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We are a geographic information system (GIS) consultancy providing data management, spatial analysis, cartography, and workflow automation for clients including environmental non-profits, governments, indigenous organizations, and municipal planners. In business for more than a decade, Feaver's Lane has local, provincial, and national experience, and the independence, commitment, and flexibility to work in the client's best interests.

## Paola Vincent

St. John's, Newfoundland and Labrador, GIS Consultant

### Background

- Memorial University Graduate (Bachelor of Science, major in Geography, minor in Biology).
- Studies focused on physical geography, geographic information systems, conservation, and marine biology.
- Technical training and experience in cartography and spatial analysis for various applications including species and habitat protection, restoration, and enhancement, and in aeronautic and marine remote sensing/surveying and imagery processing.
- Provides GIS support to over 20 municipalities across Newfoundland and Labrador. Collaborates closely with planners including John Baird, Stephen Jewczyk, Mary Bishop and Elaine Mitchell on projects ranging from zoning amendments to municipal plan development.

### Municipal Planning Projects and GIS Support (alphabetical)

- Bishops Cove: Providing mapping and data support to planner Stephen Jewczyk in developing the first municipal plan for the community.
- Clarke's Beach: Provided 911/civic mapping for submission to GIS Emergency Services - 911 Division.
- Cupids: Provided 911/civic mapping for submission to GIS Emergency Services - 911 Division.
- Deer Lake: Provided mapping and data support to planner John Baird for several amendments to the town's current land use and future use zoning as well as a project location map for Environmental Assessment.
- Ferryland: Provided mapping and data support to planner Mary Bishop for property location maps.
- Forteau: Provided mapping and GIS/data support for amendments with planner John Baird.
- Glovertown: Provided mapping and GIS/data support for amendments with planner John Baird.
- Greater Miramichi Service Commission (GMSC): Working with planners from We6 Planning to provide mapping and GIS support for a Rural Planning project within the GMSC. This included the development of overview and thematic maps to support community consultations, as well as the production of final planning maps for the official rural plan.

- Heart's Content Municipal Planning: Provided mapping and data support to planner John Baird in developing the first municipal plan for the community.
- Irishtown – Summerside: Provided mapping and GIS/data support for amendments with planner John Baird.
- Logy Bay – Middle Cove – Outer Cove: Providing GIS support, survey digitizing, and mapping products. This includes current and future land use zones and environmental maps with planner Stephen Jewczyk, as well as an online mapping portal for the town. Held one-on-one QGIS training for LBMCOG Project Manager & Development Officer.
- Millertown: Provided mapping and data support to planner John Baird in developing the first municipal plan for the community.
- Mount Carmel-Mitchells Brook-St. Catherines: Provided GIS support, survey digitizing, and mapping for crown lands application.
- New-Wes-Valley: Provided 911/Civic mapping as well as developing and delivering desktop GIS training modules for various town office members. Collaborated with planners Mary Bishop and Elaine Mitchell to conduct spatial screening analyses for identifying suitable areas for residential zoning changes. Provided interactive online mapping tools, field maps and amendment maps to support planning decisions and community consultations.
- Paradise: Provided mapping and GIS/data support for amendments with planner Stephen Jewczyk.
- Petty Harbour – Maddox Cove: Provided GIS support, survey digitizing and mapping for various uses.
- South River: Provided mapping and GIS/data support for amendments with planner Stephen Jewczyk.
- Springdale: Provided mapping and GIS/data support for amendments with planner John Baird.
- St. Lawrence: Provided mapping and GIS/data support for amendments with planner Mary Bishop.
- Stephenville: Provided mapping and GIS/data support for amendments with planner John Baird.
- Terra Nova: Provided mapping and GIS/data support for amendments with planner John Baird.
- Witless Bay: Currently providing mapping for various town projects, survey digitizing, and crown land applications.

## **GIS Projects with Municipal Applications**

- Regional Trails Strategy: Leads spatial data acquisition, geographic information system (GIS) mapping, and development of an interactive online trail map with embedded data collection tools for the Western New Brunswick Regional Trails Strategy. Designed and deployed Survey123 forms for both public and on-trail expert engagement during the project's assessment period. Integrated spatial data and feedback into a regional GIS, supporting stakeholder engagement and strategic trail planning across diverse user groups.
- Province-Wide Tourist Map Updates: Led the update of the Newfoundland and Labrador's official tourist map, applying both GIS and graphic design skills to modernize a long-standing project. Conducted a comprehensive quality check of a legacy project folder used for over a decade, resolving file path issues and data incompatibilities caused by outdated software and workflows. Successfully integrated all mapping components into ArcGIS Pro,

ensuring seamless function across map layers and templates. Advised the client on best practices for future updates, including file structure improvements and sustainable editing workflows.

- Freshwater/Alexander Bay Ecosystem Corporation (FABEC) Online Mapping: Currently working with Freshwater-Alexander Bays Ecosystem Corporation supporting water monitoring in the Terra Nova River watershed to identify areas of concern for fish passage and habitat. Initial spatial screening was conducted to identify suitable temperature logger deployment. Ongoing support to convert field data into a comprehensive online map and information resource.
- Aboriginal Traditional Knowledge (ATK) and Traditional Territory Mapping: First performed data cleaning and standardization of internal and public ATK for Qalipu First Nation (QFN). This data underwent importance rankings and spatial aggregation to draft a traditional territory delineation and presented it to QFN staff, councilors and members.
- Community Coastal Resource Inventory: The existing Coastal Community Resource Inventory (CCRI) for the Island of Newfoundland, created during the period of 1996 to 2007, has been scheduled for an update starting in 2021/2022. Feaver's Lane was tasked with updating the CCRI for the St. Georges Bay - Port au Port area, by conducting virtual interviews to gather information. This involved outreach, virtual interviews that involved an ESRI collector app to digitize information during interview process, data cleanup and a summary report.
- Fisher's Knowledge Transformation: Digitizing 3Ps harvesters' knowledge of fishing practices and changes over time. Fishing grounds and associated information were mapped by harvesters on large format paper maps of varying scales. Digital spatial data and recommendations on survey methods were delivered to the Fish Food & Allied Workers Union.
- Labrador Coastal Characterization: Digitizing coastal characterization for the Labrador Coast to be published in a Coastal Risk Assessment report and GeoAtlas NL and used to support identification and prioritization of coastal habitat restoration sites by World Wildlife Fund (WWF) Canada and the NunatuKavut Community Council.
- Coastal Restoration Sites Mapping: High-resolution mapping and change (erosion/deposition) detection of beach systems in Conception Bay which required both field work and post data processing. Assisted in gathering remote sensing and elevation data and transforming raw data into comprehensive maps. UAV/drone, ROV and surveying equipment were used in the field, and Agisoft and ArcGIS were used for post-fieldwork geoprocessing.

For additional details, please see Paola's resumé at <http://feaverslane.com/team>.