eBEACHES Data Flows

EN2014 2014 Exchange Network National Meeting Philadelphia, PA

Presented
February 26, 2014
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Snapshot of EPA's BEACH Program

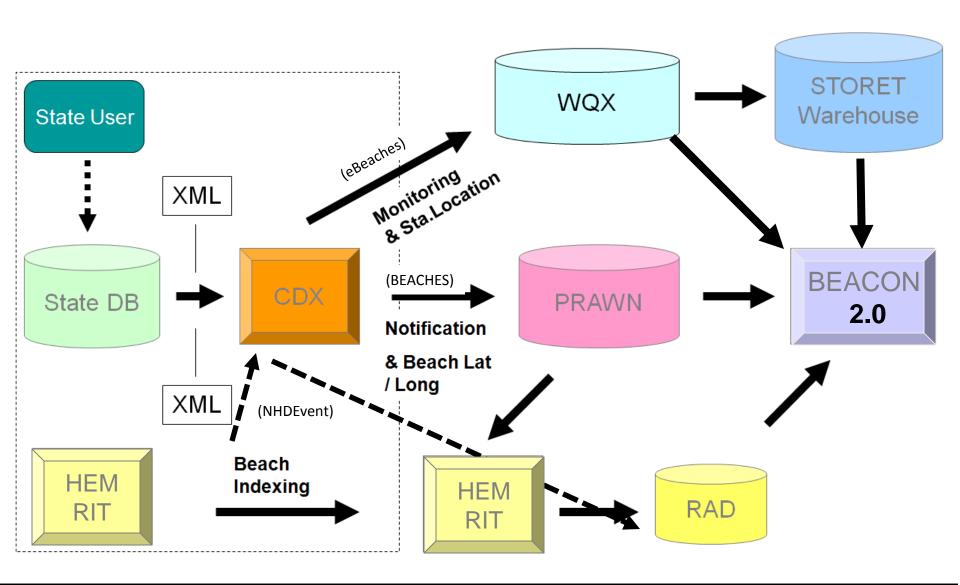
- Program Goal: Reduce risk of infection to users of our nation's recreational waters through improvements in recreational water programs, communication, and scientific advances.
- Objectives -- Use BEACH Act and other actions to:
 - #1 Support and Strengthen Management of State and Local Beach Programs
 - Program Grants
 - Guidance/ Performance Criteria
 - Beach Location & Classification Data
 - Monitoring Data
 - Public Notification & Risk Communication Data
 - **#2** Improve Science that Supports
 Recreational Water Monitoring Programs
 - Research to improve: Water Quality Indicators; Modeling and Monitoring;
 Knowledge of Exposure and Health Effects, Rapid Methods Usability

3 Data Flows

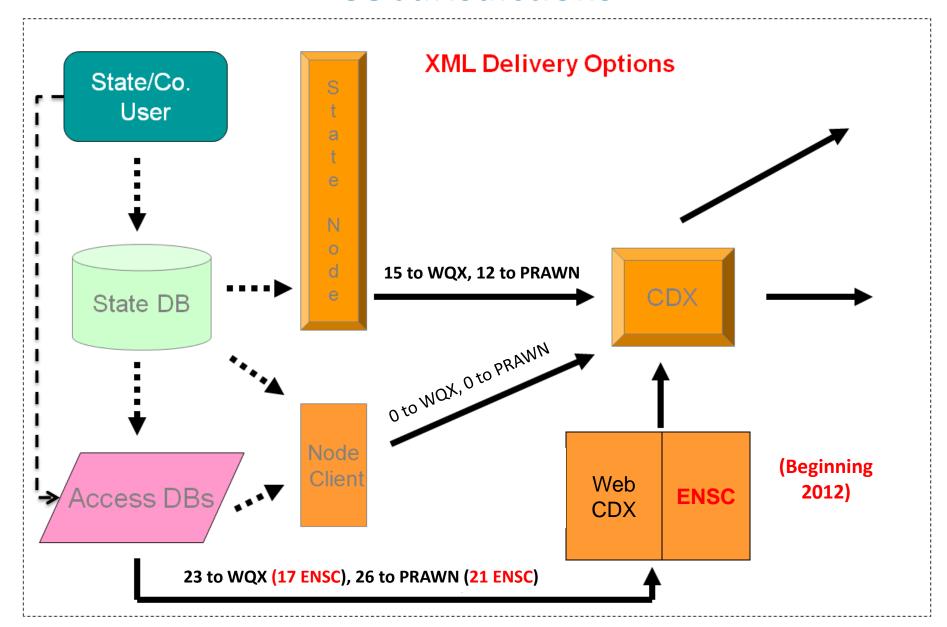
eBeaches System

- Location data (mapped; indexed to NHD/RAD flow lines via NHDEvent flow)
 - Beach location (L/L of end points [-> line] PRAWN)
 - Monitoring station (L/L of point from WQX/STORET)
- Monitoring results (surface water quality via eBeaches flow)
 - Pathogens (and other , e.g. algae, salinity)
- Notification data (advisory or closure via BEACHES flow)
 - When, how long, cause, possible pollution sources
 - May be triggered by monitoring or "policy" / "model"
- Prior year's swim season data due to EPA by January 31
- Annual dataset posted on EPA website after verification with jurisdictions

eBeaches Data Flow



2013 Season eBeaches Data Flows 38 Jurisdictions



https://enservices.epa.gov/login.aspx

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This directory uses the Exchange Network Discovery Service (ENDS). For the BETA version, the Services Directory contains only services that support Submit and Download operations. Select the name of the Service you wish to use.

1 - 20 of 25		< Previou	1	2 Next >		
Service Transaction	Dataflow	Service Name		Service Description	Node	Service Provider
Send Info	AQS	AQS Submit		Air Quality System Document Submissions	NGNProd2.0	U.S. Environmenta Protection Agency
Send Info	BEACHES	BEACHES Submit		BEACHES Submit: Send notification data files to the eBeaches system (BEACHES)	CDXProd2.0	U.S. Environmenta Protection Agency
Send Info	Chesapeake Bay Program Regional Exchange for BMPs	GetBMPFullRefresh		GetBMPFullRefresh	Virginia DEQ Test Node	VA Department o Environmenta Quality
Send Info	eBeaches	eBeaches Submit		eBeaches Submit: Send monitoring data files to the eBeaches system (eBeaches).	NGNProd2.0 (new 2013)	.S. nvironmenta Protection Agency

Beach Program Credentials SOP

A. Group STORET: STORET@epa.gov

Please register the NAAS ID in WQX and map the NAAS ID to the appropriate ORG_IDs for Test and Production – for use by CDXweb; and send that information to the nodehelpdesk.

(NOTE: WQX also creates WQXweb User IDs (firstnamelastname) for WQXWeb users only. WQX Web is the WQX/STORET version of CDX Web and is generally not involved in the Beaches registration process. Beaches and STORET are two separate programs with separate applications in CDX. Beaches users register in CDX Web while STORET users register with WQX Web. It is possible that one user could have two separate user IDs, one for CDX Web and the other for WQX Web. For WQX Web we always use the firstnamelastname for new user registration.)

B. CDX web Helpdesk helpdesk@epacdx.net

1. Please assist the user in creating the CDXweb accounts and passwords for both TEST and PROD, and assign the following roles for:

CDXweb

eBeaches: Notification

eBeaches: Monitoring (New for submitting to WQX)

2. Use the table of registrant info (incl. TSMSS) to create a Customer Retrieval key (CRK) and notify the new user of their CDXweb CRK #.

C. Node Helpdesk <u>nodehelpdesk@epacdx.net</u>

- 1. Please assist in creating the test and prod NAAS user accounts for ENSC access; and send the user their NAAS user id and separately their password.
- 2. Map the test and prod NAAS user accounts to the user test and prod CDXweb accounts and grant the necessary permission policies to the user NAAS accounts.

ENSC

eBeaches: Monitoring to WQX BEACHES: Notification to PRAWN

D. Beaches Submitter Applicant

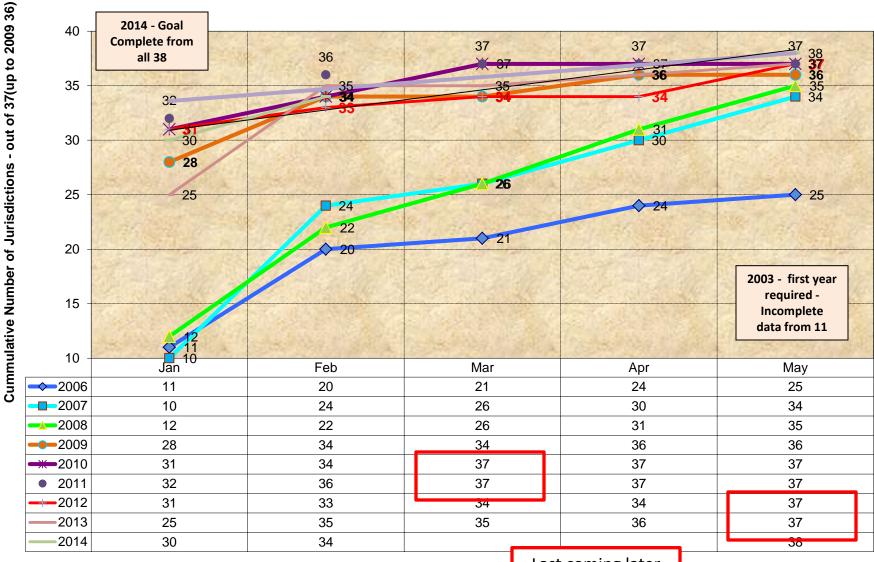
- 1. Please contact the CDX helpdesk in reference to the CRK and they will create the test and production accounts for monitoring and notification in CDXweb for you to be able to receive transaction emails.
- 2. After creating the test and prod CDXweb accounts, please contact the node helpdesk for them to map the Naas accounts to the CDXweb accounts.
- 3. Please use the attached table of submission addresses to make test and prod submissions.

Link to additional data flow addresses

http://www.exchangenetwork.net/epa-node-endpoints/

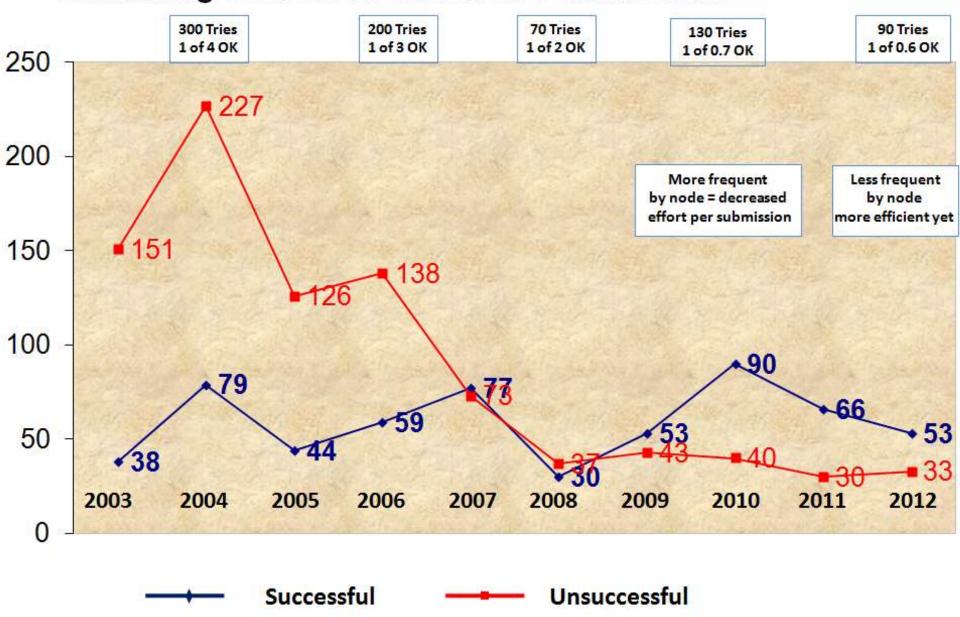
QUANTITY AND TIMELINESS

BEACH NOTIFICATION DATA - MONTH OF SUBMISSION



Last coming later

Swimming Season Notification Submissions



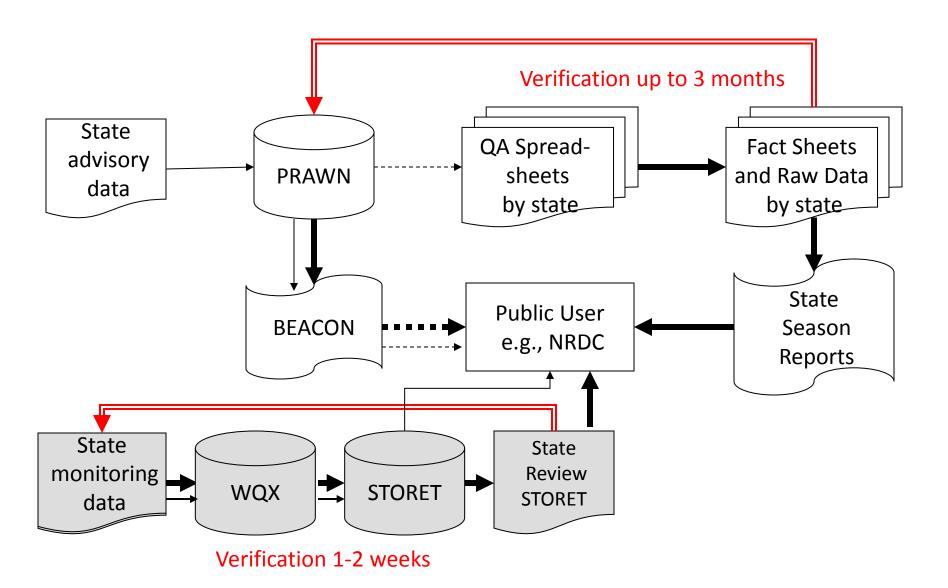
Where We Are Going (2014)

A Great Lakes Restoration Initiative Project

- More useful and appealing EPA webpage
- Increased analytical capability at beach and aggregate levels; e.g., trends, exceedances, advisories and closures, pollution sources
- Less effort for states to submit and approve data (small enhancements, more guidance and training)
- More timely information to the public (e.g., annual to weekly/daily)
- Real-time quality assurance tool

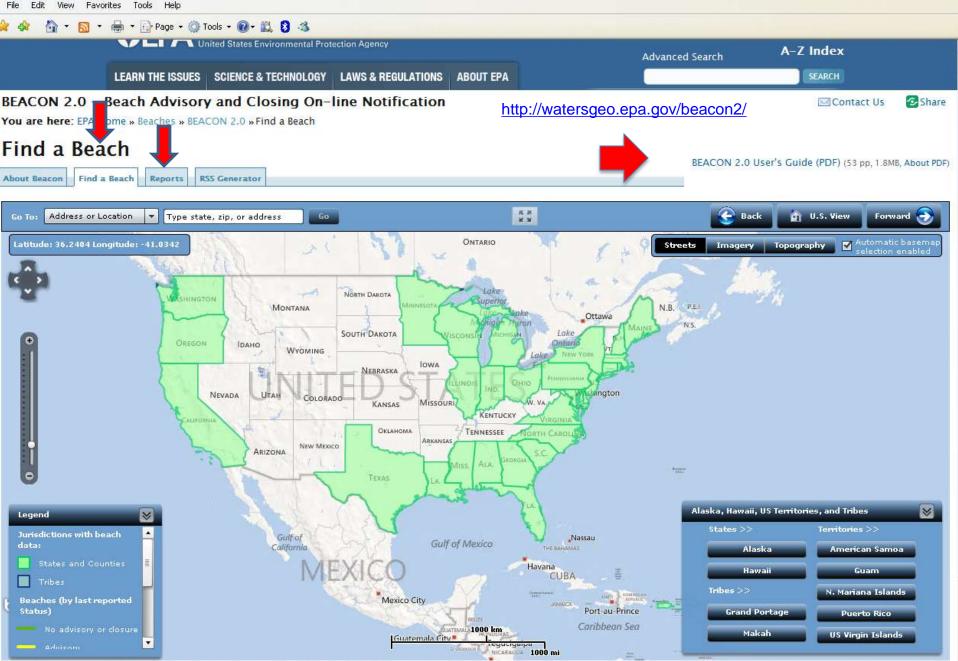
2/22/2014

Flows of State Beach Monitoring and Advisory Data with verification and without



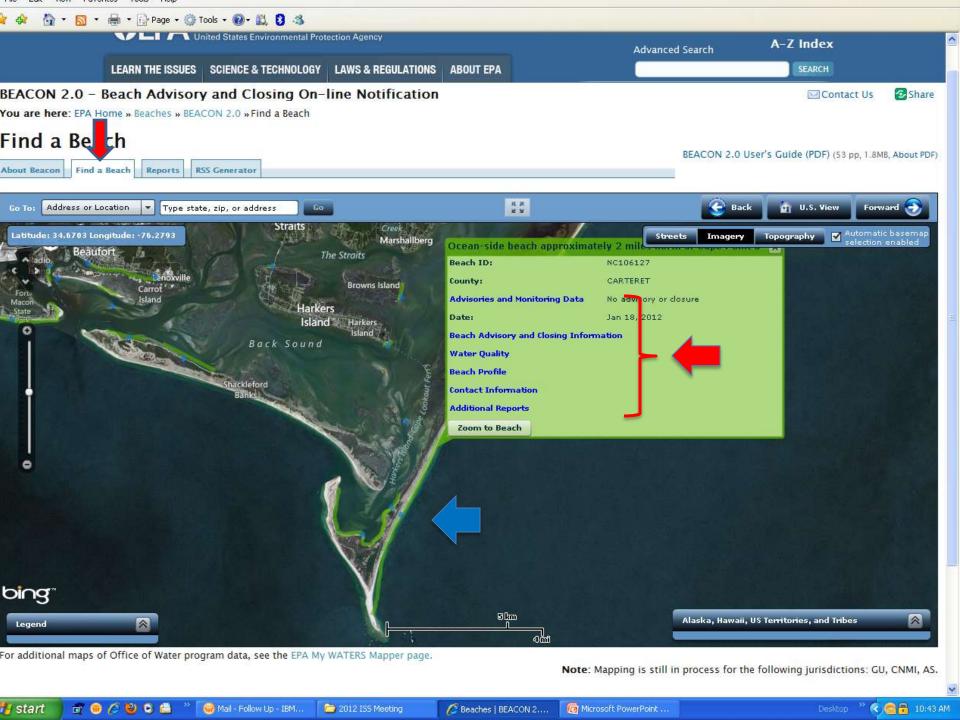
Flows of State Beach Monitoring and Advisory Data with verification and without Verify 1-2 weeks Verification up to 3 months State **Fact Sheets** advisory and Raw Data **PRAWN** data by state State **Public User BEACON** Season e.g., NRDC Reports State State monitoring Review WQX **STORET STORET** data

Verification 1-2 weeks



For additional maps of Office of Water program data, see the EPA My WATERS Mapper page.

Note: Mapping is still in process for the following jurisdictions: GU, CNMI, AS.



Reports

- Standard and Custom
 - filter by: where, when, content; select, sequence columns
- Single beach
- Multiple beaches and jurisdictions e.g.:
 - ► EPA Region, GL, LIS, CB, GOM, nationwide
- Variable timeframes
- Multiple and single data type reports
 - Recent monitoring and advisory data
 - Location, monitoring, advisory/closures
- Downloadable, create stored re-query (RSS)

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QUESTIONS?

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Validation Session Files to Jurisdiction

Tool prompts data owner to:

- A. Download report from BEACON webpage, edit DB of record, resubmit to CDX. (or)
- B. Tell Verification Tool to send file to owner only, owner edit DB of record, resubmit to CDX. (or)
- C. (If node exists) [Tool opens EN Services], execute send to jurisdiction node (Node then parses into DB of record) then resubmit to CDX via node. (or)
- D. B-C (w/o resubmit), AND Tool resubmits to CDX.

