

Data Publishing Services for ICIS-NPDES



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Environment

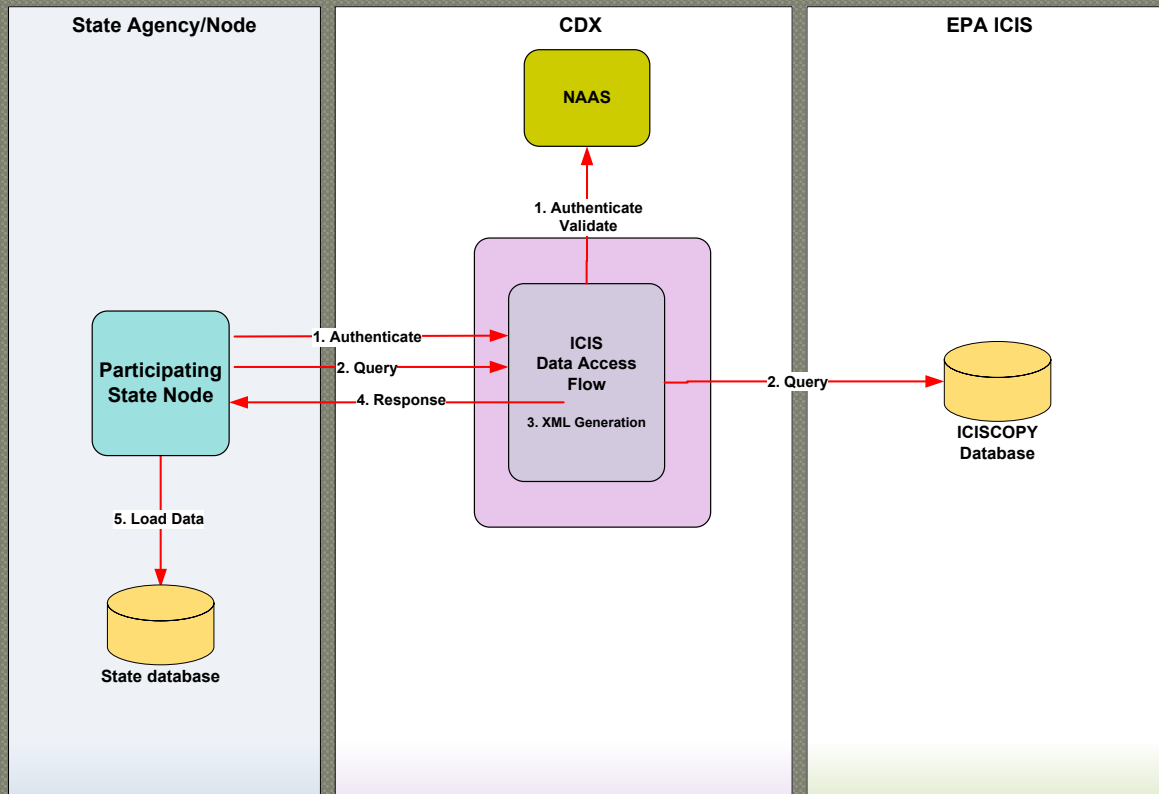
Presentation Outline

- **ICIS Data Publishing Overview**
- Data Access IPT
- ICIS Data Publishing Activities
- Exchange Network Data Publishing Tools
 - Exchange Network Services Center

ICIS Data Publishing Overview

- Arose from need for publishing all data fields in ICIS
- Any node can request and receive ICIS data in XML format
- Uses Query web services developed by CDX for Node 2.0
- XML Schema development includes creation of basic NPDES shared schema components

ICIS Data Publishing Overview



Presentation Outline

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- **Data Access IPT**
- ICIS Data Publishing Activities
- Exchange Network Data Publishing Tools
 - Exchange Network Services Center

ICIS Data Access IPT

- Comprised of 16 states, 4 EPA Regions, OECA, OEI and CDX Contractor Staff
- Chaired by Alison Kittle of U.S. EPA and Elisa Willard of Colorado DPHE
- Kicked off on August 25, 2011
- Call held every 4 weeks on a Thursday or as needed
- Oversees development of web services and XML schema
- Members perform pilot testing of web services

Presentation Outline

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ICIS Data Publishing Activities

- Publishing of ICIS Reference Codes and ICIS Data Families
- Seven reference tables published February 20, 2012
 - **Parameters** – “*GetICISParameters*”
 - **Units** – “*GetICISUnits*”
 - **Unit conversions** – “*GetICISUnitConversions*”
 - **Unit groups** – “*GetICISUnitGroups*”
 - **Parameter unit cross references** – “*GetICISUnitGroupCrossReferences*”
 - **Affiliation types** – “*GetICISAffiliationModuleCrossReferences*”
 - **Pollutants** – “*GetICISPollutants*”
- Other reference table codes will be addressed in the future

ICIS Data Publishing Activities

- Example of an ICIS Unit Reference Code Results XML:

```
<ICISUnitCodes xmlns="http://www.exchangenetwork.net/schema/icisda/0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/0">
  <Unit>
    <UnitCode>12</UnitCode>
    <UnitDescription>Gallons per Day</UnitDescription>
    <UnitShortDescription>GPD</UnitShortDescription>
    <NumerousToCountFlag>T</NumerousToCountFlag>
    <StatusFlag>A</StatusFlag>
    <UpdatedDate>2011-09-15</UpdatedDate>
  </Unit>
</ICISUnitCodes>
```

ICIS Data Publishing Activities

- ICIS Data families available February 2014:
 - **Facility Interest**
 - **NPDES Basic Permit, GPCF and Pretreatment Component**
 - **Permitted Feature, Limit Set, Limit**
 - **Inspection**
 - **Formal and Informal Enforcement Action, Compliance Schedule**

ICIS Data Publishing Activities

- 25 Subsets of data to be published in 2014 and 2015
 - DMR Data
 - Master General Permit
 - All 4 Stormwater components
 - Permit Tracking Events
 - Biosolids, CAFO, CSO and POTW components
 - Single Event, Schedule and DMR Violations and Enforcement Action milestones
 - Program reports (10 areas)

ICIS Data Publishing Activities

- Example of an ICIS Permit Tracking Event XML:

```
<Document xmlns="http://www.exchangenetwork.net/schema/icis/4">
  <Header>
    <Id>ICISDA</Id>
  </Header>
  <Payload Operation="PermittedFeatureSubmission">
    <PermittedFeatureData>
      <TransactionHeader>
        <TransactionType>R</TransactionType>
      </TransactionHeader>
      <PermittedFeature>
        <PermitIdentifier>COR900708</PermitIdentifier>
        <PermittedFeatureIdentifier>001Q</PermittedFeatureIdentifier>
        <PermittedFeatureTypeCode>EXO</PermittedFeatureTypeCode>
        <PermittedFeatureCharacteristics>SW</PermittedFeatureCharacteristics>
        <PermittedFeatureStateWaterBodyCode>COSPUS14</PermittedFeatureStateWaterBodyCode>
        <PermittedFeatureStateWaterBodyName>South Platte River</PermittedFeatureStateWaterBodyName>
        <IsSiteOwnByFacility>N</IsSiteOwnByFacility>
        <IsSystemLinedWithLeachate>NY</IsSystemLinedWithLeachate>
        <DoesUnitHaveDailyCover>N</DoesUnitHaveDailyCover>
        <IsRequiredNitrateGroundWater>N</IsRequiredNitrateGroundWater>
      <GeographicCoordinates>
        <LatitudeMeasure>39.666666</LatitudeMeasure>
        <LongitudeMeasure>-105.016666</LongitudeMeasure>
        <ReferencePointCode>106</ReferencePointCode>
      </GeographicCoordinates>
    </PermittedFeature>
  </Payload>
</Document>
```

Presentation Outline

- ICIS Data Publishing Overview
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- **Exchange Network Data Publishing Tools**
 - Exchange Network Services Center

Exchange Network Data Publishing Tools

CDX Services Center

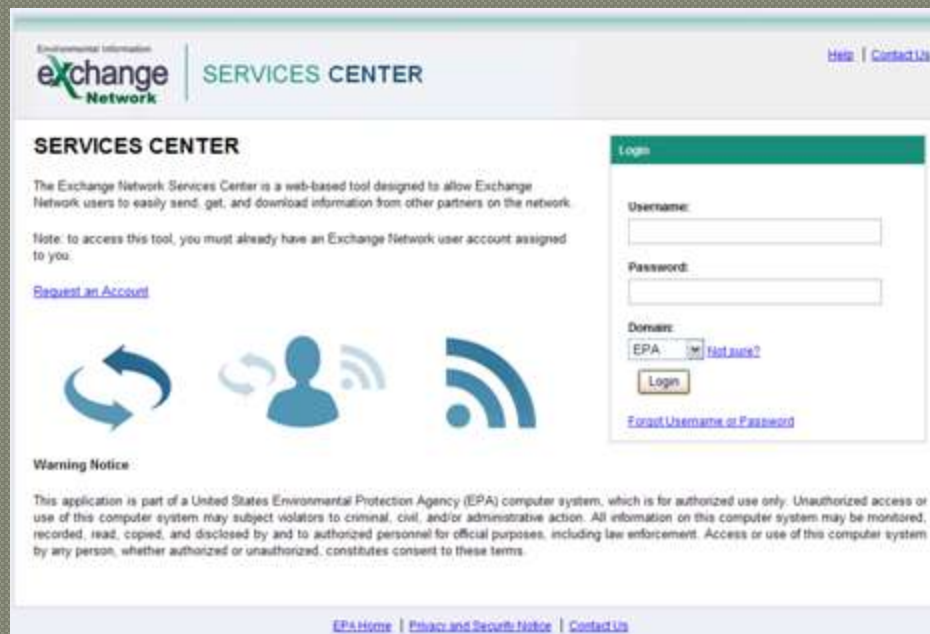
- Developed by CDX
- Three methods for the exchange of environmental information between state, tribal and Federal staff:
 - **Submit:** Submit documents or information to another system on the Exchange Network
 - **Get Info:** Retrieve information from another system on the Exchange Network immediately via query services, or downloaded via solicit services
 - **Download:** Download a document from another system on the Exchange Network with a transaction or document ID
- URL = <https://enservices.epa.gov/Login.aspx>

Exchange Network Data Publishing Tools

Exchange Network Services Center Demonstration

Exchange Network Data Publishing Tools

Exchange Network Services Center – Login Page



The screenshot shows the login page for the Exchange Network Services Center. At the top left is the logo for the Exchange Network, with 'Environmental Information' written above it. To the right of the logo is the text 'SERVICES CENTER'. In the top right corner, there are links for 'Home' and 'Contact Us'. Below the logo, the heading 'SERVICES CENTER' is followed by a paragraph describing the tool and a note about account requirements. A 'Request an Account' link is provided. Three icons (refresh, user, and RSS) are displayed. A 'Warning Notice' section contains a disclaimer. On the right side, there is a 'Login' form with fields for 'Username', 'Password', and 'Domain'. The 'Domain' dropdown is set to 'EPA' with a 'Not sure?' link. A 'Login' button and a 'Forgot Username or Password' link are also present. At the bottom of the page, there are links for 'EPA Home', 'Privacy and Security Notice', and 'Contact Us'.

Environmental Information
exchange
Network

SERVICES CENTER




Home | Contact Us

SERVICES CENTER

The Exchange Network Services Center is a web-based tool designed to allow Exchange Network users to easily send, get, and download information from other partners on the network.

Note: to access this tool, you must already have an Exchange Network user account assigned to you.

[Request an Account](#)



Warning Notice:

This application is part of a United States Environmental Protection Agency (EPA) computer system, which is for authorized use only. Unauthorized access or use of this computer system may subject violators to criminal, civil, and/or administrative action. All information on this computer system may be monitored, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including law enforcement. Access or use of this computer system by any person, whether authorized or unauthorized, constitutes consent to these terms.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

Login

Username:

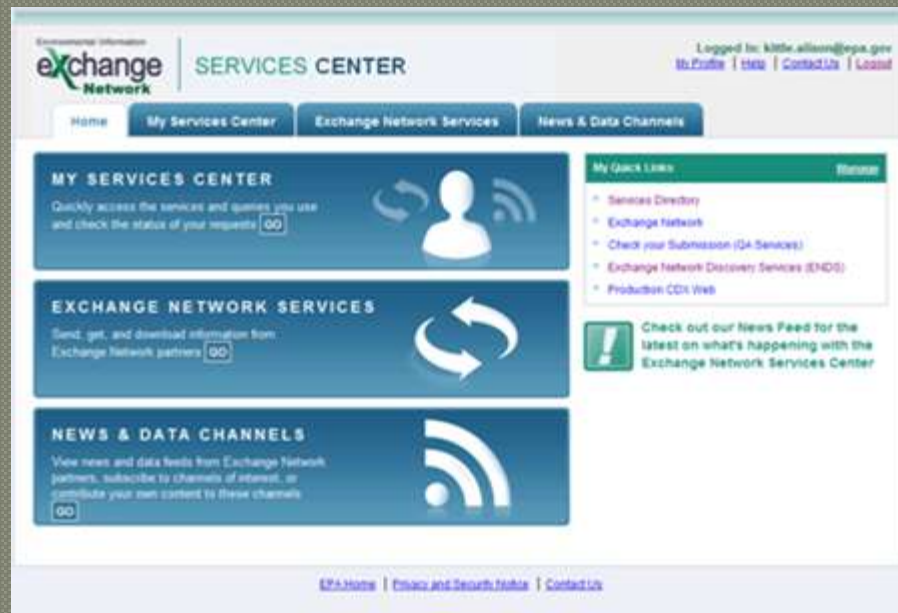
Password:

Domain:
EPA: [Not sure?](#)

[Forgot Username or Password](#)

Exchange Network Data Publishing Tools

Exchange Network Services Center – Home Page



The screenshot displays the Exchange Network Services Center Home Page. At the top left, the logo for the Exchange Network is visible, followed by the text "SERVICES CENTER". On the top right, a user is logged in as "katie.allison@epa.gov" with links for "My Profile", "Home", "Contact Us", and "Logout". Below the header is a navigation menu with "Home", "My Services Center", "Exchange Network Services", and "News & Data Channels". The main content area features three large blue buttons: "MY SERVICES CENTER" (with a person icon), "EXCHANGE NETWORK SERVICES" (with a circular arrows icon), and "NEWS & DATA CHANNELS" (with a RSS icon). To the right of these buttons is a "My Quick Links" section with a "Refresh" button and a list of links: "Services Directory", "Exchange Network", "Check your Submission (QA Services)", "Exchange Network Discovery Services (ENDD)", and "Production CDX Web". Below this list is a green warning icon and a message: "Check out our News Feed for the latest on what's happening with the Exchange Network Services Center". At the bottom of the page, there are links for "EPA Home", "Environ and Security Notice", and "Contact Us".

Exchange Network Data Publishing Tools

Exchange Network Services Center – Exchange Network Services Page

The screenshot displays the Exchange Network Services Center interface. At the top, the logo for the Exchange Network is visible on the left, and the text "SERVICES CENTER" is centered. A user is logged in as "kittle.alison@epa.gov" with links for "My Profile", "Home", "Contact Us", and "Logout". The navigation menu includes "Home", "My Services Center", "Exchange Network Services", and "News & Data Channels", along with a "My Quick Links" dropdown.

The main content area is titled "CHOOSE" and offers two paths: "Guide Me Step-by-Step" (recommended for novice users) and "Express Request" (recommended for advanced users). The "Step 1: Choose the Type of Transaction to Perform" section includes three radio button options: "Send information to a system on the Exchange Network", "Get information that is stored on the Exchange Network", and "Download a document from the Exchange Network. You must know the Transaction ID or Document ID to perform a download." A "Continue" button is located below these options.

The "Express Request" section features a "Search for a Service by Keyword" field with a "Search" button, and a "Browse our entire Services Directory" button.

At the bottom of the page, there are links for "EPA Home", "Privacy and Security Notice", and "Contact Us".

Exchange Network Data Publishing Tools

Exchange Network Services Center – Browse Services Search Page

The screenshot shows the 'SERVICES CENTER' interface. At the top, it says 'Environmental Information' and 'exchange Network'. The user is logged in as 'kittle.alison@epa.gov'. The main navigation includes 'Home', 'My Services Center', 'Exchange Network Services', and 'News & Data Channels'. A 'My Quick Links' dropdown is also present. Below the navigation, there is a 'Guide Me Step-by-Step' section with a sub-header '(Recommended for service users)'. The current step is 'Step 2: Select the Service you wish to use'. A description explains that services are a way to allow information exchange between computer systems. There is a search box with the text 'icid' and a 'Search' button. Below this is an 'OR' section with a 'Browse Services Directory' button. At the bottom of the search area are 'Back' and 'Continue' buttons. To the right, a 'Your Progress with this Transaction' box shows a checklist: 'Step 1: Select a Transaction Type' (checked), 'Step 2: Select a Service' (current step), 'Step 3: Enter Parameters', and 'Step 4: Choose Results Format'. The footer contains links for 'EPA Home', 'Privacy and Security Notice', and 'Contact Us'.

Exchange Network Data Publishing Tools

Exchange Network Services Center – Services Directory Selection Page

Environmental Information
exchange Network SERVICES CENTER

Logged in: nrg@cgifederal.com
[My Profile](#) | [Help](#) | [Contact Us](#) | [Logout](#)

[Home](#) | [My Services Center](#) | [Exchange Network Services](#) | [News & Data Channels](#) | [My Quick Links](#)

[Add this page to My Quick Links](#)

Services Directory

This directory runs from Exchange Network Discovery Service (ENDS) metadata. It requires the commitment of our Network to keep it up to date and useful. For the BETA version, the Services Directory contains only services that support Submit, Query, Solicit, and Download operations. Select the name of the Service you wish to use.

Filter By: [Filter](#) [Clear](#)

1 - 13 of 13 [< Previous](#) [Next >](#)

Service Transaction	Dataflow	Service Name	Service Description	Node	Service Provider
Get Info	FRS	DNR.ICISPrepareData	DNR.ICISPrepareData	WDF#Node2UAT	Wisconsin DNR
Get Info	ICISDA	GetICISAffiliationModuleCrossReferences	ICIS Query: Search for Affiliation Module Cross Reference data including AffiliationTypeCode, AffiliationTypeDescription, AffiliationStatusFlag, AffiliationCategory, ModuleCode, ModuleDescription, ModuleStatusFlag, and UpdatedDate. Defaults to data updated in the last 60 days.	NetNodeTest2.0	U.S. Environmental Protection Agency

Exchange Network Data Publishing Tools

Exchange Network Services Center – Service Selection Page

The screenshot displays the 'SERVICES CENTER' interface. At the top, it shows the 'Exchange Network' logo, the user's login information 'Logged in: kittle.alison@epa.gov', and navigation links for 'My Profile', 'Help', 'Contact Us', and 'Logout'. Below the header is a navigation bar with buttons for 'Home', 'My Services Center', 'Exchange Network Services', and 'News & Data Channels', along with a 'My Quick Links' dropdown.

The main content area is titled 'Guide Me Step-by-Step' (recommended for novice users) and is currently on 'Step 2: Select the Service you wish to use'. It explains that services are used to send or receive information and lists the currently selected service: 'GetICISPollutants'. The service details include its name, description (an ICIS query for pollutant data), dataflow (ICISData), node (NetNodeTest2.0), and publisher (EPA). A 'Select a different service' link is provided at the bottom of the service details.

On the right side, a 'Your Progress with this Transaction' panel shows a checklist of steps: 'Step 1: Select a Transaction Type' (checked), 'Step 2: Select a Service' (current step), 'Step 3: Enter Parameters', and 'Step 4: Choose Results Format'. At the bottom of the main content area are 'Back' and 'Continue' buttons.

Exchange Network Data Publishing Tools

Exchange Network Services Center – Parameter Entry Page

The screenshot shows the 'Exchange Network SERVICES CENTER' interface. At the top, it displays the user's login information: 'Logged in: kittle.alison@epa.gov' with links for 'My Profile', 'Help', 'Contact Us', and 'Logout'. The navigation bar includes 'Home', 'My Services Center', 'Exchange Network Services', 'News & Data Channels', and 'My Quick Links'. The main content area is titled 'Guide Me Step-by-Step (recommended for novice users)' and shows 'Step 3: Enter Parameters'. Below this, it states: 'This service offers several parameters that you can use to specify what information you wish to receive. Parameters that are required have been indicated. At the end of this transaction, you will have the opportunity to save these parameters for future use with this service.' Under the heading 'Enter Parameters (specify as many as possible):', it says 'No parameters available for this transaction'. There are 'Back' and 'Continue' buttons. On the right, a 'Your Progress with this Transaction:' box shows a checklist: 'Step 1: Select a Transaction Type' (checked), 'Step 2: Select a Service' (checked), 'Step 3: Enter Parameters' (current step), and 'Step 4: Choose Results Format'. The footer contains links for 'EPA Home', 'Privacy and Security Notice', and 'Contact Us'.

Exchange Network Data Publishing Tools


Exchange Network Services Center – Results Format Selection Page

The screenshot shows the 'Exchange Network SERVICES CENTER' interface. The user is logged in as 'kittle.af@epa.gov'. The page is titled 'Step 4: Choose Results Format' and includes instructions to customize data reception. A dropdown menu is set to 'XML (downloadable file)'. There are radio buttons for 'Limit Maximum Rows to' (unselected) and 'Return all Rows.' (selected). A 'REQUEST DATA' button is visible at the bottom right of the form area.

Environmental Information | **exchange Network** | SERVICES CENTER |  | Logged In: kittle.af@epa.gov | My Profile | Help | Contact Us | Logout

Home | My Services Center | Exchange Network Services | News & Data Channels | My Quick Links ▼

Guide Me Step-by-Step  (recommended for novice users)

Step 4: Choose Results Format 

Use the form below to customize how you want to receive the data back. It is recommended that you limit the number of rows returned to improve the performance of the query.

Select Format of results:
XML (downloadable file) ▼

Select Maximum rows to return:
 Limit Maximum Rows to:
 Return all Rows.

[Back](#) [REQUEST DATA](#)

Your Progress with this Transaction:
✓ Step 1: Select a Transaction Type
✓ Step 2: Select a Service
✓ Step 3: Enter Parameters
Step 4: Choose Results Format

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Exchange Network Data Publishing Tools

Exchange Network Services Center – XML Results Page

Environmental Information | **exchange Network** | **SERVICES CENTER** | Logged In: kittle.alison@epa.gov | My Profile | Help | Contact Us | Logout

Home | My Services Center | Exchange Network Services | News & Data Channels | My Quick Links

Request Completed

The results of your request are displayed below. Select Save Query to store this query for later use through My Dashboard.

Modify Query | Save Query | Save Results

```
<GetICISParameterData xmlns="http://www.exchangenetwork.net/schema/ICIS/1">
  <Pollutant>
    <POLLUTANT_CODE>6400</POLLUTANT_CODE>
    <POLLUTANT_DESC>Acrylamide</POLLUTANT_DESC>
    <SRS_ID>7575</SRS_ID>
    <SRS_SYSTEMATIC_NAME>2-Propenamidine</SRS_SYSTEMATIC_NAME>
    <POLLUTANT_CATEGORY_CODE>WTR</POLLUTANT_CATEGORY_CODE>
    <CHEMICAL_FORMULA>C3H5NO</CHEMICAL_FORMULA>
    <CHEMICAL_ABSTRACT_SERVICE_NMBR>79061</CHEMICAL_ABSTRACT_SERVICE_NMBR>
    <STATUS_FLAG>A</STATUS_FLAG>
    <UPDATED_DATE>2011-06-09T09:44:18-04:00</UPDATED_DATE>
  </Pollutant>
  <Pollutant>
    <POLLUTANT_CODE>6432</POLLUTANT_CODE>
    <POLLUTANT_DESC>Sewage/sewage sludge</POLLUTANT_DESC>
    <SRS_ID>17136292</SRS_ID>
    <SRS_SYSTEMATIC_NAME>Sewage/sewage sludge</SRS_SYSTEMATIC_NAME>
    <STATUS_FLAG>A</STATUS_FLAG>
    <EPA_ID>E17136292</EPA_ID>
    <UPDATED_DATE>2011-04-15T14:36:00-04:00</UPDATED_DATE>
  </Pollutant>
</GetICISParameterData>
```

Modify Query | Save Query | Save Results

Back

Exchange Network Data Publishing Tools

Exchange Network Services Center – Save Results Page

The screenshot shows the 'Request Completed' page in the Exchange Network Services Center. The page displays XML data for pollutants. A 'File Download' dialog box is open, asking 'Do you want to open or save this file?'. The dialog shows the file name '...at_3c404e5a-9793-4245-8451-199D7ead50b.xml', type 'XML Document', and source 'en-servicecenter.epacdmnode.net'. The XML data in the background includes:

```
<GetDCISParameterData xmlns="http://www.epa.gov/epacdmnode/ExchangeNetworkData">
  <Pollutant>
    <POLLUTANT_CODE>6400</POLLUTANT_CODE>
    <POLLUTANT_DESC>Acrylamide</POLLUTANT_DESC>
    <SRS_ID>7575</SRS_ID>
    <SRS_SYSTEMATIC_NAME>2-Propenamide</SRS_SYSTEMATIC_NAME>
    <POLLUTANT_CATEGORY_CODE>A</POLLUTANT_CATEGORY_CODE>
    <CHEMICAL_FORMULA>C3H5N</CHEMICAL_FORMULA>
    <CHEMICAL_ABSTRACT_SERVING_FUNCTION_CODE>A</CHEMICAL_ABSTRACT_SERVING_FUNCTION_CODE>
    <STATUS_FLAG>A</STATUS_FLAG>
    <UPDATED_DATE>2011-06-01</UPDATED_DATE>
  </Pollutant>
  <Pollutant>
    <POLLUTANT_CODE>6432</POLLUTANT_CODE>
    <POLLUTANT_DESC>Sewage/sewage sludge</POLLUTANT_DESC>
    <SRS_ID>17136292</SRS_ID>
    <SRS_SYSTEMATIC_NAME>Sewage/sewage sludge</SRS_SYSTEMATIC_NAME>
    <STATUS_FLAG>A</STATUS_FLAG>
    <EPA_ID>E17136292</EPA_ID>
    <UPDATED_DATE>2011-04-15T14:36:00-04:00</UPDATED_DATE>
  </Pollutant>
  <Pollutant>
    <POLLUTANT_CODE>6433</POLLUTANT_CODE>
    <POLLUTANT_DESC>Sewage/sewage sludge</POLLUTANT_DESC>
    <SRS_ID>17136292</SRS_ID>
    <SRS_SYSTEMATIC_NAME>Sewage/sewage sludge</SRS_SYSTEMATIC_NAME>
    <STATUS_FLAG>A</STATUS_FLAG>
    <EPA_ID>E17136292</EPA_ID>
    <UPDATED_DATE>2011-04-15T14:36:00-04:00</UPDATED_DATE>
  </Pollutant>
</GetDCISParameterData>
```

Exchange Network Data Publishing Tools

Exchange Network Services Center – HTML Results Page

Environmental Information | **exchange Network** | SERVICES CENTER | Logged In: kittle.alison@epa.gov | [My Profile](#) | [Help](#) | [Contact Us](#) | [Logout](#)

[Home](#) | [My Services Center](#) | [Exchange Network Services](#) | [News & Data Channels](#) | [My Quick Links](#)

Request Completed
The results of your request are displayed below. Select Save Query to store this query for later use through My Dashboard.

[Modify Query](#) | [Save Query](#) | [Save Results](#)

POLLUTANT_CODE	POLLUTANT_DESC	SRS_ID
5400	Acrylamide	7575
6432	Sewage/sewage sludge	17136292
447	Arsenic (unspecified)	583020
5357	Fly ash	17136573
6599	Flow rate	1643246
6613	Sediment	17136294
5713	Nitrate	587186
1916	Giardia	761718
3545	QUATERNARY AMMONIUM COMPOUNDS	5243613
561	Biosolids weight including admixtures	17027321
4149	Total coliforms	761700

[Modify Query](#) | [Save Query](#) | [Save Results](#)

[Back](#)

Exchange Network Data Publishing Tools

Exchange Network Services Center – Save Query Page

Environmental Information
Exchange Network SERVICES CENTER

Logged in: kirtle.olson@epa.gov
[My Profile](#) | [Help](#) | [Contact Us](#) | [Logout](#)

[Home](#) | [My Services Center](#) | [Exchange Network Services](#) | [News & Data Channels](#) | [My Quick Links](#)

Request Completed

The results of your request are displayed below. Select Save Query to store this query for later use through My Dashboard.

[Modify Query](#) [Save Query](#) [Save Results](#)

POLLUTANT_CODE	POLLUTANT_DESC	SRF_ID
5400	Acrylamide	
5432	Sewage/bem	
447	Arctic (unsp)	
5357	Fly ash	
6590	Flow rate	
6613	Sediment	
5713	filtrate	
1916	Gardle	
3545	QUATERNARY	
691	Biosolids wet	
4145	Total coliforms	751700

Save Query to My Service Center [Close](#)

You have selected to save this Query to My Services Center.

Enter a Name you will recognize for this Query:

Enter a Short Description for this Query:

[Cancel](#) [Save Query](#)

[Modify Query](#) [Save Query](#) [Save Results](#)

[Back](#)

Exchange Network Data Publishing Tools

Exchange Network Services Center – My Services Page

Exchange Network Services Center – My Services Page

Home | My Services Center | Exchange Network Services | News & Data Channels | My Quick Links

My Services | My Activity | My Channels | Add this page to My Quick Links

Make this my Start page

My Services Access services you have used before. [Use a Filter Service](#)

All | Send Info | Get Info | Download | My Queries

Find a Service: My Services Services Directory Find

Service Name	Service Description	MODE	Publisher	Created Date	
Work ICIS Ref Table - Pollutants	returns any updates to the ICIS Pollutant ref table within the past XX days	NetNodeTest2.0	EPA	10/26/2011 3:23:59 PM	Delete
RequestPollutantsUpdated	ICIS Query: Search for Pollutant Code data including PollutantCode, PollutantDescription, PollutantSRSDescription, SRIdentifier, PollutantCategoryCode, ChemicalFormula, ChemicalAbstractServiceNumber, StatusFlag, EPAIdentifier, and UpdatedDate. Returns data updated in the last 365 days.	NetNodeTest2.0	EPA	10/21/2011 4:22:08 PM	Delete

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Exchange Network Data Publishing Tools

Exchange Network Services Center – News and Data Channels Page

The screenshot displays the 'Exchange Network Services Center' interface. At the top, the logo for 'exchange Network' is on the left, and 'SERVICES CENTER' is in the middle. A user is logged in as 'kittle.alison@epa.gov'. Navigation tabs include 'Home', 'My Services Center', 'Exchange Network Services', and 'News & Data Channels'. The main content area is titled 'News & Data Channels' and features a search bar. Below this, a list of channels is shown, including 'AGSChannel', 'CDXTransitionTeamChannel', 'CORRecoveryChannel', 'EISChannel', 'FacilityRegistrySystemChannel', and 'GeneralChannel'. Each channel has a 'View in Channel Viewer' link and subscription options for 'RSS' and 'ATOM'. The 'GeneralChannel' is currently selected, showing a 'NOW VIEWING' status. To the right, the 'Channel Viewer' displays a search bar and a list of news items with dates and titles, such as 'Test Submit' and 'PostSource This is a test file'.

ICIS Data Publishing Contacts

- ICIS Data Access IPT

- Elisa Willard
- Alison Kittle

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- Exchange Network Services Center

- Roy Chaudet
- Chris Clark

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Clark.Chris@epa.gov