



PORT METRO
vancouver

Infrastructure Asset Management at Port Metro Vancouver

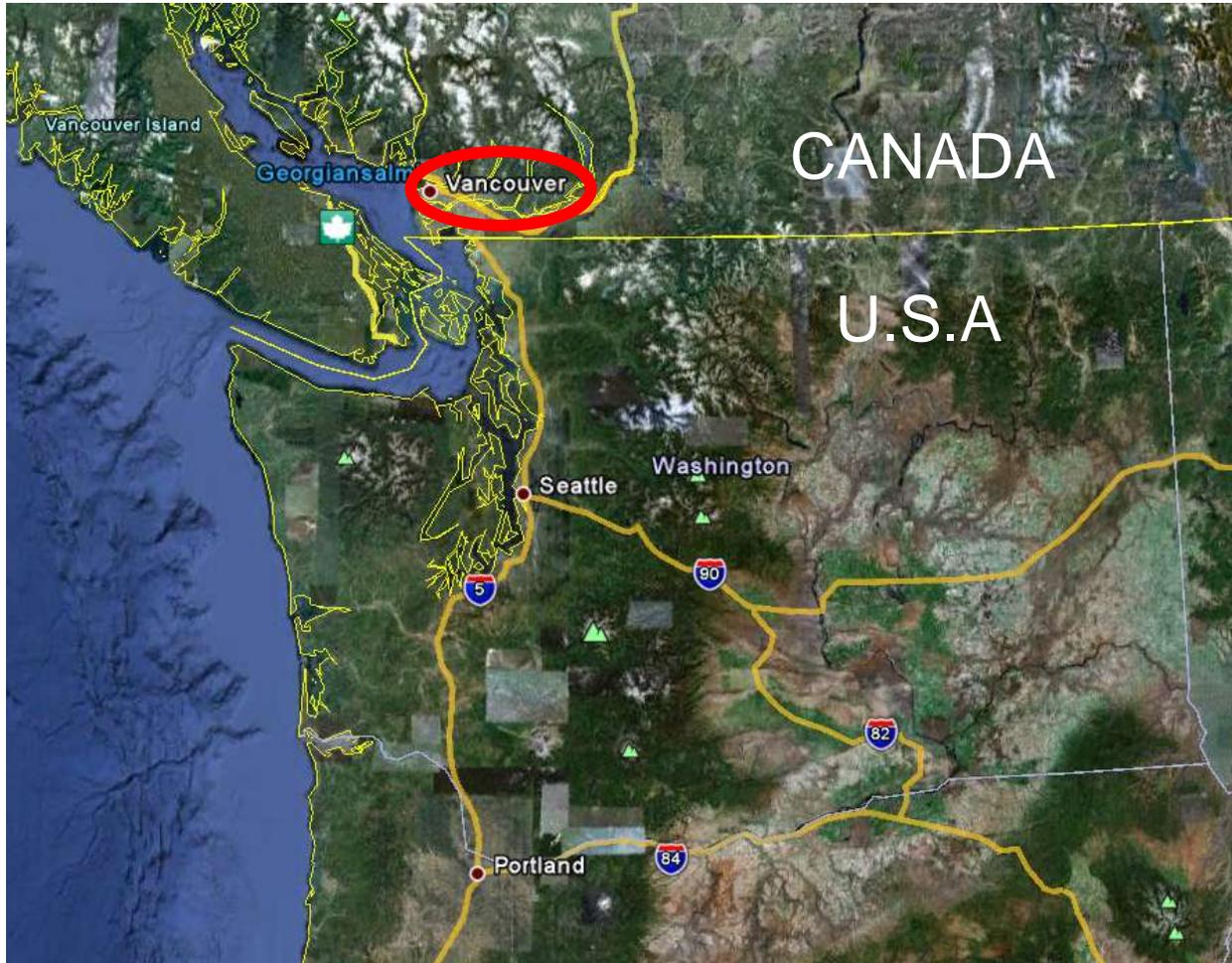
Gary M. Tosh
A.M. Coordinator
Engineering Dept.

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Asset Management at Port Metro Vancouver

- About Port Metro Vancouver
- AM up to now
- Next steps

Location



About Port Metro Vancouver

- Largest, busiest and most diversified port in Canada
- Handled 118 million tonnes of cargo in 2010
- 28 major marine cargo terminals and 3 Class 1 railroads
- 600 km (373 miles) of shoreline, bordering on 16 municipalities



Business Sectors



PMV Asset Management up to now

- Prior to 2005, no AM program existed
- Infrastructure assets were inspected based on:
 - Random observations,
 - Accident reports,
 - Intuition.
- In 2005 an engineer with AM experience was hired with the secondary goal of starting an AM program.
- Program started in 2008

Asset Ownership on PMV property



1. Port-Owned / Port-Maintained (PO/PM)
 2. Port-Owned / Contractor-Maintained (PO/CM)
 3. Port-Owned / Tenant-Maintained (PO/TM)
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4. *Tenant-Owned / Tenant-Maintained (TO/TM)*
 5. *Tenant-Owned / Contractor-Maintained (TO/CM)*

Asset Classes at PMV

CLASS	NO. OF ASSETS
1. Roads	28
2. Overpasses	7
3. Pavement Areas	61
4. Dock Structures	52
5. Buildings	110
6. Water Systems	35
7. Storm Sewer Systems	96
8. Sanitary Sewer Systems	38
9. Communications Systems	19
10. Electrical Systems	41
11. Natural Gas Systems	2
12. Equipment	81
13. Slope Retention	59
14. Other	53

AM Data Repository

- Data repository: MS Excel
 - More than acceptable for data gathering.
- 682 rows of asset data in 14 asset classes.
 - Location: Address, GPS coordinates, lease number, etc.
 - Financial: Original cost, insured value, etc.
 - Physical attributes: Size, length, area, inspection date & result.

OVERPASS GENERAL ASSET INFORMATION											
Asset Class	Asset Name	IAM Number	Description	Accounting Class Description	(Asset Class) Code	Site ID	Address	GPS Easting	GPS Northing	Owner	
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
1	Overpass	Clark Drive	38-B-102	Clark Drive Overpass	Roads & Surfaces	B	VAN032	N/A	494395.65	5459007.45	PMV
2	Overpass	Commissioner Street	48-B-103	Commissioner Street Overpass	Roads & Surfaces	B	VAN048	N/A	497071.28	5459672.73	PMV
3	Overpass	Deltaport Pod 3	34-B-104	Pod 3 Overpass	Roads & Surfaces	B	DEL034	N/A	487764.59	5430056.97	PMV
4	Overpass	Heatley Avenue Roof Ramp	32-B-106	Heatley Overpass - Roof Ramp	Roads & Surfaces	B	VAN032	N/A	493470.07	5459184.20	PMV
5	Overpass	Heatley Avenue	32-B-101	Heatley Avenue Overpass	Roads & Surfaces	B	VAN032	N/A	493497.28	5459134.00	PMV
6	Overpass	Main Street	24-B-100	Main Street Overpass	Roads & Surfaces	B	VAN064	N/A	492787.69	5459127.00	PMV
7	Overpass	Brooksbank	133-B-105	Brooksbank Underpass to Lynnter	Roads & Surfaces	B	DNV133	N/A	497054.87	5461489.79	PMV

AM Data Repository: Showing the data.



Asset Management Inventory Data Sheet



Asset Name: Main Street

Asset Number: 64-B-100 Site# 64_63

Asset Class: OVERPASSES Code B

Address: North end of Main St, Vancouver

Description: Main Street Overpass

GPS: 492,787.69 m E, 5,459,127 m N

Photo No.:

Owner: PMV Contact: Gary Tosh Phone: 604-665-9340

Lease#: N/A PA: Raymond Tsow

FINANCIAL

Fixed Asset# 3362	Appraised: STBD	Appraised date:
Lifecycle: 480 (months)	Contact: TBD	Appraised by: TBD
Insured: YES	Ins. value: \$ 8,363,306.11	Ins. Resp: PMV
Original Cost: \$3,341,097.55	Depreciation: \$(1,837,603.61)	Net Value: \$1,503,493.94

OVERPASSES

Length: 0.26 km / 290 m	Deck Width: 23 m	Hwy Load: MS260
No. of Lanes: 2	Sidewalk: Y / N, # Y, 2	Curb: Y / N, # Y, 2
Year Built: 1996	Year Assessed: 2006	Condition: Good

ATTACHMENTS: (Check all that apply)

Drawing List Notes: Plan No. 202 'Main Street Extension'

Photos Notes: W:\Gary Tosh\Overpasses\MainSt Overpass

Component List Notes:

Inspection Type: _____ By: _____ Date: _____

Frequency

Condition Report Notes:

NOTES:

PHOTO OVERVIEW:



Locating PMV assets

- Approximately 70% (477) assets have been identified in the Port GIS.

Next Steps for AM at PMV



- Level 1 condition inspection.
 - High level visual inspection
 - 682 assets to be inspected by end of 2012.
- Level 3 condition assessments.
 - In-depth engineering evaluation
 - Yearly budget of \$300,000/year
- AM Directive
- Levels of Service
- Software needs analysis