, Ontario Waste Management Corporation Facilities, Toronto
- member of working group on site selection/constraint mapping methods and techniques for candidate areas.
 - advisor to project manager on subconsultant selection and liaison; natural and agricultural resource technical issues selection of candidate areas.
 - consolidation, analysis and final report preparation.
- GO-ALRT - transit project, Whitby to Oshawa, Ontario Ministry of Transportation and Communications.
- environmental coordinator east subsection.
 - senior natural scientists for supervision and review of environmental impact and design considerations; fisheries, vegetation, agriculture, soils and wildlife for project coordinator.
 - supervision of landscape design component.

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1983

Technical Project Manager, Beaufort Sea Ocean Dumping Control Act Feasibility Study for Ocean Dumpsites, Environmental Protection Services Yellowknife, Northwest Territories

- coordination of project, report writing and production, supervision of technical staff for constraint mapping, environmental analysis and evaluation of potential dump sites and ODCA procedures in Beaufort Sea.

Senior Environmental Scientist, Groff Mill Creek Channelization, City of Cambridge

- environmental impact analysis and environmental design input for stream channelization through urban conservation area. Involved presentation to City Council, field assessment and report.

Senior Environmental Scientist. Highway 407, Ministry of Transportation and Communications

- multi-disciplinary environmental evaluation and route selection for section of Highway 407 near Brampton.

Project Manager for review of CO₂ and the Terrestrial Biosphere, Canadian Climatic Centre, Environment Canada

- extensive review of current literature on the terrestrial component of CO₂ in the biosphere as the initial study phase of an analysis of the impact of atmospheric CO₂ on world climate.

1982

Environmental Assessment, Highway 406 - Ministry of Transportation and Communications

- preparation of the final comprehensive single stage submission document (under the Environmental Assessment Act) detailing the environmental assessment of Highway 406 in Welland, Ontario.

Key components involved water quality analysis, road soil contamination model, potential ecological and hydro-geological effects of highway crossings of Old Welland Canal and Welland River.

Environmental Coordinator for Environmental Assessment of Sault Ste. Marie Landfill, City of Sault Ste. Marie

- completion of Environmental Assessment for the proposed landfill under the Environmental Assessment and Environmental Protection Acts
- site selection and constraint mapping, leachate contamination of ground and surface water and remedial measures.

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Project Manager, Environmental Impact Assessment, land development proposal, Pickering

- comprehensive impact assessment of the impact of proposed development on natural ravine and headwaters area for a private client.

Expert Witness, Ecological analysis and testimony before the Niagara Escarpment Commission Hearings

- impact of quarry development on Escarpment forests, headwaters and wetlands.

Environmental Coordinator, Environmental Assessment, Beach Strip Arterial, Ministry of Transportation and Communications

- evaluation of the potential impact of the highway on Hamilton Bay and Redhill Creek marsh.

Environmental Coordinator, Coniston Flood Control project, environmental assessment and cost benefit analysis of flood control options.

Erosion - Sediment Control Manual, Urban Drainage Committee

- criteria and guidelines for a comprehensive erosion sediment control program

- manual of methods, standards and specifications

Project Manager, Environmental Inspection, Western Area Looping Program, TransCanada PipeLines Limited

- project management of Inspection program for pipeline construction in Saskatchewan and Manitoba.

Senior Natural Scientist Environmental Assessment, Highway 407, Ministry of Transportation and Communications

- coordination of natural environment evaluation impact assessment and mitigation for route alternatives and selected route.

Environmental Coordinator, Environmental Evaluation, Blackbridge Road, City of Cambridge

- coordination of impact assessment
- route selection and impact evaluation of crossing of Speed River, involving natural environment, social and planning information.

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Highway 406, Ministry of Transportation and Communications (Type I Submission) Type I Environmental Assessment natural environment inventory and evaluation; analysis of alternative routes and environmental impact.

Wetland Study, Ministry of Transportation and Communications
- study design and baseline study on the impacts of highway construction on a range of wetland ecosystems

Botanical inventory and rare plant study for Central Region, Ministry of Transportation and Communications.

Project Manager, Environmental Inspection Program, Central Area Looping Projects, TransCanada PipeLines Limited
- supervision of inspection program, Northern Ontario
- special studies on fisheries and stream crossings

Evaluation of Proposed Onakawana River diversion on fisheries and aquatic ecosystems

Environmental Coordinator, Environmental Assessment, Ridge Landfill
- natural systems inventory and impact analysis
- expert testimony before the Environmental Assessment Board

Project Manager, Environmental Inspection Program, Western Area Pipe Replacements, TransCanada PipeLines Limited
- supervision of inspection program Manitoba and Saskatchewan
- mitigation schemes for protection of prairie soils and revegetation.

Project Manager Environmental Inventory Central Ontario Area Air Master Plan, Transport Canada
- baseline inventory of natural environment for 29 airports
- constraint mapping and impact analysis for airport development scenarios
- master planning for airport system.

Environmental Coordinator, Environmental Assessment, Oxford County Landfill
- inventory and analysis of natural environment
- expert testimony before the Environmental Assessment Board.

Project Manager, Falcon Creek revegetation study, Regional Municipality of Halton
- evaluation of soil erosion process and reclamation options
- preparation of revegetation program to establish native forest vegetation.

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- 1981 Cooksville Creek Environmental Assessment, Credit Valley Conservation Authority
- assessment of riparian ecosystems and evaluation of planned development impacts.
- Environmental Assessment and Route Evaluation, TransCanada PipeLines Limited
- . in fulfillment of National Energy Board requirements for route approval in Eastern Ontario.
- 1980 Head, Environmental Assessment, with responsibility for:
- Mineral Aggregate Transportation Study, Ministry of Natural Resources; analysis of environmental effect for supply and transportation models.
- Environmental Assessment of the Haldimand-Norfolk Regional Water System, Ministry of the Environment, to satisfy Conditions of Exemption from the Environmental Assessment Act.
- Environmental Assessment under the Environmental Assessment Act (Ontario) for a liquid waste solidification facility, Browning Ferris Industries.
- Highway 404, Ministry of Transportation and Communications:
- Type II environmental assessment of the facility
 - environmental construction guidelines.
- Development of inspection and monitoring program for the Environmental Inspector Program, Ontario Ministry of the Environment, Haldimand-Norfolk Regional Water System.
- Environmental Inspector Program, Eastern Area Pipe Replacements, TransCanada PipeLines Limited project management.
- Environmental surveys and analyses, land development projects for private clients Pickering, Scarborough.
- Initial Environmental Evaluation Salmita Gold Mine, NWT, Giant Yellowknife Mines.
- Biological inventory and evaluation, Stisted Landfill
- impact of proposed landfill on natural ecosystems including wetlands and stream fisheries.

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1979

Senior Ecologist with responsibility for:

PCB Storage Study, Ontario Ministry of the Environment

- criteria for location of sites for storage
- site evaluation and impact analysis.

East Metro Transportation Corridor Study, Ministry of Transportation and Communications

- environmental impact analysis of proposed transportation corridor
- Type 1 environmental impact assessment for corridor

E.C. Row Expressway, Ministry of Transportation and Communications

- review of environmental impacts, construction guidelines

Burlington Landfill Extension, Regional Municipality of Halton

- environmental inventory and evaluation
- design of mitigation measures.

W. Darcy McKeough Dam and Diversion, St. Clair Region Conservation Authority; fish monitoring survey and assessment of spawning potential.

1973 - 1979

Principal and Director, Biosystems Environmental Consultants (Ltd.), Guelph. Engaged on the following projects:

- Minesing Swamp Master Plan
- Rondeau Park Master Plan
- Harbourfront Park, Toronto, environmental design criteria
- Criteria for Canadian Drinking Water Standards (1976, 1977) Phases I and III
- Maxwellton Braes Environmental Impact Assessment and Ontario Municipal Board Hearing
- A Study of the Smith Falls Wetlands
- Aberfoyle Creek, Mini Lakes Country Club Environmental Impact Assessment
- reclamation/Revegetation research for federal STE Program

1973 - 1974

Ecologist/Planner for the ecology section of the environmental impact study on high voltage transmission lines for Ontario Hydro, conducted by the University of Guelph (Centre for Resources Development).

1968 - 1969

Field Biologist, Ontario Ministry of Natural Resources, Parry Sound District and Swastika District.

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TECHNICAL PAPERS

Criteria for Development, Canadian Drinking Water Standards, Health and Welfare, Canada 1977, in collaboration with R.W. Steel and L. Hermanutz.

Locate Hydro. Centre for Resources Development, University of Guelph. 1975, with J.M. Haggarty, R. MacDonald, E.C. Gray, J.D. Milliken, D.W. Smith, and L.M. Wester.

Ecological Planning and Location Criteria for Minimizing Environmental Impact for Ontario Hydro, Centre for Resources Development, 1974, with D.W. Smith, T.S. Dai, and R. Suffling. 88 pp.

Plant Community Age as a Measure of Sensitivity of Ecosystems to Disturbance, J. Environmental Management, 1975, with D.W. Smith, R. Suffling, and T.S. Dai.

Species Diversity of Selected Ecosystems in Southern Ontario. Paper presented at the Canadian Botanical Association Conference, 1980, Vancouver.

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