Retrieving Data from the STORET Warehouse

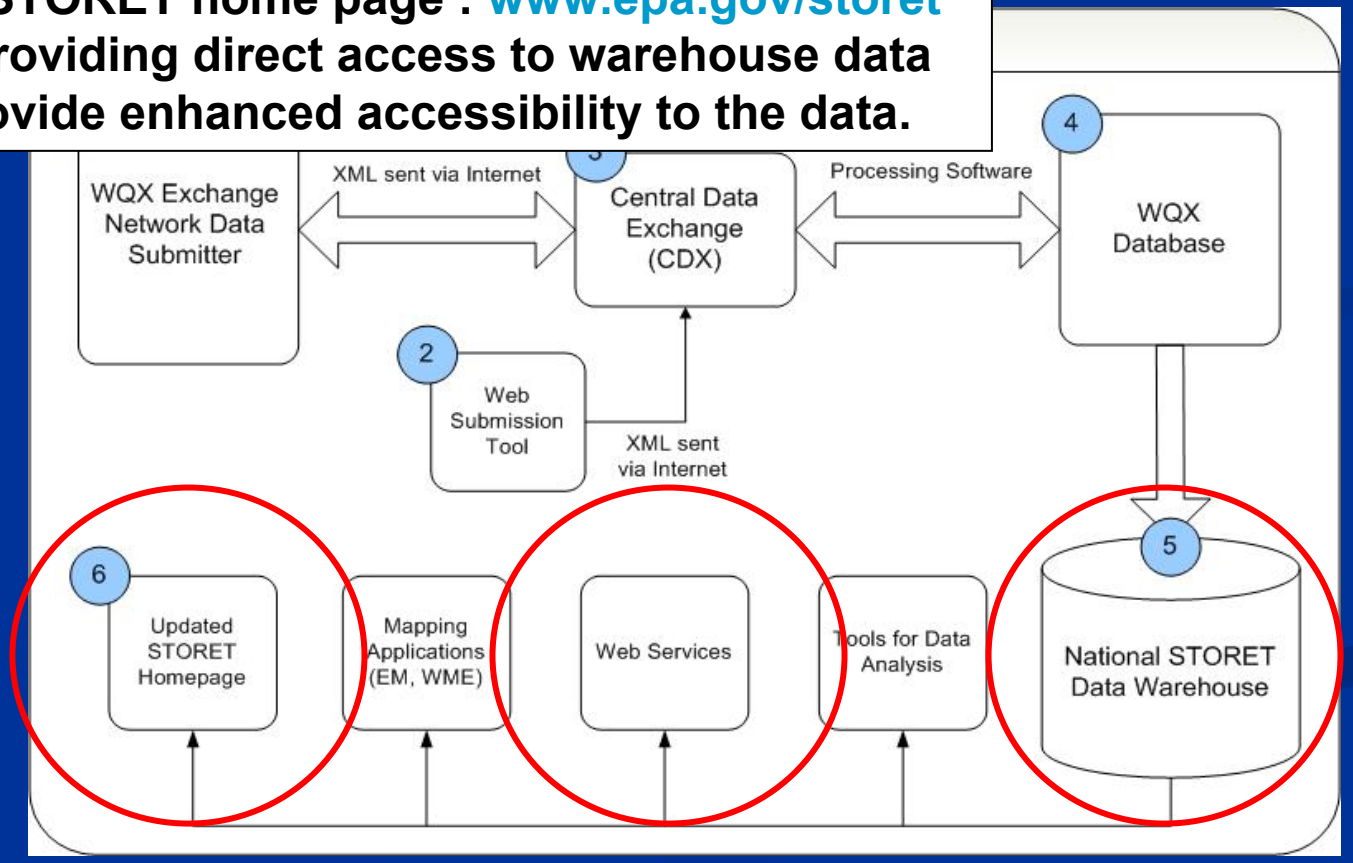
R9 STORET/WQX Workshop for Tribes

November 18, 2008

Accessing Data

The National STORET Data Warehouse serves as the national repository for Modern STORET data as well as WQX data. Users may obtain data from the warehouse through the STORET home page : www.epa.gov/storet

Web services providing direct access to warehouse data will also provide enhanced accessibility to the data.



EPA > STORET > Database Access > STORET Central Warehouse - Windows Internet Explorer

http://www.epa.gov/storet/dw_home.html

File Edit View Favorites Tools Help

EPA > STORET > Database Access > STORET Central...

- About STORET
- Data Owner's Corner
- Updates/Downloads
- Obtaining Water Quality Data
- Useful Internet Links
- Commonly Asked Questions
- Recent Additions

STORET Data Warehouse

Data refreshed as of August 26, 2008

Query Options

STORET Warehouse Watershed Summary

Summary of Results by Watershed

STORET Station Descriptions

Stations by Geographic Location

Stations by Organization and Station ID

STORET Regular Results

(Non-Biological Physical and Chemical Result Data)

Regular Results by Geographic Location

Regular Results by Station

Regular Results by Project

STORET Biological Results

Biological Results by Geographic Location

Biological Results by Station

Biological Results by Project

STORET Habitat Results

Habitat Results by Geographic Location

Habitat Results by Station

Tell Us What You Think!

What's New with the STORET Data Warehouse?
This page offers information about the recent changes made to STORET Warehouse.

How to Query and Download Data
This exercise gives step by step instructions on how to generate, download, export (to Microsoft Excel or Access), and analyze a data query from the STORET Data Warehouse as well as the new Watershed Summary.
* Adobe Acrobat® Reader required.

Make a Map
Create a map of monitoring locations from STORET using either EnviroMapper for Water or Window to My Enviroment.

Data Logger Results
Download a delimited text file of results reported to STORET from Automated Data Loggers. These results, which cannot yet be downloaded via the query options at the left, will be in the form of a self-extracting compressed file (450K) which may be saved on disk and will expand when executed. In its uncompressed form, this file requires 14.8 MB of disk space.

Data Quality Documentation
Select from among available reports which document the standards, methods, practices, and other metadata supplied by data owners to document the quality of the monitoring results found in the National STORET Data Warehouse

Internet

STORET Warehouse Updates

- The National STORET Data Warehouse enhancements for improved data accessibility
  - New Watershed Summary – Available Now
  - New Web Services – Available Now
- Please visit the STORET website for more information : www.epa.gov/storet

Watershed Summary Examples

U.S. ENVIRONMENTAL PROTECTION

STORET

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You are here: EPA Home » Water » Wetland, Oceans, and Watersheds » Monitoring and Assessing Water Quality » STORET » STORET Watershed Station Summary

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STORET Watershed Station Summary: 18010209

This page provides summary information for water quality data that are available within this watershed. You can access the water quality monitoring data on any of the 'Get Details' links. These data are generated from EPA's STORET database.

The data provided on this page were generated using *STORET Web Services*. For more information on how to incorporate these data into your application click here.

For this watershed, the following organizations have reported monitoring data:

CADWR - California Department of Water Resources
CALSWAMP - CA Surface Water Monitoring Program (California)
EMAP-CS - Environmental Monitoring and Assessment Program
NARS - EPA National Aquatic Resource Survey Data

Organization ID: CADWR - California Department of Water Resources

Station ID	Station Name/Summary Information	Period of Record
1595.00	F3100200 (Get Details) 55-Physical.	06/09/1993-06/16/1994
1596.00	F3100300 (Get Details) 43-Physical.	06/09/1993-06/16/1994
1597.00	F3100500 (Get Details) 48-Physical.	06/09/1993-06/16/1994

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Results by Watershed

Drainage Basin/HUC

18010212 - South Fork Trinity. *

Search By

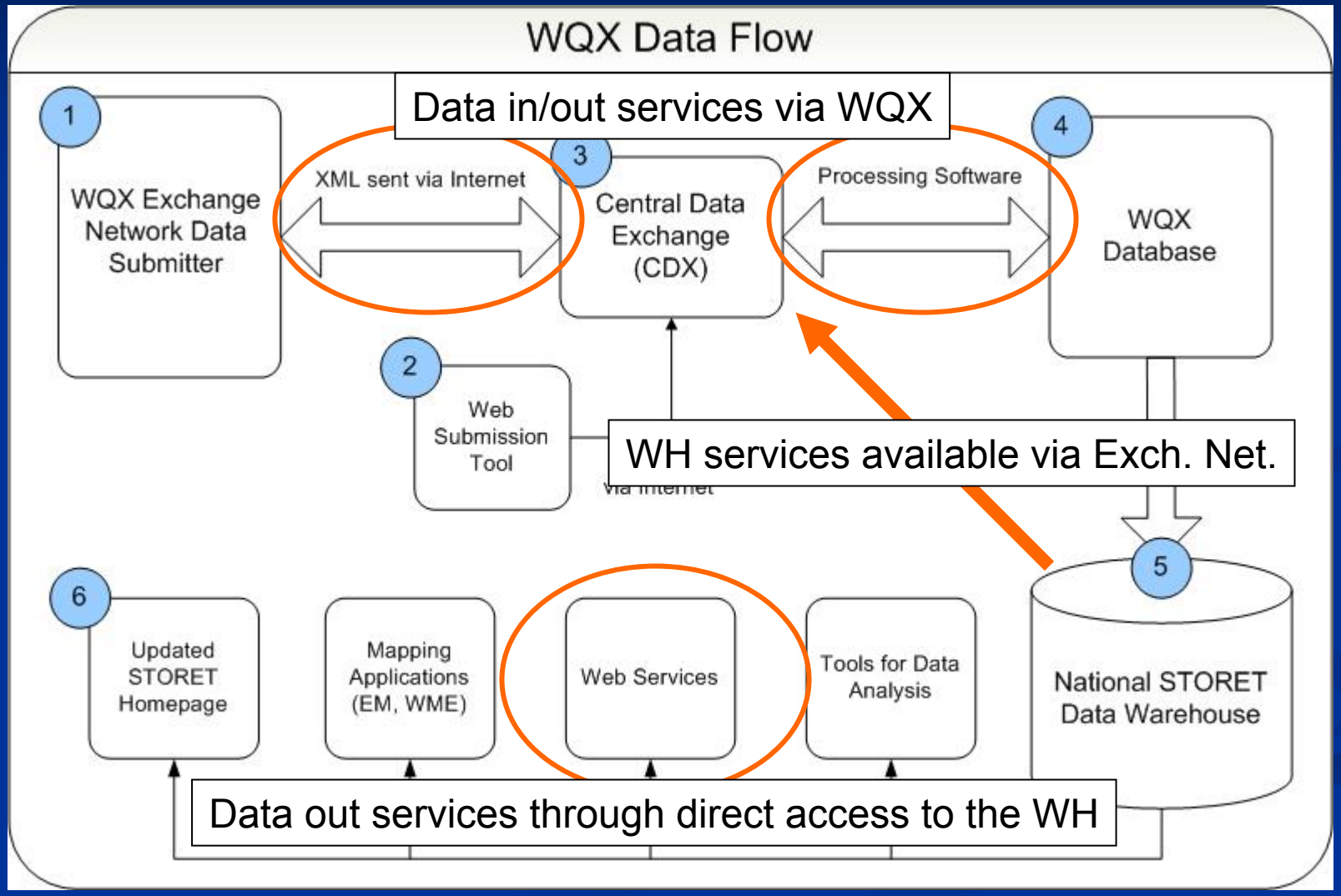
(•) **Organization** ( ) **Characteristic Type**

Query

3 Organizations, 10 Stations, 323 Characteristics, 23,222 Results

Organization
( ) All Organizations of the Watershed
( ) CADWR - California Department of Water Resources 01/14/1992 - 03/04/2002 (60) Records • 1 Stations • 60 Physical,
( ) CALSWAMP - CA Surface Water Monitoring Program (California) 02/26/2002 - 06/18/2002 (349) Records • 2 Stations

Where do Web Services fit?



U.S. Environmental Protection Agency

EnviroMapper for Water

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EPA Home > Water > EnviroMapper for Water

Help

Query Results

Query Result

Query Result

Organization: 11113300 - New Hampshire Dept. of Environmental Services

Download Results

Monitoring Location	Activity	Results		
		Characteristic	Measure	Status
02-AND - Meadow				
02-AND - Meadow				
02-AND - Meadow				
02-AND - Meadow				
02-AND - Meadow				

All Done with Web Services!!

Microsoft Excel - 2017851398[1].csv

File Edit View Insert Format Tools Data Window Help

A2 11113300

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	OrganizationIdentifie	OrganizationForm	MonitoringLoc	MonitoringLocationNar	ActivityIdentifier	ActivityTypeCoc	ActivityMe	ActivitySt	Character	ResultMea	MeasureU	ResultSta	ResultVal
2	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RA06149606	Sample	Water	6/14/1996	pH	6.4	None	F	Actual
3	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RA06149606	Sample	Water	6/14/1996	Temperatu	19.7	deg C	F	Actual
4	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RA06149606	Sample	Water	6/14/1996	Dissolved	102	%	F	Actual
5	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RA06149606	Sample	Water	6/14/1996	Escherichi	180	#/100ml	F	Actual
6	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RA06149606	Sample	Water	6/14/1996	Dissolved	9300	ug/l	F	Actual
7	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110407	Field Msr/Obs	Water	7/11/2004	Turbidity	2.2	NTU	F	Actual
8	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110407	Field Msr/Obs	Water	7/11/2004	Temperatu	16.9	deg C	F	Actual
9	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110407	Field Msr/Obs	Water	7/11/2004	Dissolved	9100	ug/l	F	Actual
10	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	Specific co	56.3	uS/cm	F	Actual
11	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	Turbidity	1.7	NTU	F	Actual
12	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	Dissolved	8680	ug/l	F	Actual
13	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	Dissolved	90.4	%	F	Actual
14	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	pH	6.49	None	F	Actual
15	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07110411	Field Msr/Obs	Water	7/11/2004	Temperatu	15.2	deg C	F	Actual
16	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07300409	Field Msr/Obs	Water	7/30/2004	Turbidity	1.2	NTU	F	Actual
17	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07300409	Field Msr/Obs	Water	7/30/2004	Temperatu	21.1	deg C	F	Actual
18	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07300409	Field Msr/Obs	Water	7/30/2004	Specific co	78.9	uS/cm	F	Actual
19	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV07300409	Field Msr/Obs	Water	7/30/2004	Dissolved	89.2	%	F	Actual
20	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV08200408	Field Msr/Obs	Water	8/20/2004	Turbidity	1.53	NTU	F	Actual
21	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV08200408	Field Msr/Obs	Water	8/20/2004	Temperatu	17.4	deg C	F	Actual
22	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV08200408	Field Msr/Obs	Water	8/20/2004	Specific co	81.5	uS/cm	F	Actual
23	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV08200408	Field Msr/Obs	Water	8/20/2004	Temperatu	20.6	deg C	F	Actual
24	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV09030427	Field Msr/Obs	Water	9/3/2004	pH	6.97	None	F	Actual
25	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV09030427	Field Msr/Obs	Water	9/3/2004	Turbidity	1.23	NTU	F	Actual
26	11113300	New Hampshire Dep	02-AND	Meadow Road Bridge	RV09030427	Field Msr/Obs	Water	9/3/2004	Temperatu	12.1	deg C	F	Actual

.csv]2017851398(1)

Ready

An example using Monitoring Data

Microsoft Excel - Web_Service_Data_browser.xls

C5 7/11/1979

OrgID: UTAHDWQ

Get Data

StationID: 4900420

ID	Monitoring Location	ActivityStartDate	ActivityMedia	Analyte	MeasureValue	Units	Comment	Detection	AnalyMethod
790005	4900420	7/11/1979	Water	Dissolved oxygen (DO)	6500	ug/l			FIELD MEASURE
790005	4900420	7/11/1979	Water	pH	7.8	None			FIELD MEASURE
790005C	4900420	7/11/1979	Water	Turbidity	8.6	NTU			GENERIC METHC
790005C	4900420	7/11/1979	Water	Silica	1000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Mercury	0	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Arsenic	5	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Chloride	11000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Nickel	0	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Carbon dioxide	1000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Magnesium	15000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Specific conductance	33	uS/cm			GENERIC METHC
790005C	4900420	7/11/1979	Water	Total Coliform	93	#/100ml			9221-C
790005C	4900420	7/11/1979	Water	Boron	65	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Silver	0	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Calcium	4000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Carbonate ion (CO3-2)	2000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	pH	8.5	None			GENERIC METHC
790005C	4900420	7/11/1979	Water	Nitrogen, Nitrite (NO2) as NO2	0	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Hardness, Ca + Mg	16000	ug/l			GENERIC METHC
790005C	4900420	7/11/1979	Water	Phosphorus, orthophosphate as P	50	ug/l			GENERIC METHC
790006	4900420	10/2/1979	Water	Temperature, water	13.5	deg C			FIELD MEASURE
790006	4900420	10/2/1979	Water	Specific conductance	140	uS/cm			FIELD MEASURE
790006	4900420	10/2/1979	Water	Dissolved oxygen (DO)	7800	ug/l			FIELD MEASURE

WATERSHED DATA Sheet3

Ready