



# NJDEP Ambient Water Quality Data Exchange

Status Report

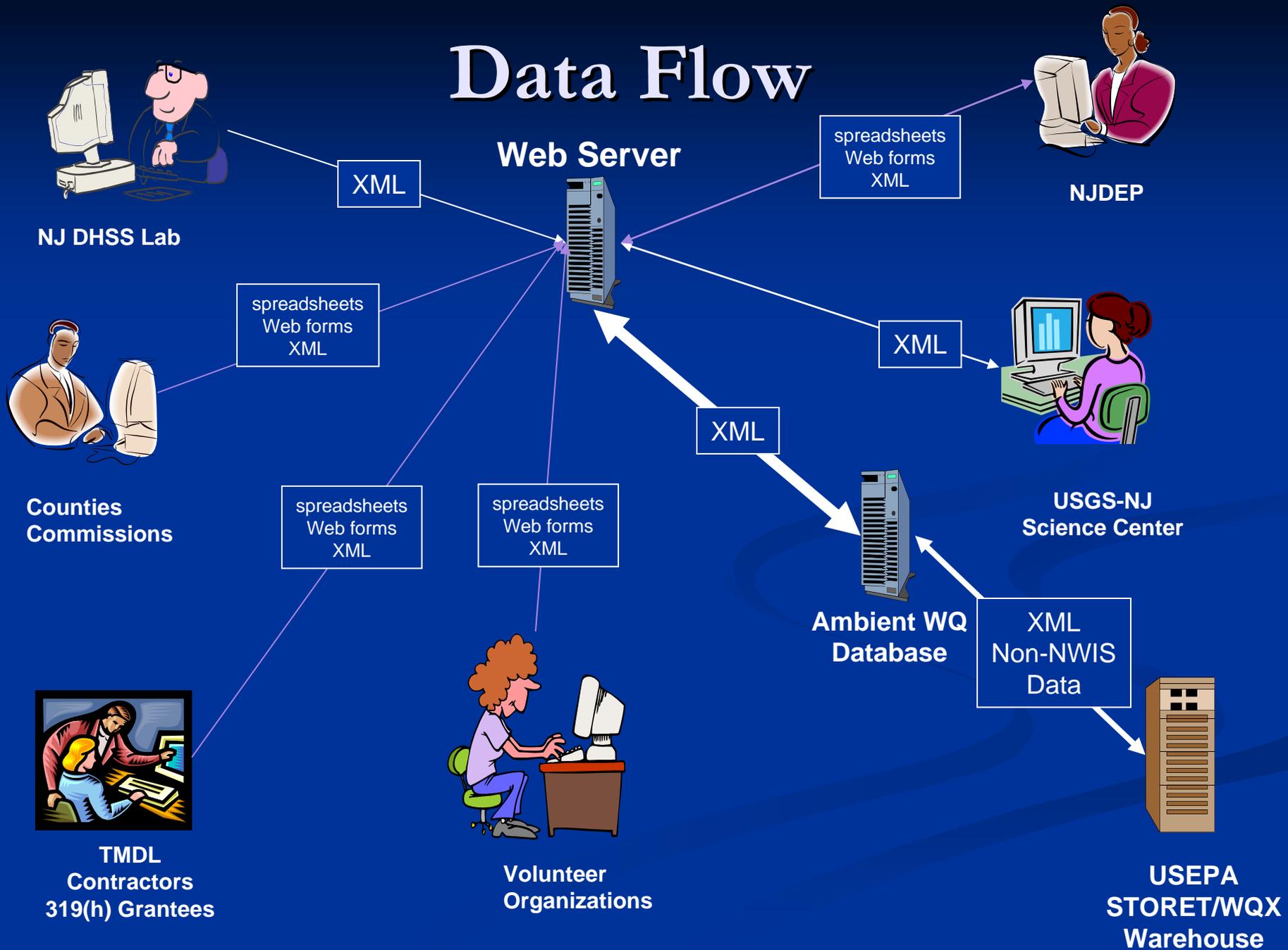
May 31, 2006



Paul Morton, NJDEP/WM&S

Presented at: NJ Water Monitoring  
Council Meeting

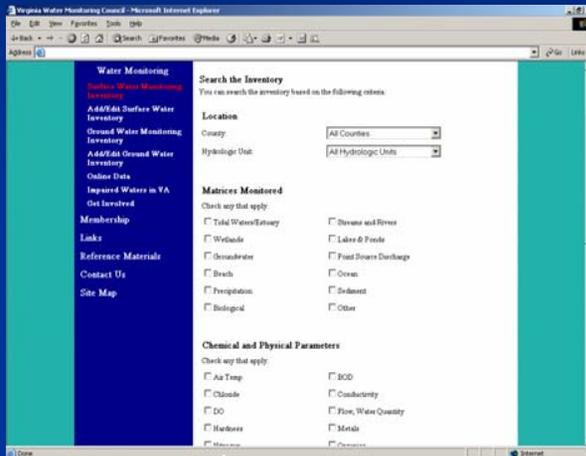
# Data Flow



# Components

Monitoring Inventory

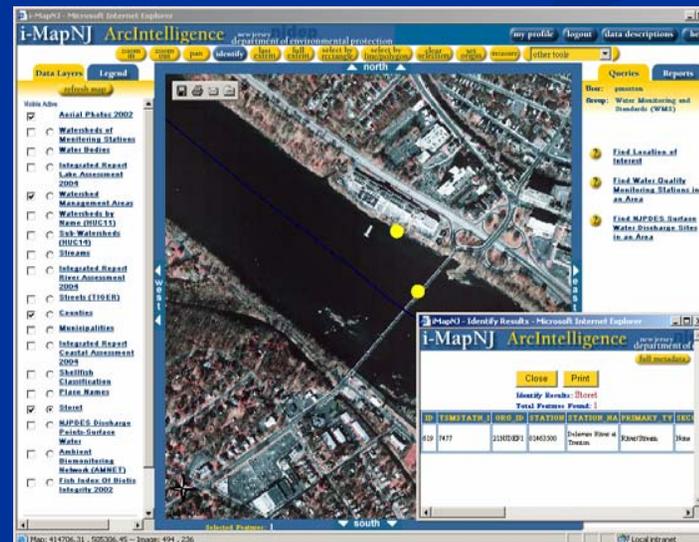
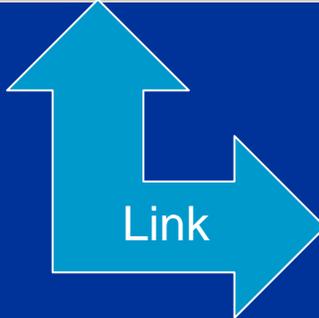
Data Reports



Parameter	Unit	Detect Condition Code	Observations	Start Date	End Date	Minimum	Average	Maximum
Arcene, Dissolved, Water, Actual, ug/l, USEPA, 200 9	ug/l	Detected and Quantified	5	05/09/00	05/11/00	1.100	1.240	1.600
Arcene, Dissolved, Water, Actual, , USEPA, 200 9	ug/l	Not Detected	41	03/10/99	05/18/02	1.000	1.000	1.000
Arcene, Sediment, Actual, , 21NDEP1, 1-4063	ug/l	Not Detected	3	08/14/00	08/13/03	1.000	1.000	1.000
Arcene, Sediment, Actual, , ug/l, 21NDEP1, 1-4063	ug/l	Detected and Quantified	3	08/23/99	08/30/01	2.000	3.667	5.000
Arcene, Total Recoverable, Sediment, Actual, , ug/kg, USEPA, 200 9	ug/kg	Detected and Quantified	2	10/19/00	10/19/00	9560.000	14780.000	20000.000
Arcene, Total Recoverable, Sediment, Actual, , USEPA, 200 9	ug/kg	Not Detected	9	03/09/99	11/02/00	4000.000	4388.889	5000.000
Arcene, Total Recoverable, Water, Actual, , 21NDEP1, 1-4063	ug/l	Not Detected	2	11/06/97	04/21/98	0.500	0.500	0.500
Arcene, Total Recoverable, Water, Actual, , ug/l, USEPA, 200 9	ug/l	Detected and Quantified	8	05/09/00	05/18/02	1.000	2.175	6.800
Arcene, Total Recoverable, Water, Actual, , USEPA, 200 9	ug/l	Not Detected	33	03/10/99	05/10/02	1.000	1.000	1.000
Arcene, Water, Actual, , 21NDEP1, 1-4063	ug/l	Not Detected	23	12/02/98	09/10/04	1.000	2.043	3.000
Arcene, Water, Actual, , ug/l, 21NDEP1, 1-4063	ug/l	Detected and Quantified	14	08/05/99	08/02/04	1.000	1.357	2.000



Web-based Maps



# Status of NJDEP Data Exchanges

- Ambient Water Quality
  - Identified potential participants
  - Submitted financial/legal docs for approval
  - Commented on draft Scope of Work
- Volunteer Monitoring
  - Completed design of system
  - Working on reports and GIS interface
  - Testing: summer/fall 2006
  - Production: fall/winter 2006



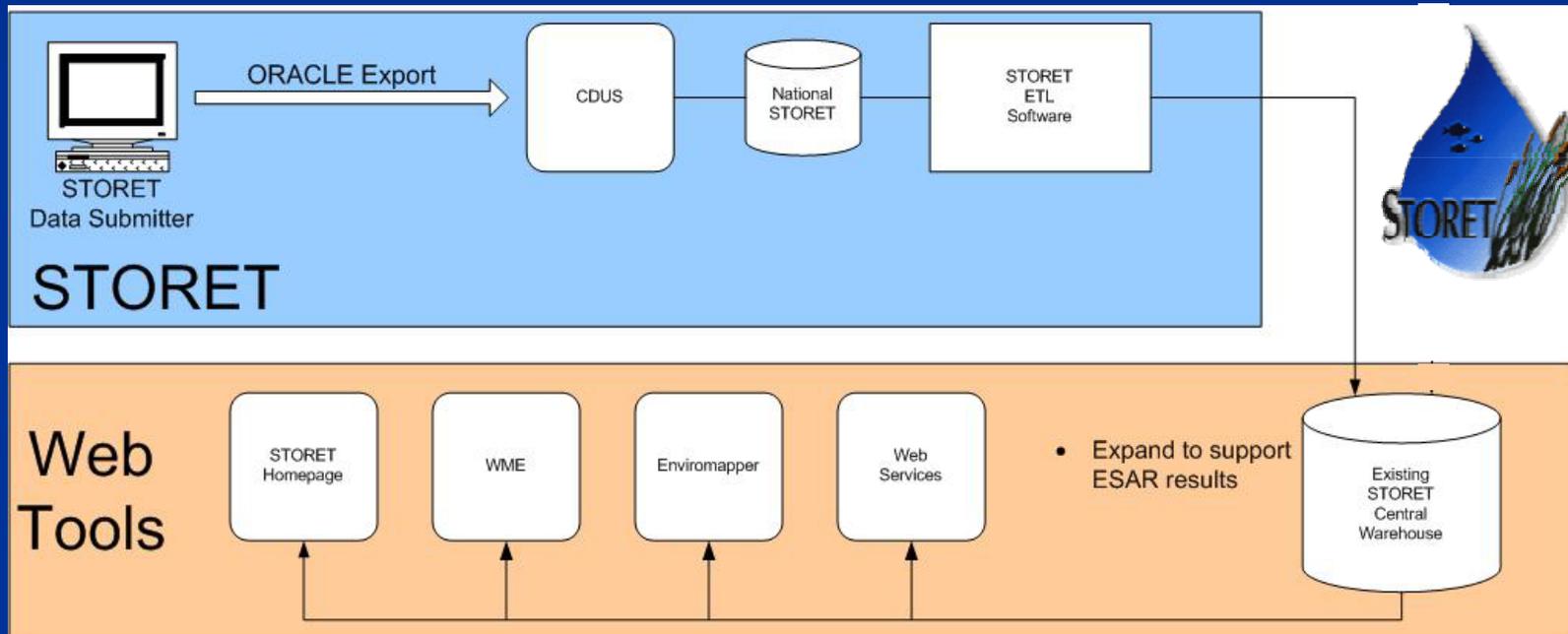


# STORET Data Sharing Model “Evolving”



- Current Approach: EPA distributed database with data entry/reporting tools.
- Required users to run Oracle database software
- Organizations that couldn't/wouldn't run Oracle couldn't share data with EPA
- Very resource intensive to operate, support and improve
- EPA will continue this approach through September 2009

# Current STORET Data Flow



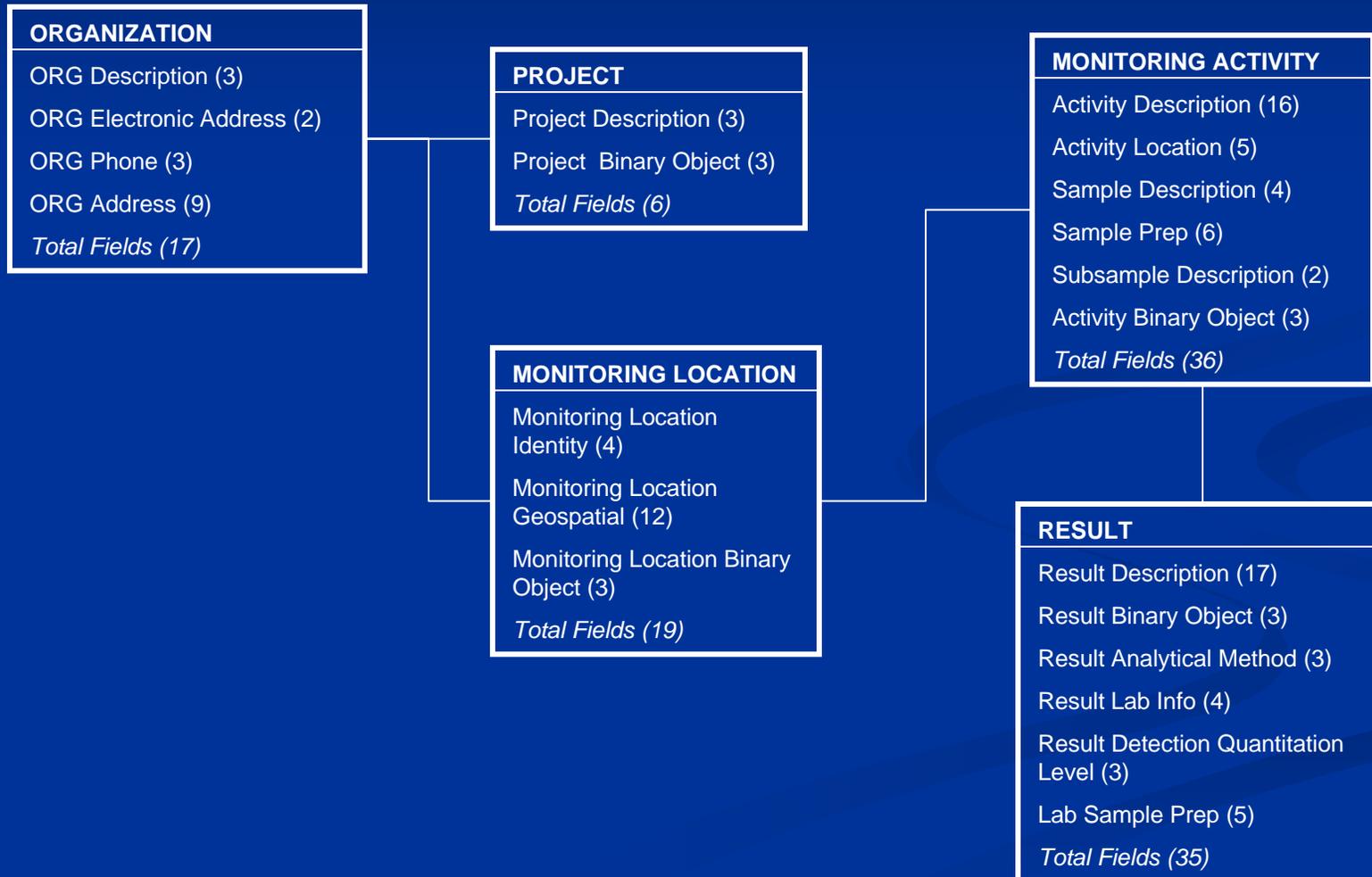
# Water Quality Exchange - WQX

- Future data flow to facilitate data exchange
- No local copies of STORET needed!
- Uses EPA's Environmental Sampling, Analysis, and Results (ESAR) standard, (consistent names and definitions to common data elements used by EPA)
- Standard data formats using Extensible Markup Language (XML)
- XML schemas (groups of data elements) for Chemical/Physical and Biological/Habitat data
- EPA is working towards developing the WQX schema so that multiple data partners can publish to it (e.g. USGS, Pacific Northwest Exchange)

# WQX - Continued

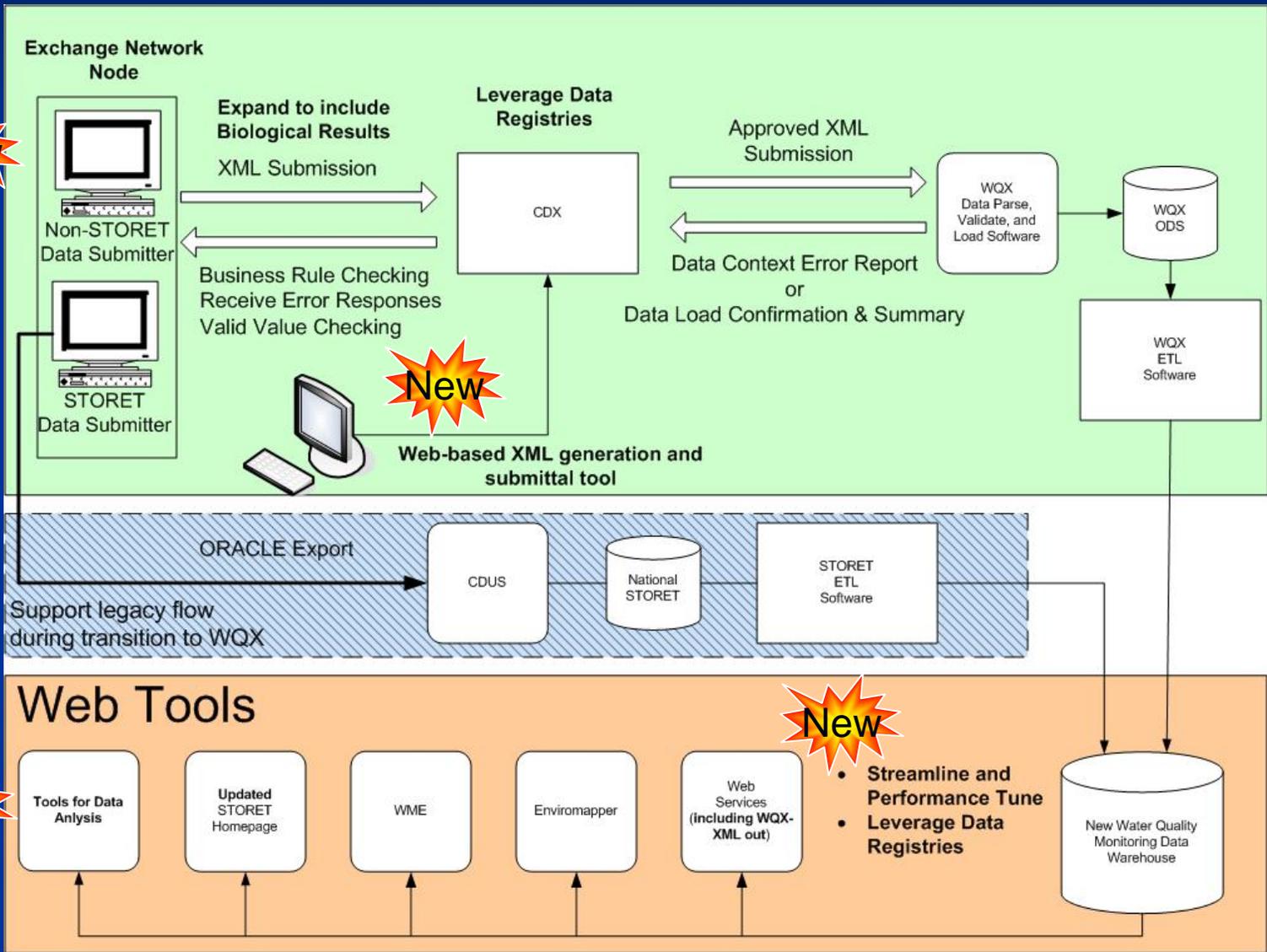
- New Web based XML generation and submission tools (works with your text files, based on Web-SIM)
- Data submitted and validated through EPA's Central Data Exchange (CDX)
- Central Data Warehouse will remain and have new/enhanced reports
- New tools for data analysis
- Web Services for data retrieval of all STORET and WQX data WQX-XML out

# WQX Data Categories



# New STORET Data Exchange

**New**



**New**

**New**

# WQX Outreach Meetings

- Provide information on WQX
- Get feedback on the WQX Schema
- Discuss transition plans and impacts on the user community
- For current users and non-users of the STORET system

# WQX Outreach Session

## June 7-8, 2006

### EPA Region 3 Headquarters

### 1650 Arch Street, Philadelphia, PA



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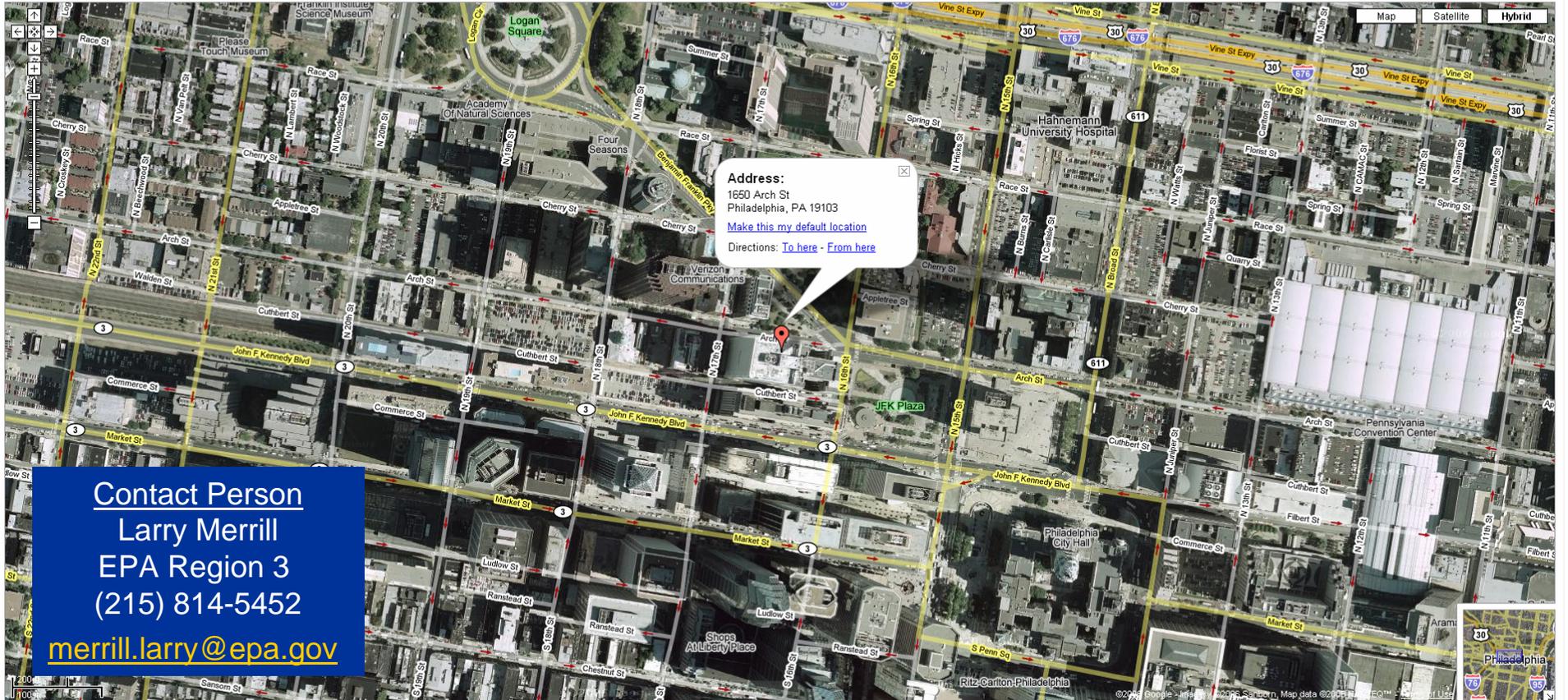
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Contact Person

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# WQX and STORET Schedules

WQX Schedule		STORET Schedule	
WQX Outreach	May – July 2006	SIM 2.0.2 Release	May 2006
Finalize Phys/Chem schema	September 2006		
Phys/Chem WQX in production	January 2007		
Begin Bio/Habitat WQX pilot	Late 2006/Early 2007		
Finalize WQX Bio/Habitat Schema	December 2007		
Bio/Habitat WQX in production	March 2008		
WebTool available for Phys/Chem data	February 2008		
Final Web tool, including Bio/Habitat	July 2008		
		Scale down STORET Support	September 2008
		No longer accept STORET data dumps	September 2009

# Questions/Comments

## ■ NJDEP Ambient Water Quality Data Exchange

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- Paul Morton, NJDEP Bureau of Freshwater & Biological Monitoring
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## ■ NJDEP Volunteer Monitoring Data Exchange

- Peter Tenebruso, NJDEP Office of Information Resource Management
  - (609) 292-3211 [pete.tenebruso@dep.state.nj.us](mailto:pete.tenebruso@dep.state.nj.us)
- Danielle Donkersloot, NJDEP Volunteer Monitoring Coordinator
  - (609) 633-9241 [danielle.donkersloot@dep.state.nj.us](mailto:danielle.donkersloot@dep.state.nj.us)

# Questions/Comments

- USEPA WQX and STORET

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- Or Visit: [www.epa.gov/storet](http://www.epa.gov/storet)

- Join the STORET list serve for more information, including monthly conference calls about STORET and WQX:

<http://www.epa.gov/storet/listserv.html>