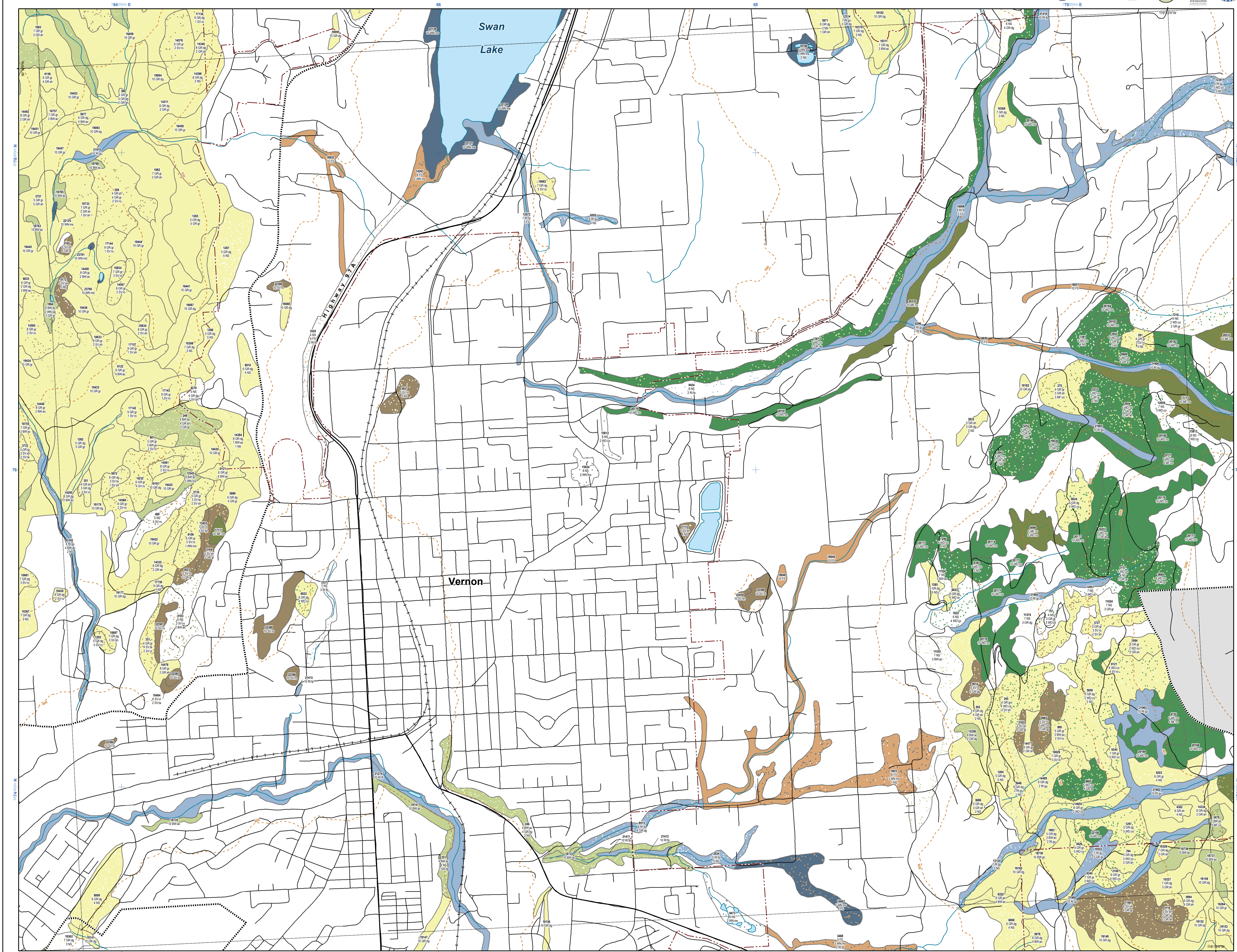
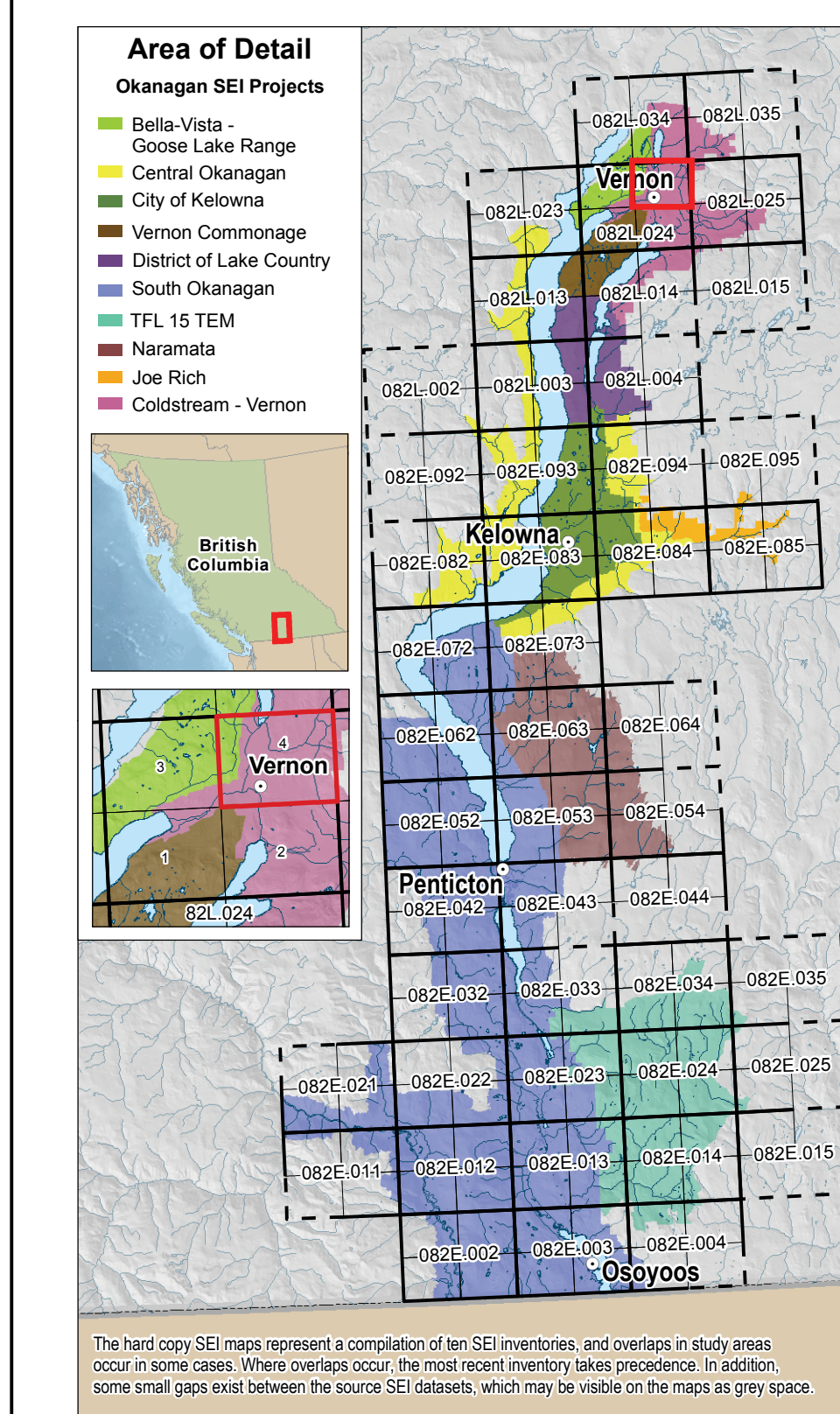


Sensitive Ecosystems Inventory of the Okanagan Valley: Vernon to Osoyoos



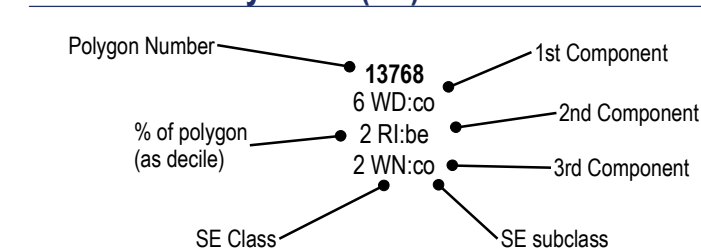
82L.024.4



Map Symbols

- Polygon Boundary
- Study Area Boundary
- Rivers
- Lake/Major River
- Buildings
- Roads
- Highways
- Municipal Boundaries
- Rail Line
- Areas Outside the Okanagan Study Area
- 100m contours

Sensitive Ecosystems (SE) Label



The example label above indicates the SEI attributes reported for polygon 13788. 6% of the polygons in 2010 are Confined Woodland. 20% of the polygons in 2010 are Old Forest. Confined.

NS are modified (non-sensitive) landscapes. Please refer to the legend for more information about these areas. The areas that are not included in the SEI are not included in the SEI. The areas that are not included in the SEI are not included in the SEI.

Ecosystem Components

This cartographic product uses Dot Density to indicate where more than one ecosystem class is mapped in a polygon. The number of dots indicates the proportion of the polygon represented by the 2nd and 3rd ecosystem. The colour of the dots indicates the 2nd and 3rd ecosystem class.

The base colour represents the first ecosystem component. Coloured dots overlaid upon the base colour indicate a second ecosystem component. Two colours of dots indicate a second and third ecosystem.

Note: The actual placement of the dots has no significance; they are randomly placed within each polygon.

The SEI data are based on 1:10,000 scale aerial photos that are displayed here at 1:10,000 scale. The SEI data are based on 1:10,000 scale aerial photos that are displayed here at 1:10,000 scale.

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WHAT IS A SENSITIVE ECOSYSTEM?

For the purpose of this study, an ecosystem is considered to be a portion of the landscape with relatively uniform dominant vegetation that are ecologically sensitive and/or at risk in the landscape.

Rationale

The Okanagan Valley region covers one of the most rapidly growing population centres of British Columbia, and development pressure is escalating. The area is under intense pressure due to urban and rural human settlement as well as extensive agricultural conversion and has experienced significant changes in its land cover. The ecosystem mapping project is a means to identify the remaining sensitive ecosystems in the Okanagan Valley. The SEI is intended to provide a tool that uses scientific information and mapping to encourage local governments, landowners, developers, and other citizens to become involved in protecting, conserving, and restoring sensitive ecosystems.

The purpose of the SEI Okanagan Valley project is to combine all of the various SEI projects that have been completed in the Okanagan Valley from Vernon to Osoyoos, and to consider and present them as a whole in mapped form to aid use planning and to encourage landscape-level conservation planning at multiple scales, including regional and basin-wide. The project deliverables include 100 SEI maps at a 1:10,000 scale on a Terrain Raster Information Management (TRIM) base, and a series of reports. The individual project reports detail the methods used, study results, descriptions of the ecosystems, and conservation tools for management (see References section).

Study Area

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Ecological Significance

The Okanagan Valley is characterized by a complex landscape of rugged, steep, rocky terrain and gently sloping terraces. These formations result from glacial lakes and the movement of materials by melting on during the retreat of the last glaciers. The complex, arid status for species and ecological communities is determined by the B.C. Conservation Data Centre (CDC), a member program of the International NatureServe network. The CDC list of Ecological Communities can help to determine if a particular ecosystem is representative of an at-risk ecological community.

Inventory Results

Many of the sites identified by the SEI are at high risk of conversion to other land uses or further development. Within the study area, 47.5% was mapped as Sensitive Ecosystems (SE) and 7.9% fell into the Other Important Ecosystems (OIE) category (see Legend). The inventory results indicated that wetlands, broadleaf woodlands, antelope-brush steppe, sagebrush steppe and old forest ecosystems were relatively rare - covering less than 5% of the study area. Although areas of grasslands, coniferous woodlands, and mature forests remain, many have been altered significantly and therefore few high quality sites remain. The study found many SEI that have been degraded by fragmentation, human use, livestock grazing, and alien species.

Species at Risk

The large variety of ecosystems in the Okanagan Valley provide for diverse habitat needs of many wildlife and plant species, including a remarkable number of at-risk species and ecological sensitivity. Sensitive ecosystems are extrinsically, endangered, or threatened. Some listed species are of special concern due to low declining populations and are sensitive to human activities or natural events. Nationally at-risk species are tracked by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) as Endangered, Threatened, or of Special Concern. Endangered species have imminent extinction or reduction. Threatened species may become endangered if limiting factors are not reversed. Species of Special Concern are particularly sensitive to human activities or natural events. Endangered or

species and ecological communities, including some ecosystems unique to Canada. Broadleaf woodlands, antelope-brush steppe, sagebrush steppe, wetlands and old forest ecosystems, once well-represented in the Okanagan Valley, have become rare. Historical ecosystem mapping (1980s to present) shows losses of greater than 90% of some ecosystem types in the Okanagan Valley.

Healthy, functioning natural ecosystems play an important role in adapting to and mitigating the impacts of climate change. Climate change adaptations such as reducing stressors, improving ecosystem condition, and landscape connectivity contribute to ecosystem resilience and adaptive capacity in the future. The ecosystems mapped in this project are ecologically significant because of their rarity and fragility and also for the important ecosystem services they provide, such as climate regulation, water filtration, productive soil, carbon sequestration, nutrient cycling, pollination, wildlife habitat and more. Sensitive ecosystems remain, it is essential that each site be carefully considered and all land use options be fully evaluated prior to initiating any changes in these areas.

Acknowledgements

Project partners include: B.C. Ministry of Environment, Environment Canada (Canadian Wildlife Service), the Allan Brooks Nature Centre, Regional District of Okanagan Similkameen, Regional District of Central Okanagan, City of Kelowna, City of Vernon, District of Lake Country, Weyerhaeuser Canada Ltd., District of Coquitlam, City of Kelowna, and the Regional District of Central Okanagan.

Financial or in-kind support for the projects was provided by the B.C. Ministry of Environment (B.C. Conservation Data Centre), Environment Canada (Canadian Wildlife Service), the Allan Brooks Nature Centre, Regional District of Okanagan Similkameen, Regional District of Central Okanagan, City of Kelowna, City of Vernon, District of Lake Country, Weyerhaeuser Canada Ltd., District of Coquitlam, City of Kelowna, and the Regional District of Central Okanagan.

Cartography: Lisa Zedler and Ann Byl (Calyx Consulting Ltd.) for B.C. Conservation Data Centre, Environment Canada (Canadian Wildlife Service). Thanks to Alan Haney, Mike Savelle, Kristi Vernon, Carmen Castro, JoAnne Stacey, and Kim Dowell for their assistance in developing the map set.

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Information and access to full reports and map products for the Okanagan Valley SEI projects are available at EcoCan: <http://www.env.gov.bc.ca/ecocan/> (Type in SEI Okanagan Valley or the project area name as a keyword).

Related Publications and Links

Green Bytes Toolkit for Conserving Sensitive Ecosystems and Green Infrastructure: www.greenbytes.ca

The Toolkit contains practical examples of bylaws provisions currently in use in B.C., including model provisions for Regional Growth Strategies, Official Community Plans, Development Permit Areas, Zoning, Tax Exemptions, Environmental Assessment, Stormwater Management and other regulatory tools. It includes several examples and case studies of successful green infrastructure projects and bylaws.

Climate Change: Wilson, S. and R.H. Hobbs. *Mitigating and Adapting to Climate Change through the Conservation of Nature*. Available at: www.landinfrastructure.ca/research.html

Developed with Care: *Environmental Guidelines for Urban and Rural Land Development in British Columbia*. BC Ministry of Environment.

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Goldstream - Vernon. Iverson, K. and P. Ulinia. 2008. *Sensitive Ecosystems Inventory: Goldstream - Vernon*. 2008. 120,000 maps.

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Green Bytes Toolkit for Conserving Sensitive Ecosystems and Green Infrastructure: <http://www.greenbytes.ca>

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