

Real Estate Administration at the Vancouver Port Authority (VPA)

Presentation by Ron McMillan - GIS/LIS Coordinator December 13, 2004



Introduction

- •Overview of the Vancouver Port Authority (VPA)
- How CAD and GIS are used
- •How VPA uses GIS to administer Real Estate
- •Q & A



History of the VPA

- •1864 Operated informally as a harbour
- •1913 Vancouver Harbour Commission
- •1924 "Six Harbours Agreement" established the Port of Vancouver as a Federal Port
- •1936 National Harbours Board
- •1983 Vancouver Port Corporation
- •1999 Vancouver Port Authority



About the VPA

Areas

- •Proprietary jurisdiction of 65 sq km
- •Navigational jurisdiction of 392 sq km

Length of Coastline

- •Proprietary 161 km
- •Navigational 247 km





VPA Navigational and Proprietary Jurisdictions



About the VPA

Bordering Municipalities:

•Vancouver

•District of North Vancouver

City of North Vancouver

•District of West Vancouver

•Burnaby

•Belcarra

•Delta

Port Moody

Other

•Province of BC (east side of Indian Arm)



About the Port of Vancouver

- •#1 in Canada in Total Cargo handled
- •#3 on West Coast full foreign containers
- •Cruise Industry contributes \$508 million to regional economies
- •Create 27,500 direct job across Canada
- •\$620 million in taxes to governments
- •\$55.5 million in PILT and property tax to 8 municipalities



How the VPA Operates

- •Canada Marine Act, Payments in Lieu of Taxes Act and others federal laws define how the VPA operates.
- •VPA operates as an Agent of Her Majesty in right of Canada and reports to the federal Minister of Transport.
- •Canada Marine Act gives VPA the authority to lease or licence Federal Real Property in it's defined jurisdiction.
- •VPA's Letters Patent issued in terms of the *Canada Marine Act*, identifies VPA's jurisdiction.



Management of VPA Land Records

- •VPA does not subscribe to the Provincial Land Titles Office (LTO) for recording leases or licences*.
- •Some areas within the VPA jurisdiction are registered in the LTO, but those boundaries often do not correspond to the lease or licence parcels.
- •VPA operates it's own private land registry system, using a combination of GIS and LIS (NovaLIS) systems.

^{*}With the exception of residential waterfront licences



Management of VPA Land Records

•In effect, VPA operates two distinct boundary systems.

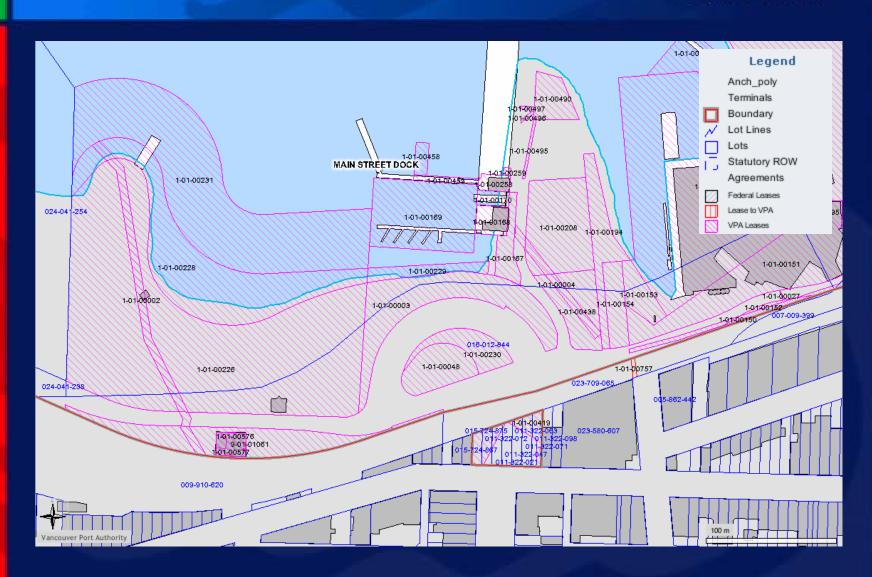
•LTO Parcels identified by a unique number

•PID (e.g.: 016-012-844)

•VPA Parcels identified by a unique number

•LID (e.g.: 1-01-00762)





VPA parcels and LTO registered parcels



Uses of CAD at VPA

- •Use AutoDesk:
 - •Map
 - •Raster Design
 - Land Desktop

•Allows compatibility with our contractors, surveyors, consultants and tenants.



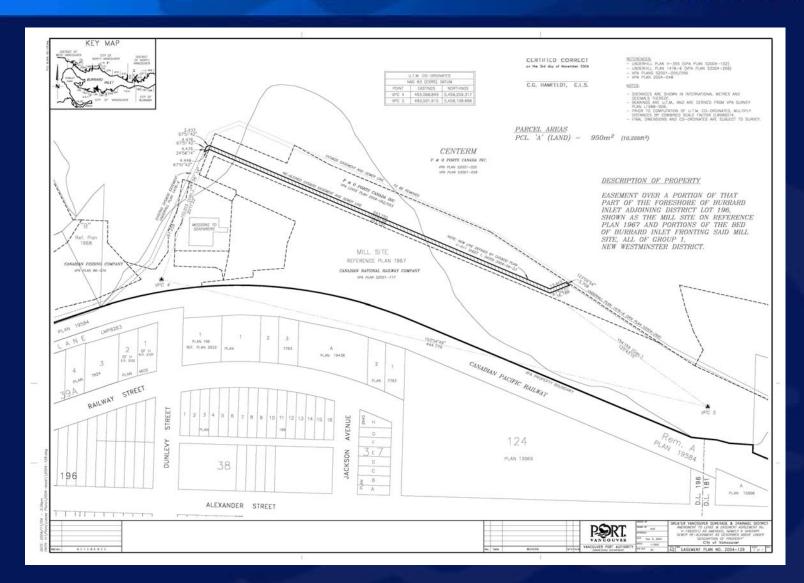
Uses of CAD at VPA

- •Real Estate
 - •Mapping, cadastral parcels, surveys, VPA parcels
- •Engineering
 - •Structures, utilities, soundings
- Planning
 - Land use

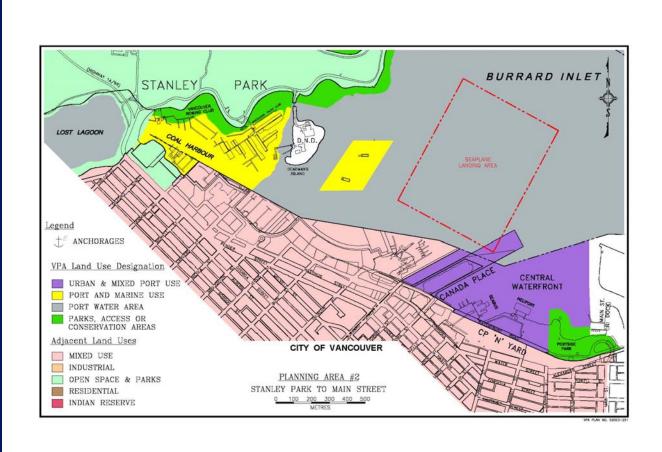


















CAD to GIS

- •All Design work done in CAD
 - •E.g.: Negotiations with tenants to lease/licence areas
- Data added to DWG source files:
 - •Finalized VPA agreement & unoccupied parcels
 - •Assigned unique LID number by our NovaLIS system known as **PORTIOIO**
 - Current and historical parcels
 - •Current mapping and provincial cadastral information



CAD to GIS

- •Source DWG files contain:
 - •Object data
 - Topology
 - •Database (MS SQL Server)
 - •Link templates



CAD to GIS

•Source DWG files are the basis of VPA's GIS

- •Source DWG files are:
 - Queried into other CAD files
 - •Used in design work in CAD
 - •Exported out to use in ESRI SHP files



CAD to GIS

- Types of Source DWG data
 - •Agreements VPA lease/licence agreements, unoccupied property
 - •Cadastral lots, easements, SROW, district lots, VPA, Harbour Headline, municipal, indian reserves, native land claims
 - •Natural Environment land, water, bathymetry, reclaimed land
 - •Spatial Framework monuments



CAD to GIS

- •Types of GIS data (continued)
 - •Infrastructure electrical, water, sewer, telephone, fibre, communications, gas, hydro, structures, road, rail
 - •Socio-Economic electoral districts
 - •World Data Canada, USA, Mexico, Europe, World



GIS Systems

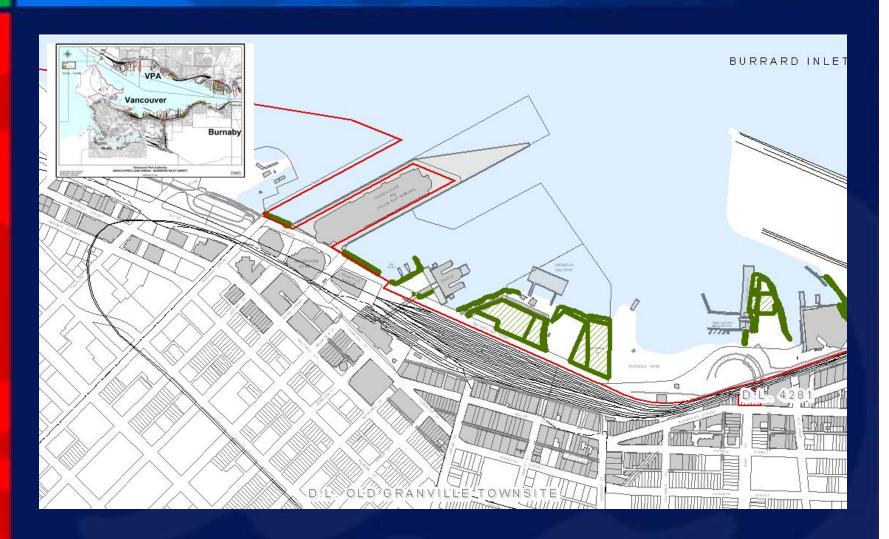
- •SHP files used in a number of VPA systems
 - Various projects
 - •<u>PORTfolio</u> ArcView 3.2a + NovaLIS Land Titles Framework
 - •Maps on Request ArcIMS application



Real Estate GIS Projects

- •Maps to better utilize Port Real Estate
- •Maps to provide information on taxation





Unoccupied Land Areas







STRATEGIC PLAN - AGREEMENT TERMINATION PERIODS

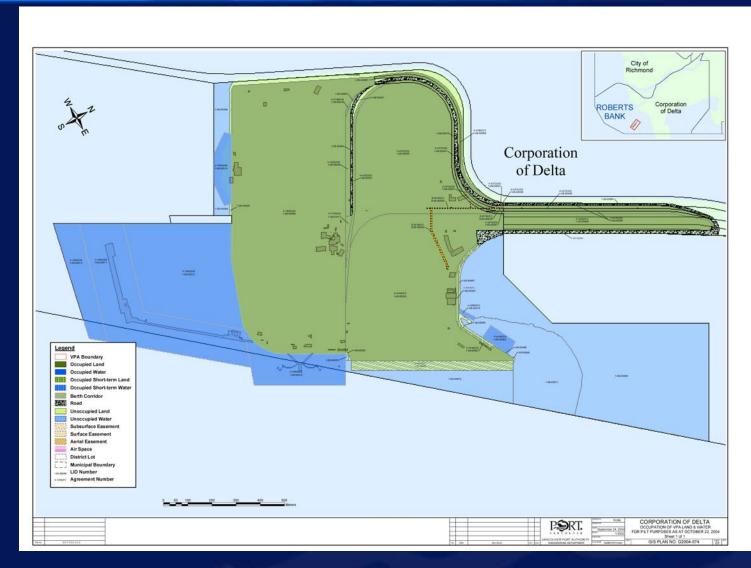
Attach to Plans G2004-047 to G2004-067

Data Date: June 24, 2004 Sorted by ID

ID	Agreement Number	Tenant Name	Termination Date	Renewal End Date					
Agreements that expire in the next 0 - 5 years									
3	E-0004(01)	TYMAC LAUNCH SERVICE LTD.	31-Dec-2005						
- 4	E-0007(01)	CITY OF PORT MOODY	31-Dec-2007						
7	E-0013(01)	THE CORPORATION OF THE DISTRICT OF NORTH VANCOUVER	28-Feb-2006						
10	E-0020(02)	B.C. GAS UTILITY LTD.	30-Nov-2005						
13	E-0024(01)	YOUNG MEN'S CHRISTIAN ASSOCIATION OF GREATER	30-Nov-2004						
		VANCOUVER							
15	E-0026(01)	UNITED GRAIN GROWERS LTD. ATTN: ALLAN TABLIZO	31-Jul-2006						
16	E-0027(02)	POLYGON DEVELOPMENT 141 LIMITED	27-Oct-2005						
20	E-0031(01)	TELUS COMMUNICATIONS (B.C.) INC.	30-Nov-2005						

Strategic planning for future growth - Report







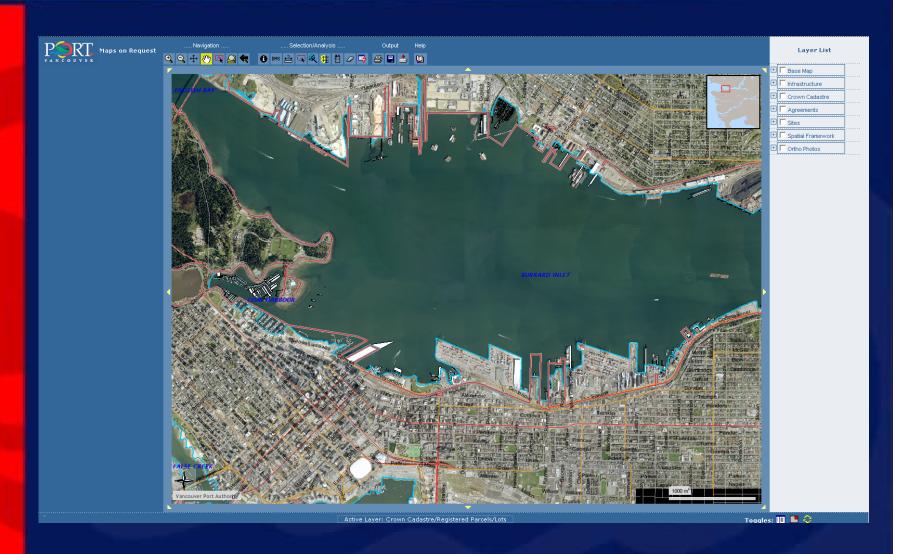
Real Estate Application -

Maps on Request (MOR)

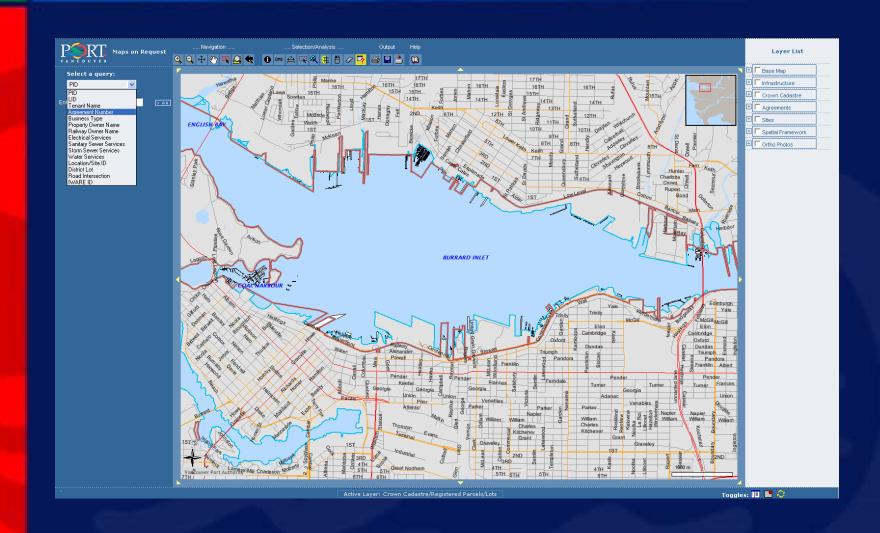


- •ESRI ArcIMS application
- Used by all VPA staff
- •Only system at VPA that uses all available GIS data













Maps on Request – Query selection of an agreement







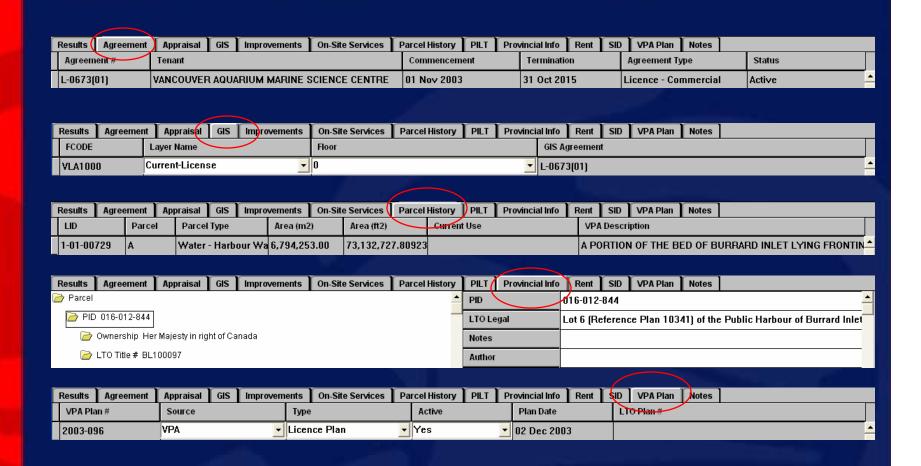
Real Estate Application - PORTfolio

- •Parcel centric system (Land Information System)
- Contains information relating to:
 - •VPA Parcels LID numbers
 - •Agreements
 - Contacts
 - •Environment
 - •GIS



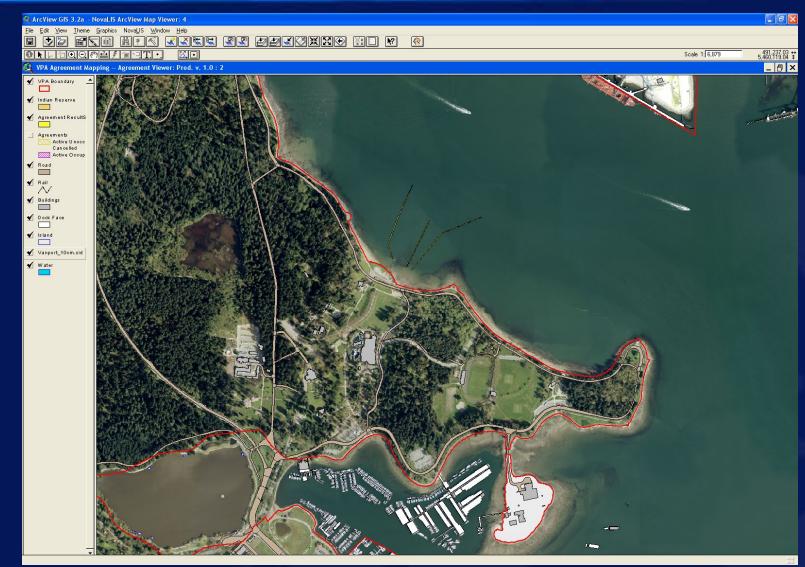
Parcel Viewer		0.2						
		TOWN ON THE	enorte Heln					
	File Edit View Data Tools Document Management ViewerReports DbReports Help							
	Clone Commit Rollback Clone							
LID	1-01-0076	Parcel A	SID 1	38	On-Site Services*	Improvements*		
Status	atus Active 🔻				Land Access*	Water Access*		
Active Date	ive Date 01 Nov 2003 Cancelled Date			Reverter*		Unregistered Interests*		
VPA Description			Vesting*			Grantable*		
24/20	SEA WATER INTAKE PIPES AND ONE DISCHARGE PIPE			Occupied*				
	COMPRISING PORTIONS OF							
Municipality	Vancouver			▼ Current Use ▼				
Civic Address	Address			Future Use				
Parcel Type	Parcel Type Water •			VPA Purchase Price				
Area (m2)	Area (m2) 890.00			Total Purchase Costs				
Area (ft2)			Purchase Date					
Results Agree	ement Ap	praisal GIS Improvements O	n-Site Servic	es Parcel His	story PILT Provinci	al Info Rent SID VPA Plan	Notes	
LID	Parcel	Parcel Type	Status	Area (m2)	Area (ft2)	Current Use	Future Use	
1-01-00762	Α	Water	Active	890.00	9,579.8799		_	
1-01-00763	В	Water	Active	565.00	6,081.60915			
1-01-00764	С	Water	Active	1,012.00	10,893.07692			
1-01-00765	D	Water	Active	45.60	490.8343			
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Ready				V RJM	29Nov2	004 08:45:16 S	1/4 (OM)	





PORTfolio – Parcel Viewer – Various tabs containing LID information



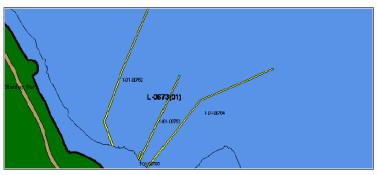






Agreement Synopsis Report DATA DATE: 29-November-2004 Sorted by: Agreement No. PORTFOLIO Report No. R2002-004

L-0673(01) VANCOUVER AQUARIUM MARINE SCIENCE CENTRE



Agreement No.: Tenant Name

Commencement:

L-0673(01) VANCOUVER AQUARIUM MARINE SCIENCE Agreement Status: Active

CENTRE Agreement Type:

Licence - Commercial 01-Nov-2003

Licence Plan

Business Type: Termination:

Pipe Line

31-Oct-2015

Legal Description:

Licence areas for three sea water intake pipes and one discharge pipe comprising portions of the Bed of Burrard Inlet fronting Stanley Park, Group 1, NWD, in the City of Vancouver, Province of BC

Purpose:

Operation, maintenance, inspection, repair and replacement of THREE (3) sea-water intake pipes and ONE (1) effluent discharge pipe connected to the Vancouver Aquarium fish tanks, manual pods and

filters, located within, upon and along the Licence Area...

VPA Plan

2003-096

LID Period:	Parcel 01-Nov-200	<u>Type</u> 3 to 31-Oct-2015	Area ft2	Area m2	Area ft2	Rental Rate ft2	Ren
1-01-00762	A.	Water	9,579.88	890.00		\$0.00	
1-01-00763	В	Water	6,081.61	565.00		\$0.00	
1-01-00764	C	Water	10,893.08	1,012.00		\$0.00	
1-01-00765	D	Water	490.83	45.60		\$0.00	
			27,045.40	2,512.60			

Other Income

Period

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Real Estate Administration at the Vancouver Port Authority (VPA)

- •GIS used in a number of Real Estate related systems
- •Tool used for administration of VPA Real Estate assets
- •Our systems are flexible and they will continue grow with the GIS in the future.

•Questions?