

# State/EPA Environmental Information Exchange Network

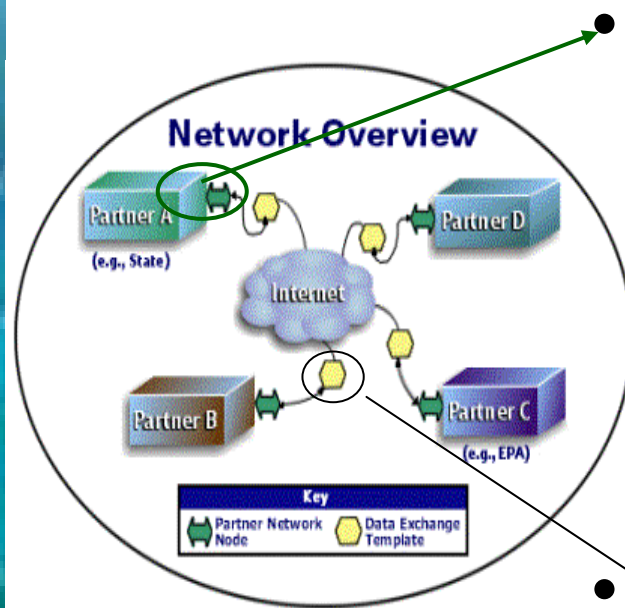
May 2005

*Molly O'Neill*

*State Director, Network Steering Board  
Environmental Council of the States*



# Exchange Network Fundamentals



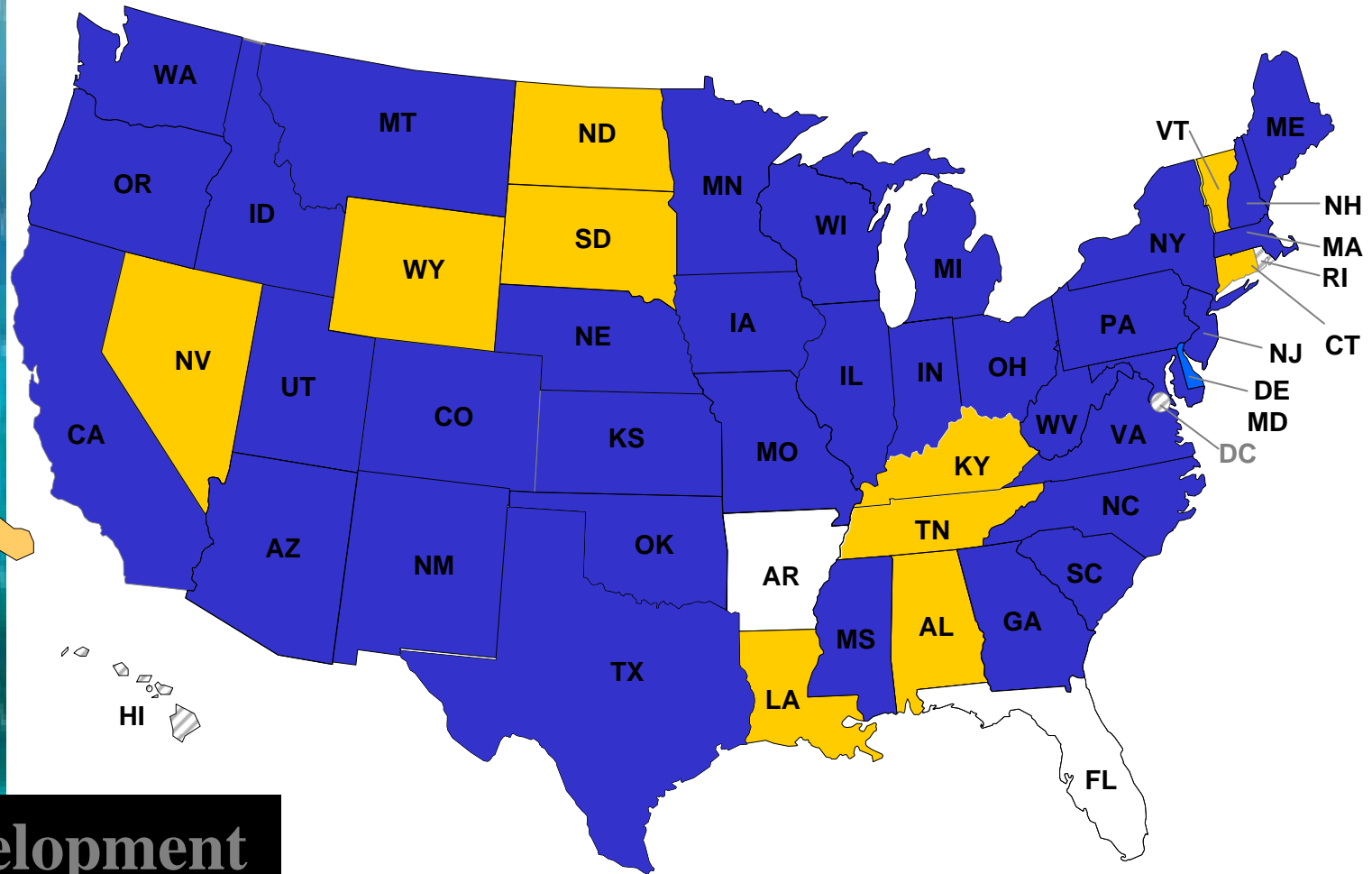
## Nodes

- Hardware and software used to exchange information on the Network
- Use the Internet, a set of protocols, and appropriate security to respond to authorized requests for information

## Data Exchange Templates

- Describe format of data being exchanged
- Consist of XML schema

# Breadth of Participation - States Are Implementing the Network Design



 In Development  
 In Production

# New applications of the Exchange Network...

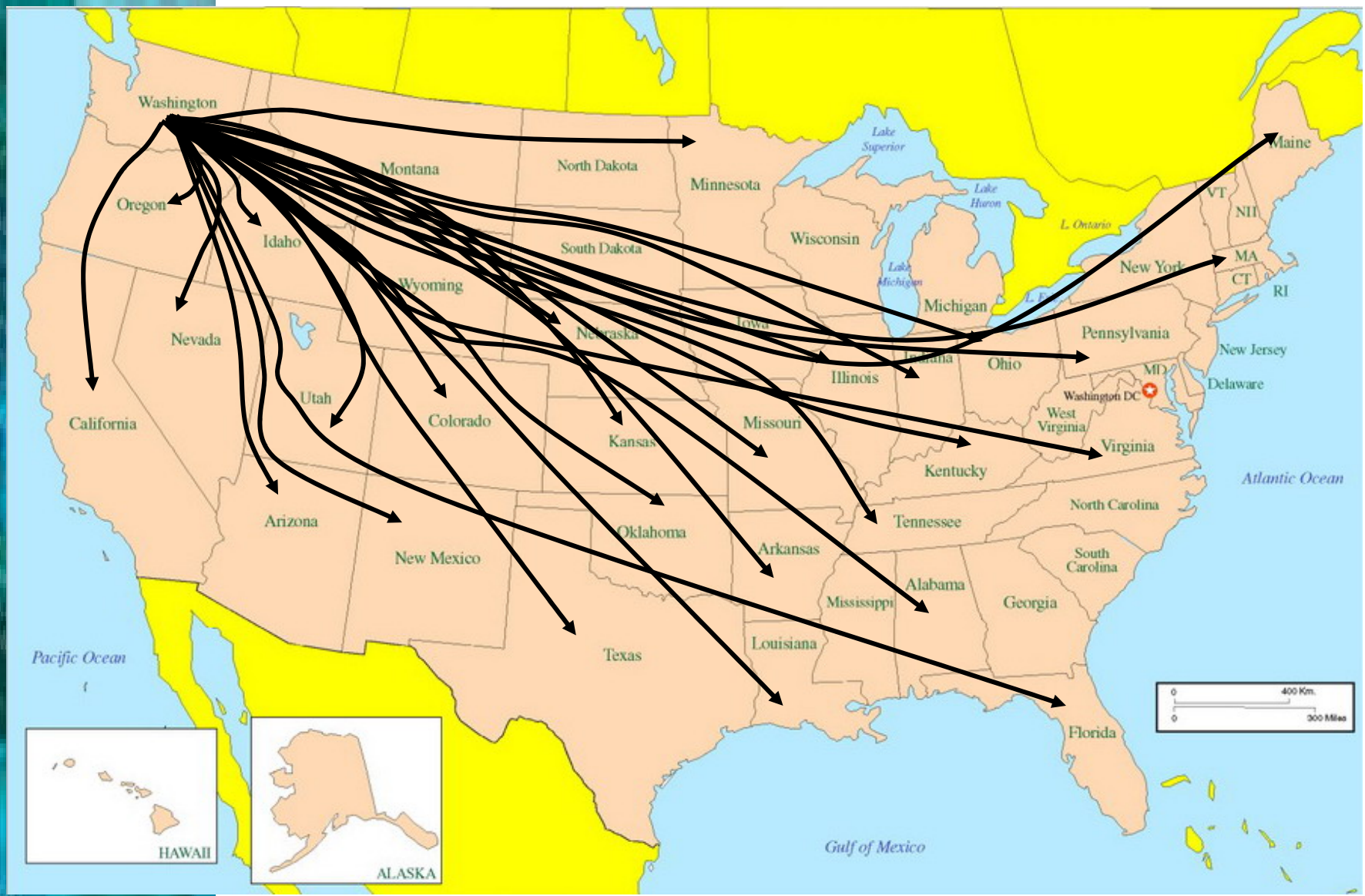
- States are now using the EN to solve business problems. Examples .....
- Hazardous Waste Transportation Tracking across State Boundaries
- Health and Environment Exchanges
- TRI Reporting – Burden Reduction
- Substances and Chemicals Registry

# Interstate Shipments of Hazardous Waste (HW)

- Hazardous Waste generated must be tracked until it reaches its final disposal area at a Treatment, Storage, and Disposal Facility (TSDF). Cradle to Grave Management.
  - Often this isn't the same state it was generated
  - Today, the generator state gets a copy of the original load to be transferred; the final destination state with the TSDF receives a manifest describing that load of hazardous waste
    - Is there really a way to confirm what left one state is received in another?
    - If its done at all, it's a very large resource intensive effort
    - If we aren't validating this, do we really know if any has escaped or dumped into the environment

# Hazardous Waste Movement from WA

79,982,082 pounds 10,141 manifests





# Waste Application Launches a Web Service from the Node

## Waste Shipment Detail - Link to Node

**B. Waste Management Activities**

**B-1. What is the total quantity of this waste stream managed in the reporting year and what is the unit of measure?**  
42437.3700 Pounds

**B-1.a. If the waste stream is measured in gallons, what is its density?**  
0.0000

**B-2. Was the dangerous waste stream managed on-site or off-site?**  
Off

**B-3. If all or part of this dangerous waste stream was managed on-site, how much was managed on-site and how was it managed?**  
0.0000

**B-3.a. For on-site management, indicate whether this waste stream was managed according to the treatment-by-generator guidance.**  
No



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**B-4. Off-site management summary**

i. Designated Facility	ii. Management Code	iii. Quantity	iv. Recycling Percent
WAD991281767	H111	42437.3700	

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**B-5. Shipments sent off-site**

i. Date Shipped	ii. Manifest Document Number	iii. Internal Tracking Code	iv. Designated Facility (TSDR)	v. Quantity Shipped	vi. Management Code
01/20/2003	N0102		WAD991281767 	19763.4700	H111
05/28/2003	N0538		WAD991281767 	28673.9000	H111

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**C. Use the Comments section to provide comments, information or explanations as necessary. In your comments, always provide the reference to the specific question number.**

A-7: UNUSED AND SCRAP MATERIAL FROM AIRPLANE MANUFACTURING;

**Reviewer Comments**

Link icon means Node link



WA – WA  
 WA – OR  
 OR – WA  
 OR - OR

# Node brings back the results...

## WasteX Results - Matching WA Generator and WA TSD

Selected Generator

RCRA Site ID: WAD041337130  
 Facility/Site ID: 2018  
 Boeing Company Auburn  
 700 15TH ST SW  
 AUBURN, WA 98001

**Shipments Received by Burlington Environmental Inc Kent - WAD991281767**

Laurel Muselwhite  
 lmuselwhite@contactpsc.com  
 (425) 204-7063

Total Quantity Received: 1136596.18

**Waste Profile:** B0004BOE-01

**Form Code:** W403

**Description:** (SOW 42) UNCURED PREIMPREGNATED COMPOSITE MATERIAL: EPOXY AND PHENOLIC RESI

**Waste Codes:** WT02 - Toxic dangerous waste, DW

Generator ID	Shipment Date	Mgmt Code	Manifest #	Tracking Code	Transporter ID	Qty. (lbs)
WAD041337130	5/30/2003	H111	N0538	KNT-06113		20
WAD041337130	1/22/2003	H111	N0102	KNT-01023		7200

**Waste Profile:** B01026-04

**Form Code:** W101

**Description:** \*\*TANKER\*\*(SOW 05AB) WASTE PAINT BOOTH WASH WATER: CONTAMINATED WITH CHROMI

**Waste Codes:** D007 - CHROMIUM

Generator ID	Shipment Date	Mgmt Code	Manifest #	Tracking Code	Transporter ID	Qty. (lbs)
WAD041337130	3/27/2003	H077	N0309	KNT-03725		23176.86
WAD041337130	4/22/2003	H077	N0410	KNT-04776		23352
WAD041337130	3/27/2003	H077	N0310	KNT-03758		12977.04
WAD041337130	12/24/2003	H077	N1263	KNT-24511		40032

**Waste Profile:** B01176-00

**Form Code:** W319

**Description:** (SOW 26) DUST AND SLUDGE CONTAINING STEEL OR ALUMINUM: CHLOROALKANES

**Waste Codes:** WP02 - Persistent dangerous wastes/halogenated hydrocarbons, DW

Generator ID	Shipment Date	Mgmt Code	Manifest #	Tracking Code	Transporter ID	Qty. (lbs)
WAD041337130	11/18/2003	H111	N1073	KNT-23413		454.9
WAD041337130	7/15/2003	H111	N0629	KNT-07702		308.58

All shipment data reported received at TSD Facility



# Node can get results from other states...

## WasteX Results - Matching WA TSD and OR Generator

Selected  
TSD

<b>RCRA Site ID:</b> WAD020257945	Burlington Environmental Inc Tacoma 1701 E ALEXANDER AVE TACOMA, WA 98421-4106
<b>Facility/Site ID:</b> 1233	

Shipments  
sent by  
Generator  
Data from  
Oregon Node

<b>Shipments Sent by Stanley Hydraulic Tools - ORD009056904</b>						
Gilbert Voigt gvoigt@stanleyworks.com (503) 652-7649						
Total Quantity Shipped: 1273.95						
<b>Waste Profile:</b> Spent Solvent						
<b>Form Code:</b> W203						
<b>Description:</b> Spent solvent from cleaning parts before machining painting and assembly						
<b>Waste Codes:</b> D001 - F005 -						
<b>TSD ID</b>	<b>Shipment Date</b>	<b>Mgmt Code</b>	<b>Manifest #</b>	<b>Tracking Code</b>	<b>Transporter ID</b>	<b>Qty. (lbs)</b>
WAD020257945	1/24/2003	H050	83081-03		WAR000001743	315.25
<b>Waste Profile:</b> Paint Related Waste						
<b>Form Code:</b> W209						
<b>Description:</b> Oil & water based paint, lacquer thinner & mineral spirits						
<b>Waste Codes:</b> D001 -						
<b>TSD ID</b>	<b>Shipment Date</b>	<b>Mgmt Code</b>	<b>Manifest #</b>	<b>Tracking Code</b>	<b>Transporter ID</b>	<b>Qty. (lbs)</b>
WAD020257945	1/24/2003	H050	83081-03		WAR000001743	458.7
WAD020257945	8/14/2003	H050	92890-03		WAR000001743	500

Shipments  
received  
by TSD

<b>Shipments Received</b>
No shipments received found for facility ORD009056904.

# Prototype: Manifest Discrepancy Report

Generator reported 29,965 lbs

TSD reported 44,690 pounds

	3234A		8/25/2003	8/25/2003	2502	5640
	3254A		9/11/2003	9/11/2003	3367	4780
	3336A		12/2/2003		15463	0
WA9214053465 Total					29965	44690
WAD038529137		9628	1/31/2003	1/31/2003	4770.48	4770.48
	2533B			12/9/2003	0	17514
WAD038529137 Total					4770.48	22284.48
WAD041337130	M0053		1/17/2002	1/17/2002	34235	34194
	M0055		1/16/2002	1/16/2002	20207	20182.8
	M0199		3/7/2002	3/7/2002	28348.25	28314.3
	M0200		3/7/2002	3/7/2002	26686.6	26654.64
	M0201		3/9/2002	3/9/2002	30310.5	30274.2
	M0229		3/17/2002	3/18/2002	27555	27522
	M0231		3/13/2002	3/13/2002	39658.32	41192.93
	M0360		4/30/2002	5/1/2002	18370	18348
	M0373		5/2/2002	5/2/2002	4342	4170
	M0447		6/1/2002	6/3/2002	26177.25	26145.9
	M0519		6/21/2002	6/21/2002	11695.84	11442.48

Difference: 14,725 pounds  
Where is the error? Generator, TSDF, or a little of both.

# Environmental and Health Data Sharing

- Washington Dept of Ecology already “publishing” water quality sampling results on their Node
  - Oregon and Idaho Nodes have access to this data to examine water sheds
- Washington Dept of Health was seeking fish tissue sampling results (part of water quality sampling) to assess whether fish tissue contamination was related to birth defects in certain areas of the state
- Washington DOH was given a copy of the Washington Node “client” and integrated into their application
  - Now accessing real time sampling results

# DOH EIEIO Application – Screen Shot 1

## Query Results – List of Studies

**EIEIO Fish Meal Limits Analysis Application** 06. Laurence Nugent - Dave White's, Just Cruzing (Reels) - 00:47

Projects Edit Admin Help Testing

Data Acquisition Preliminary Analysis Analysis Scenarios Final Analysis QueryTesting

New Query Complete Data Acquisition

**Query Results**

- Walla Walla River Chlorinated Pesticide and PCB TMDL
- Washington State Toxics Monitoring Program 2003
- Verification of 303(d) PCB Listing for Inner Budd Inlet
- Screening Survey of Mercury Levels in Fish Tissue
  - LONG LAKE
  - FAZON LAKE
    - Micropterus salmoides - 2098462
    - Micropterus salmoides - 2088466
    - Micropterus salmoides - 2088467
    - Micropterus salmoides - 2088469
    - Micropterus salmoides - 2088465
    - Micropterus salmoides - 2088470
    - Micropterus salmoides - 2098463
    - Micropterus salmoides - 2088471
    - Micropterus salmoides - 2098464
    - Micropterus salmoides - 2088468
    - 2088538
    - 2098537
  - BANKS LAKE
  - AMERICAN LAKE
  - BLACK LAKE
  - DUCK LAKE

**List of Studies from EIM Query**

Project Name	Start Date	End Date	Study Area Description
Walla Walla River Chlorinated Pesticide and PCB TMDL	5/13/2002	9/3/2003	
Washington State Toxics Monitoring Program 2003	1/1/2003	10/23/2003	
Verification of 303(d) PCB Listing for Inner Budd Inlet	9/6/2002	4/1/2003	
Screening Survey of Mercury Levels in Fish Tissue	7/1/2002	11/26/2002	
Arsenic in fish, sediments, and waters from four lakes, 2002	4/1/2002	5/31/2003	
Spokane River PCB TMDL	2/1/2003	7/14/2004	
Walla Walla Bacteria and pH TMDL	5/1/2002	7/15/2004	
Washington State Toxics Monitoring Program 2002	1/1/2002	8/16/2004	
Inorganic Arsenic Levels in Puget Sound Fish and Shellfish	1/1/2002	12/1/2002	
Verification of 303(d) Listed Sites in NWRD, CRO and ERO	10/9/2003	12/3/2003	
B+L Wetland Landfill	3/1/2002	11/1/2002	

**Selected Studies**

- Verification of 303(d) Listed
  - SHILESHOLE BAY
  - WENATCHEE R @ LV
  - WENATCHEE R NEAF
  - WENATCHEE R NEAF
  - WENATCHEE R @ LE
  - ICICLE CREEK

**Studies to be Included in this Analysis Project**

Project Name	Start Date	End Date	Study Area Description
Walla Walla River Chlorinated Pesticide and PCB TMDL	5/13/2002	9/3/2003	

Work Space Analysis Project Details

# DOH EIEIO Application – Screen Shot 2

## Query Results

### Date Range, Location, Taxon, Analyte

**EIEIO Fish Meal Limits Analysis Application**

Projects Edit Admin Help Testing

Data Acquisition Preliminary Analysis Analysis Scenarios Final Analysis QueryTesting

New Query Complete Data Acquisition

Query Results

- KAH TAI LAGOON
- Walla Walla River Chlorinated Pesticide and PCB TMDL
  - UPPER WALLA WALLA FISH
  - LOWER WALLA WALLA FISH
- Washington State Toxics Monitoring Program 2003
- WA State Toxics Monitoring Program-Exploratory Monitoring
- Stillaguamish River Watershed Fecal Coliform, Dissolved
- Verification of 303(d) PCB Listing for Inner Budd Inlet
- Screening Survey of Mercury Levels in Fish Tissue
- Arsenic in fish, sediments, and waters from four lakes, 2
- Okanogan River DDT/PCB TMDL Assessment
- Spokane River PCB TMDL
- Metals and PCBs in Long Lake Fish
- Dyes Inlet/Port Washington Narrows Shellfish Sampling
- Walla Walla Bacteria and pH TMDL
- Washington State Toxics Monitoring Program 2002
- Mercury Concentrations in Edible Muscle of Lake Whatcom
- Inorganic Arsenic Levels in Puget Sound Fish and Shellfish
- Verification of 303(d) Listed Sites in NWRD, CRO and
- Chambers Creek Mussels 2001 PCB Data
- WA State Toxics Monitoring Program - pre-QAPP Trends
- B+L Wetland Landfill

**Stations in Walla Walla River Chlorinated Pesticide and PCB TMDL**

Station ID	Station Name	Station Location Description
9590911	UPPER WALLA WALLA FISH	AREA OF FISH COLLECTION FROM THE MOUTH OF DRY CREEK (RM 2)
5521911	LOWER WALLA WALLA FISH	AREA OF FISH COLLECTION FROM PIERCE'S RV PARK (RM 9.5) UPSTR

**EIEIO Query Criteria**

Date Range: Tuesday, January 01, 2002 - Thursday, November 18, 2004

Project Name:

Location: Canal Lake

Taxon:
 

- Bridgelip Sucker
- Brown Bullhead
- Brown Trout
- Burbot
- Channel Catfish
- Chinook Salmon
- Chinook Salmon - fall

Analyte:
 

- beta-endosulfan
- Arsenic (inorganic)
- Cadmium
- Mercury (methylmercury)
- Selenium
- Tributyltin
- Aldrin

Calendar: **November, 2004**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

**Today: 11/18/2004**

Buttons: Query Cancel Help

**Selected Studies**

- Verification of 303(d) Listed Sites in NWRD, CRO and

**Studies to be Included in this Analysis Project**

Project Name	Start Date	End Date	Study Area Description
Verification of 303(d) Listed Sites in NWRD, CRO and ERO	10/9/2003	12/3/2003	

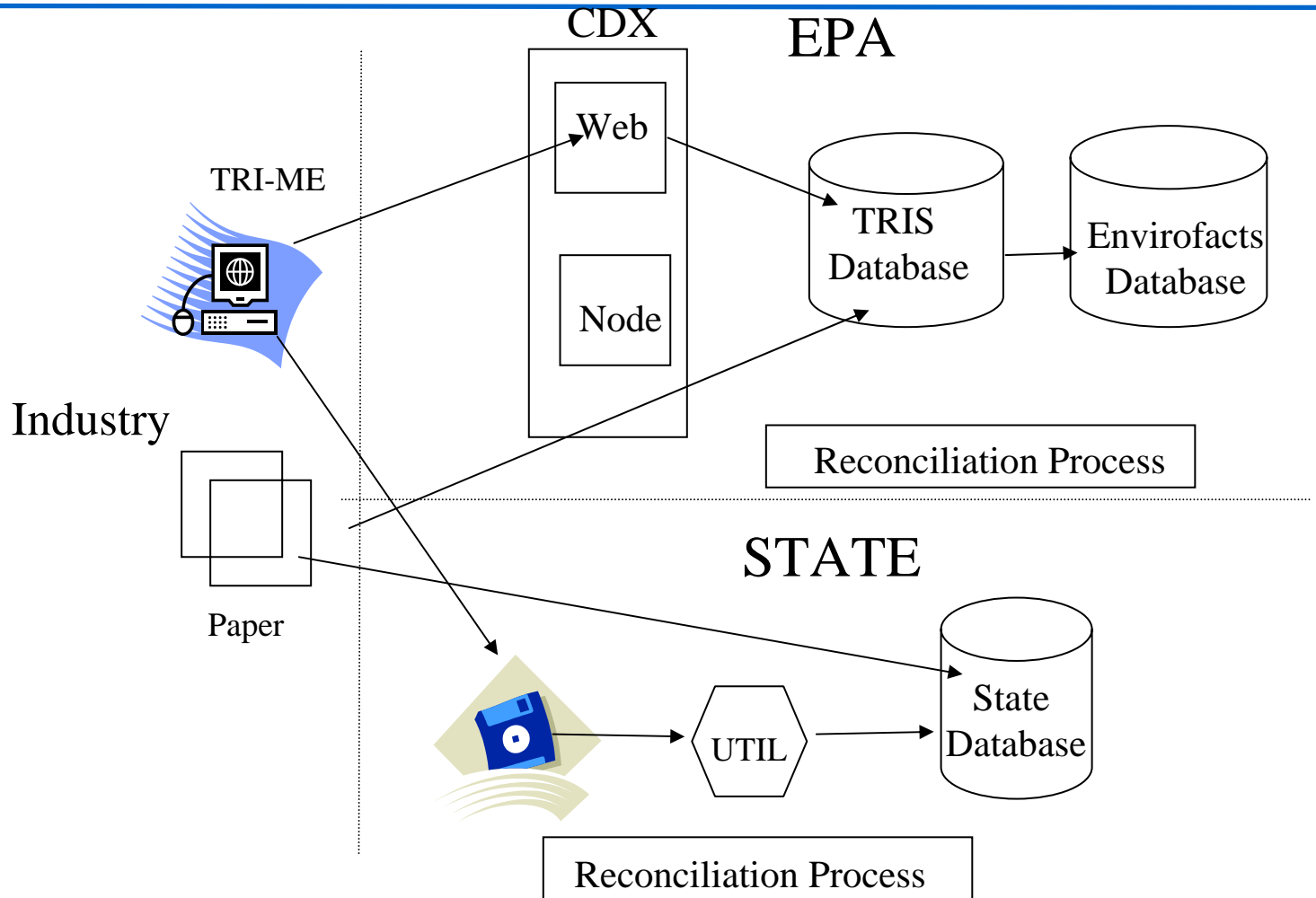
Work Space Analysis Project Details



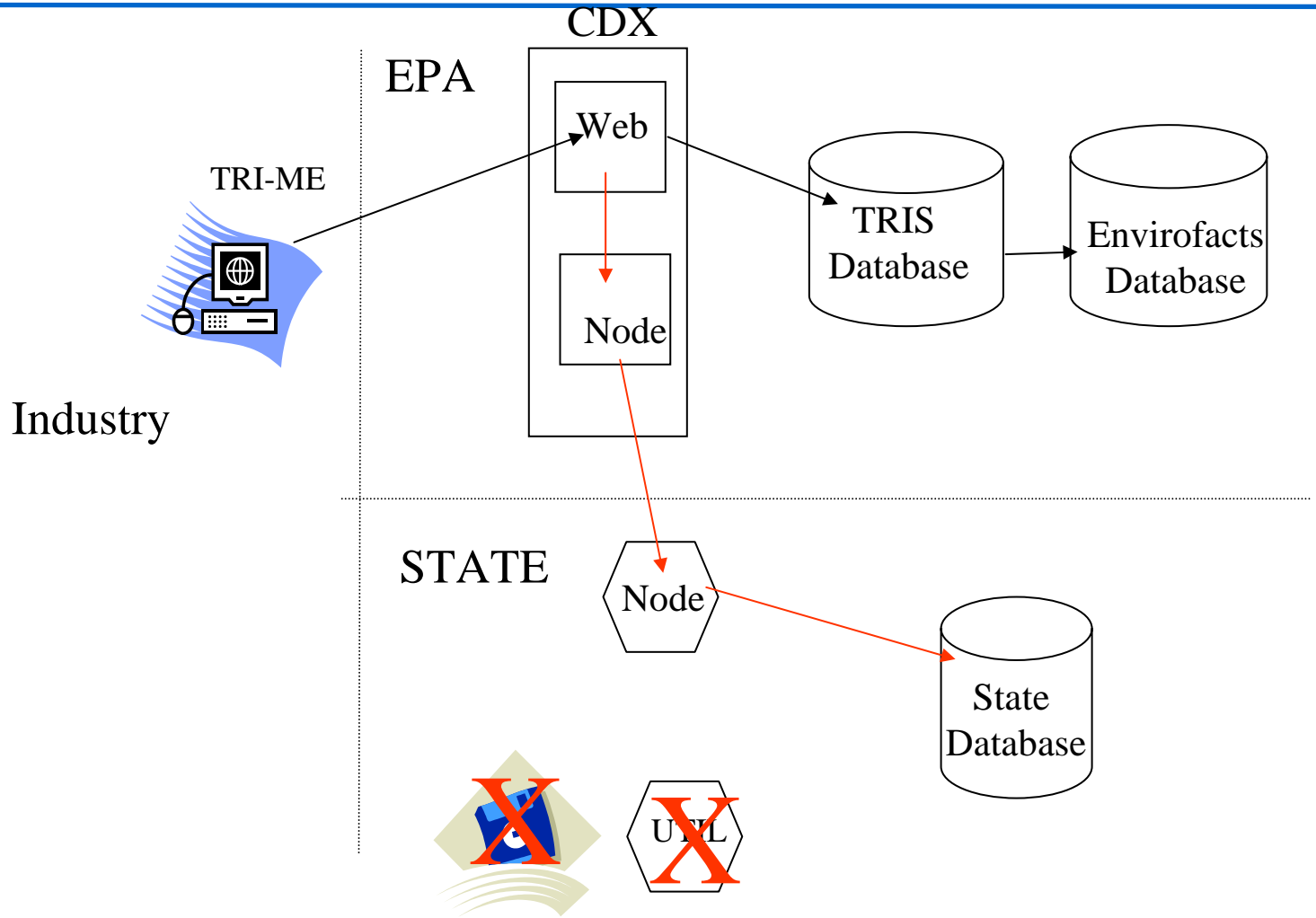
# TRI Reporting – Burden Reduction

- Industry is required by law to report Toxic Release Inventory (TRI) data to the U.S. EPA on an annual basis.
- States also require that industry report this same data to them as well.
  - Some states collect fees on this data – based on the pollutant released and quality
- Therefore, there is a burden on industry to report the same data twice
- Furthermore, this same data is managed twice

# TRI - Normal Current Process



# TRI - Pilot Project Demonstration



# Registry of Substances and Chemicals

- Outbound web service from EPA to States
  - Can be used as central source of official data on chemicals and substances
- Delaware now using a web service and XML to solicit information on chemicals and substances via EPA's official Registry of Substances.
  - Integrating onto the desktops of different program areas as a single updated source of this information

# Bringing the Registry of Substances to States via the EN

EPA: Substance : - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites AutoFill Options

Address [http://oaspub.epa.gov/srs/srs\\_proc\\_qry.navigate?P\\_SUB\\_ID=579987](http://oaspub.epa.gov/srs/srs_proc_qry.navigate?P_SUB_ID=579987) Go Links >>

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## Benzene, 1-(1,1-dimethylethyl)-2-methoxy-4-methyl-, nitrated



**Systematic Source Name:** [CAS-9CI](#)

**CAS Number:** 73507-41-2

**Classification:** Chemical

**Type:** UVCB

**Molecular Formula:** Unspecified

### Other Numbers

None

### Synonyms

Name
Benzene, 1-(1,1-dimethylethyl)-2-methoxy-4-methyl-, nitrated
Musk ambrette paste

### Regulatory Resources

This section provides a list of regulations applicable to this chemical and other regulatory information such as chemical name listed in the regulation, name status, comments, regulation acronym, the regulation identifier, reason for the regulation, effective date, and withdrawn date.

Start | O'Neill\_Managing\_Inform... | Inbox - Microsoft Outlook | EPA: Substance : - Mic... | Internet | 11:41 AM



# Contact



[www.exchangenetwork.net](http://www.exchangenetwork.net)