



ICIS and Beyond: Current and Future Plans and Technology for Enforcement and Compliance Data



Presented by
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Presentation Outline

- ICIS Today
- Future of ICIS
- Advances in Electronic Reporting
 - NetDMR and Michigan eDMR
- Making the Future of ICIS and Electronic Reporting a Reality



Presentation Outline

- **ICIS Today**
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ICIS Today

- **ICIS Direct Users**
 - In production June 2006
 - 25 state agencies, DC, 10 EPA regions, 2 tribes and all territories
- **Batch Hybrid**
 - DMR Batch in production May 2008 with 5 state agencies (AK, AR, IL, MI, MN)
 - Release 1 Permit Batch in production February 2011 with 4 state agencies (KY, FL, OH, MO)



ICIS Today

- NetDMR
 - In production June 2009
 - 161 facilities in 7 states and 7 regions using Federal Installation (AR, CO, CT, HI, LA, TN, UT, R1, R2, R3, R6, R8, R9, R10)
 - 3 states awaiting CROMERR approval (IN, KY, MD)
 - 5 states expressed interest (GA, IA, NY, OK, PA)
 - 1 tribe expressed interest (Navajo Nation)



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Future of ICIS

- Release 2
 - Electronic transfer of inspection related data
 - In UAT late summer-winter FY2011-FY2012
 - In production early FY2012
- Release 3
 - Electronic transfer of enforcement action and violation related data
 - 16 State agencies to be migrated into ICIS (AZ, DE, IA, KS, ME, MS, NJ, NC, ND, OR, SC, VA, VT, WA, WV, WY)
 - In production early FY2013



Future of ICIS

- ICIS-NPDES Data Flow Enables ICIS to Support:
 - Electronic exchange of information between EPA and states (e.g., Enforcement and Compliance information)
 - Electronic reporting from the NPDES regulated universe to EPA
 - Electronic reporting of compliance data from inspectors in the field



Future of ICIS

- Electronic reporting options being evaluated by a team of EPA and state members for the Clean Water Action (CWA) Plan:
 - eDMR
 - eNOI
 - eProgram Reports
- Electronic Reporting Implementation:
 - Proposed Regulation to Make e-Reporting Mandatory



Future of ICIS

- Electronic reporting of compliance data from inspectors in the field :
 - EPA is currently evaluating a proof of concept that will allow Region 4 inspectors to send their compliance monitoring data and RCRA inspection reports directly to ICIS from the field via CDX
 - EPA has developed and will be piloting tablet software for the PCB and NPDES Construction Storm Water compliance monitoring programs



Future of ICIS

- Why Electronic Reporting?
 - Substantial cost savings for EPA, states, and the regulated community
 - Improves data quality
 - Allows EPA and states to focus resources on the most important environmental problems
 - Improves transparency and public access to complete and timely data
 - Is environmentally friendly



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Advances in Electronic Reporting - NetDMR

- Facilities manage their DMRs
 - Enter data into a Web form or upload from spreadsheet
 - Select users sign and submit DMRs to ICIS
 - Allows DMR copy of records to be corrected
- Regions and States oversee their facilities
 - Electronically approve users who sign DMRs
 - Receive and file Subscriber Agreements
 - View all submitted DMRs and selected DMRs in progress
 - Monitor submissions and refresh data from ICIS
- Cross-Media Electronic Reporting Regulation (CROMERR) compliant



Advances in Electronic Reporting - NetDMR

[Login](#) | [FAQs](#) | [Getting Started](#) | [Contact the NetDMR Team](#)



Welcome

Welcome to the EPA Region 09 - NN installation of NetDMR! If you are a permittee, you may be able to use this Web site to complete and submit DMRs electronically for your facility.

New to NetDMR?

- ▶ First time users can [register for a new account](#).
- ▶ If you have any questions about NetDMR, please contact chew.sandra@epa.gov.

News

- There are no news items



NetDMR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Login to NetDMR

User Name

Password

[Forgot User Name? / Forgot Password? / Create a NetDMR Account](#)

Check Your PermitID

- ▶ First time users should check to see if your permit is available in NetDMR yet by [Checking your Permit ID](#)

Warning Notice

The registration procedure for the National Installation of NetDMR is part of the United States Environmental Protection Agency's (EPA) Central Data Exchange, 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.

Privacy Statement

EPA will use the personal identifying information which you provide for the expressed purpose of registration to the National Installation of NetDMR site at the Central Data Exchange and for updating and correcting information in internal EPA databases as necessary. The Agency will not make this information available for other purposes unless required by law. EPA does not sell or otherwise transfer personal information to an outside third party. [Federal Register: March 18, 2002 (Volume 67, Number 52)][Page 12010-12013]

- NetDMR Home Page is @ www.epa.gov/netdmr
- Login Page



Advances in Electronic Reporting - NetDMR

No Data Indicator (NODI)
Form NODI:

Parameter Code	Name	NODI <input type="button" value="List"/>	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis <input type="button" value="List"/>	Smpl. Type <input type="button" value="List"/>	
			Value 1	Value 2	Units	Value 1	Value 2	Value 3				Units
00400	pH	<input type="button" value="List"/>				=			SU		01/30	GR
1 - Effluent Gross												
Season: 0		Req.				>= 6 Minimum			<= 9 Maximum	Standard Units	Monthly	GRAB
NODI: <input type="button" value="List"/>		NODI										
Apply												
01027	Cadmium, total (as Cd)	<input type="button" value="List"/>				=			mg/L		01/30	CP
1 - Effluent Gross												
Season: 0		Req.				<= .001 Monthly Average			<= .025 Daily Maximum	Milligrams per Liter	Monthly	COMPOS
NODI: <input type="button" value="List"/>		NODI										
Apply												
01051	Lead, total (as Pb)	<input type="button" value="List"/>				=			mg/L		01/30	CP
1 - Effluent Gross												
Season: 0		Req.				<= .04 Monthly Average			<= 1.19 Daily Maximum	Milligrams per Liter	Monthly	COMPOS
NODI: <input type="button" value="List"/>		NODI										
Apply												

- DMR Data Entry Page



Advances in Electronic Reporting - NetDMR

Home | My Account | Request Access | Help | Logout User: prnt4hi, Permittee User

CA-HI-NE-SD-UT

NetDMR

- Manage Access Requests
- Search All DMRs & CDRs Permits Users
- Import DMRs Perform Import Check Results
- View Permits Users
- Download Blank DMR Form

Session Lockout Timer: 29:46

- DMR Import Page

Import DMRs

Use this page to import a file of DMR data. Note that the file may only contain data for one permit (although it may cover multiple permitted features, limit sets, and monitoring periods beneath the permit). You may include in the file both new DMR data and corrections to in-process or previously submitted DMRs. The file may not be larger than 20 megabytes. For additional information on how to format the file, please consult the Help system. Fields marked with * are required.

Permit ID: *

Import File: * (File of DMR data, not attachments)

File Type: *

Data Replacement Strategy: *

Description: *



Advances in Electronic Reporting - NetDMR

Home | My Account | Request Access | Help | Logout User: netdmrtest001@yahoo.com, Permittee User

R6 Partial - LA-GM

NetDMR

- Manage Access Requests
- Search All DMRs & COFs Permits Users
- Import DMRs Perform Import Check Results
- View Permits Users
- Download Blank DMR Form

Session Logout Timer: 29:43

Sign & Submit DMR

Use this page to sign and submit the selected DMR. Confirm your intention to submit by filing the checkbox in the Include in Submission column. Perform the submission by completing the signature fields at the bottom of the page.

Include in Submission	View Completed DMR	Permit ID	Facility	Permitted Feature	Discharge #	Discharge Description	Discharge Period End Date	DMR Due Date	Status
<input type="checkbox"/>		GHG298998	EEK CORPORATION	813	813-T	GREEN CANYON 322	06/30/09	07/28/09	NetDMR Validated

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By entering my password and security question answer and pressing the Submit button, I agree that:

By entering my password and security question answer and pressing the Submit button, I agree that:

1. I am Ryan Dutton.
2. I have not violated any term in my Electronic Signature Agreement.
3. I am otherwise without any reason to believe that the confidentiality of my password has been compromised now or at any time prior to this submission.
4. I have the authority to submit these data on behalf of the listed facilities.
5. This action constitutes an electronic signature equivalent to my written signature.
6. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.

What is the name of the street where you grew up?

Password

- DMR Sign and Submit Page



Advances in Electronic Reporting - NetDMR

Home | My Account | Request Account | Help | Logout

NetDMR Tennessee

Navigation: Manage (Access Requests, Inquiries, Agreements), Search (COEs, Permits, Users), View (Subject Logs, Raw Logs, In/Out/At/Off/On/In), Alerts (COEs)

Search: COEs | Permits | Users

COEs Search Form:

- View all of part of a search criteria. For example, entering a year range of 30 would return Submittals and approvals.
- Permit ID:
- Signature First Name:
- Signature Last Name:
- Facility Name:
- Monitoring Period: -
- Facility Name:

Search

Pending Access Requests

Click any underlined column title to sort the table rows in ascending or descending order by the information in that column. If you click View All or View Period, the table will be displayed with the default sort order applied and any selected check boxes will be reset to Unselected.

Pending Access Requests - Internal

No results.

Pending Access Requests - External Signatory

One Request Found

Name	User Name	Permit ID	Facility Name	Request Date	View Details	Response to Request
Wesley White	white@wpa.gov	78000288	USDOE-OMR R3008 Y12-PLT	4/23/09		

Pending Access Requests - External

Showing 6 of 6 requests

Name	User Name	Permit ID	Facility Name	Access Status	Approval	View	Comment	View
netdmr_data_provider	netdmrdata@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	Deny	<input type="checkbox"/>	<input type="checkbox"/>		
netdmr_signatory	netdmrsig@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	Deny	<input type="checkbox"/>	<input type="checkbox"/>		
netdmr_signatory	netdmrsig@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	View	<input type="checkbox"/>	<input type="checkbox"/>		
netdmr_signatory role	netdmrsig@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	View	<input type="checkbox"/>	<input type="checkbox"/>		
jeffrey.edwin	netdmrjeff@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	View	<input type="checkbox"/>	<input type="checkbox"/>		
jeffrey.edwin	netdmrjeff@gmail.com	78000288	USDOE-OMR R3008 Y12-PLT	Deny	<input type="checkbox"/>	<input type="checkbox"/>		

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U.S. Environmental Protection Agency

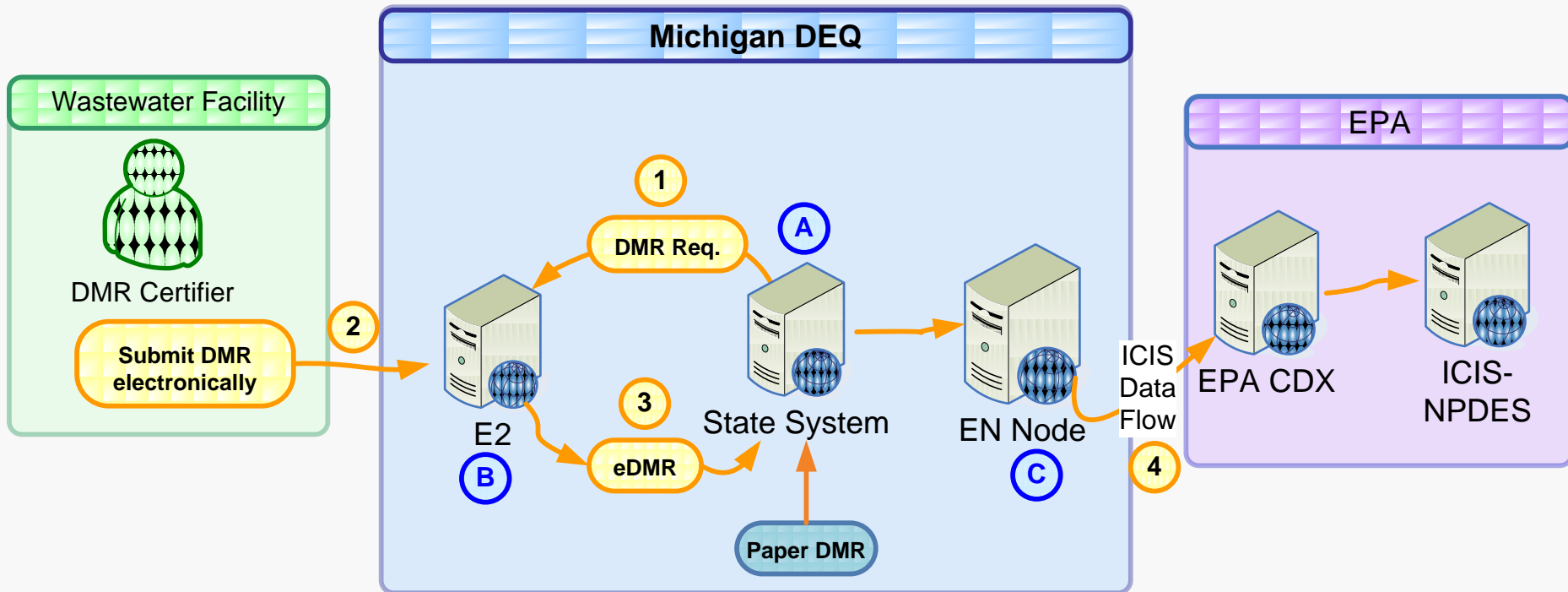
- Regulatory Authority Home Page



Advances in Electronic Reporting - NetDMR

- Future enhancements
 - Simultaneous submissions to state and EPA
 - Daily, weekly and semi-monthly monitoring data
 - Customizable Subscriber Agreements
 - Enter DMRs for unscheduled limits

Advances in Electronic Reporting Michigan eDMR (ICIS Batch State)



(A) State NPDES System

(B) Web-based eDMR System (E2)

(C) ICIS-NPDES data flow



Michigan eDMR – Business Process (1/2)

- Establish User Accounts
 - Facility AR submits a notarized TPA to DEQ
 - DEQ approves & establishes an account
 - DEQ sends security credentials (User ID, PWD, PIN) to AR
 - AR uses temporary credentials to authenticate Account
- DMR Report Forms
 - Summary & Daily DMRs (monthly, quarterly, semi-annual, annual)
 - Web-form, Excel worksheet, Paper printout
- DMR Reporting
 - Facility: Online web-form entry, Excel copy-and-paste, XML upload, compliance checks, comment results, data validations, revisions, attachments (745 participating facilities, 76% out of 976)
 - DEQ: Enters some DMRs received in paper



Michigan eDMR – Business Process (2/2)

- DMR Management
 - Email alert to non reporting
 - DEQ tracks late/no submission
 - Flags DMR violations
 - DMR verified & approved by DEQ before going to ICIS
- DMR Data Flow to ICIS
 - EN Node to CDX
 - Batch XML data upload
 - Track submission status
 - Handle ICIS error reports



DMR Requirement Management

Home Application Site **Permit** DMR Inspection Violation Enforcement Report System Utility

Permit > Permit Management > Permit Limit

Back to Permit Limit List

001A Effluent Gross pH

Permit Limit +

General Information

* Sample Frequency: 2X Weekly * Sample Type: Grab Report Frequency: MONTHLY

Analytical Method: Quantification Limit: Quantification Unit:

Seasonal
 Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept. Oct. Nov. Dec.

Permit Load Limit

Value:	Load 1:	Load 2:	Load Unit:
SBC:			
Basis:			

Permit Conc. Limit

Value:	Conc 1:	Conc 2:	Conc 3:	Conc Unit:
	6.0		8.5	
SBC:	Minimum Daily		Maximum Daily	
Basis:				

Monitoring point, Stage, Parameter

Sample/Report Frequency

Seasonal terms

Limits, SBC

- Revisions
- DMR forms
 - Web-form
 - Excel
 - Paper





E2 DMR – Summary DMR Form

1 Fill Summary Discharge Monitoring Report

General Information

Facility: Fairfield Steel
Permit Number: MI0065773
Permit Limit:

Monitoring Period: 01/01/2010 ~ 03/31/2010
Address: P O BOX 599
Lansing, MI 48923

Frequency: MONTHLY
Location: PLEASANT GROVE RD
Lansing, MI 48923

Monitoring Point: 001Q No Discharge

Parameter: MANGANESE, TOTAL RECOVERABLE(Stage Code: 1)

Quantity or Loading

	Average	Maximum	Unit
Reporting Data:	*****	*****	
Permit Requirement:	*****	*****	
Comment:			

Concentration

	Minimum	Average	Maximum	Unit
Reporting Data:	*****	*****		ug/l
Permit Requirement:	*****	*****	REPORT (Maximum Daily)	ug/l
Comment:				

Monitoring/Analysis Information

	Sample Type	Frequency of Analysis	Excursion No.
Reporting Data:	Grab	Quarterly	
Permit Requirement:	Grab	Quarterly	
Comment:			

Save Change

Next Parameter

Flag Violation

Missing Data

- SOLIDS, TOTAL SUSPENDED (00530)
Stage Code: 1
- NITRITE PLUS NITRATE TOTAL 1 DET. (AS N) (00630)
Stage Code: 1
- IRON, TOTAL (AS FE) (01045)
Stage Code: 1
- LEAD, TOTAL (AS PB) (01051)
Stage Code: 1
- ZINC, TOTAL (AS ZN) (01092)
Stage Code: 1
- CHROMIUM TOTAL RECOVERABLE (01118)
Stage Code: 1
- CYANIDE (A) (01257)
Stage Code: 1
- OIL AND GREASE (03582)
Stage Code: 1
- MANGANESE, TOTAL RECOVERABLE (11123) **i**
Stage Code: 1
- BENZENE (34030) **i**
Stage Code: 1

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E2 DMR – Daily DMR Form

MONITORING POINT:	EFF-01	<input type="checkbox"/> NO DISCHARGE
MONITORING PERIOD:	3/1/2010 ~ 3/31/2010	PERMIT NUMBER: MI0065773
PERMITTEE NAME:	Fairfield Steel	DISTRICT: Cadilla
COUNTY:	Alcona	LOCATION: 159 House Road
MAILING ADDRESS:	28 Volare Drive Lansing, MI 48923	Lansing, MI 48923

Commenting result

Sample Data

Go To: Page 1

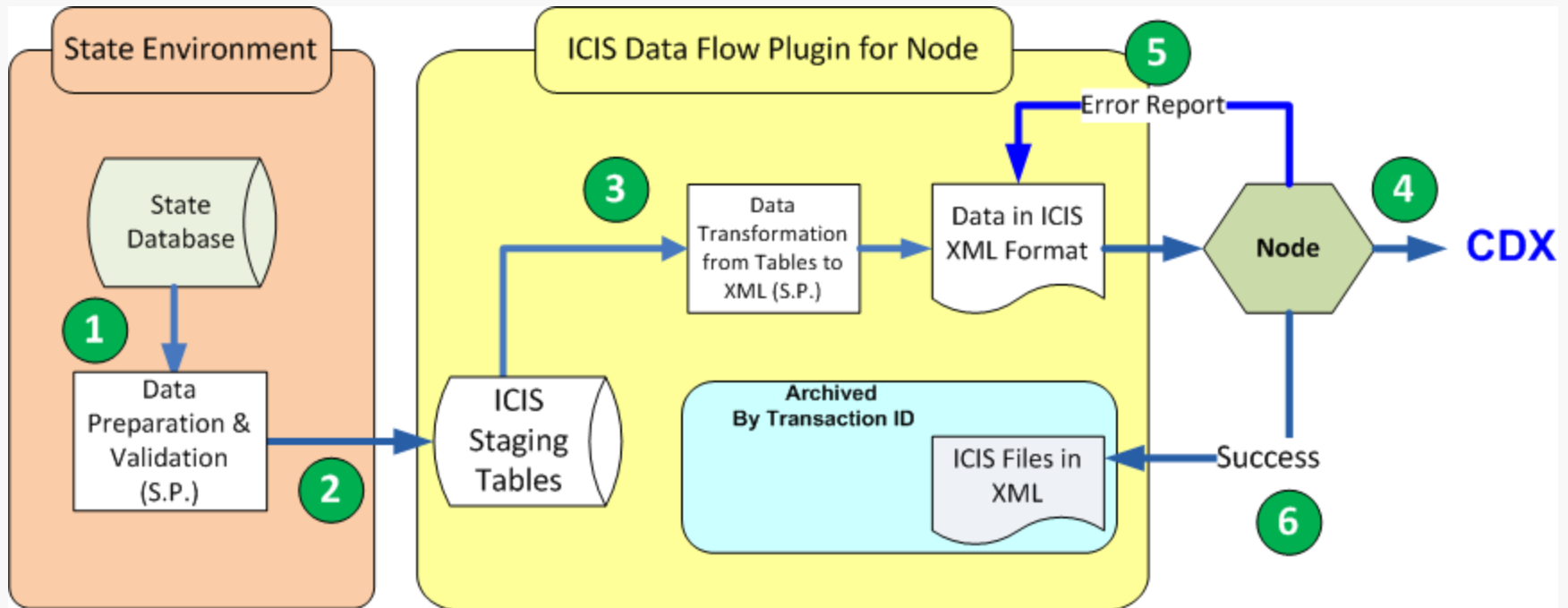
	BOD, 5-DAY (20 DEG. C) Par. Code: 00310 Stage Code: 1 Unit: mg/l	PH Par. Code: 00400 Stage Code: 1 Unit: S.U.	SOLIDS, TOTAL SUSPENDED Par. Code: 00530 Stage Code: 1 Unit: mg/l	FECAL COLIFORM Par. Code: 31641 Stage Code: 1 Unit: col/100mL
3/1/2010	200	7.2	168.20	
3/2/2010				
3/3/2010	350	6.5	134.75	
3/4/2010				
3/5/2010				
3/6/2010				
3/7/2010				
3/8/2010				
3/9/2010				
3/10/2010				
3/11/2010				
3/12/2010				

Add Parameter: "% MORTALITY 48HR ACU CERIODAPHNIA"

Report data for parameters not listed on DMR form



EN Node – ICIS-NPDES Data Flow



1 Prepare/validate data for ICIS-NPDES batch update

2 Import ICIS-NPDES batch update data to ICIS staging tables

3 Generate ICIS XML files

4 Submit to CDX

5 Processing status from CDX

6 Submission archived

- Node Plug-in for ICIS data flows
- Will support all ICIS data families
- DEQ offers to all batch ICIS States



EN Node ICIS Plug-in (Batch Update)

EN-NODE Admin (Node Version: 2.0)

This page allows you to manage existing operations

Manage Operations

Selected Operation: **ICIS_PERMIT_DataFlow**

Records to be included in the transaction

Select All: Results 1 - 10 of 44

	Facility Name	City	Permit Number	Permit Status	ICIS OP CD	View Detail
<input type="checkbox"/>	TINKER AIR FORCE BASE	OKLAHOMA CITY	OK0035203	EFF	R	
<input checked="" type="checkbox"/>	WATONGA, CITY OF	WATONGA	OK0021911	EFF	R	
<input checked="" type="checkbox"/>	EDMOND, CITY OF - COFFEE CREEK	EDMOND	OK0026026	EFF	R	
<input type="checkbox"/>	TXI OPERATIONS, LP	MILL CREEK	OKG950012	EFF	R	
<input type="checkbox"/>	MIDWEST TROPHY MANUFACTURING	DEL CITY	OKP003007	EFF	R	
<input checked="" type="checkbox"/>	JM MANUFACTURING-TULSA PLANT	TULSA	OK0001244	EFF	R	
<input type="checkbox"/>	MUSKOGEE UTILITIES AUTHORITY	MUSKOGEE	OK0029131	EFF	R	
<input type="checkbox"/>	BORAL BRICKS OF TX LP-MUSKOGEE	MUSKOGEE	OK0042846	EFF	R	
<input type="checkbox"/>	MID-CONTINENT CONCRETE CO.	TULSA	OKG110054	EFF	R	
<input type="checkbox"/>	MID-CONTINENT CONCRETE CO.	TULSA	OKG110054	EFF	R	

1 2 3 4 5

Submit **Refresh**

EN-NODE Admin (Node Version: 2.0)

Manage Operations

Selected Operation: **ICIS_PERMIT_DataFlow**

ICIS_DMH_DataFlow
ICIS_INSPECTION_DataFlow
ICIS_ENFORCEMENT_DataFlow
ICIS_PERMIT_DataFlow

Support all ICIS data families

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EN Node ICIS Plug-in (Submission Management)

Submission Management

Selected Status:

Submit Date: From: To:

[Search](#) [Report](#)

Results 1 - 10 of 30

View XML File	Download EPA Report	Date Created	Date Submitted	Status	File Name	Node Account	Trans ID	ICIS OP Count	Error Count	ReSubmit
		3/17/2011 5:56:53 PM	3/17/2011 5:57:18 PM	Completed	645_ICIS_PERMIT_SUBMIT.ZIP	node_support@enfotech.com	e33e3194-e66d-47d3-902e-56ebf895ede2	2		
		3/18/2011 11:17:20 AM	3/18/2011 11:17:32 AM	Completed	648_ICIS_PERMIT_SUBMIT.ZIP	node_support@enfotech.com	bb6fed8a-7026-4fc1-9250-5afa77a93b7	2		
		3/16/2011 4:17:23 PM	3/16/2011 4:17:33 PM		619_ICIS.xml	node_support@enfotech.com	114676d5-9cd8-4fd3-a8e7-8b0986f56260	2		ReSubmit
		3/16/2011 4:22:37 PM	3/16/2011 4:43:22 PM	Completed	620_ICIS.xml	node_support@enfotech.com	b4606c51-f414-44d1-8ad0-652af2688fc3	4		
		3/16/2011 4:26:14 PM	3/16/2011 4:29:33 PM	Completed	621_ICIS.xml	node_support@enfotech.com	b3342075-58c4-4e4b-9aa7-f0b0d9e28bb5	1		
		3/16/2011 4:26:52 PM	3/16/2011 4:31:11 PM	Failed	622_ICIS.xml	node_support@enfotech.com	323c4ca9-82d1-4495-be1d-b9355b13dcea	3	1	
		3/16/2011 5:10:56 PM	3/16/2011 5:15:06 PM		623_ICIS.xml	node_support@enfotech.com	a440a3a9-8482-440a-bb11-ddccc14f77a0	5		ReSubmit
		3/16/2011 5:12:39 PM	3/16/2011 5:13:54 PM	Completed	624_ICIS.xml	node_support@enfotech.com	f82ead0a-bfa1-418a-9006-a77cd41f0d82	2		
		3/16/2011 5:15:37 PM	3/16/2011 5:16:27 PM	Completed	625_ICIS.xml	node_support@enfotech.com	3b3f12c9-91ae-4217-88bb-0602b1ae3f21	2		
		3/16/2011 5:30:10 PM	3/16/2011 5:32:16 PM	Completed	626_ICIS.ZIP	node_support@enfotech.com	fce4ddd0-b912-4474-b93f-4a2feb21b8f9	2		

1 2 3

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EN Node ICIS Plug-in (Error Recovery)

- Process ICIS XML error reports in Node
- Track transaction
 - Total count
 - Success count
 - Fail count
- View message next to each rejected record

View ERROR File

Filter

Node Account: CPF

Select Error type: Limit Set

Result

Results 1 - 4 of 4

Permit Identifier	Permit Feat.	LSD	Monitoring Period End Date	OP CD	Error Code	Error Description
MO0024929	001	A		R	LS290	The earliest Initial Monitoring Date 12/01/2010 entered must be equal to the earliest Status Start D...
MO0024929	001	B		R	LS290	The earliest Initial Monitoring Date 04/01/2011 entered must be equal to the earliest Status Start D...
MO0024929	001	C		R	LS290	The earliest Initial Monitoring Date 10/01/2010 entered must be equal to the earliest Status Start D...
MO0024929	001	D		R	LS290	The earliest Initial Monitoring Date 09/01/2010 entered must be equal to the earliest Status Start D...

Close Report



Advances in Electronic Reporting Michigan eDMR

- System Demonstration
 - Presented by Tony Jeng, enfoTech & Consulting Inc.



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Making the Future of ICIS and Electronic Reporting a Reality

- OEI Exchange Network Grants:
 - Funding to states, territories and federally recognized Indian tribes to support the development of the Environmental Information Exchange Network related activities
 - The announcement of the availability of funds and soliciting of proposals and partial applications from applicants occurs through the Exchange Network Grant web page:
www.epa.gov/networkg



Making the Future of ICIS and Electronic Reporting a Reality

- OC FY2010 STAG Grants
 - EPA's OECA/OC FY2010 funds available for carrying out or supporting compliance assurance activities
 - 12 grant applications received to date
 - Applications are still undergoing review
 - Award announcements will be made after OC management has given their approval



Contact Information

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 - Kathy Dockery Dockery.Kathy@epa.gov



Questions

