

City of Coquitlam

Custom Web Map Applications – A New Approach

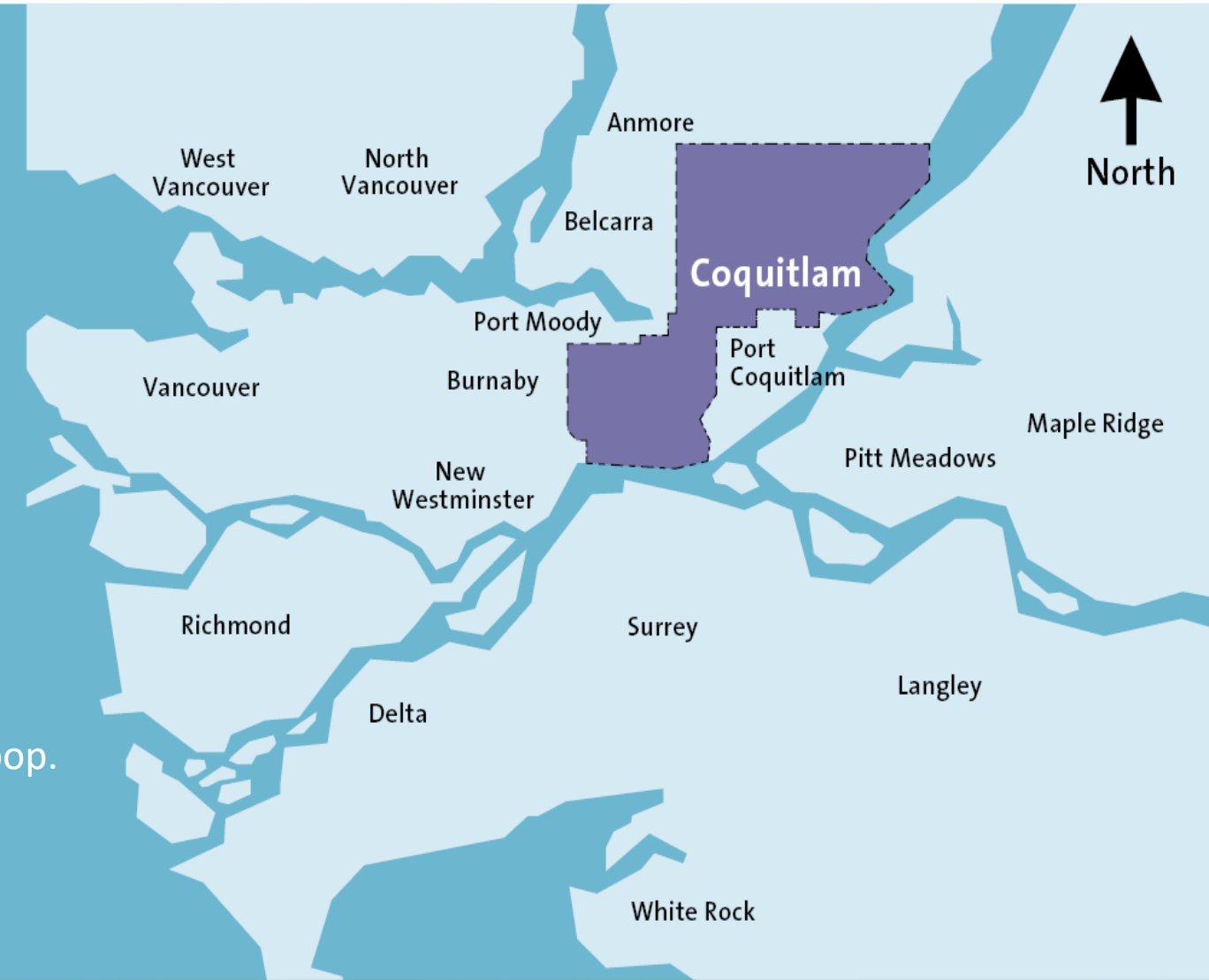
Mike Esovolof

Supervisor Mapping & Drafting

Engineering & Public Works

December 6, 2016

Coquitlam

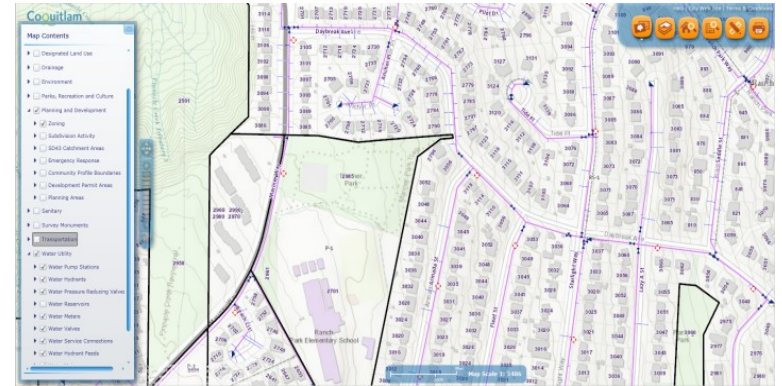


Background

Converted to Esri in 2001 (SLG ELA since 2010)

Initial reliance on paper based map products

All-in-one internal & public web applications since 2004 (QtheMap) - staff & public view and retrieve typical or standard municipal data





Custom maps requested to meet changing business needs

Mobile GIS (maps for field staff)

Improve processes, efficiency and ease of access to up-to-date information

Spatial presentation of information from other business application systems

Enable better decision making for long-range planning or day-to-day operations

Inspiraton - It all changed when...

2014 Esri Internatonal User Conference

Introducton of ArcGIS Online, Web
AppBuilder, Portal for ArcGIS

Opportunity to beter share informaton
within the organizaton



Enabling Web GIS in Your Infrastructure

Portal for ArcGIS helps you organize and share information throughout your organization with those who need it via maps and apps. It provides a framework to easily manage and secure geographic assets within your organization, enabling better decision making.

A New Approach

One size does not fit all – customization of maps

Think spatially – majority of information is location based

Leverage the power of GIS to bring information together

Simplify complicated processes... and keep the simple things simple

Training & access for non-GIS staff to view, analyze & edit GIS data

Process and Communicaton



Installation and testing of the technology

Privacy Review

Thorough needs assessment included
training and communication sessions
with user groups

Rapid prototyping with continued
communication

Coquitlam GIS Portal - Map Applicatons

HOME GALLERY MAP GROUPS

Sign In



GIS Portal City of Coquitlam

Featured Maps and Apps



Mail Merge and Property Information Application



QtheMap

Welcome to the Coquitlam GIS Portal. This portal allows GIS users to share maps, applications, and data with the entire organization. The home page will feature web maps and applications for the entire organization, departmental focused maps, departmental driven applications and user created content, any time to search and find content anywhere on this site.

If you have any questions, feedback or comments please use the Contact Us link at the bottom of the page.

[Contact Us](#)

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E&PW Street Lighting and Traffic Signals



E&PW - Pipe Inspection Videos and Reports



E&PW Water Hydrant Map



E&PW Capital Plan & Pavement Rehabilitation



E&PW Development (IM) and Capital Works



E&PW Fortis Gas Distribution Map Sheets



E&PW Public Works Field Map



E&PW Public Works Work Orders



E&PW Road and Sidewalk Closures



E&PW Roads Fall Sweeping Schedule



E&PW Soil Site Screening



E&PW Solid Waste and Recycling

« 1 2 3 »

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Street Sweeping - Road Closures - Solid Waste & Recycling

Engineering and Public Works Questions?

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- EBPW Street Lighting and Traffic Signals
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- EBPW Water Hydrant Map
- EBPW Capital Plan & Pavement Rehabilitation
- EBPW Development (DE) and Capital Works
- EBPW Fortis Gas Distribution Map Sheets
- EBPW Public Works Field Map
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- EBPW Solid Waste and Recycling

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1 2 3 4

Cart Data from Tempest: 819 Thermal Dr

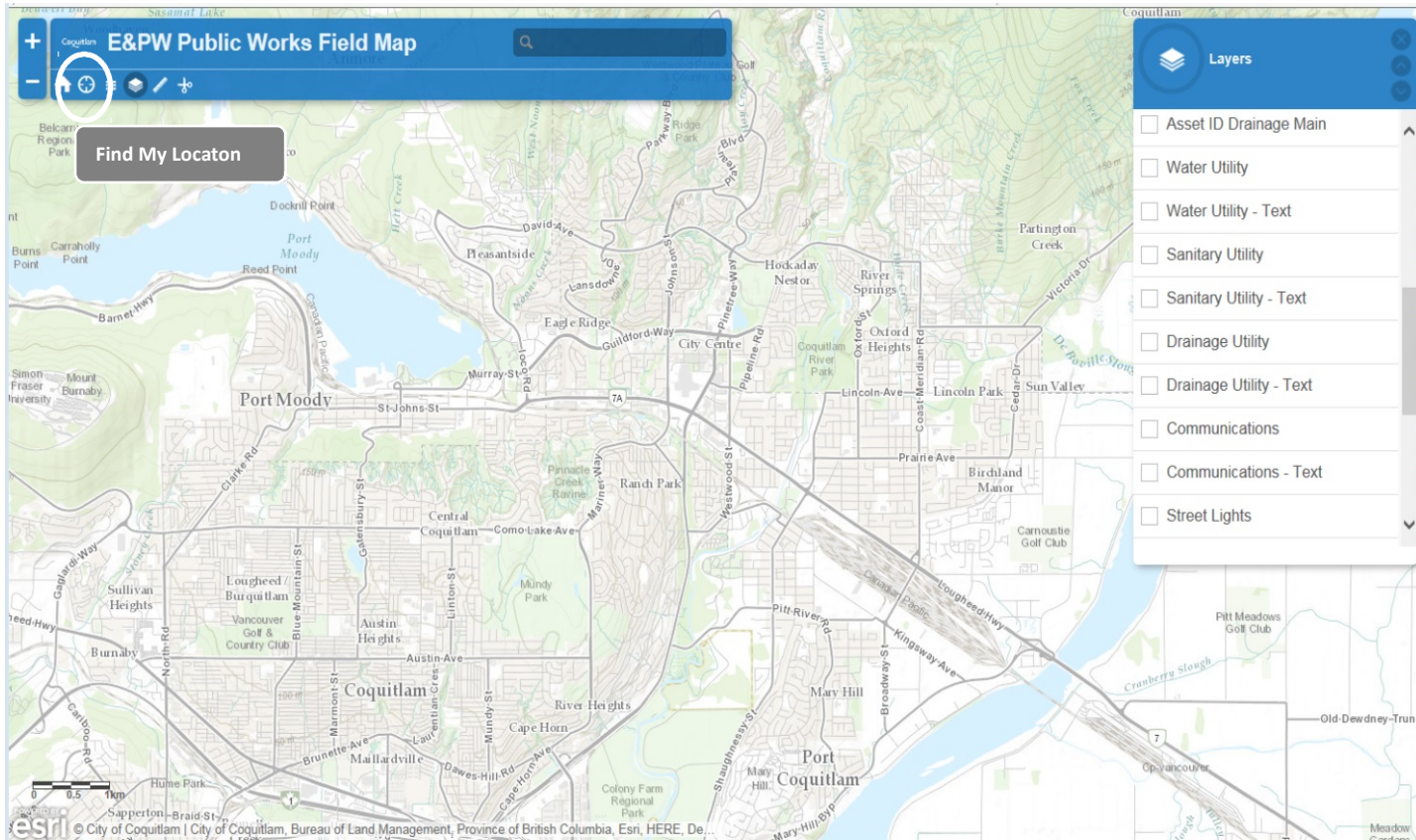
gis_id	14080429
address	819 Thermal Dr
account_number	28366
legal_id	15094
folio	27358000
cart1	O31 400753 - 360 ORGANIC
cart2	G21 409700 - 240 WASTE
cart3	
cart4	
cart5	
cart6	
cart7	

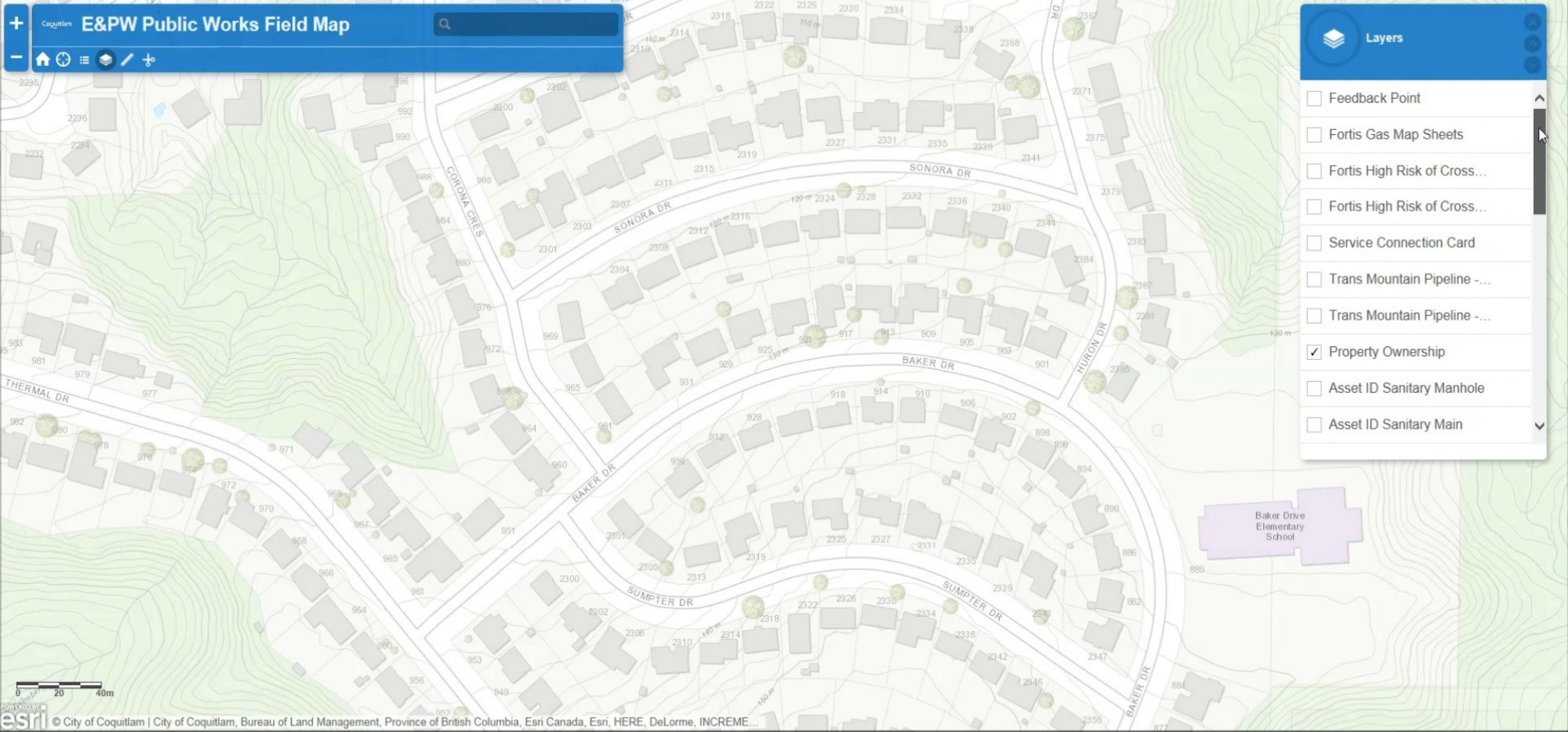
Zoom to

City of Coquitlam | City of Coquitlam, Bureau of Land Management, Province of British Columbia, Esri Canada, Esri, HERE, DeLor...

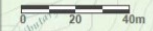
POWERED BY **esri**

Public Works Field Map

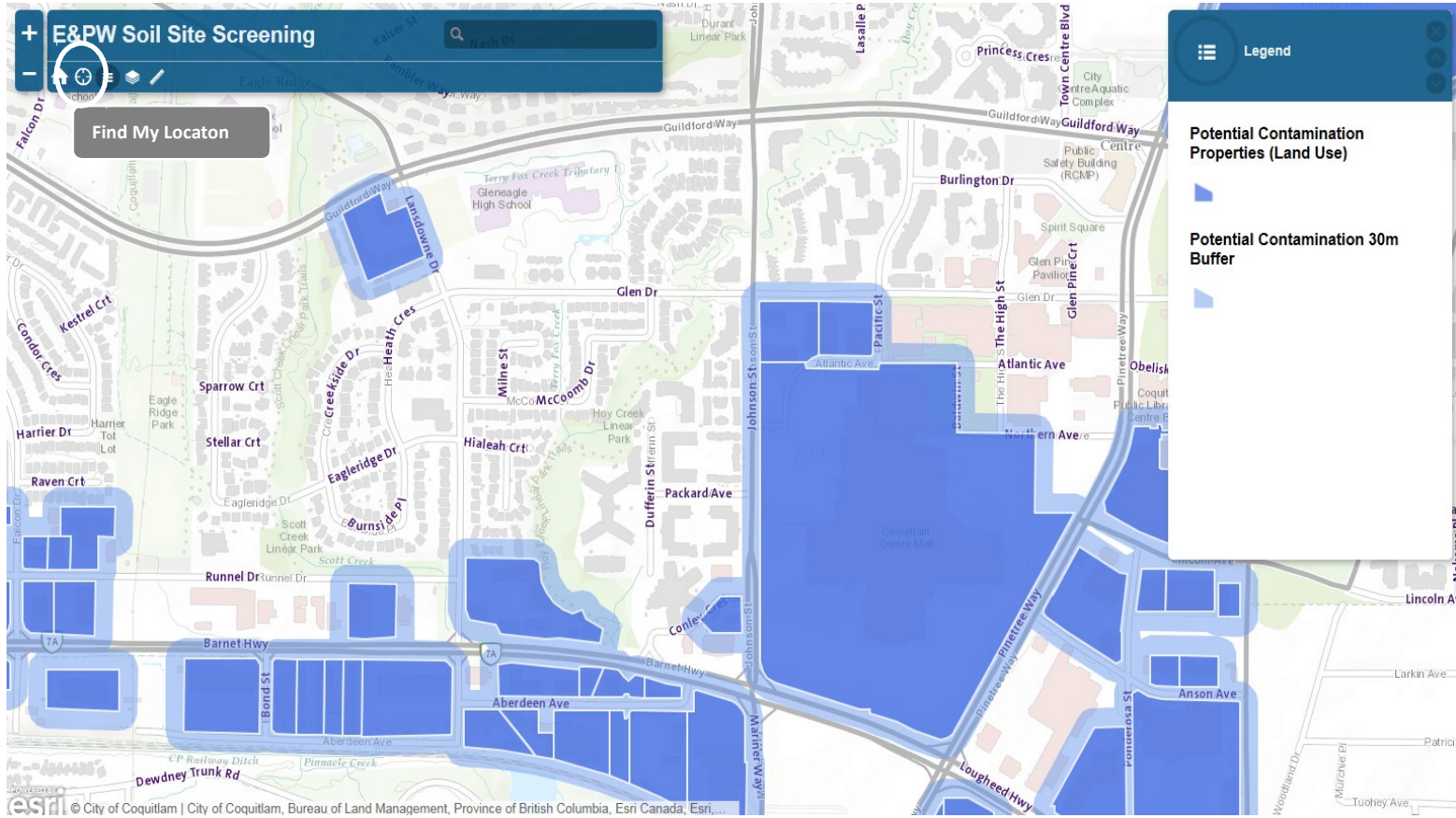




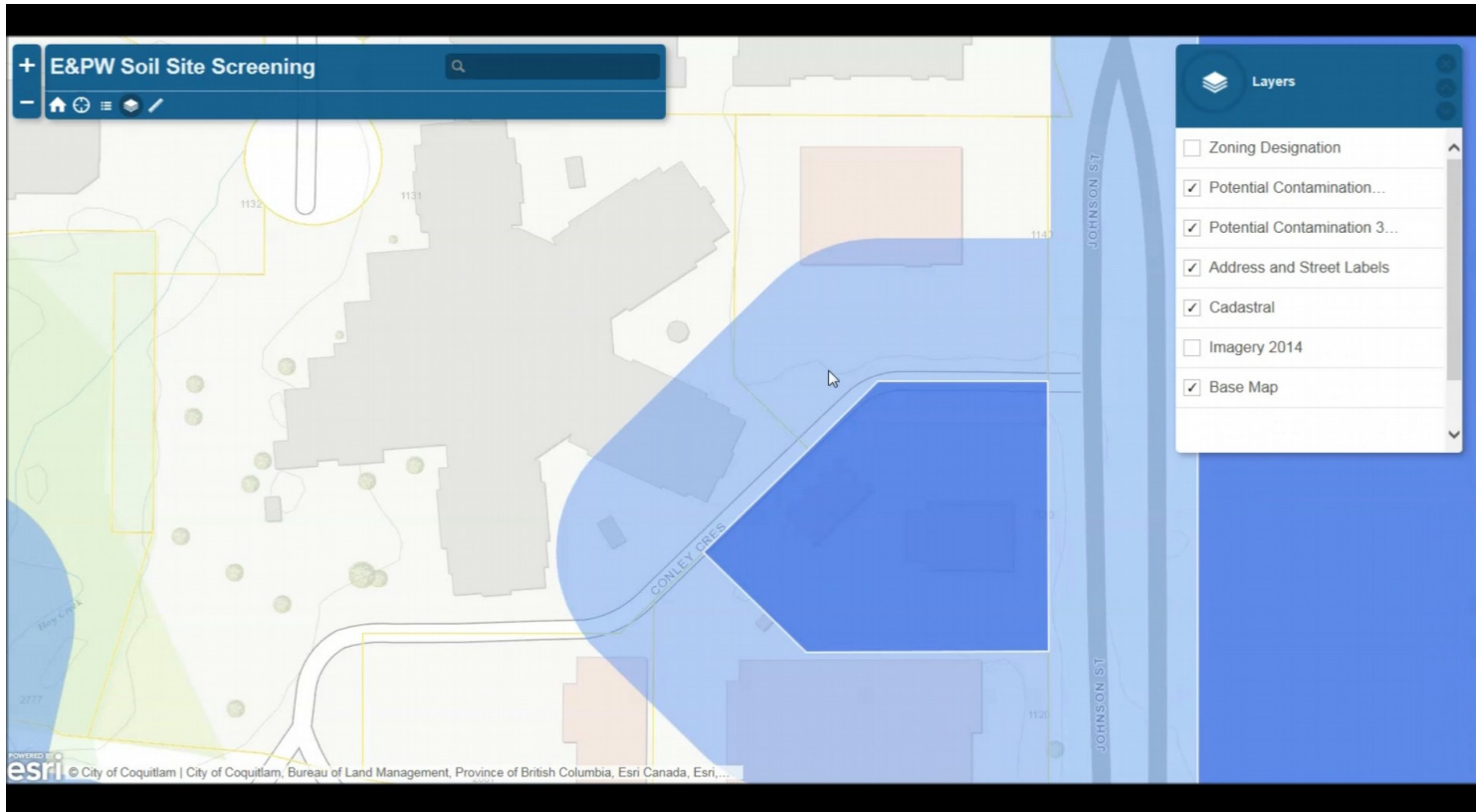
- Layers**
- Feedback Point
 - Fortis Gas Map Sheets
 - Fortis High Risk of Cross...
 - Fortis High Risk of Cross...
 - Service Connection Card
 - Trans Mountain Pipeline -...
 - Trans Mountain Pipeline -...
 - Property Ownership
 - Asset ID Sanitary Manhole
 - Asset ID Sanitary Main



Soil Site Screening & Handling



Soil Site Screening & Handling



Soil Site Screening & Handling

E&PW Soil Site Screening

Layers

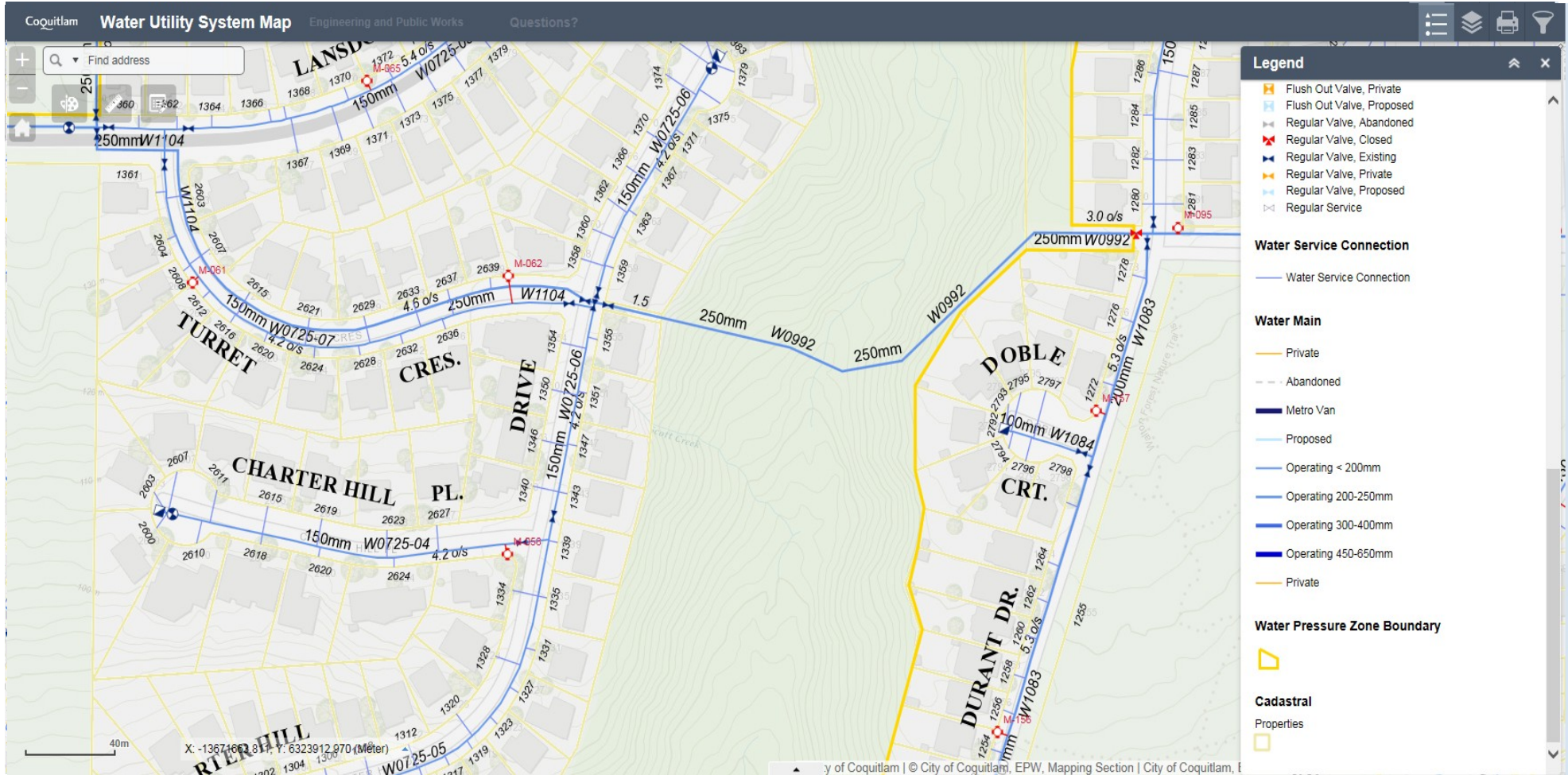
- Zoning Designation
- Potential Contamination...
- Potential Contamination 3...
- Address and Street Labels
- Cadastral
- Imagery 2014
- Base Map

Potential for Soil Contamination

TYPE	Underground Storage Tank
INDUSTRY / ACTIVITY	Underground Storage Tank
CATEGORY	Underground Storage Tank
CATEGORY	Underground Storage Tank
SOURCE	Fire Rescue Database

POWERED BY **esri** © City of Coquitlam | City of Coquitlam, Bureau of Land Management | Province of British Columbia | Esri Canada, Es...

Water Utility System Map



Trafc Signals and Street Lightng

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E&PW Street Lighting and Traffic Signals



E&PW - Pipe Inspection Videos and Reports



E&PW Water Hydrant Map



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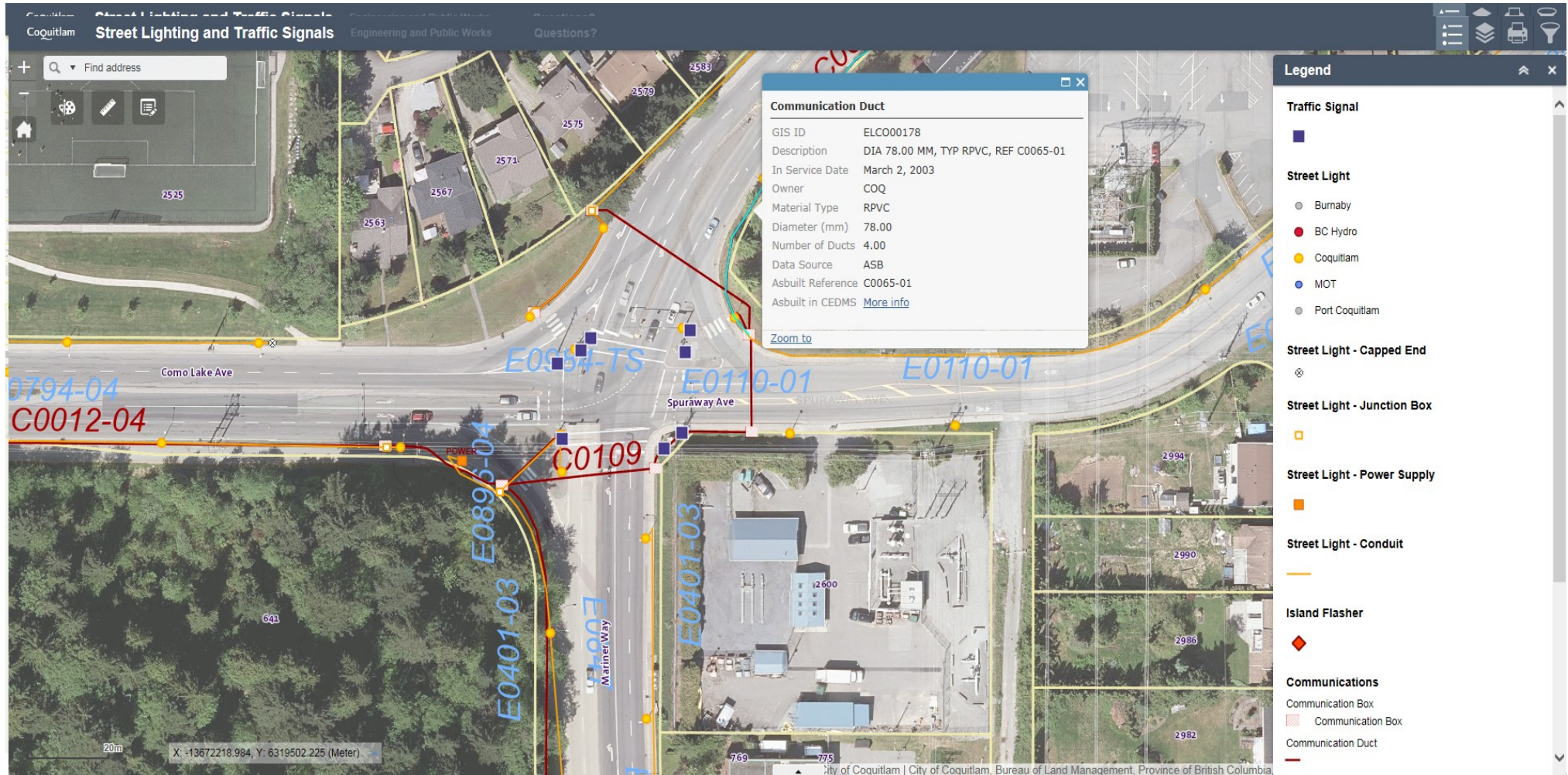


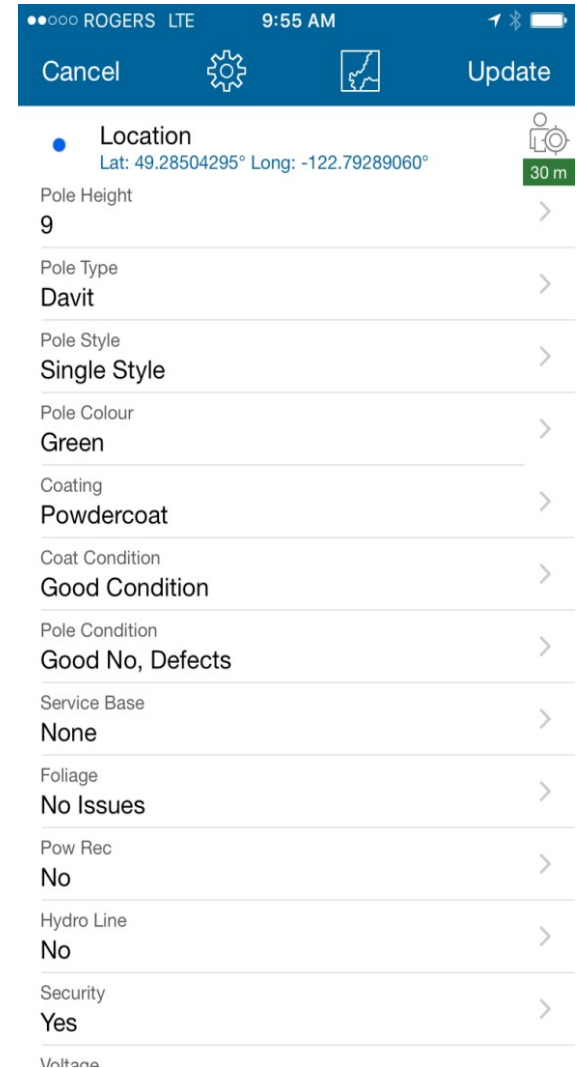
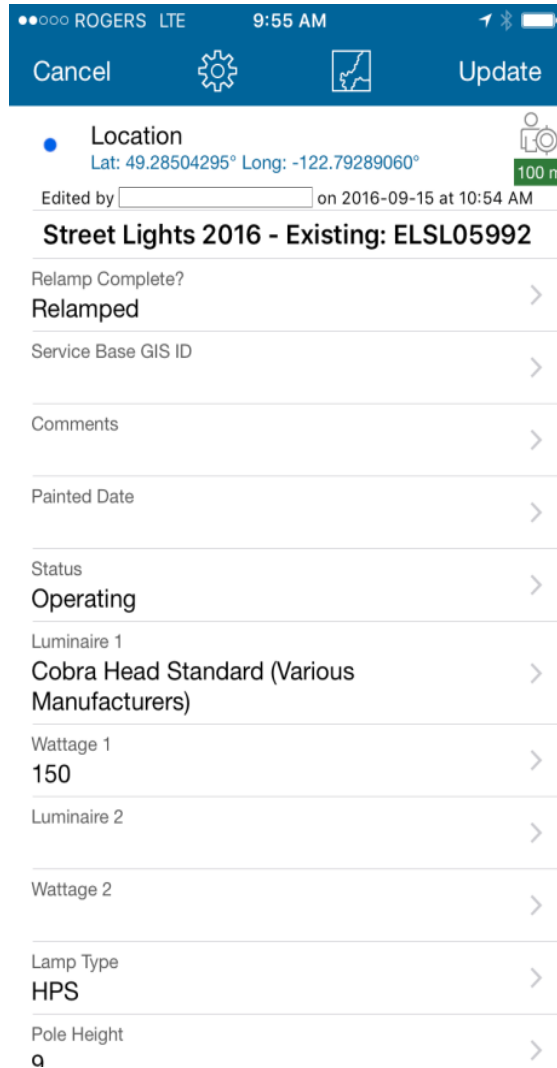
E&PW Soil Site Screening



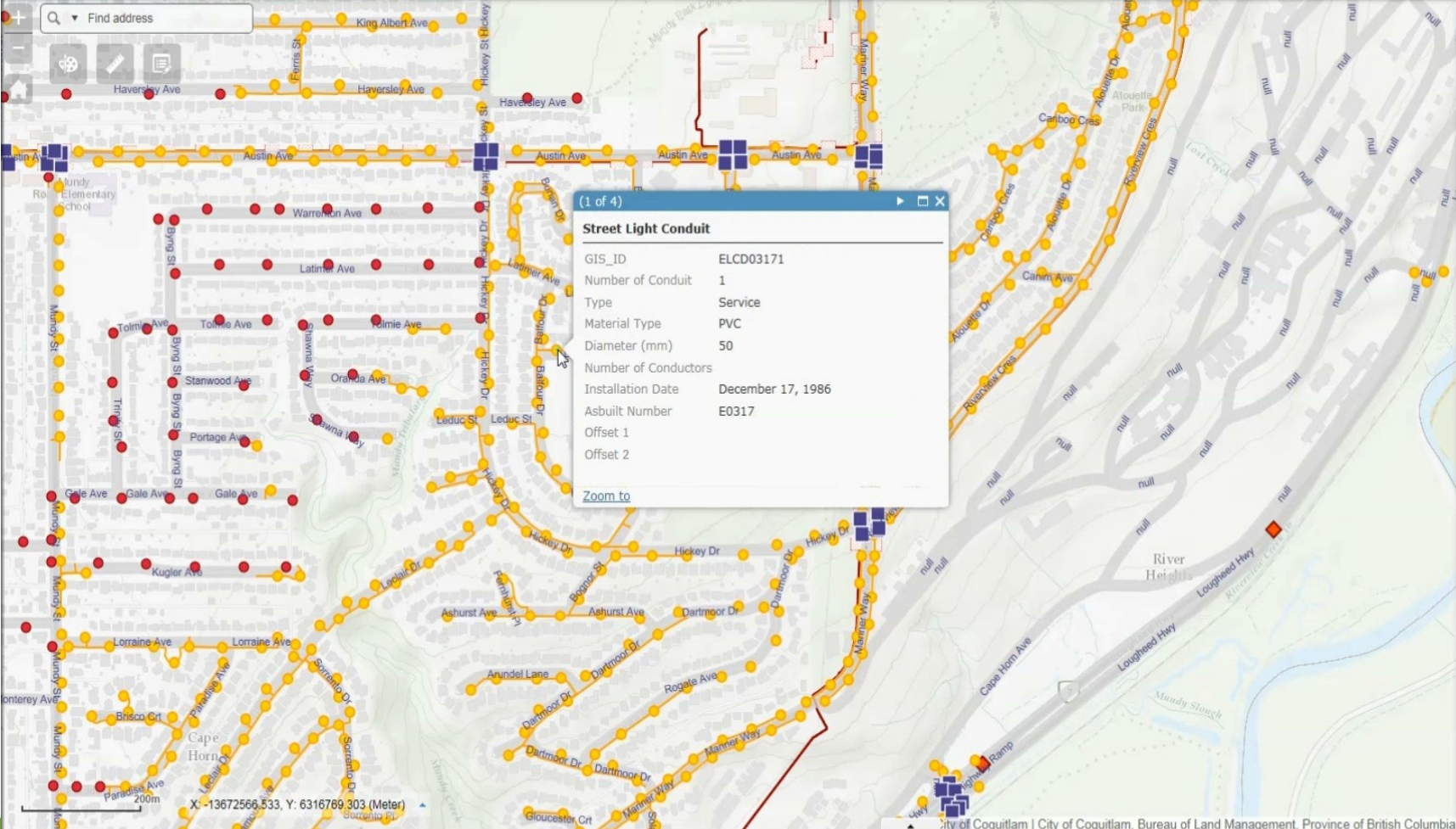
E&PW Solid Waste and Recycling

Trafic Signals and Street Lightng





Find address



(1 of 4)

Street Light Conduit

GIS_ID	ELCD03171
Number of Conduit	1
Type	Service
Material Type	PVC
Diameter (mm)	50
Number of Conductors	
Installation Date	December 17, 1986
Asbuilt Number	E0317
Offset 1	
Offset 2	

[Zoom to](#)

Legend

Traffic Signal



Street Light

- Burnaby
- BC Hydro
- Coquitlam
- MOT
- Port Coquitlam

Street Light - Conduit



Island Flasher



Communications

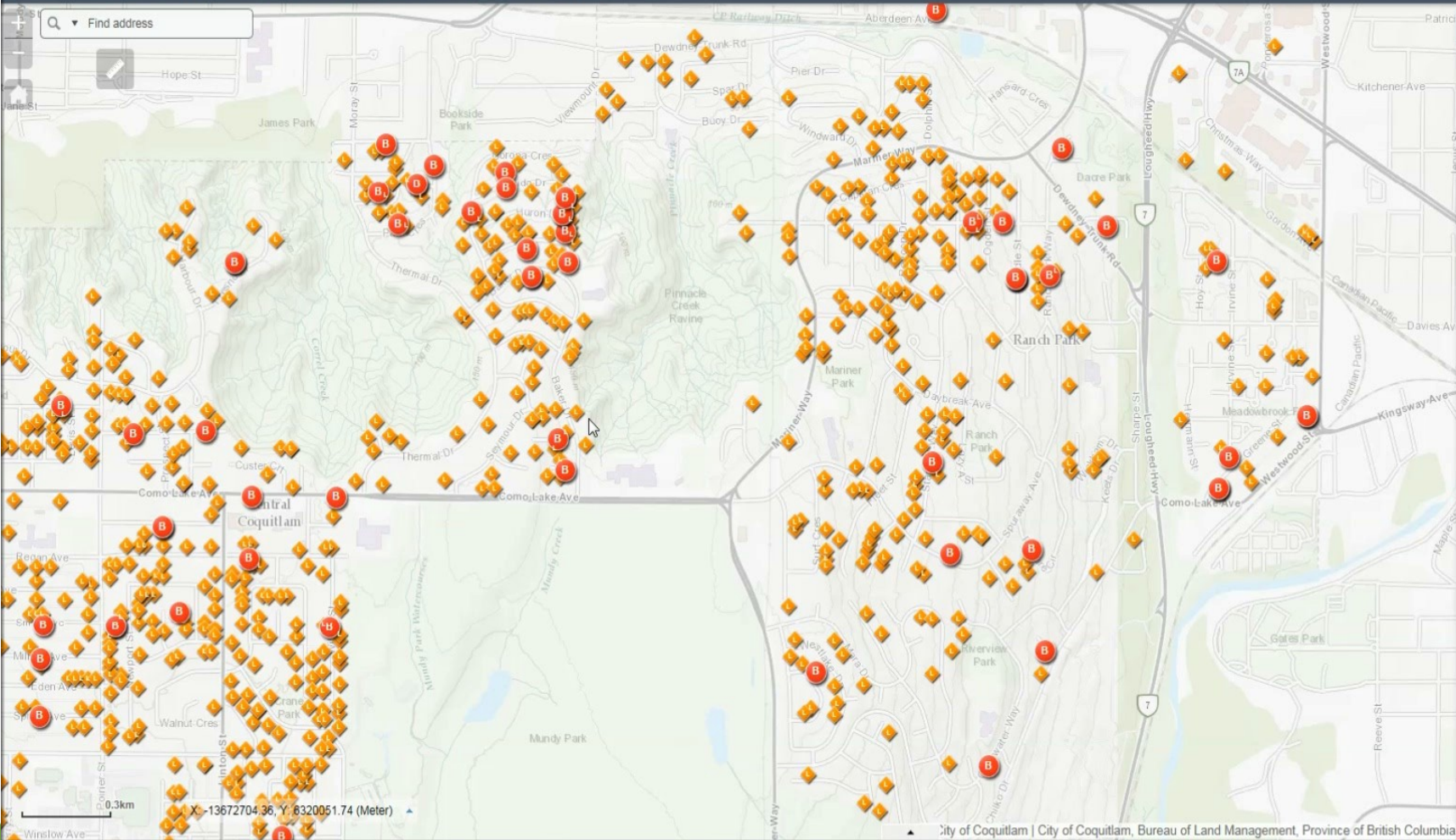
- Communication Box
- Communication Box
- Communication Duct

Cadastral & Rights of Way

- City Boundary

X: -13672566.533, Y: 6316769.303 (Meter)

Find address



Legend

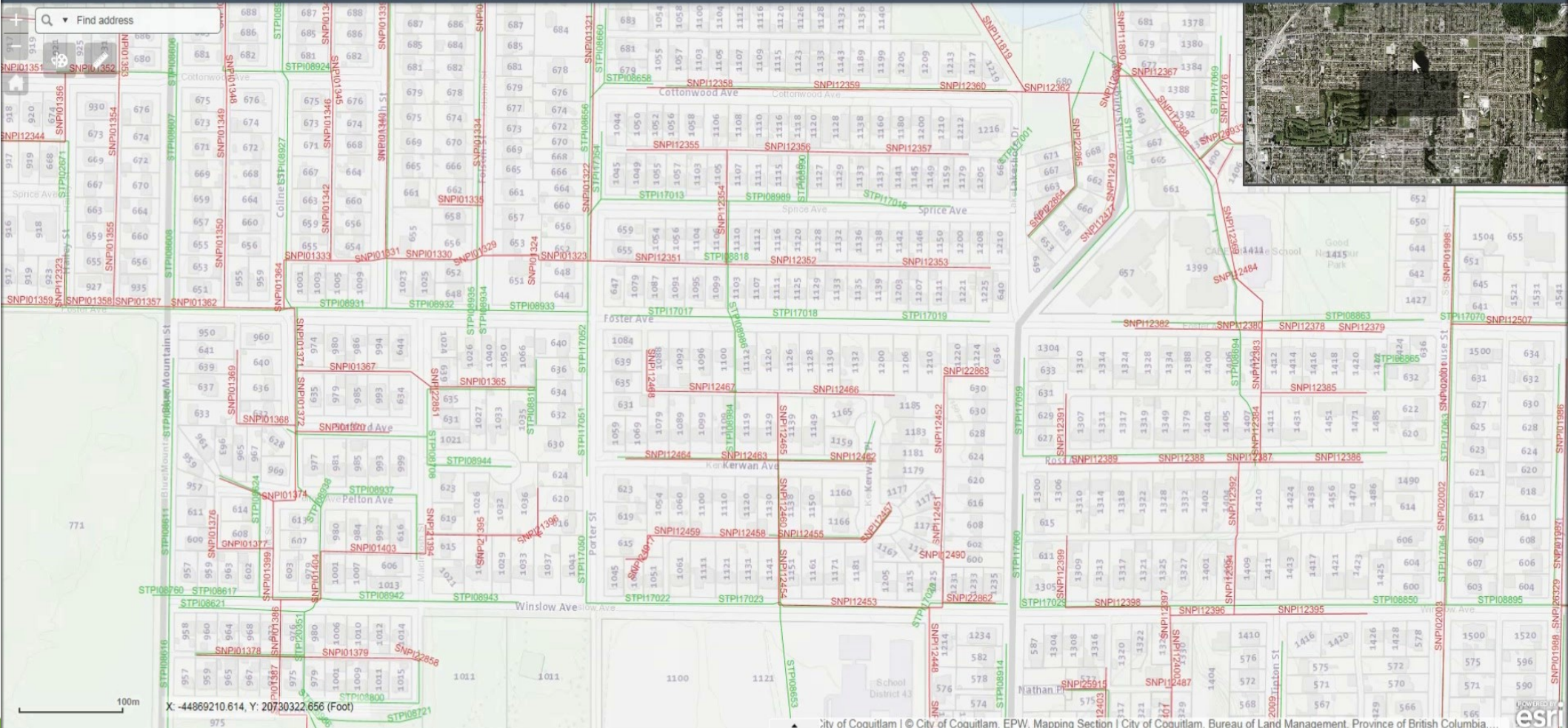
Water Main Break (Work Order)



Water Service Leak (Work Order)



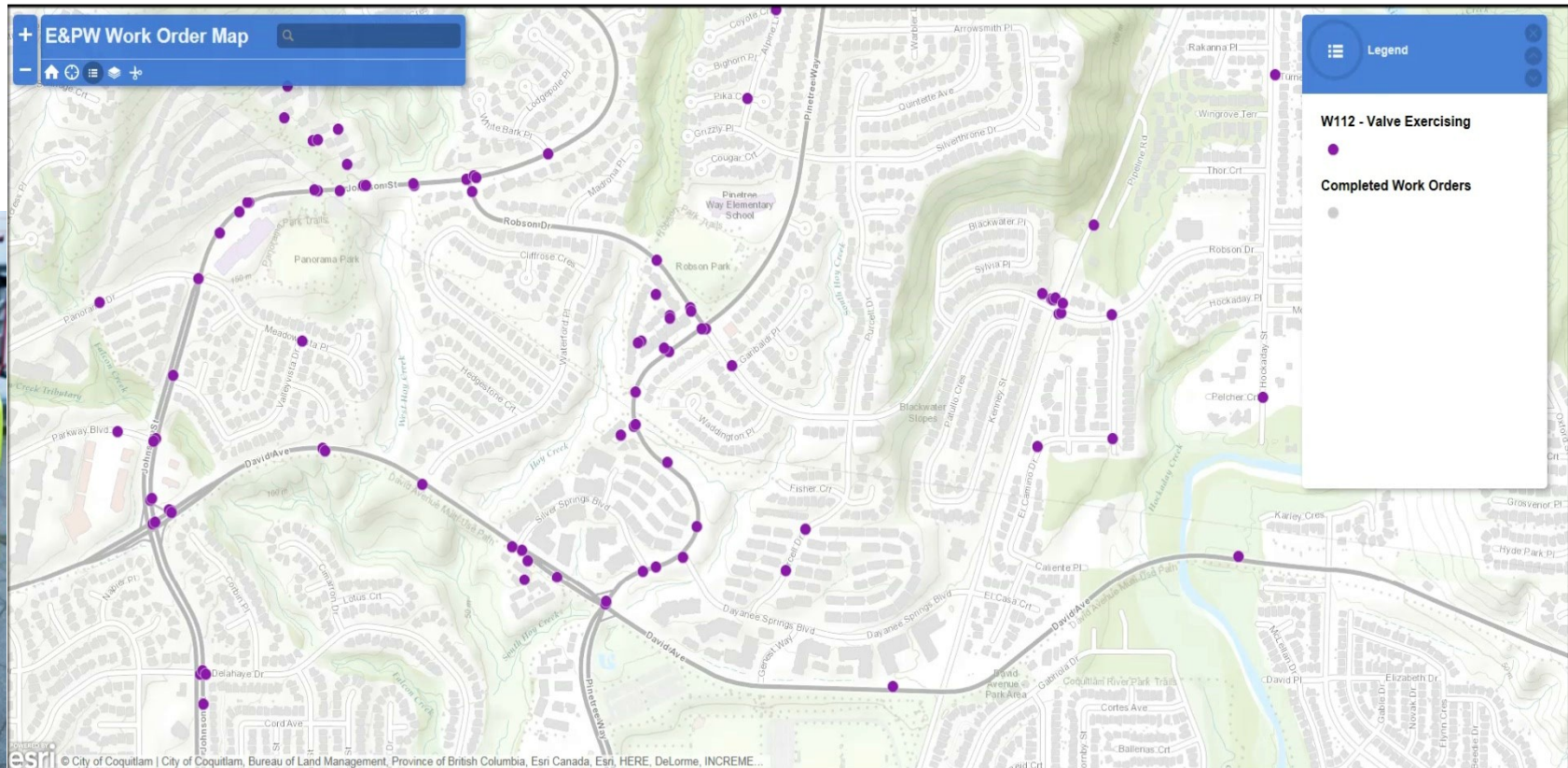
Find address



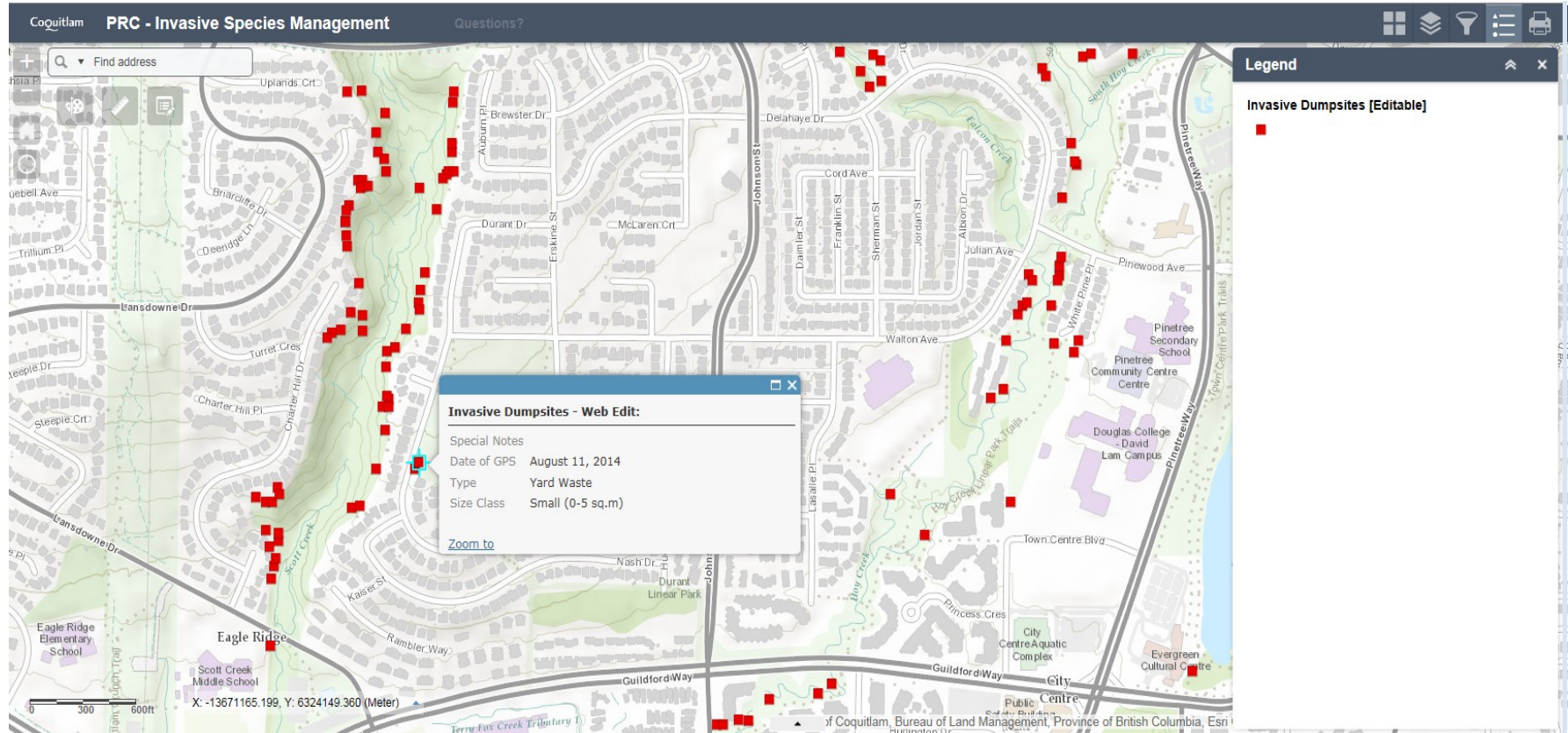
100m

X: -44869210.614, Y: 20730322.656 (Foot)

Map Based Work Management



Urban Forestry – Invasive Species Management



Bylaws – Graft Applicaton

ROGERS LTE 9:57 AM

Map Details

Location
Lat: 49.28514163° Long: -122.79380531°

Graffiti Locations: New Graffiti

Status
New Graffiti

Owner
BC Hydro

Size
Medium

Tag
Atfk,

Type
Scribble

AMANDA Folder

CEDMS Document

Attachments

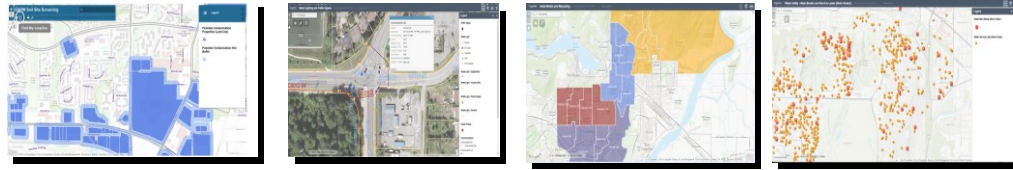
- Photo15.jpg
208.9 KB
- Photo16.jpg
290.0 KB
- Photo10.jpg
304.4 KB

ROGERS LTE 9:57 AM

Done

Photo1.jpg





Presentation Layer

- Web Appbuilder
- Out-of-the-Box Templates
- Web Maps



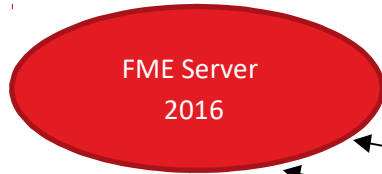
App Server Layer

- Oracle
- SDE
- Business Apps



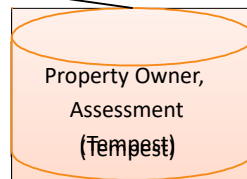
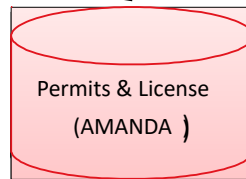
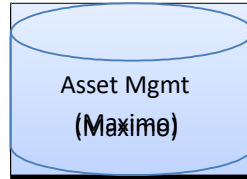
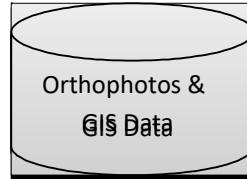
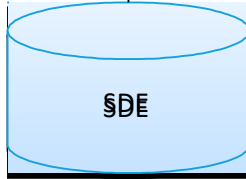
ETL Layer

- FME
- Cognos



Data Layer

- Oracle
- SDE
- Business Apps



... and others

Future Plans

Expand Portal for ArcGIS

Public Web Map Update

- Web AppBuilder for ArcGIS

- Potential cloud storage (or hybrid)

Open Data

- ArcGIS Open Data

- Data hosted in ArcGIS Online and AWS

Story Maps and Survey 123 for ArcGIS

Questions?

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