

# Washington Location Finder Project

Partners:

Washington Department of Ecology  
Washington Department of Health  
US Environmental Protection Agency

Business Team  
10/18/2007

# Agenda

- Review Of Washington Location Finder Objectives & Scope
- View E-permitting Implementation Of Address Standardization, Map Location Selection, Geoprocessing
- Status
- What's Next?

# Background

**AGENCY USE ONLY**

Agency Reference #: \_\_\_\_\_ Date Received: \_\_\_\_\_  
Calculated by: \_\_\_\_\_ (local govt. or agency)

**JOINT AQUATIC RESOURCES PERMIT APPLICATION FORM (JARPA)**  
(for use in Washington State)  
**PLEASE TYPE OR PRINT IN BLACK INK**

Application for a Fish Habitat Enhancement Project per requirements of RCW 77.55.290. You must submit a copy of this completed JARPA application form and the (Fish Habitat Enhancement JARPA Addition) to your local Government Planning Department and Washington Department of Fish & Wildlife Area Habitat Biologist on the same day.  
**NOTE: LOCAL GOVERNMENTS – You must submit any comments on these projects to WDFW within 15 working days.**

Based on the instructions provided, I am sending copies of this application to the following: (check all that apply)

<input checked="" type="checkbox"/> Local Government for shoreline: <input checked="" type="checkbox"/> Substantial Development <input type="checkbox"/> Conditional Use <input type="checkbox"/> Variance <input type="checkbox"/> Exemption <input type="checkbox"/> Revision
<input type="checkbox"/> Floodplain Management <input type="checkbox"/> Critical Areas Ordinance
<input checked="" type="checkbox"/> Washington Department of Fish and Wildlife for HPA (Submit 3 copies to WDFW Region)
<input checked="" type="checkbox"/> Washington Department of Ecology for 401 Water Quality Certification (to Regional Office-Federal Permit Unit)
<input checked="" type="checkbox"/> Washington Department of Natural Resources for Aquatic Resources Use Authorization Notification
<input checked="" type="checkbox"/> Corps of Engineers for: <input checked="" type="checkbox"/> Section 404 <input checked="" type="checkbox"/> Section 10 permit
<input type="checkbox"/> Coast Guard for General Bridge Act Permit
<input type="checkbox"/> For Department of Transportation projects only. This project will be designed to meet conditions of the most current Ecology/Department of Transportation Water Quality Implementing Agreement

**SECTION A – Use for all permits covered by this application. Be sure to ALSO complete Section C (signature block) for all permit applications.**

**1. APPLICANT**  
Port of Seattle, Attn: George Blomberg (Environmental Services) and Michael McLaughlin (Project Manager)

**MAILING ADDRESS**  
Port of Seattle  
PO Box 1209  
Seattle, WA 98111

WORK PHONE	E-MAIL ADDRESS	HOME PHONE	FAX #
(206) 728-3194	<a href="mailto:blomberg.g@portseattle.org">blomberg.g@portseattle.org</a>		(206) 728-3188
(206) 728-3453	<a href="mailto:mclaughlin.m@portseattle.org">mclaughlin.m@portseattle.org</a>		(206) 728-3280

**If an agent is acting for the applicant during the permit process, complete #2. Be sure agent signs Section C (signature block) for all permit applications.**

**2. AUTHORIZED AGENT**

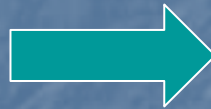
**MAILING ADDRESS**

**WORK PHONE**      **E-MAIL ADDRESS**      **HOME PHONE**      **FAX #**

**3. RELATIONSHIP OF APPLICANT TO PROPERTY:**  OWNER  PURCHASER  LESSEE  OTHER  
The Port of Seattle is the fee owner of the upland area. Washington Department of Natural Resources is owner and manager of adjacent aquatic area and tideland. The Port and WDNR implement a joint management agreement for aquatic area adjacent to Port-owned marine terminal facilities. (Please refer to the attached property description including Legal Description for Terminal 37, 42, 46. A list of King County tax lots comprising the Terminal 37, 42, 46 marine/industrial cargo facility is found below in Section 5).

**4. NAME, ADDRESS, AND PHONE NUMBER OF PROPERTY OWNER, IF OTHER THAN APPLICANT:**  
Not applicable.

JARPA, Revised 7/02 Contact the State of Washington Office of Permit Assistance for latest version, 360/407-7837 or 800/917-0043 1



One-Stop E-Permitting Service - Microsoft Internet Explorer provided by Dept of Ecology

Address: [http://jeppermitting.org/site/akas\\_resourcecenter/9903/default.aspx](http://jeppermitting.org/site/akas_resourcecenter/9903/default.aspx)

Access Washington  
Official State Government Web Site

One-Stop E-Permitting Service

Environmental Permitting Services

Today is Tuesday, April 10, 2007

Sign In | Site Map | Enter search text here

Welcome JARPA Resources Contact Us Transportation Pilots

Text Size: A A A

### JARPA Process

This is your one-stop for information to help you with the Joint Aquatic Resource Permits Application (JARPA) process.

**Introduction**  
Learn what JARPA is and what permits you can use it to apply for.

**Process Overview**  
Important information to consider when filling out your JARPA form and moving through the regulatory process.

**JARPA Form**  
Download an electronic version of the JARPA form with on-line assistance information available on a question-by-question basis. Additionally access other helpful handouts to help you fill out your JARPA.

**Examples of Completed JARPA Forms**  
See samples of completed JARPA forms.

**JARPA Contacts**  
Contact information for the agencies who can help you.

[Feedback](#)

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Joint Aquatic Resources Permit Application (JARPA)

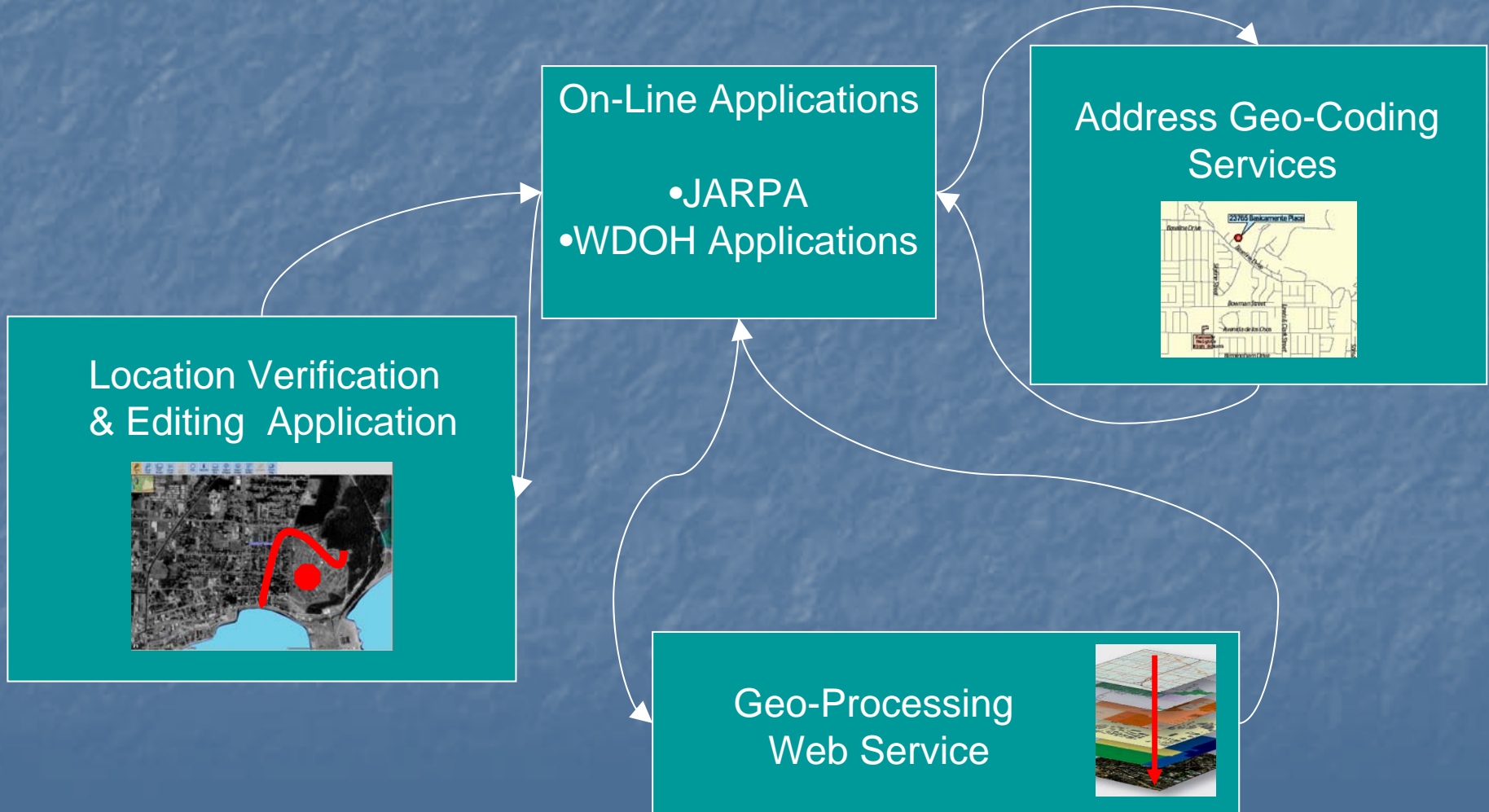
# Project Objectives Review

- Increase The Accuracy Of Data Submitted For Environmental Review
- Make On-line Applications Easier To Use
- Standardize Data Entry Methods For Site Locations

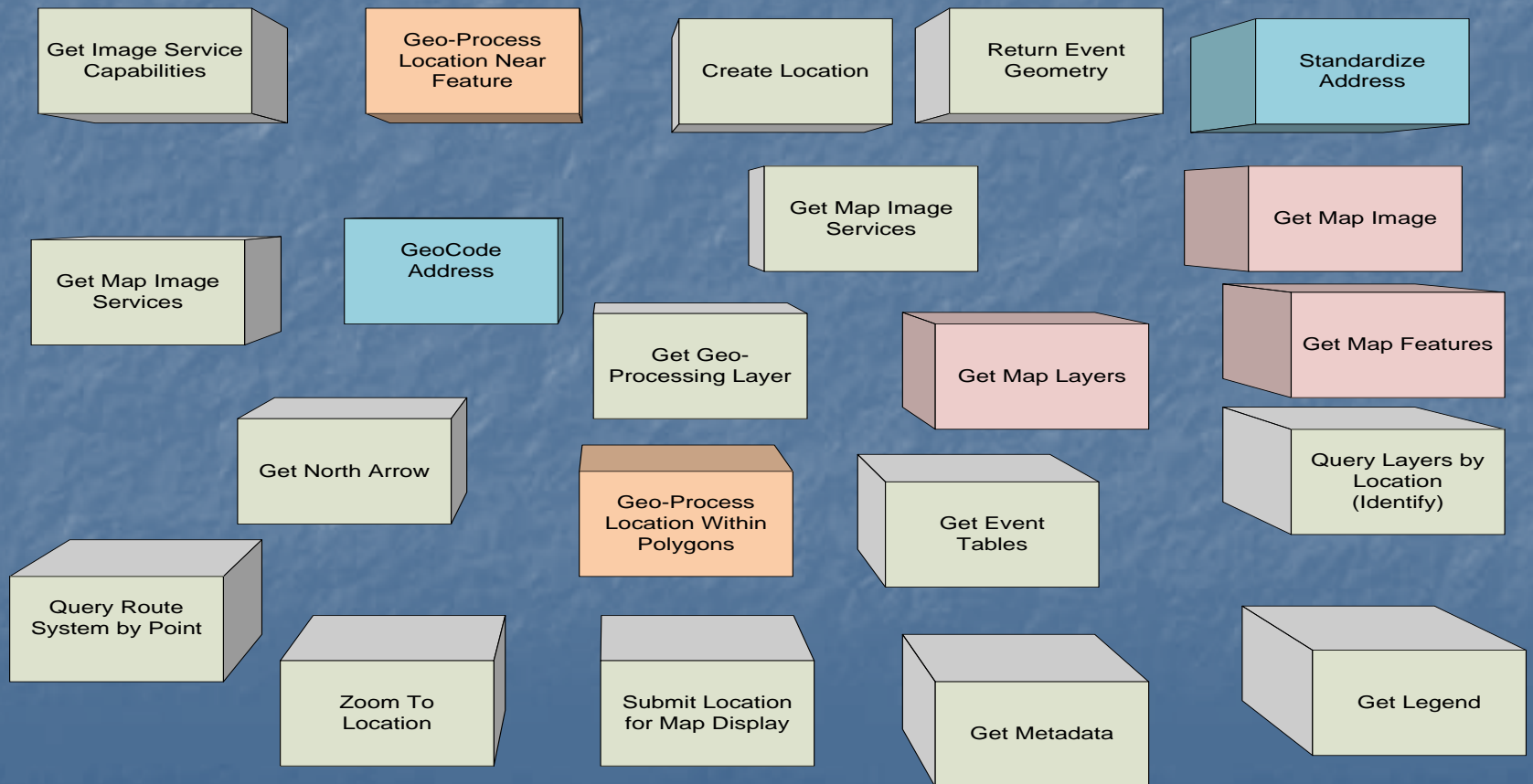
# Project Scope Review

- Develop An Interactive Map-based Location Editor
- Develop Geo-processing Services
- Develop An Address Correction Service & Standardization Service
- Develop An Address Geo-coding Service
- Interface These Services With The E-permitting And Other Applications

# Location Finder Services



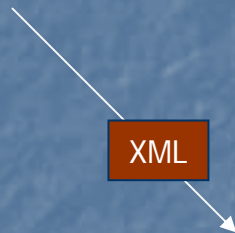
# Develop Elemental GIS Web Services as Building Blocks



# Address Standardization Service

## Input XML:

Address (PO Box, Street, Mailing, Military) required  
Zip (5 digit) required  
City (preferred)  
State (preferred)  
Zip4



## XML containing:

Address  
Zip  
City  
State  
Zip4  
Address prefix direction  
Address house number  
Address street  
Address type  
Address suffix direction  
Address unit  
Address unit description  
Quality  
Deliverable

# Address Geo-Coding Service

## Input XML:

Address Corrected or not (required)  
Zip (required)  
City  
State

XML



```
graph LR; Input[Input XML] -- XML --> Service[Address GeoCode]; Service -- XML --> Output[XML Containing];
```

Address  
GeoCode

GetGeocode

XML

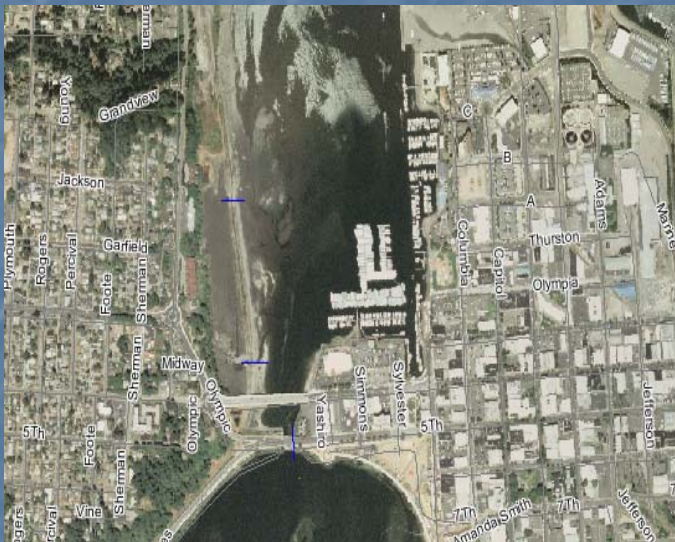
## XML Containing:

Address  
Zip  
Reference Address Used  
Accuracy (Close or Approximate Tolerances)  
Score (Numeric match score)  
Source  
Latitude  
Longitude  
Parcel Number (if a parcel centroid match)

# Map Image Service

(map reference for location capture & location display)

URL with parameters



OGC Web Map Service

Get Capabilities

GetMap

GetFeature Info

URL

XML

XML

Category 5: Polluted Waters/303(d) List

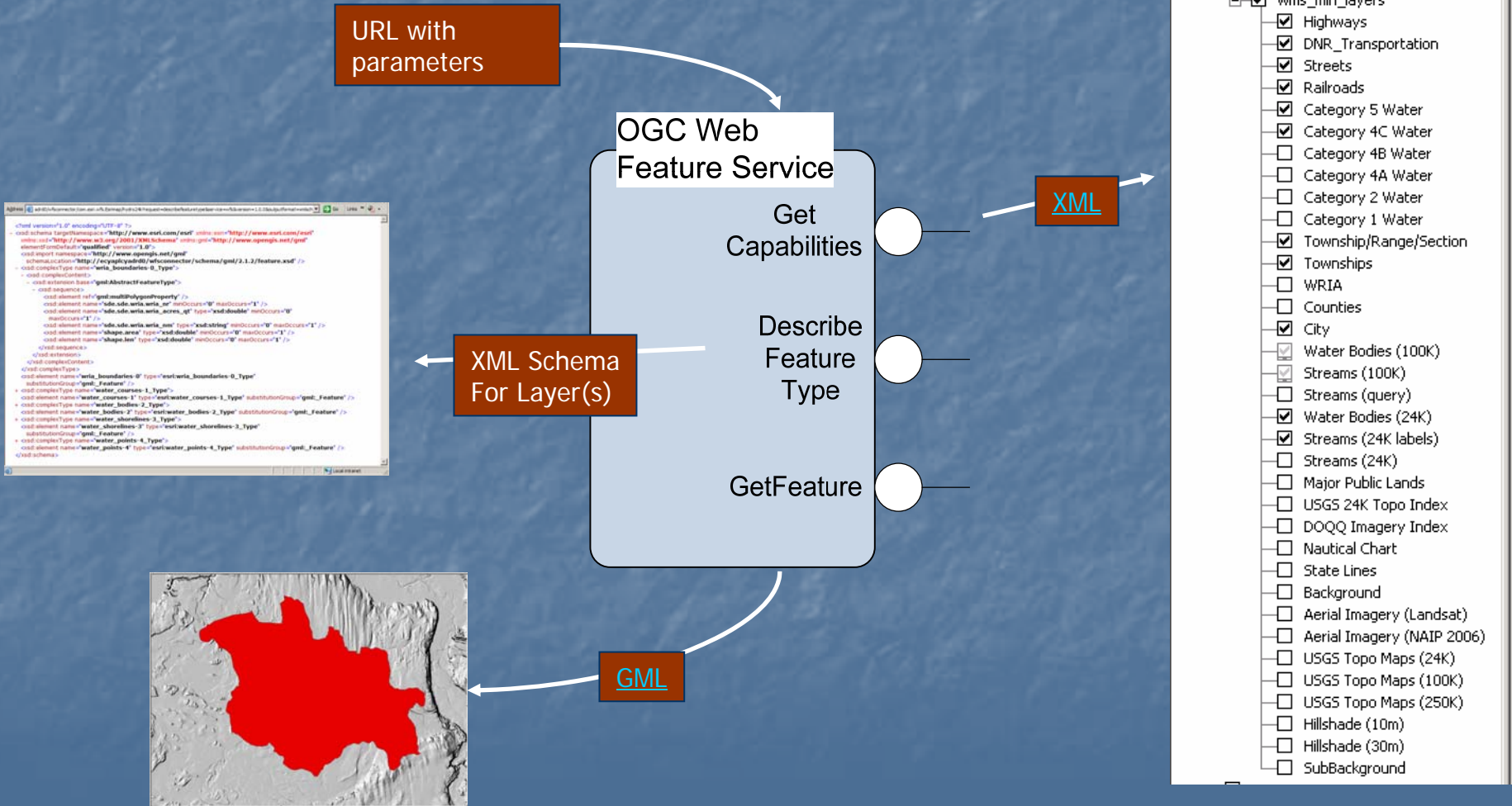
Rec	Listing ID	Name	Parameter	Medium	Listed in 98	Listed in 96	Waterbody ID
1	5862	Puget Sound	Dissolved oxygen	Water	Y	N	47122A9G0

Layers

- Web Map Service wms\_min\_layers
  - wms\_min\_layers
    - Highways
    - DNR\_Transportation
    - Streets
    - Railroads
    - Category 5 Water
    - Category 4C Water
    - Category 4B Water
    - Category 4A Water
    - Category 2 Water
    - Category 1 Water
    - Township/Range/Section
    - Townships
    - WRIA
    - Counties
    - City
    - Water Bodies (100K)
    - Streams (100K)
    - Streams (query)
    - Water Bodies (24K)
    - Streams (24K labels)
    - Streams (24K)
    - Major Public Lands
    - USGS 24K Topo Index
    - DOQQ Imagery Index
    - Nautical Chart
    - State Lines
    - Background
    - Aerial Imagery (Landsat)
    - Aerial Imagery (NAIP 2006)
    - USGS Topo Maps (24K)
    - USGS Topo Maps (100K)
    - USGS Topo Maps (250K)
    - Hillshade (10m)
    - Hillshade (30m)
    - SubBackground

# Map Feature Service

(zoom-to, display selected feature location)



# Geo-Processing Service

SOAP Request with  
GML feature  
+ Layer List  
+ Buffer Distance

Ecology  
GeoProcessing  
Service

Return  
Intersected  
Layer  
Info

SOAP  
Response  
XML  
with  
Intersected  
Layer  
attributes  
reported

```
<?xml version="1.0" encoding="UTF-8" ?>
- <GeoprocessingResults>
- <Layer LayerName="City">
- <IntersectedFeature>
  <CITY_NM>Auburn</CITY_NM>
</IntersectedFeature>
</Layer>
- <Layer LayerName="County">
- <IntersectedFeature>
  <COUNTY_NM>King</COUNTY_NM>
</IntersectedFeature>
</Layer>
+ <Layer LayerName="Tribal_Lands">
+ <Layer LayerName="Parcels2006">
+ <Layer LayerName="dnr_arc">
- <Layer LayerName="HUC_6th_field">
- <IntersectedFeature>
  <SUBWAT_NM>LOWER GREEN RIVER</SUBWAT_NM>
  <CATCHMENT>171100130399XX</CATCHMENT>
</IntersectedFeature>
- <IntersectedFeature>
  <SUBWAT_NM>WHITE RIVER/BOISE CREEK</SUBWAT_NM>
  <CATCHMENT>171100140204XX</CATCHMENT>
</IntersectedFeature>
</Layer>
+ <Layer LayerName="sections">
- <Layer LayerName="wq_303d_2004">
- <IntersectedFeature>
  <WB_GNIS_NM />
  <ECOLOGY_ID>LY34GL12.450</ECOLOGY_ID>
</IntersectedFeature>
</Layer>
- <Layer LayerName="WRIA">
- <IntersectedFeature>
  <WRIA_NR>9</WRIA_NR>
</IntersectedFeature>
- <IntersectedFeature>
  <WRIA_NR>10</WRIA_NR>
</IntersectedFeature>
</Layer>
</GeoprocessingResults>
```

# Demo of ePermitting

One-Stop E-Permitting Service - Microsoft Internet Explorer provided by Dept of Ecology

File Edit View Favorites Tools Help

Address [http://qa.epermitting.org/site/alas\\_resourcecenter/welcome/0970/welcome.aspx](http://qa.epermitting.org/site/alas_resourcecenter/welcome/0970/welcome.aspx) Go Links

Access Washington  
Official State Government Web Site

One-Stop E-Permitting Service

Environmental Permitting Services

Today is Monday, October 15, 2007

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[Welcome](#) | [JARPA](#) | [Resources](#) | [Contact Us](#) | [Transportation Pilots](#)

Text Size

## Welcome

### Introduction

In February 2006 Governor Gregoire signed a [Regulatory Improvement Executive Order](#) that said, "Citizens and businesses deserve state agencies that will be innovative and creative in simplifying their procedures for permits, licenses, regulatory compliance and all other business operations".

In response to this Executive Order, the Governor's Office of Regulatory Assistance along with several other state and federal regulatory agencies worked together to create this new one-stop permitting service.

Currently, this site offers information about the [Joint Aquatic Resource Permit Application \(JARPA\) process](#) as well as special services for [Washington State Department of Transportation projects](#), including online application and review. We are working to add other permits to this site and to expand our special services to other applicants.

### Let us know what you think

We want to make this site a valuable resource for everyone who might need an environmental permit. [Send us your suggestions](#) so we can update and add information to the site. If you have a [general comment](#) we want to hear that too.

### Acknowledgements

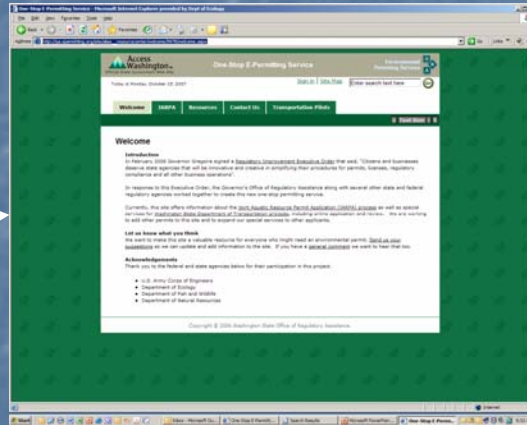
Thank you to the federal and state agencies below for their participation in this project.

- U.S. Army Corps of Engineers
- Department of Ecology
- Department of Fish and Wildlife
- Department of Natural Resources

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Start | [Inbox - Microsoft Ou...](#) | [One-Stop E-Permitt...](#) | [Search Results](#) | [Microsoft PowerPoin...](#) | [One-Stop E-Perml...](#) | 9:52 AM

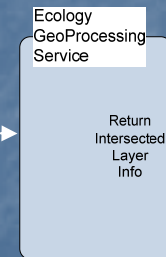
# What Just Happened?



Map Service



Address Standardization



GeoProcessing Service

Get standardized address

Return Intersected Layer Info

# Status:

## Current Prototype Services

- Map Image Service (Ecology)
- Map Feature Service (Limited functions - Ecology)
- Address Standardization Service (WDOH)
- Address Geocoding Service (WDOH hosted at Ecology)
- Geo-Processing Service (Ecology)
- Proof-of-concept ePermitting client application

# What's Next?

Ecology Sample Application - Mozilla Firefox

File Edit View History Bookmarks Tools Help

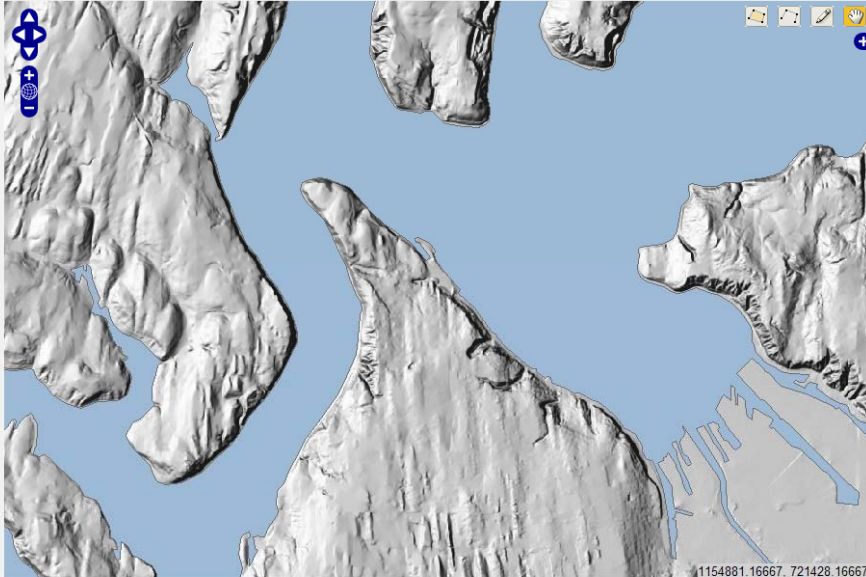
http://ecywkicyadewhim/GetMap/Default.aspx

Mozilla Firefox Start ...

WASHINGTON STATE  
Department of Ecology  
Intranet

WLF\_Demo TEST

WLF\_Demo Home BERS



```
<Metadata>
<CoordinateReferencingSystem>SPSC</Coor
<HorizontalReferenceDatumCode>03</Hori
<HorizontalAccuracyMeasureCode>99</Hori
<HorizontalCollectionMethodCode>13</Hori
<HorizontalReferencePointCode>24</Hori
<SourceMapScale>1:84000</SourceMapScale
</Metadata>
```

1154881.16667, 721428.16667

Get Metadata Get GML Clear Geoprocess

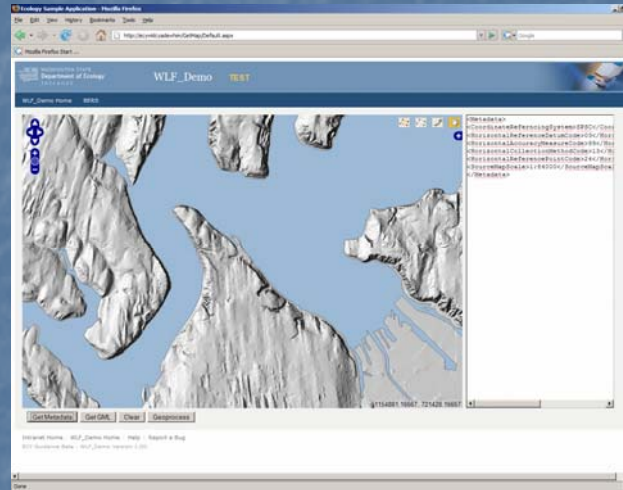
Intranet Home | WLF\_Demo Home | Help | Report a Bug  
ECY Guidance Beta - WLF\_Demo Version 1.00.

Done

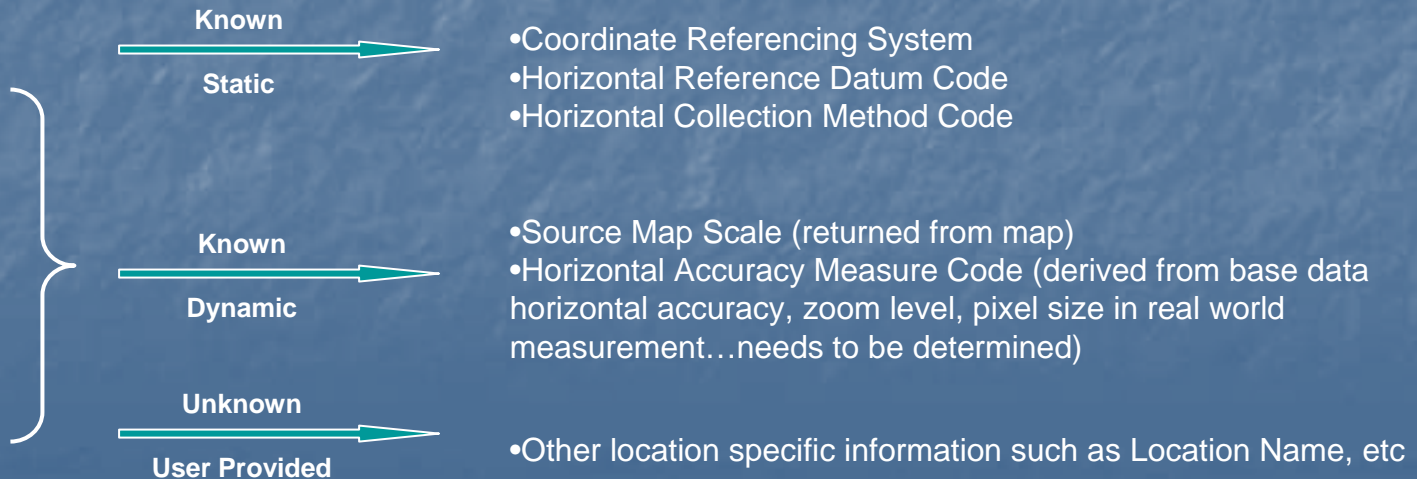
# Next Steps

- ArcGIS Server Extension
- Location Metadata
- Template Web Application
- Deploy Services to Production Servers
- ePermitting updated via JARPA PlainTalk
- Exchange Network Access via Node 2.0

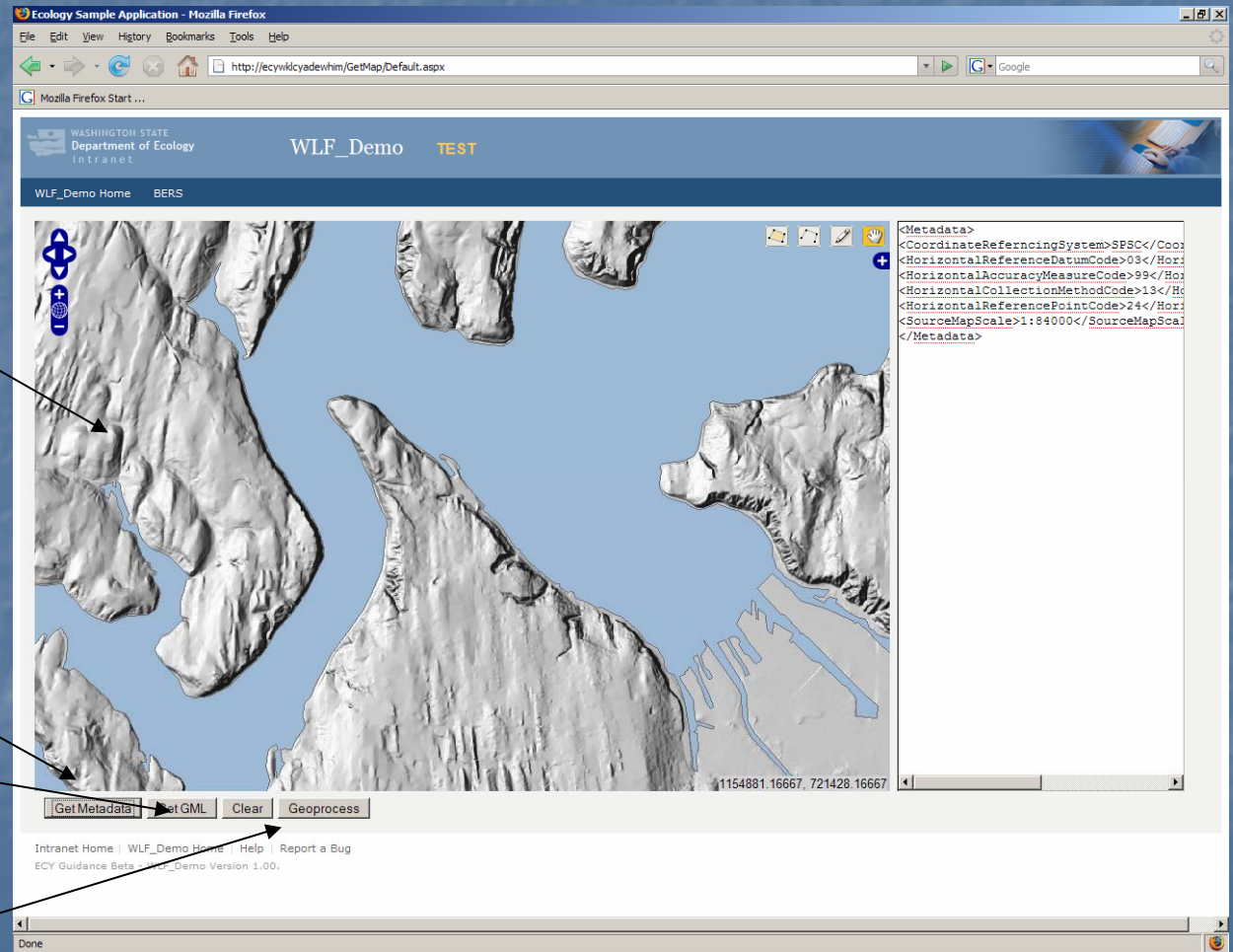
# Location Metadata



Get Metadata



# Template Application



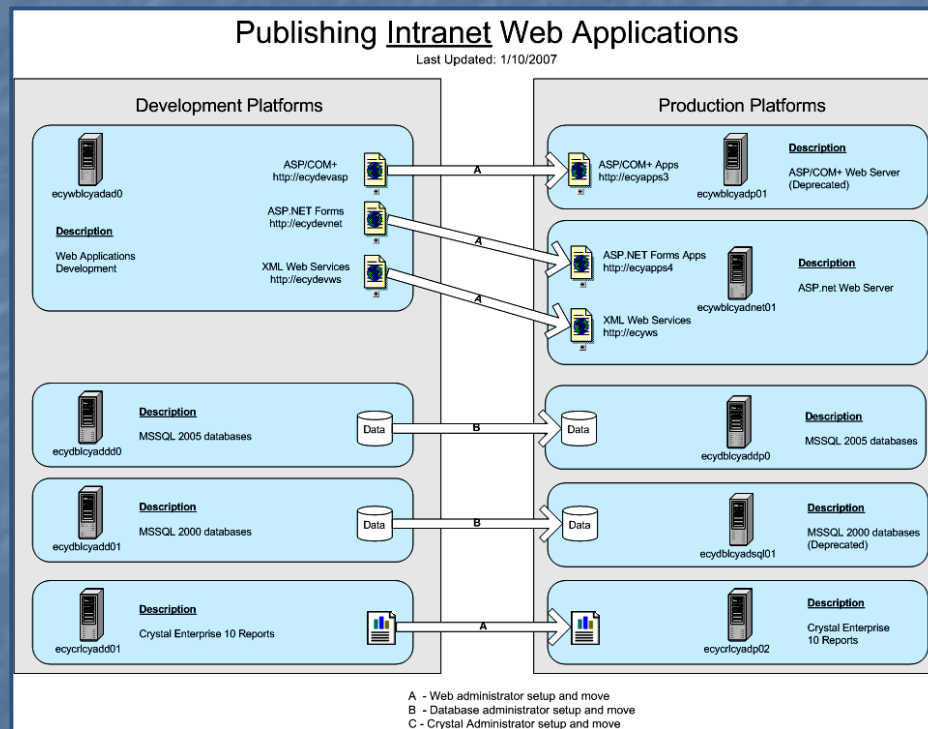
Map Control

Get GML

Get Metadata

Get GeoProcessing Results

# Deploy to Production Servers



# ePermitting PlainTalk

PlainTalk Work  
December 2007

PlainTalk Testing  
January – May 2008

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'One-Stop E-Permitting Service' website. The browser's address bar shows the URL: [http://epermitting.org/site/alias\\_resourcecenter/9983/default.aspx](http://epermitting.org/site/alias_resourcecenter/9983/default.aspx). The website header includes the 'Access Washington' logo, the text 'Official State Government Web Site', and 'Environmental Permitting Services'. A navigation menu contains links for 'Welcome', 'JARPA', 'Resources', 'Contact Us', and 'Transportation Pilots'. The main content area is titled 'JARPA Process' and provides information about the Joint Aquatic Resource Permits Application (JARPA) process. It includes links for 'Introduction', 'Process Overview', 'JARPA Form', 'Examples of Completed JARPA Forms', and 'JARPA Contacts'. A 'Feedback' link is located at the bottom right of the content area. The footer of the page states 'Copyright © 2006 Washington State Office of Regulatory Assistance.' The browser's status bar at the bottom indicates 'Internet'.

# Deploy to Exchange Node 2.0

The Execute messages are defined by the following XML Schema.

```
<element name="Execute">
  <complexType>
    <sequence>
      <element name='securityToken' type='xsd:string' />
      <element name='interfaceName' type='xsd:string' />
      <element name='methodName' type='xsd:string' />
      <element name='parameter' type='typens:ParameterType' minOccurs='0' maxOccurs='unbounded' />
    </sequence>
  </complexType>
</element>
<element name="ExecuteResponse">
  <complexType>
    <sequence>
      <element name='transactionId' type='xsd:string' />
      <element name='status' type='typens:TransactionStatusCode' />
      <element name="results" type='typens:GenericXmlType' />
    </sequence>
  </complexType>
</element>
```

Questions?