Newfoundland and Labrador

Water Resources Web Portal

Amir Ali Khan and Paul Neary

Newfoundland Labrador
Department of Environment and Conservation
Water Resources Management Division

What is a Web Portal

- A Internet web page
- “A web portal presents information from diverse sources in a unified way.”
- “Portals provide a way for enterprises to provide a consistent look and feel with access control and procedures for multiple applications, which otherwise would have been different entities altogether.”

http://en.wikipedia.org/wiki/Web_portal

- This is a GIS Web Portal

Geographic Information System (GIS)

- A computer system capable of integrating, storing, editing, analyzing, sharing, and displaying geographically-referenced information
- In other words – Computerized Mapping
- Almost all environmental data has a location that can be shown on a map
  - For example, map coordinates for a sampling location

Version 1.0
The DWQ GIS Application

- **Internal** Application "*went live*" in May 2004
  - Original plan was for a public version
- Winner of ESRI Canada 2005 Award of Excellence
- Over the past three years improvements have been made and new water resources datasets have been added
- Was demonstrated in the 2007 Workshop

The Water Resources Web Portal

- **April 2008**
  - Federal GeoConnections funding was obtained to make a public portal
  - Partners and other funding contributors:
    - Office of the Chief Information Officer (OCIO)
    - Model Forest of Newfoundland and Labrador
  - Other partners:
    - City of Corner Brook
    - Steady Brook Watershed Management Committee
    - Town of Gander
    - Memorial University of Newfoundland and Labrador

Project Purpose

- Create a web portal to make available to decision makers various location based water resources data for the province.
- Integrate and overlay the various water resources data sources and services, to improve decision making by the Department and various other stakeholders including industry, municipalities, federal agencies, academia, recreational users and special interest groups.

Project Data

- Examples of water resources data will include:
  - Drinking water quality data, source water protection areas for ground and surface water sources, boil water advisories
  - Background water quality data, station profiles and watersheds
  - Real time Water Quality and Stream Flow data with station locations
  - Dam locations, sewage outfalls and ecozones
  - Topographic maps

Project Status

- To be completed by March 31, 2009
- At this time in final security review
- The OCIO has a process in place for updates and enhancements
- This portal will be the primary location for release of future datasets such as:
  - Flood Risk Mapping
  - Environmental Permits
  - OETC Infrastructure Information

Portal Page

Newfoundland and Labrador Water Resources Portal - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://maps.gov.nl.ca/water/
Go
Links ADRSv4.0 ADRSv6.0 ADRS Flows Google Gov Tel Dir WRMD - Home WRMD INTRANET WRMD Scanned Reports
McAfee SiteAdvisor

Department of Environment & Conservation

Water Resources Portal Home Page

Mapping Application

Open Water Resources Map Viewer

The Water Resources Portal displays a wide variety of water resources data to assist in decision making. Water resources data available in the portal includes: drinking water quality data and treatment profiles; protection areas for ground and surface water supplies; boil water advisories; ambient water quality data, station profiles and watersheds; real time water quality data; hydrometric station data and station profiles; climate station profiles; dam locations and sewage outfall locations

Community Water Resources Reports

Select a community from the drop down list and click "View Community Reports" to see the available water resources reports.

Select Community: Admiral's Cove

View Community Reports

Current Boil Advisories

Boil Advisories

Current Boil Advisories in effect.

Trusted sites
Start Inbox - Micr... Newfoundl... Links 2:49 PM

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Community Water Resources Reports

Select a community from the drop down list and click "View Community Reports" to see the available water resources reports.

Select Community: Admiral's Cove View Community Reports

Current Boil Advisories

Boil Advisories

Current Boil Advisories in effect.

Public Water Supplies

Public Water Supplies List

Report listing all public water supplies.

Ad Hoc Queries

Queries

The ad hoc query function allows the user to select up to three database fields and conditions from the drinking water quality tables and view the results.

This portal was developed with support from Geoconnections, a national partnership program led by Natural Resources Canada.

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http://maps.gov.nl.ca/water/help.htm - Microsoft Internet Explorer
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Help with the Department of Environment & Conservation Water Resources Map Viewer

Available Help Topics

FAQ
Help Videos
Documents and Manuals
Glossary of Terms

FAQ

1. What is the preferred screen resolution for using the Water Resources Map Viewer?
- 1024 x 768

2. What are the supported browsers for the map viewer?
- Internet Explorer 6, Internet Explorer 7, Mozilla Firefox.

3. The export image tool doesn't open, even after pop up blockers are disabled?
- You will need to change security settings within Internet Explorer. Please see our help document for instructions.

Back to Top

Help Videos

How to view feature attributes: Identify
How to measure point, lines and polygons: Measure
How to add a label to the map: Creating Labels

Done
Trusted sites
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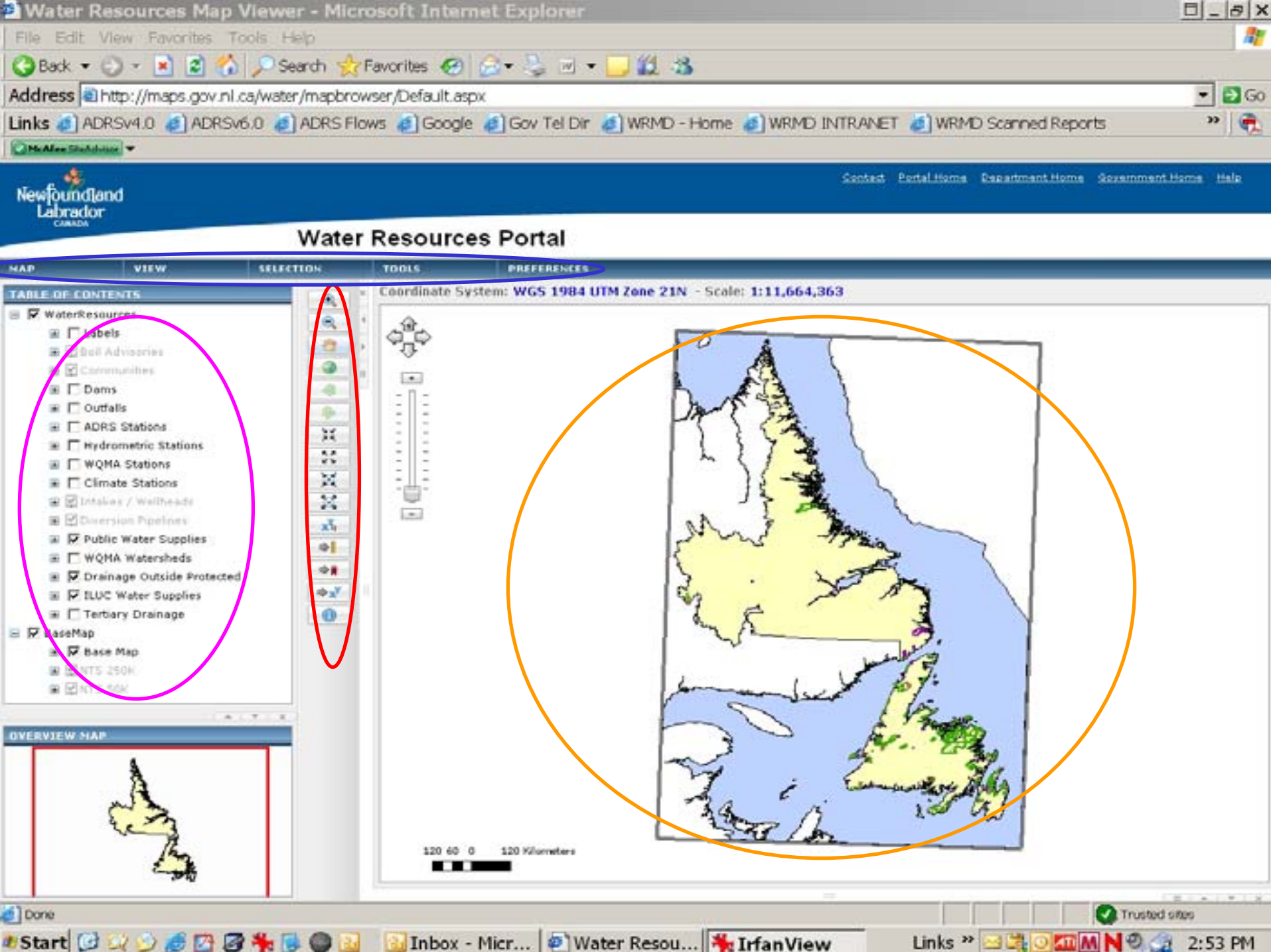
Map Page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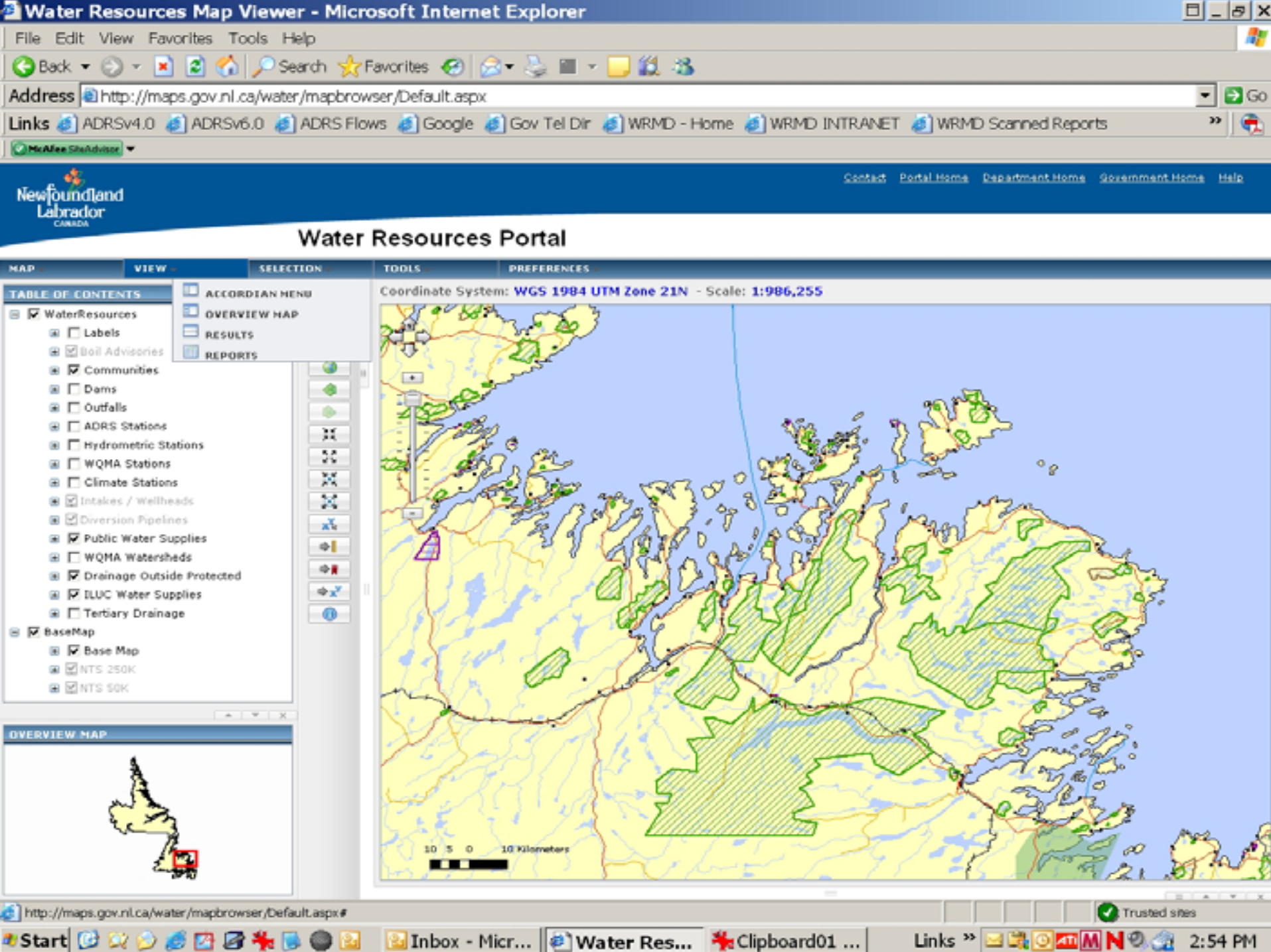
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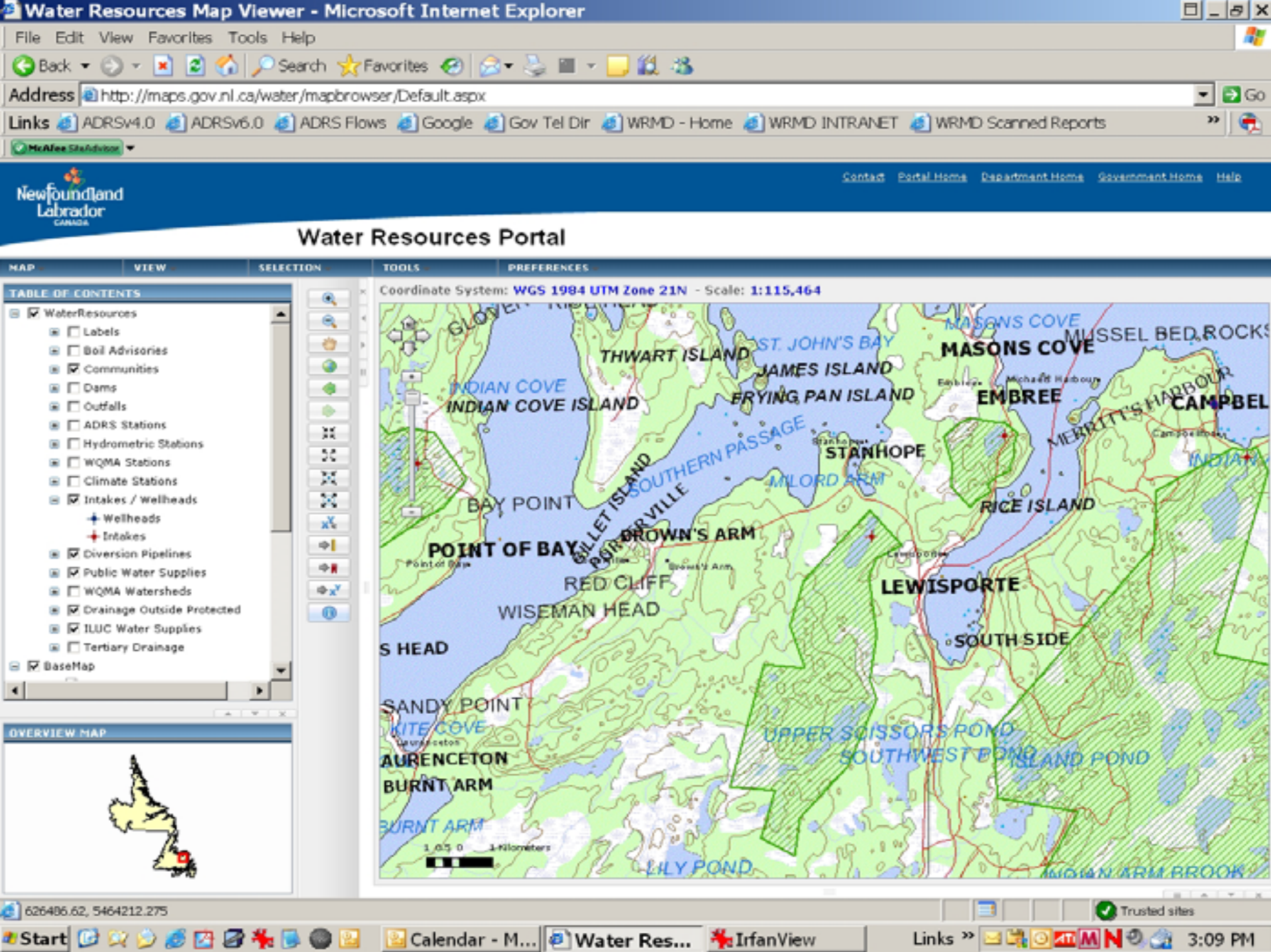
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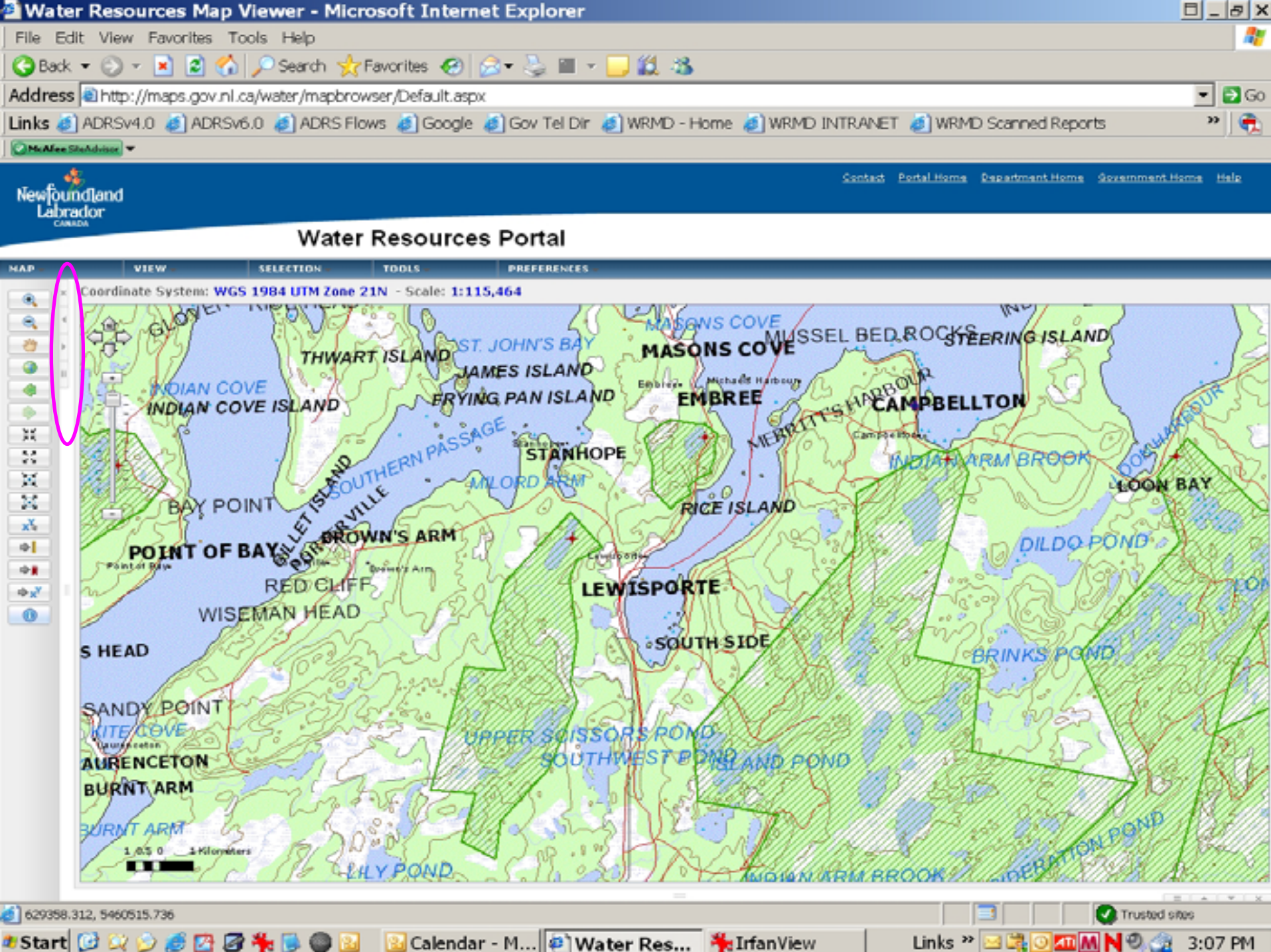
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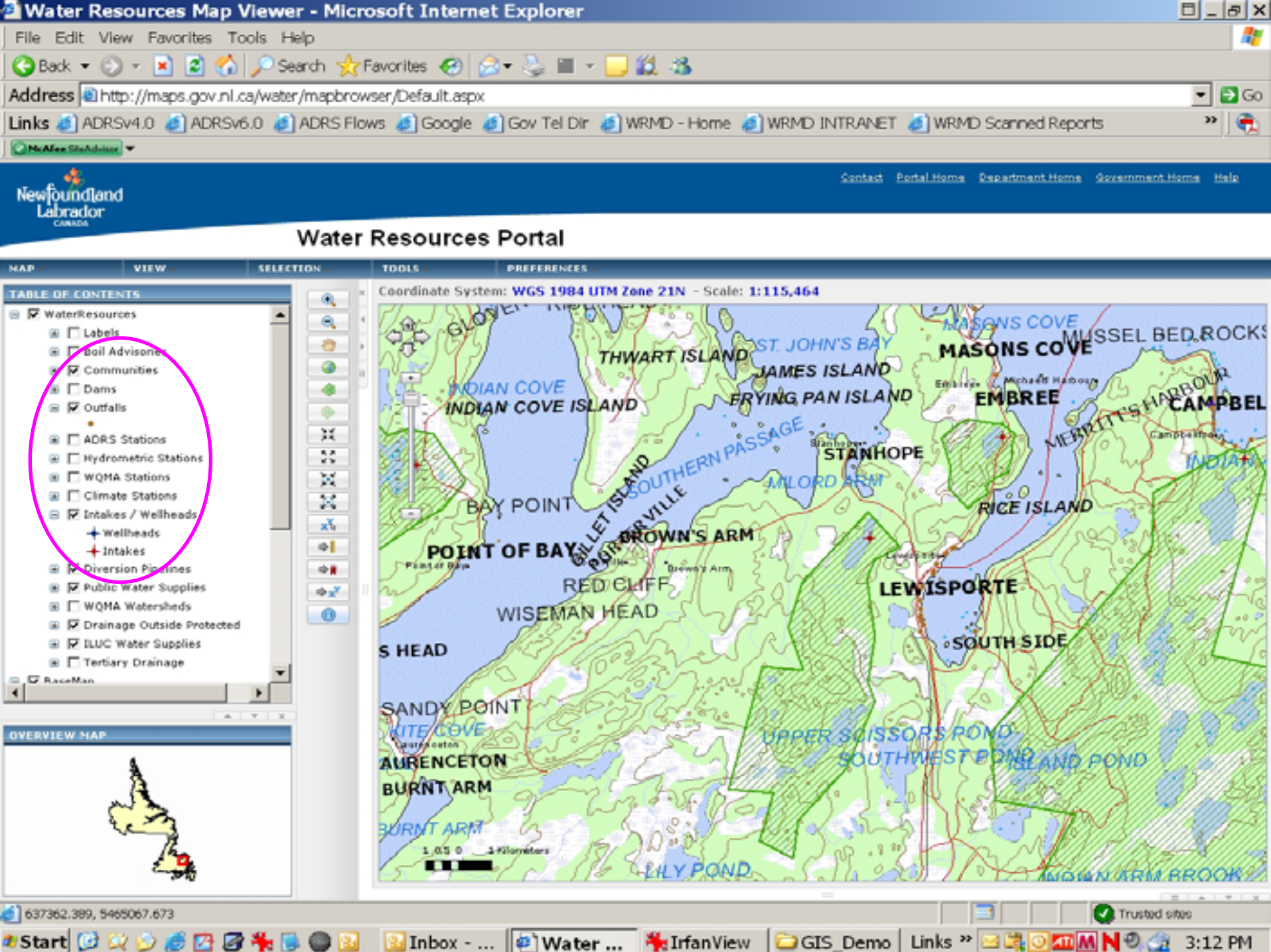
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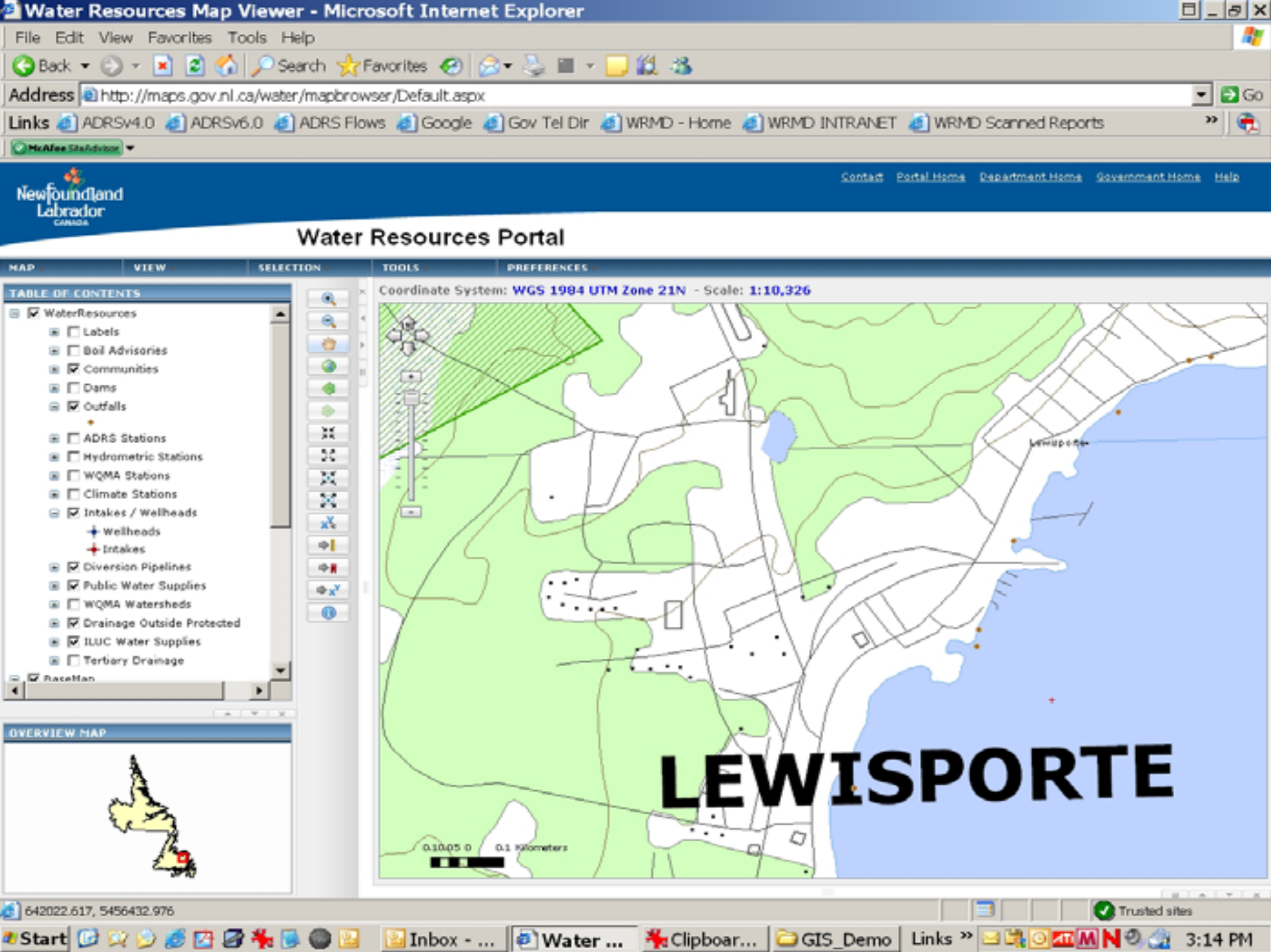
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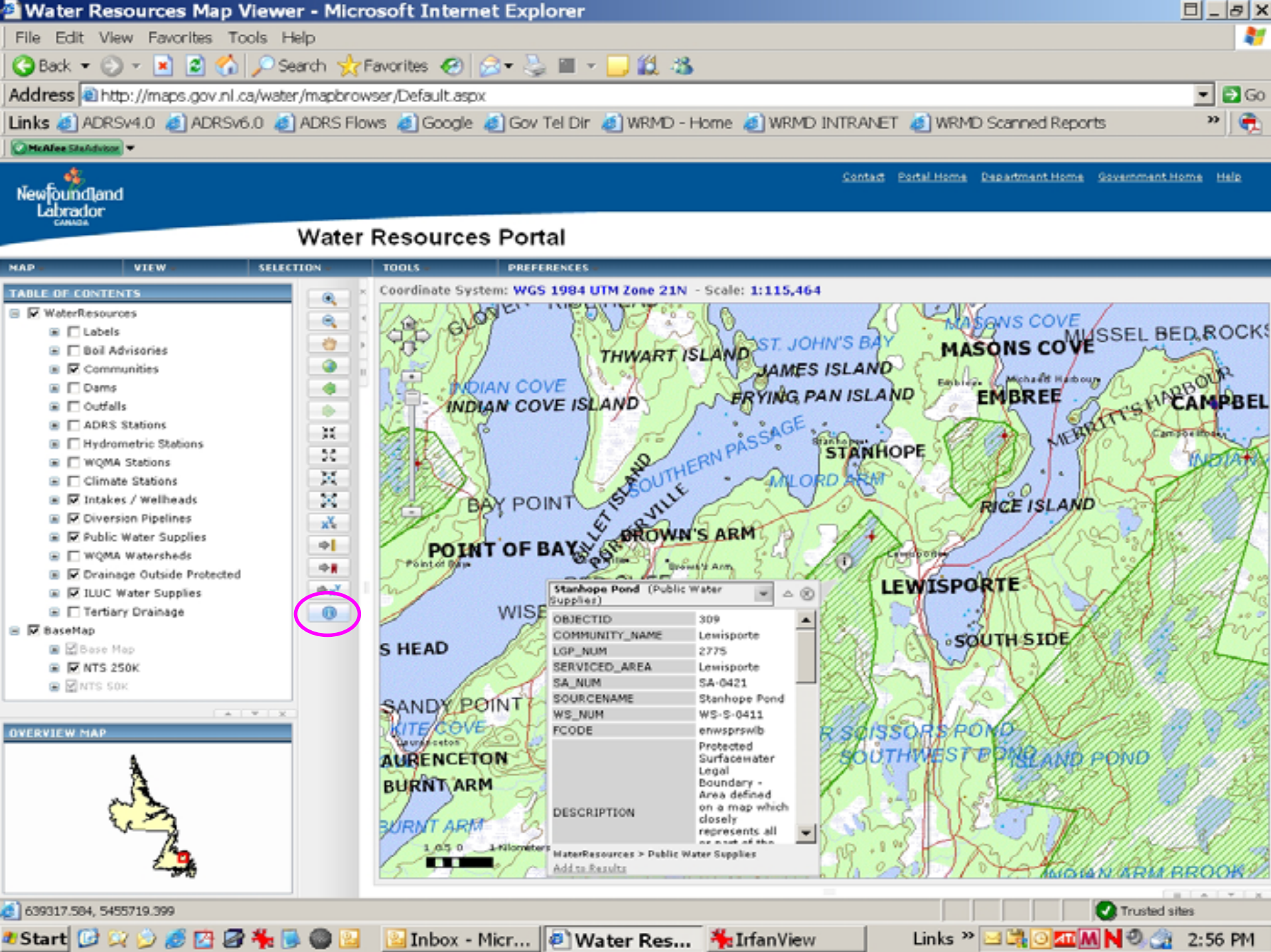
Identify and Reports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AURENCETON
BURNT ARM
SCISSORS POND
SOUTHWEST POND
ISLAND POND
INDIAN ARM BROOK
Stanhope Pond (Public Water Supplies)
OBJECTID 309
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LGP_NUM 2775
SERVICED_AREA Lewisporte
SA_NUM SA-0421
SOURCENAME Stanhope Pond
WS_NUM WS-S-0411
FCODE enwsprswlb
DESCRIPTION Protected Surfacewater Legal Boundary - Area defined on a map which closely represents all
WaterResources > Public Water Supplies
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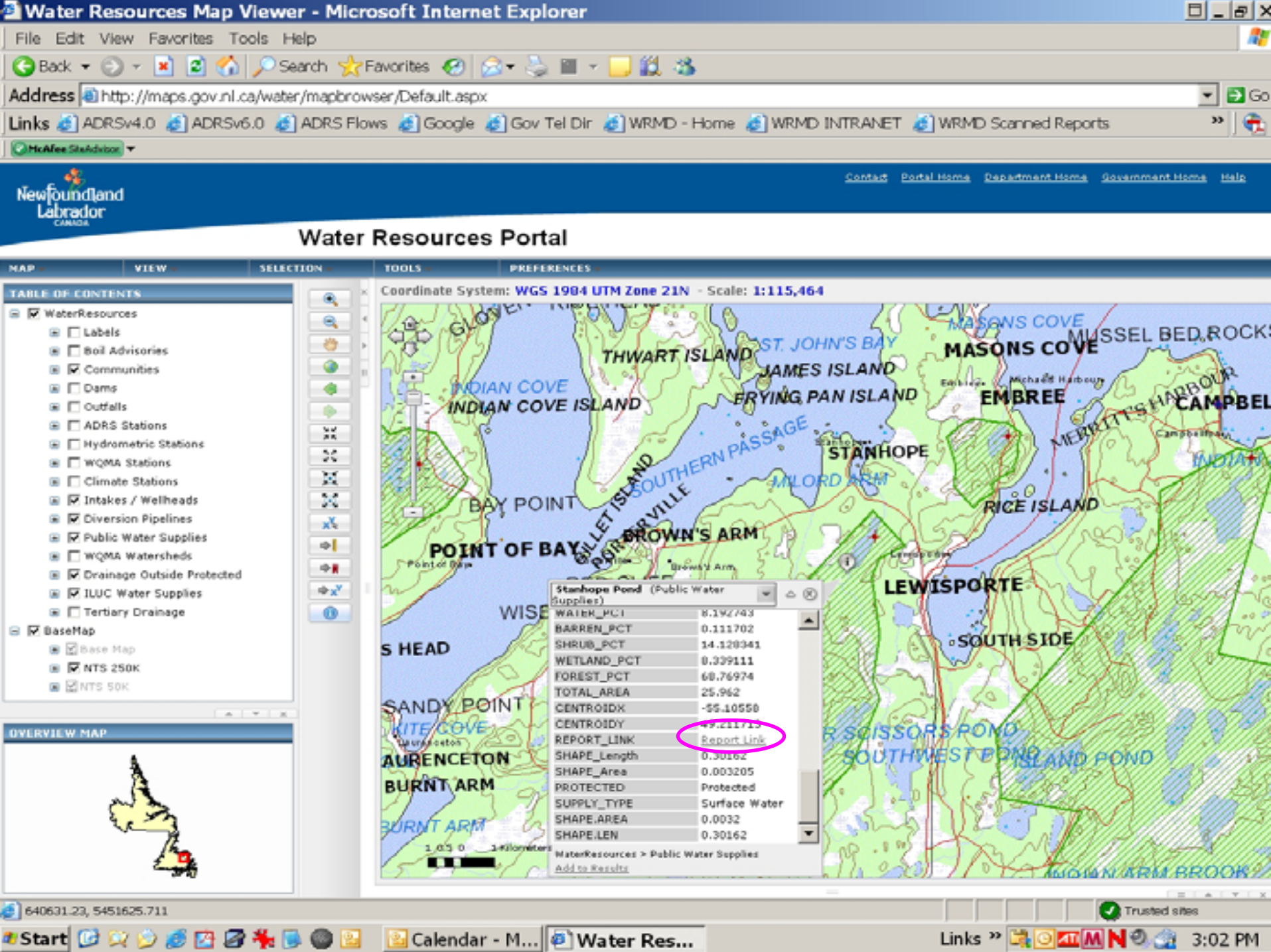
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Stanhope Pond (Public Water Supplies)
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SHRUB_PCT 14.120341
WETLAND_PCT 0.339111
FOREST_PCT 68.76974
TOTAL_AREA 25.962
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PROTECTED Protected
SUPPLY_TYPE Surface Water
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SHAPE.LEN 0.30162
WaterResources > Public Water Supplies
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Trusted sites
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Home Map Services Query Help

Select Report: BDCM All Line Data

View Report

- BDCM All Line Data
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- HAA All Line Data
- HAAs Summary
- Langelier Index
- Source Water Nutrients and Metals
- Source Water Physical Parameters and Major Ions
- THM All Line Data
- THMs Summary
- Tap Water Nutrients and Metals
- Tap Water Physical Parameters and Major Ions

Done Trusted sites

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Department of Environment & Conservation
Water Resources Management Division

Tap Water Quality for Public Water Supplies
Physical Parameters and Major Ions

Sample Date	Alkalinity	Color	Conductivit	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium
Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L
Guidelines for Canadian Drinking Water Quality		15			6.5 - 8.5	500		1.0	5.0		
Aesthetic(A) Parameter or Considered (C)		A			A	A		C	C		
Community Name: Lewisporte											
Service Area: Lewisporte											
Supply Name: Stanhope Pond											
Nov 10, 2005	15.00	23	57.0	17.00	6.9	31		0.30	0.00	0.00	5.40
May 26, 2006	11.00	30	65.0	14.00	7.0	35		0.70	0.00	0.00	4.30
Jan 17, 2006	15.00	21	61.0	17.00	6.7	35		0.20	0.00	0.00	5.40
Sep 07, 2007	13.00	24	59.0	21.00	6.9	30		0.00	0.00	0.00	6.00

Done Trusted sites

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Identify and Results

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REPORTS

OVERVIEW MAP

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RESULTS TABLE

http://maps.gov.nl.ca/water/mapbrowser/Default.aspx#

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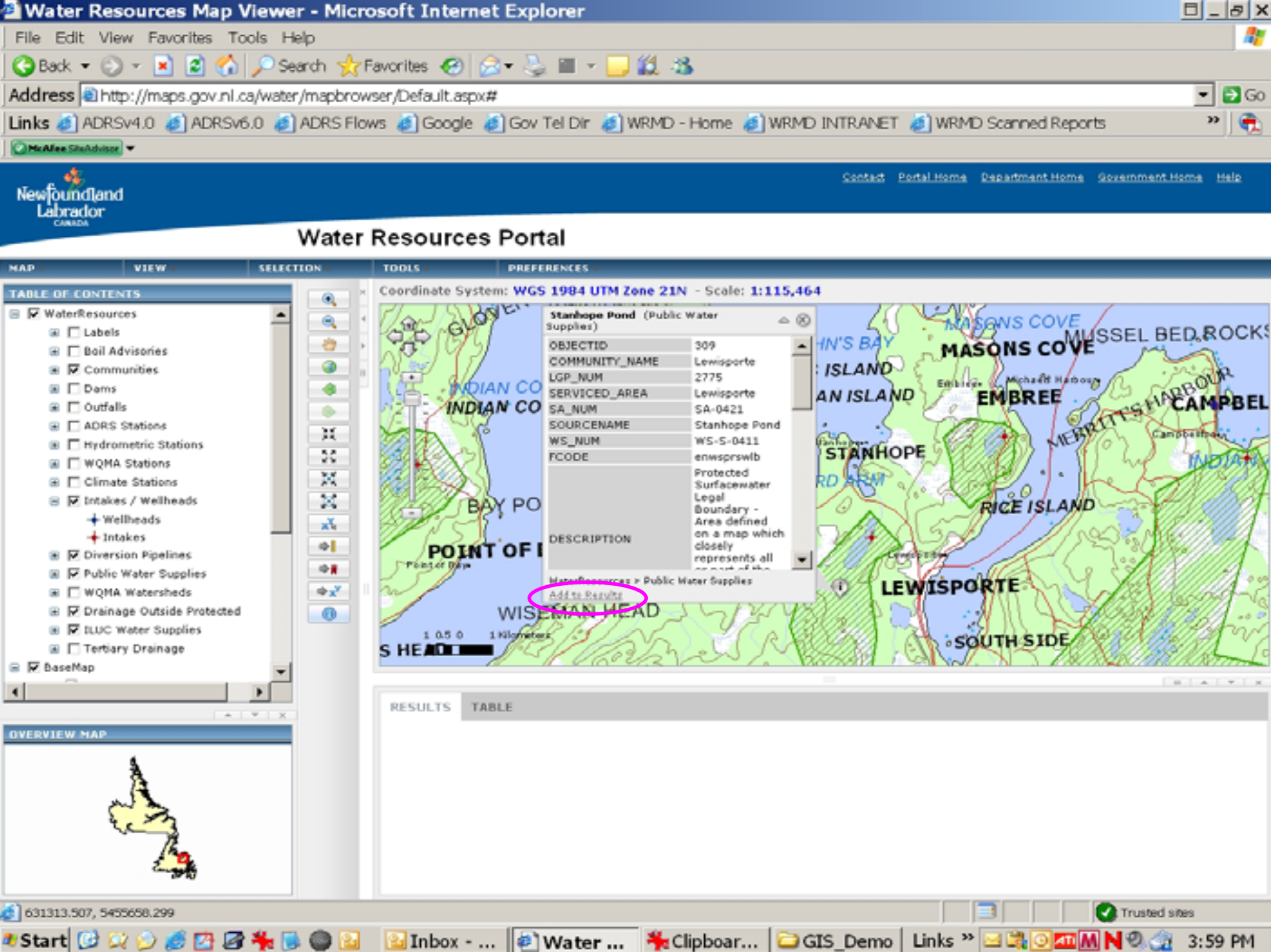
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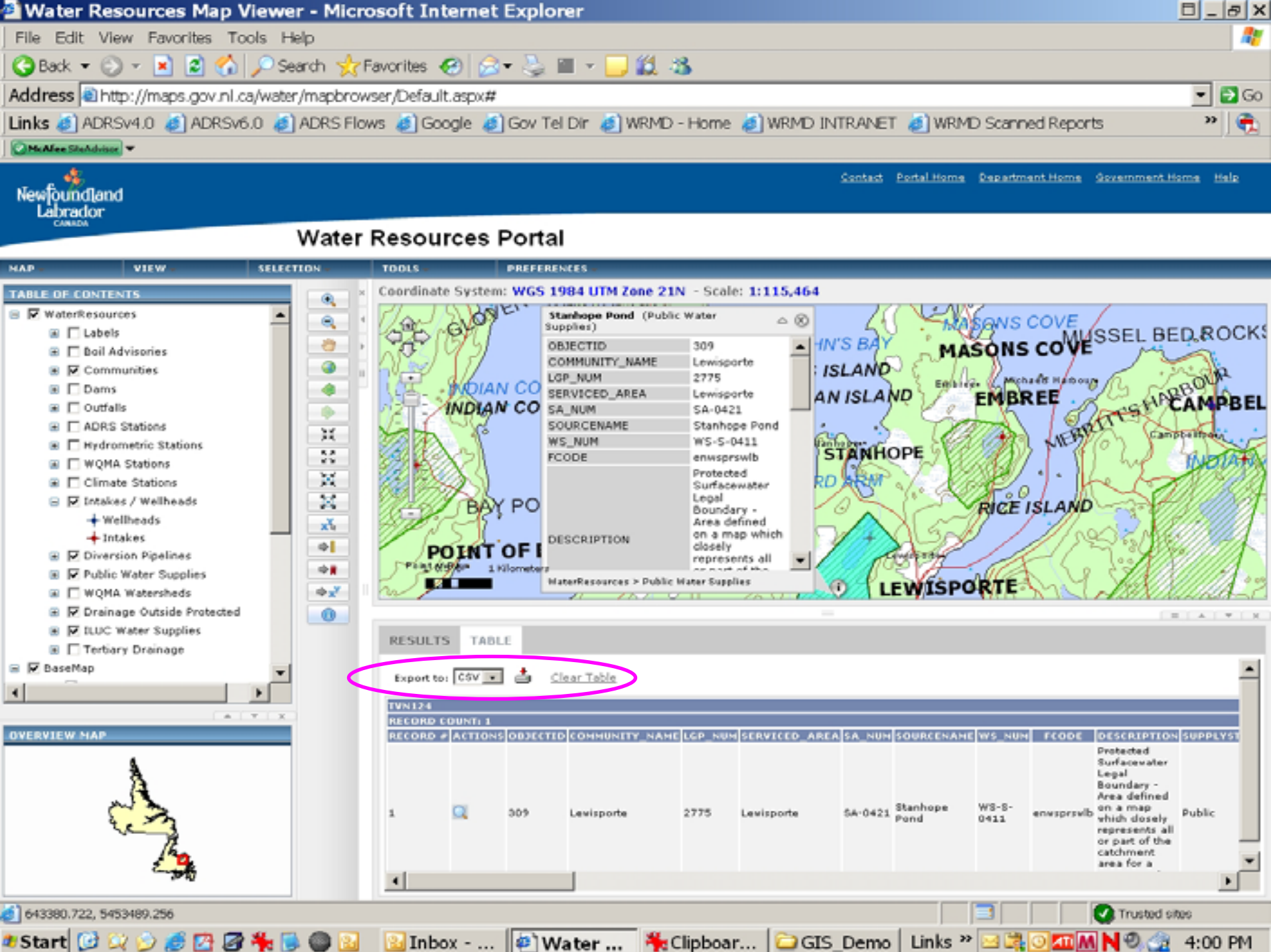
ILUC Water Supplies
Tertiary Drainage
BaseMap
OVERVIEW MAP
Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464
Stanhope Pond (Public Water Supplies)
OBJECTID 309
COMMUNITY_NAME Lewisporte
LGP_NUM 2775
SERVICED_AREA Lewisporte
SA_NUM SA-0421
SOURCENAME Stanhope Pond
WS_NUM WS-S-0411
FCODE enwsprswlb
DESCRIPTION Protected Surfacewater Legal Boundary - Area defined on a map which closely represents all
MapResources > Public Water Supplies
Add to Results
MASONS COVE
MUSSEL BED ROCKS
EMBREE
CAMPBELL
STANHOPE
RICE ISLAND
LEWISPORTE
SOUTH SIDE
POINT OF
WISEMAN HEAD
INDIAN CO
BAY PO
1 0.5 0 1 Kilometers
RESULTS TABLE
631313.507, 5455658.299
Trusted sites
Start Inbox - ... Water ... Clipboar... GIS_Demo Links 3:59 PM


Water Resources Map Viewer - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://maps.gov.nl.ca/water/mapbrowser/Default.aspx#
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Diversion Pipelines
Public Water Supplies
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Drainage Outside Protected
ILUC Water Supplies
Terbary Drainage
BaseMap
OVERVIEW MAP
Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464
Stanhope Pond (Public Water Supplies)
OBJECTID 309
COMMUNITY_NAME Lewisporte
LGP_NUM 2775
SERVICED_AREA Lewisporte
SA_NUM SA-0421
SOURCENAME Stanhope Pond
WS_NUM WS-S-0411
FCODE enwsprswlb
DESCRIPTION Protected Surfacewater Legal Boundary - Area defined on a map which closely represents all
WaterResources > Public Water Supplies
MASONS COVE
MUSSEL BED ROCKS
EMBREE
CAMPBELL
STANHOPE
RICE ISLAND
LEWISPORTE
POINT OF I
1 Kilometers
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Export to: CSV
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RECORD COUNT: 1
RECORD # ACTIONS OBJECTID COMMUNITY_NAME LGP_NUM SERVICED_AREA SA_NUM SOURCENAME WS_NUM FCODE DESCRIPTION SUPPLYST
1 309 Lewisporte 2775 Lewisporte SA-0421 Stanhope Pond WS-S-0411 enwsprswlb Protected Surfacewater Legal Boundary - Area defined on a map which closely represents all or part of the catchment area for a Public
643380.722, 5453489.256
Trusted sites
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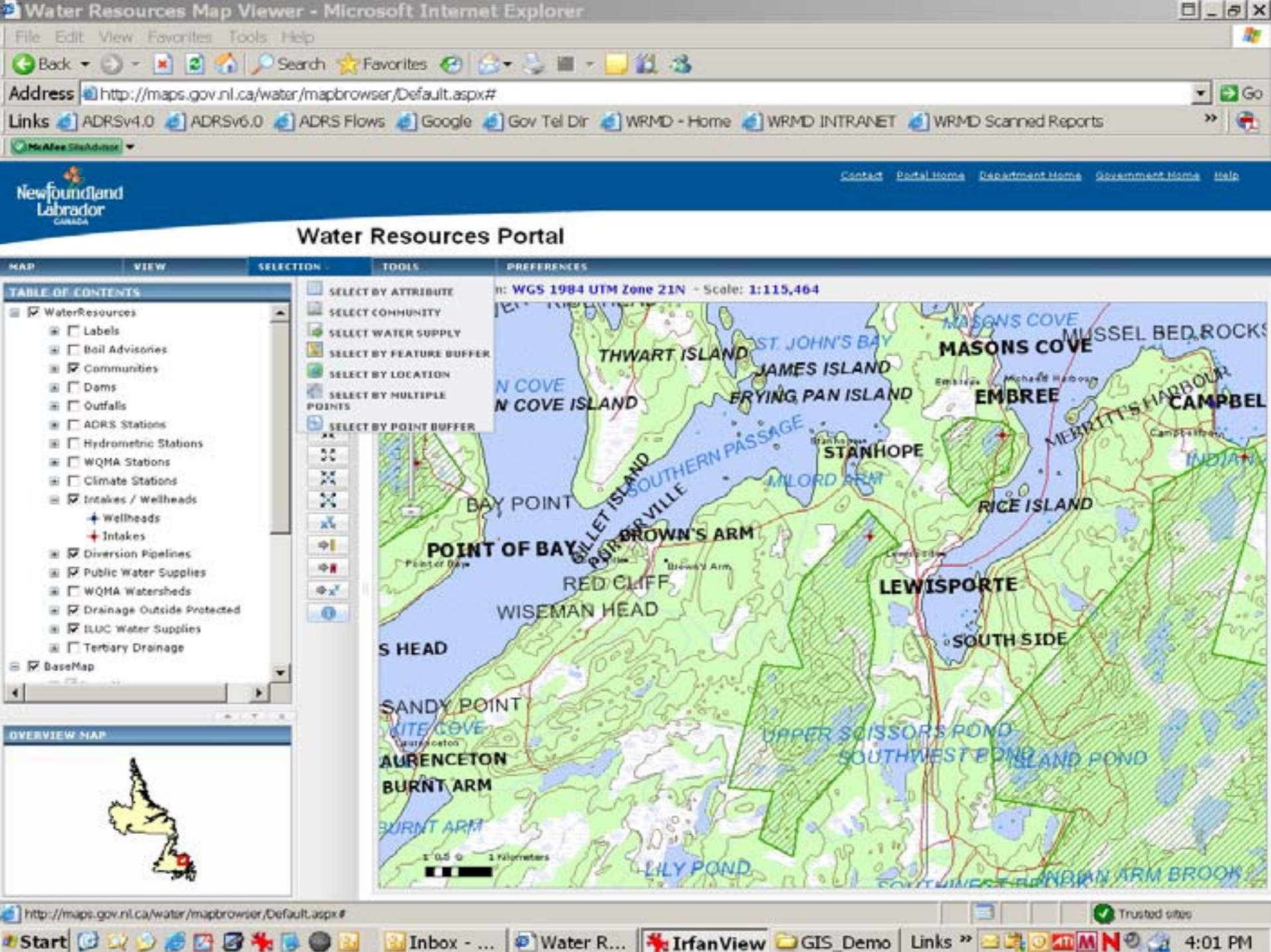
Select by Values


Water Resources Map Viewer - Microsoft Internet Explorer
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SELECT BY ATTRIBUTE
SELECT COMMUNITY
SELECT WATER SUPPLY
SELECT BY FEATURE BUFFER
SELECT BY LOCATION
SELECT BY MULTIPLE POINTS
SELECT BY POINT BUFFER
n: WGS 1984 UTM Zone 21N - Scale: 1:115,464
MASONS COVE
MUSSEL BED ROCKS
ST. JOHN'S BAY
THWART ISLAND
JAMES ISLAND
MASONS COVE
FRYING PAN ISLAND
EMBREE
CAMPBEL
MERRITT'S HARBOUR
STANHOPE
SOUTHERN PASSAGE
MILORD ARM
RICE ISLAND
BAY POINT
GILLETT ISLAND
PORTERVILLE
POINT OF BAY
BROWN'S ARM
RED CLIFF
WISEMAN HEAD
LEWISPORTE
SOUTH SIDE
SANDY POINT
AURENCETON
BURNT ARM
UPPER SCISSORS POND
SOUTHWEST POND
ISLAND POND
LILY POND
INDIAN ARM BROOK
0 0.5 1 Kilometers
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Trusted sites
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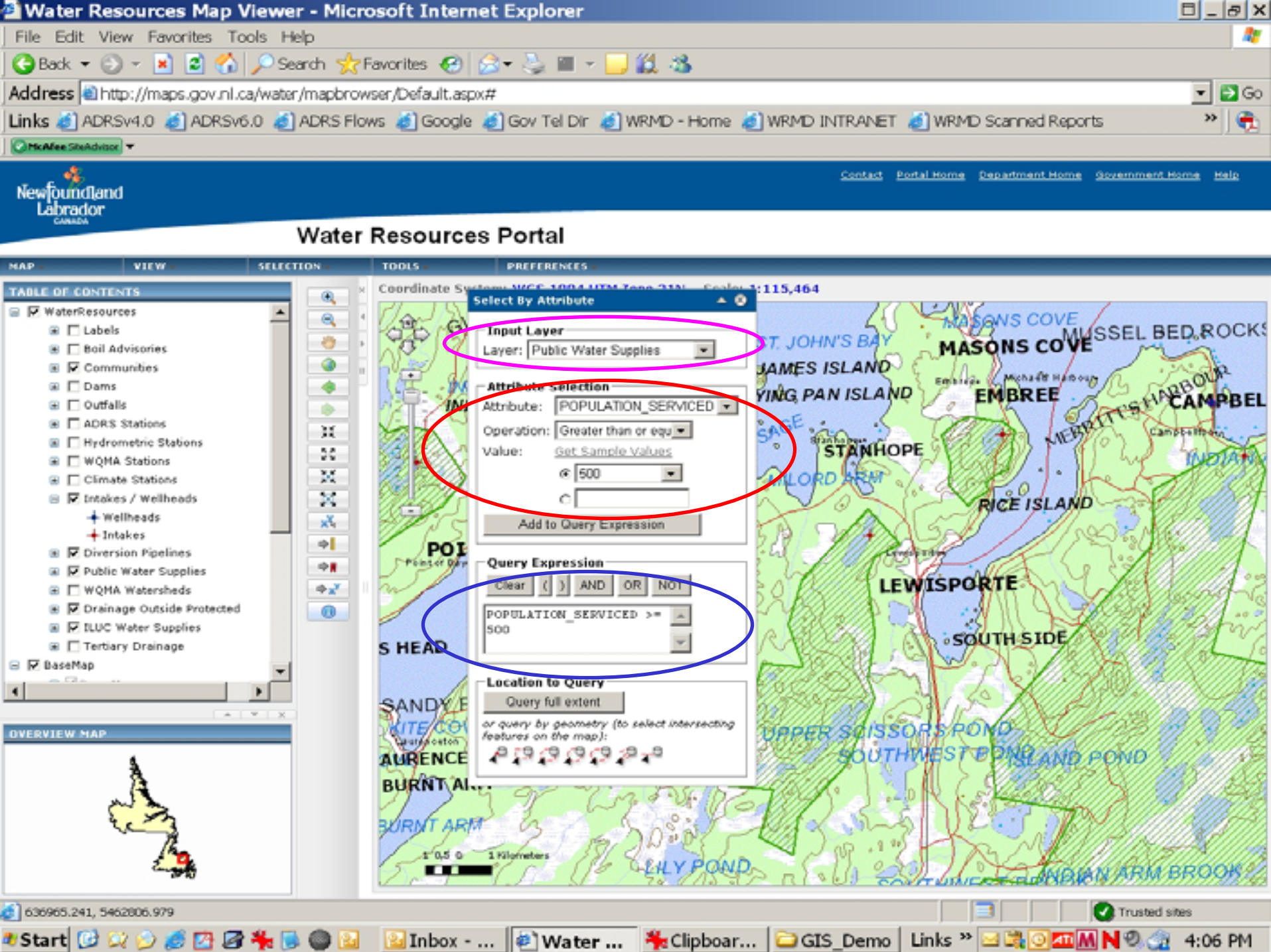
GIS_Demo
Links
4:01 PM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File Edit View Favorites Tools Help
Back Search Favorites
Address http://maps.gov.nl.ca/water/mapbrowser/Default.aspx#
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Select By Attribute
Input Layer
Layer: Public Water Supplies
Attribute Selection
Attribute: POPULATION_SERVICED
Operation: Greater than or equ
Value: Get Sample Values
500
Add to Query Expression
Query Expression
Clear ( ) AND OR NOT
POPULATION_SERVICED >= 500
Location to Query
Query full extent
or query by geometry (to select intersecting features on the map):
MASONS COVE
MUSSEL BED ROCKS
JAMES ISLAND
EMBREE
STANHOPE
RICE ISLAND
LEWISPORTE
SOUTH SIDE
UPPER SCISSORS POND
SOUTHWEST POND
ISLAND POND
LILY POND
INDIAN ARM BROOK
BURNT ARM
1 0.5 0 1 Kilometers
636965.241, 5462806.979
Trusted sites
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MAP TOOLS PREFERENCES

Select By Attribute

Input Layer

Layer: Public Water Supplies

Attribute Selection

Attribute: POPULATION_SERVICED

Operation: Greater than or equ

Value: Get Sample Values

500

Add to Query Expression

Query Expression

Clear ( ) AND OR NOT

POPULATION_SERVICED >= 500

Location to Query

Query full extent

or query by geometry (to select intersecting features on the map):

Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464

RESULTS TABLE

17		77	Embree	1515	Embree (+Little Burnt Bay)	SA-0234	Troke's Cove Pond	WS-S-0228	envsprsvlb	Legal Boundary - Area defined on a map which closely represents all or part of the catchment area for a water supply	Public
										Protected Surfacewater Legal	

625631.223, 5453825.305

Trusted sites

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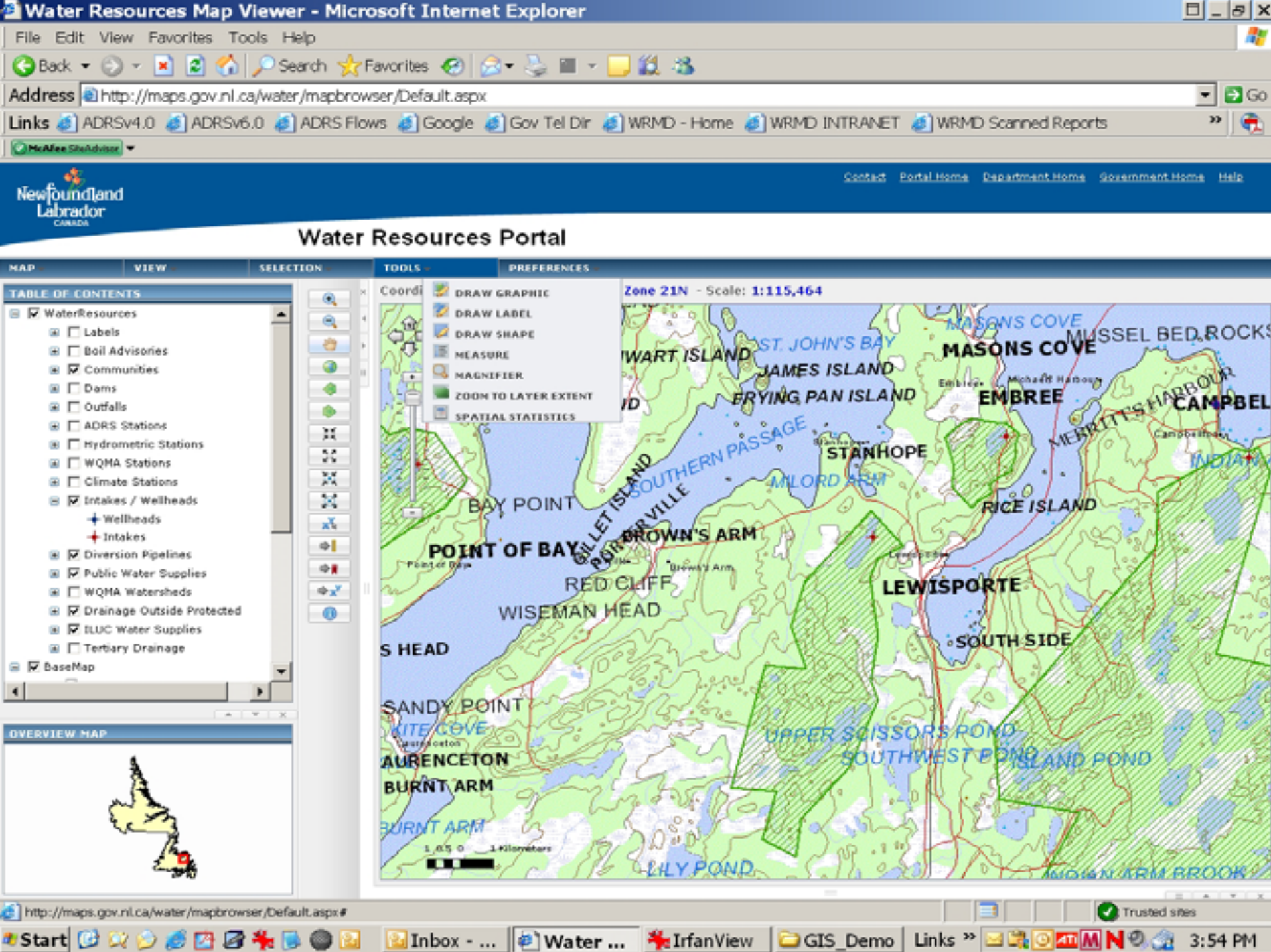
Draw on the Map


Water Resources Map Viewer - Microsoft Internet Explorer
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DRAW LABEL
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EMBREE
CAMPBELL
MERRITT'S HARBOUR
SOUTHERN PASSAGE
STANHOPE
MILORD ARM
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BAY POINT
GILLET ISLAND
POINT OF BAY
BROWN'S ARM
RED CLIFF
WISEMAN HEAD
LEWISPORTE
SOUTH SIDE
SANDY POINT
KITE COVE
AURENCETON
BURNT ARM
UPPER SCISSORS POND
SOUTHWEST POND
ISLAND POND
LILY POND
1 0.5 0 1 Kilometers
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GIS_Demo
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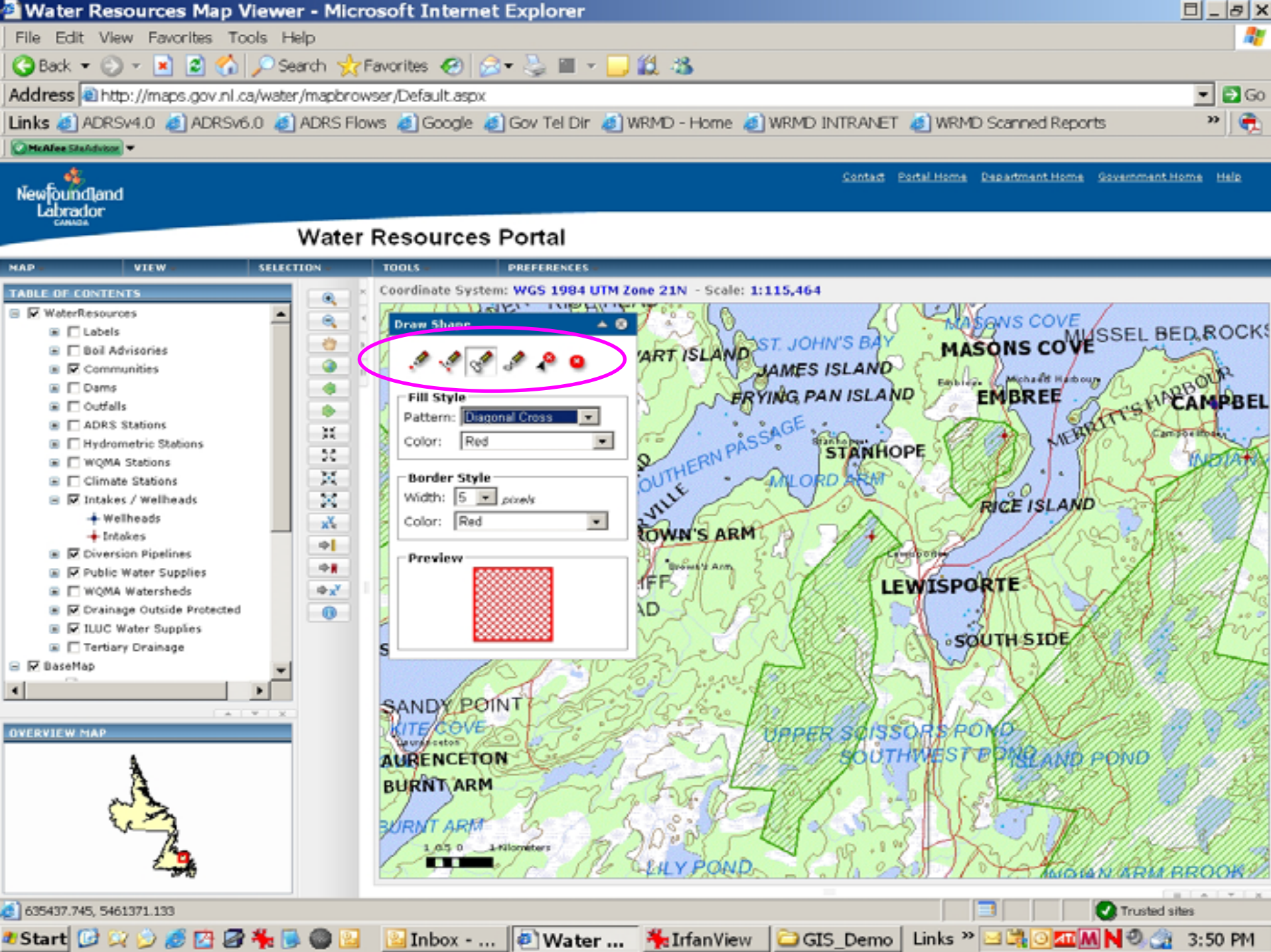
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Drainage Outside Protected
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Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464
Draw Shape
Fill Style
Pattern: Diagonal Cross
Color: Red
Border Style
Width: 5 pixels
Color: Red
Preview
MASONS COVE
MUSSEL BED ROCKS
ST. JOHN'S BAY
JAMES ISLAND
FRYING PAN ISLAND
EMBREE
CAMPBEL
STANHOPE
MILORD ARM
RICE ISLAND
LEWISPORTE
SOUTH SIDE
SANDY POINT
KITE COVE
AURENCETON
BURNT ARM
UPPER SCISSORS POND
SOUTHWEST POND
ISLAND POND
LILY POND
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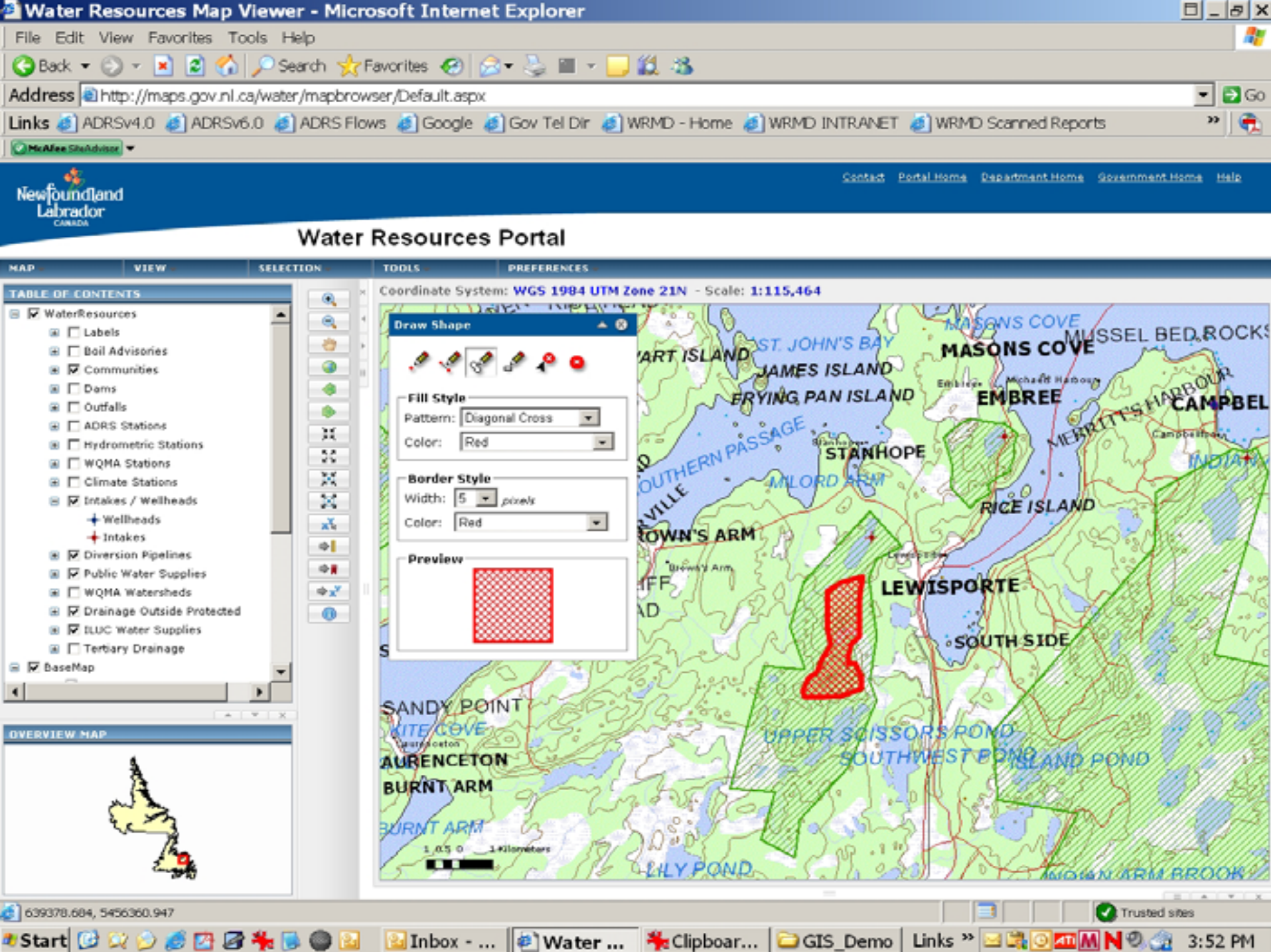
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Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464
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Fill Style
Pattern: Diagonal Cross
Color: Red
Border Style
Width: 5 pixels
Color: Red
Preview
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ST. JOHN'S BAY
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EMBREE
CAMPBELL
STANHOPE
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LILY POND
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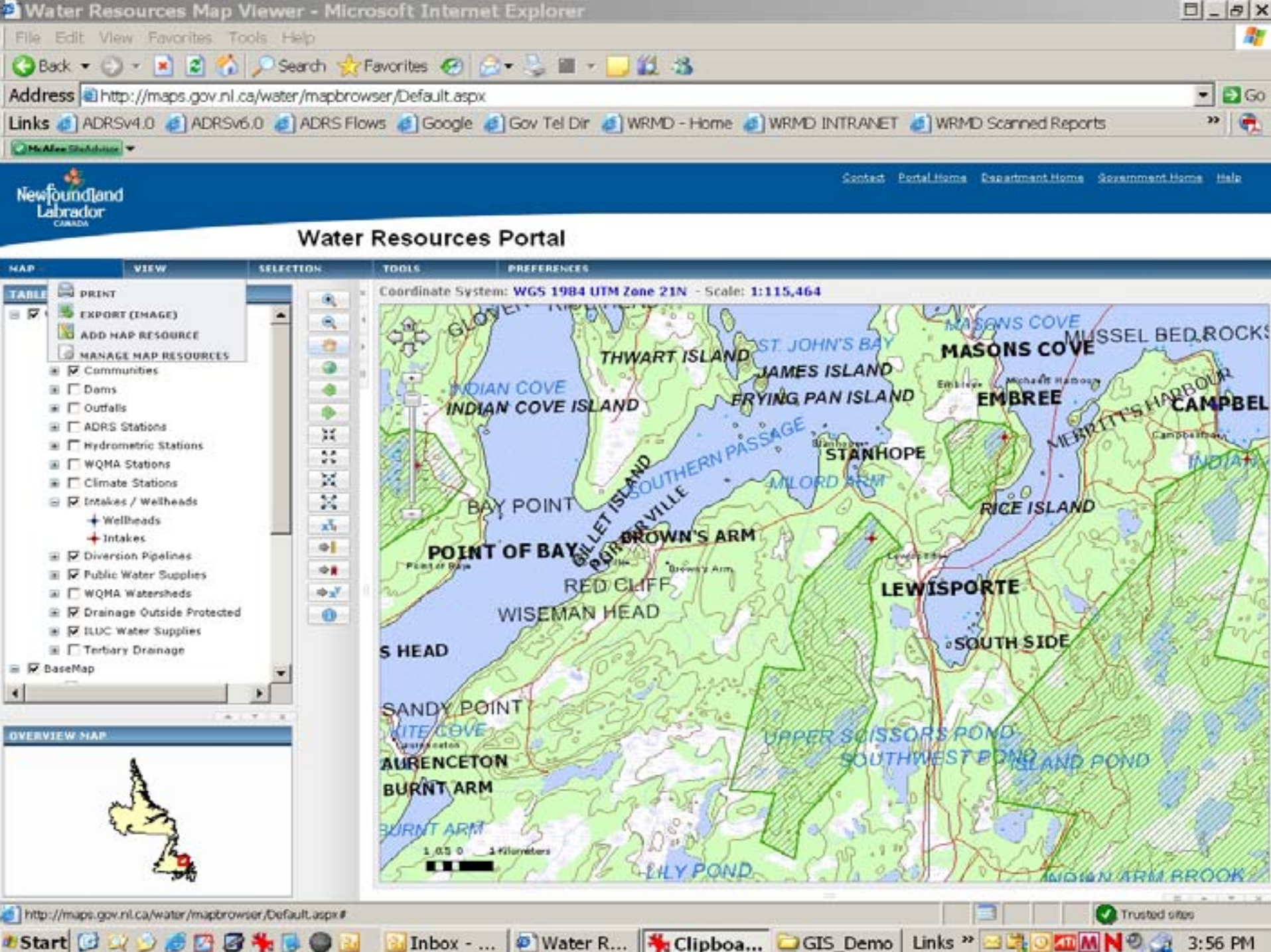
Print a Map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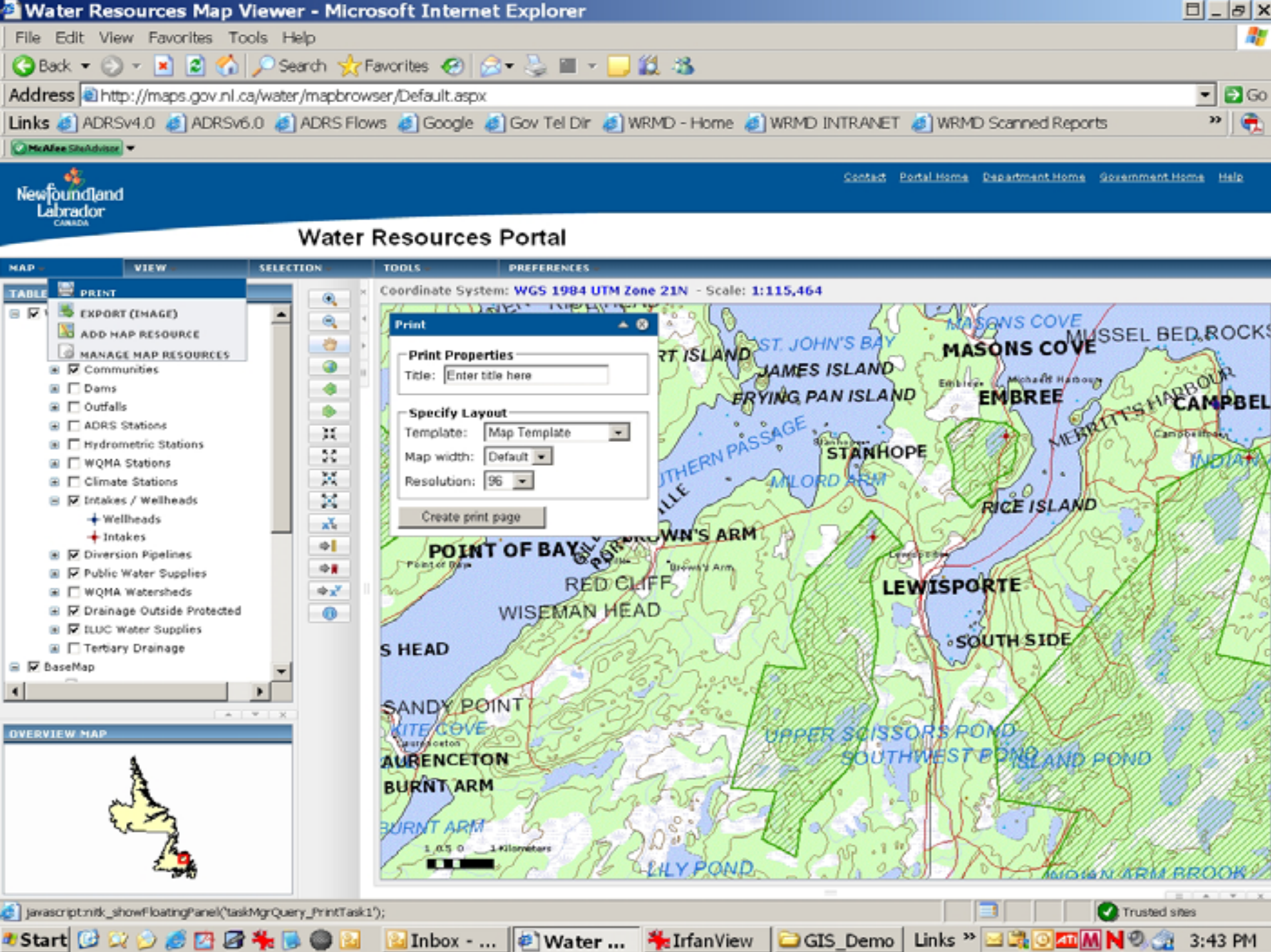
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Intakes
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Public Water Supplies
WQMA Watersheds
Drainage Outside Protected
ILUC Water Supplies
Terbary Drainage
BaseMap
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Coordinate System: WGS 1984 UTM Zone 21N - Scale: 1:115,464
Print
Print Properties
Title: Enter title here
Specify Layout
Template: Map Template
Map width: Default
Resolution: 96
Create print page
MASONS COVE
MUSSEL BED ROCKS
ST. JOHN'S BAY
JAMES ISLAND
FRYING PAN ISLAND
EMBREE
CAMPBELL
MERRITT'S HARBOUR
STANHOPE
MILORD ARM
RICE ISLAND
POINT OF BAY
RED CLIFF
WISEMAN HEAD
LEWISPORTE
SOUTH SIDE
SANDY POINT
KITE COVE
AURENCETON
BURNT ARM
UPPER SCISSORS POND
SOUTHWEST POND
ISLAND POND
LILY POND
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Trusted sites
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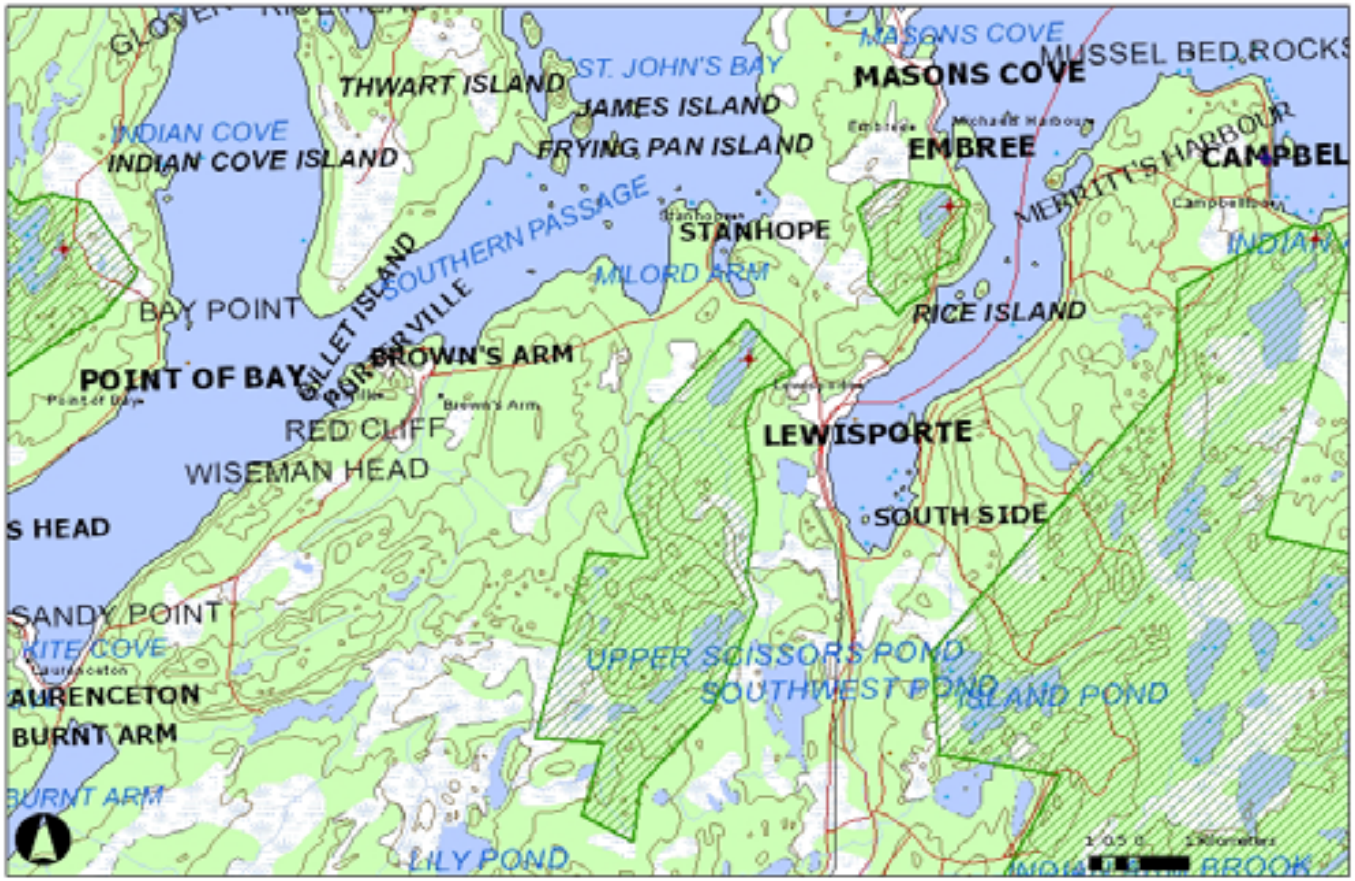

Legend

WaterResources

Communities

Intakes / Wellheads
- Wellheads
- Intakes

Diversion Pipelines

Done
Trusted sites
Start Inbox - ... 2 Inte... IrfanView GIS_Demo Links 3:46 PM

Thank You!

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