



GeoREST Provides Open, Searchable Access to Government Geodata

Haris Kurtagic, SL-King

Geoff Zeiss, Autodesk

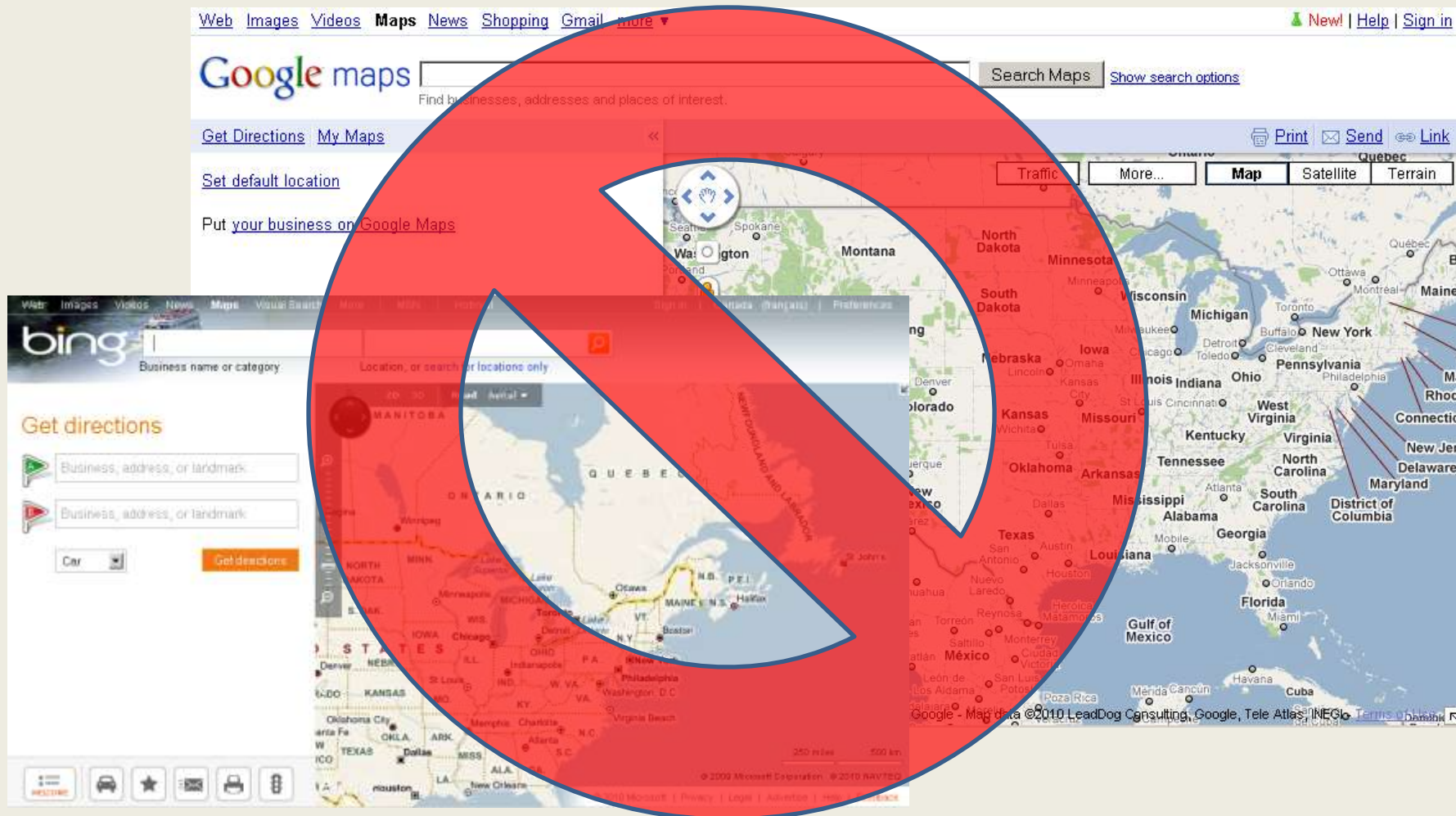


Tim Berners-Lee, in *Government Data Design Issues*, proposes

- Geodata on the web in raw form.
- Raw geodata must be searchable



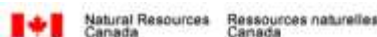
How do you find raw geospatial data ?





Open Government Directive Agency Datasets

An underlying goal of the **Open Government Initiative** is to change the culture of information dissemination data more widely available in more accessible formats. As one of the flagships of the Open Government Initiative, Federal datasets that increase public understanding of Federal agencies and their operations, advance transparency, and increase transparency, accountability, and responsiveness across the Federal Government. **Government Directive** specifically required agencies to register at least three new high-value datasets submitted to Data.gov both before and after the January 22 deadline are high-value, agencies have registered below as new "high value" datasets in accordance with Open Government Directive provisions.



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[Natural Resources Canada](#) > [Earth Sciences Sector](#) > [GeoGratis](#)

"RAW" DATA



Department of Agriculture

Name (click)

Census of Agriculture
2007 Census of Agriculture
the race, ethnicity

Feed Grains
Downloadable data

Home Blog Data SPARQL Apps Ideas Forums

Home > Data > List all datasets

List all datasets

Your search returned 3148 records

first previous 1 2 3 4 5 6 7

Acute sickness

The prevalence of self-reported acute sickness among adults in interview. Source: Department of Health (DoH) Public Health Survey.

Tags: health

data.gov.uk

L M N O P Q R S T U V W X Y Z



Open Data Catalogue Beta v2

Residents Business Visitors Jobs with the City Services Departments City Projects Pay & Purchase Online

Open data home

Get the data

Data catalogue

City web feeds

About the data

Data formats

Data updates

Terms of use

Feedback



Park polygon features

March 19, 2010

The City has just added park polygon features. Park polygon features show a filled-in green area representing the boundaries of the park. This may add significantly to the look of the map and make it easier to recognize and use.

Please feel free to provide us with feedback on this or any other aspect of the Open Data website on our feedback page. As always, your use of the data available

Take our survey
Which data items would you still like to see added to the City's Open Data site?

Data updates
Receive updates on developments related to this site:
Subscribe to the RSS feed
Subscribe to the mailing list

Connect with the Community

Community developers have created a wiki and discussion group to share application ideas and discuss datasets.

Vancouver Open Data Wiki
Discussion Group

Please note: These community sites are not affiliated with the City of Vancouver.



Data Catalogs

Your search returned 3148 records

first previous 1 2 3 4 5 6 7 8 9 next last

★ **FEMA Public Assistance**
Through the PA Program of assistance for debris removal

Department of Housing

Name (click for metadata)

★ **FHEO Filed Cases**
The dataset is a list of all federal housing discrimination complaints including the case number

★ **Multifamily Housing**
HUD's Real Estate Assessment of multifamily housing subsidized by HUD, including

★ **Public Housing Agency**
The dataset contains current Rental Voucher Program information

★ **Public Housing Physical**
HUD's Real Estate Assessment of public housing subsidized by HUD, including

★ **SEMAP Performance**
HUD's Section Eight Management Performance housing agencies (PHAs) to

Department of the Interior

Name (click for metadata)

★ **Federal Volunteer Corps**
Extract of open volunteer positions

Human Caused Fire

Number of wildland fires and acres burned as a result of human causes, from 2001 through 2008 (updated



Photograph by Jake Norton

DOI/BIOM

Natural Resources

preceding a survey

local

(ing). Affordable

local

ending). These

Support



Wouldn't it be nice if...

The image is a side-by-side comparison of two search engines, Bing and Google, both performing a search for '2323 rosstown road, nanaimo'.

Bing Interface (Left):

- Search bar: 2323 rosstown road, nanaimo
- Navigation: Web | Images | Videos | News | Maps | Visual Search | More
- Filters: Show all | Only from Canada
- Navigation links: Web | Images | Videos | Maps | News | Books | Gmail | more ▼

Google Interface (Right):

- Search bar: 2323 Rosstown Road, Nanaimo
- Logo: Google Canada
- Buttons: Google Search | I'm Feeling Lucky
- Search options: Search: ☒ the web ☐ pages from Canada
- Language: Google.ca offered in: [français](#)
- Footer: [Advertising Programs](#) - [Business Solutions](#) - [About Google](#) - [Go to Google.com](#)
- Copyright: ©2010 - [Privacy](#)



And see..

Web Images Videos Maps News Books Gmail more ▾

Web History | Search settings | Sign in



[Advanced Search](#)

Search: ☒ the web ☐ pages from Canada

Web [Show options...](#)

Results 1 - 10 of about 2,030 for 2323 rosstown rd. (0.17 seconds)

2323 ROSSTOWN ROAD, Nanaimo, BC | Property Report (05536.130)

Address: 2323 ROSSTOWN ROAD, NANAIMO, BC CANADA. Map of 2323 ROSSTOWN ROAD, Nanaimo BC. Open in NanaimoMap · Open as KML (Google Earth) ...

maps.nanaimo.ca/data/prop

2323 ROSSTOWN ROAD - PROPERTY REPORT



[Nanaimo Property](#)
2323 ROSSTOWN ROAD
05548.050, Property Report
maps.nanaimo.ca/data/prop

[Show more results](#)

[geothought: GeoWeb 2.0](#)
4 Aug 2009 ... To see an example
from Kevin Wiebe said "If a city
geothought.blogspot.com/2009/08/04-08-2009-geoweb-2-0.html

[\[PDF\] Microsoft PowerPoint](#)
File Format: PDF/Adobe Acrobat
<title>**2323 Rosstown Rd**, Nanaimo
reports/property/2323%20Road
geowebconference.org/.../New%20Projects%20List%202009.pdf

[Between the Poles: FOS](#)
25 Oct 2009 ... If you want to
www.fos.org/.../2009/10/25-between-the-poles-fos.html

[Home](#) > [Data](#) > [Property](#) > 2323 ROSSTOWN ROAD

GENERAL INFORMATION		PARCEL MAP
Address:	2323 ROSSTOWN ROAD, NANAIMO, BC	
Folio:	05536.130	
Plan:	27484	
Size:	.29 ACRES	
Legal Description:	LOT 7, SECTION 18 AND 19, RANGE 7, MOUNTAIN DISTRICT, PLAN 27484	

EXTENDED INFORMATION	
Zoning	RS-1 SINGLE FAMILY RESIDENTIAL ZONE
Garbage Pick-Up	Route: D-3 Number of Cans Allowed: 2
Sewer Benefiting Area	YES
GIS Link	116707
Location	49.19552, -123.9979

ASSESSMENT DATA [\[+\]](#)

1-10 of 12 results · [Advanced](#)

[Report ...](#)
Folio: 05536.130; Plan:
19, RANGE 7, MOUNTAIN

www.w3.org/2005/Atom">
or>

[Project Announced](#)
... enter "2323 Rosstown Road,
... click on the ...
project-announced.html ·

[S ...](#)

2323 Rosstown Road, Nanaimo, BC, reports in the 2009 Boundary Road, Vancouver, BC,
V5M4V8

www.yellowpages.ca/search/si/1/Computer-Data+Recovery/Nanaimo+BC · [Cached page](#)

O'REILLY

where2.0[™]
CONFERENCE

LOCATION ENABLED

3/30-4/1, 2010 • SAN JOSE, CA





georest

GeoREST: Web-centric publishing for spatial data

[Project Home](#) [Downloads](#) [Wiki](#) [Issues](#) [Source](#)

Summary | [Updates](#) | [People](#)

GeoREST is a web-centric framework for distributing geospatial data. It allows RESTful feature-based access to spatial data sources, including full editing capabilities, through a MapGuide server or directly via FDO.

Examples of data sources:

- SHP
- SDF
- SQLite (FDO)
- PostGIS
- Oracle Spatial
- Microsoft SQL Server Spatial
- MySQL
- Any other FDO vector data source

Example output formats:

- GeoJSON
- XML
- PNG (MapGuide layers only)
- HTML (Template)
- KML (Template)
- GeoRSS (Template)
- CSV (Template)
- Any other templatable text-based format

Code license: [GNU Lesser General Public License](#)

Content license: [Creative Commons 3.0 BY](#)

Labels: [geo](#), [REST](#), [MapGuide](#), [FDO](#), [SHP](#), [spatial](#), [SDF](#), [KML](#)

Featured downloads: [Show all](#)
↓ [GeoREST.0.3.6.zip](#)

Links: [Documentation](#)

Feeds: [Project feeds](#)

Project owners: [People details](#)

[jasonbir...@gmail.com](#),
[hkurtagic](#), [jason.birch](#)

Project committers:
[simon.pelicon](#)



GeoREST Relies on the Web


- URI
- HTTP (GET, PUT, POST, DELETE)
- HTML
- Mime: JSON, KML, PNG, ...
- C-Templates



[http://maps.nanaimo.ca/data/property/.html
?filter_1_and_equal_house=2323&filter_2_and_like_street=Rosstown&
count=20&submit=Search](http://maps.nanaimo.ca/data/property/.html?filter_1_and_equal_house=2323&filter_2_and_like_street=Rosstown&count=20&submit=Search)

2323 ROSSTOWN ROAD - PROPERTY REPORT
CITY OF NANAIMO
THE HARBOUR CITY

[Home](#) > [Data](#) > [Property](#) > 2323 ROSSTOWN ROAD

GENERAL INFORMATION		PARCEL MAP
Address:	2323 ROSSTOWN ROAD, NANAIMO, BC	 Open in NanaimoMap Open as KML (Google Earth) Open in Google Maps Open in Bing Maps
Folio:	B5536.130	
Plan:	27484	
Size:	.29 ACRES	
Legal Description:	LOT 7, SECTION 18 AND 19, RANGE 7, MOUNTAIN DISTRICT, PLAN 27484	

EXTENDED INFORMATION	
Zoning	RS-1 SINGLE FAMILY RESIDENTIAL ZONE
Garbage Pick-Up	Route: D-1 Number of Cans Allowed: 2
Sewer Benefiting Area	YES
GIS Link	116707
Location	49.19552, -123.9979

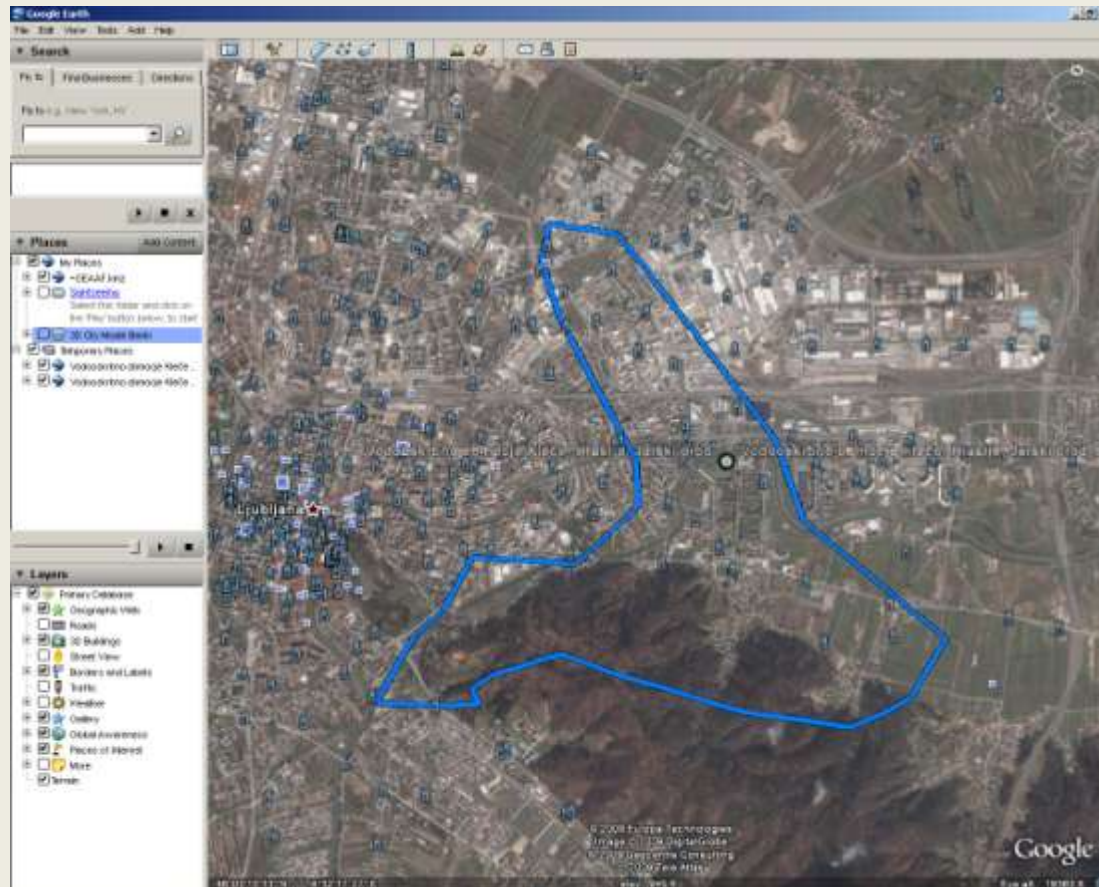
ASSESSMENT DATA

HTML

Retrieve water district maps



<http://share.vo-ka.si/mgrest/rest/data/vodarna/H.kml>



KML

Retrieve water district maps



<http://share.vo-ka.si/mgrest/rest/data/vodarna/H.xml>

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XML

Retrieve water district maps



<http://share.vo-ka.si/mgrest/rest/data/vodarna/H.json>

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H.json - Notepad
File Edit Format View Help

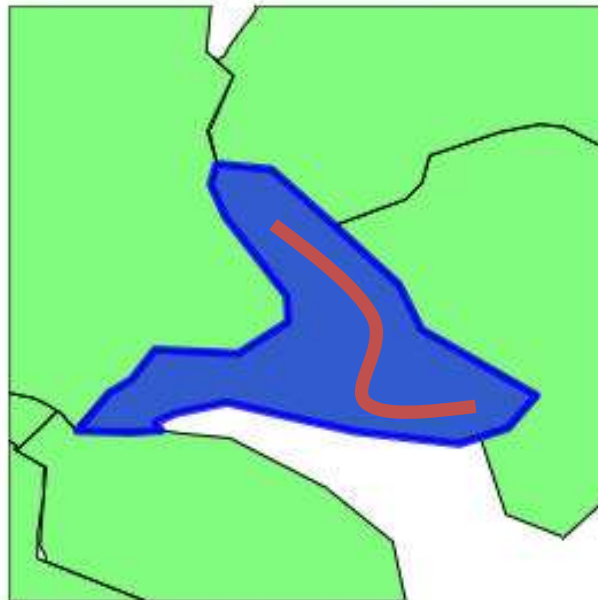
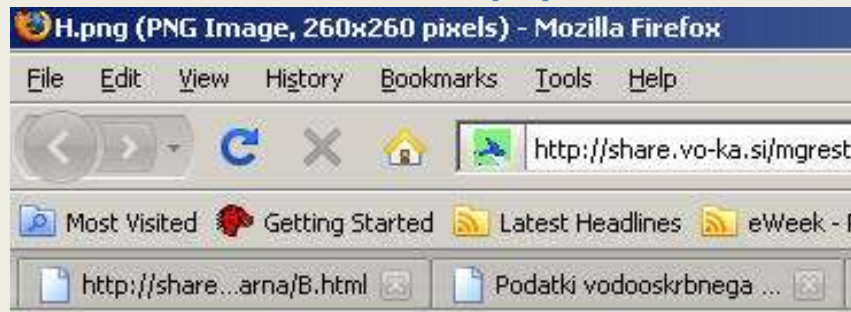
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JSON

Retrieve water district maps



<http://share.vo-ka.si/mgrest/rest/data/vodarna/.png?bbox=http://pipes.vo-ka.si/data/pipe/34.xml>



PNG

Retrieve water district maps



www.GeoREST.org

- Open API
 - HTTP GET POST PUT DELETE
- Not weeks but days
 - Fast implementations



Searchable Raw Geospatial Data

Web Images Videos Maps News Books Gmail more ▼

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Search

Search: ☒ the web ☐ pages from Canada

Web [Show options...](#)

Result

2323 ROSSTOWN ROAD, Nanaimo, BC | Property Report (05536.130)
Address: **2323 ROSSTOWN ROAD, NANAIMO, BC CANADA. Map of 2323 ROSSTOWN ROAD, Nanaimo BC.** Open in NanaimoMap · Open as KML (Google Earth) ...
maps.nanaimo.ca/data/prope

[Nanaimo Property](#)
2323 ROSSTOWN ROAD
05548.050, Property R
maps.nanaimo.ca/data/

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[geothought: GeoWeb 20](#)
4 Aug 2009 ... To see an exa
from Kevin Wiebe said "If a d
geothought.blogspot.com/200

[Microsoft PowerPoint](#)
File Format: PDF/Adobe Acro
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reports/property/2323%20Ros
geowebconference.org/.../Ne

[Between the Poles: FOS](#)
25 Oct 2009 ... If you want to

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☒ Show all ☐ Only from Canada

ALL RESULTS

1-10 of 12 results

2323 ROSSTOWN ROAD, Nanaimo, BC | Property Report ...
Open as KML (Google Earth) Open in Google Maps Open in Bing Maps: Folio: 05536.130: Plan: 27484: Size: 29 ACRES: Legal Description: LOT 7, SECTION 18 AND 19, RANGE 7, MOUNTAIN DISTRICT. PLAN ...

[Cached page](#)

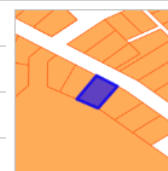
2323 ROSSTOWN ROAD - PROPERTY REPORT

[Home](#) > [Data](#) > [Property](#) > 2323 ROSSTOWN ROAD

GENERAL INFORMATION

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Folio:	05536.130
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Size:	.29 ACRES
Legal Description:	LOT 7, SECTION 18 AND 19, RANGE 7, MOUNTAIN DISTRICT, PLAN 27484

PARCEL MAP



[Open in NanaimoMap](#)
[Open as KML \(Google Earth\)](#)
[Open in Google Maps](#)
[Open in Bing Maps](#)

EXTENDED INFORMATION

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GIS Link	116707
Location	49.19552, -123.9979

ASSESSMENT DATA

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[Cached page](#)

[Source GeoREST Project Announced](#)
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search engine, and then click on the ...
open-source-georest-project-announced.html

[BC | 1 | YellowPages ...](#)
... 130-2323 Boundary Road, Vancouver, BC,

[+Recovery/Nanaimo+BC](#) · [Cached page](#)



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geoREST.org