



CMDP Lab Training

November 15, 2018

Miranda Kay Harper

Total Coliform, Groundwater, and Nitrate/Nitrite Rules Team Leader

Public Water Supply Section



CMDP Lab Training

Meeting number (access code): **642 667 438**

To set up webinar Audio use one of the following options:

Listen via computer speakers

Or

Listen via phone: **+1-415-655-0003** US TOLL

All participants will be muted for the duration of the presentation.

Please use the chat box to ask questions or request assistance.

Date: November 15, 2018

Presenter: Miranda K. Harper, RTCR, GWR and Nitrate/Nitrite Rules Team Leader
Public Water Supply Section



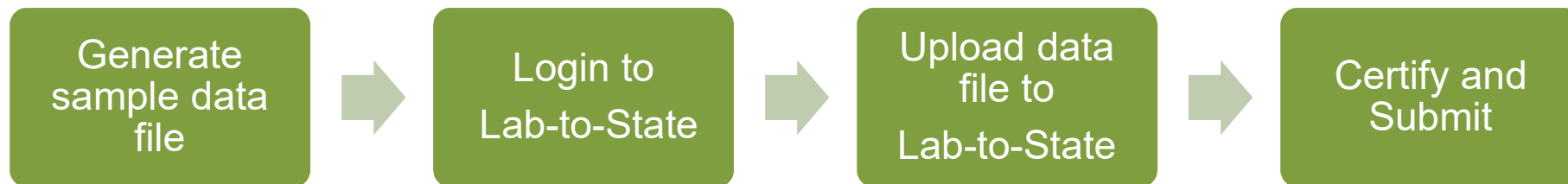
What is CMDP?

- CMDP: Compliance Monitoring Data Portal
- Created by EPA to facilitate the electronic reporting of compliance samples
- Intended Users:
 - Private Laboratory Users
 - State Primacy Agency Users
 - Water System Users*

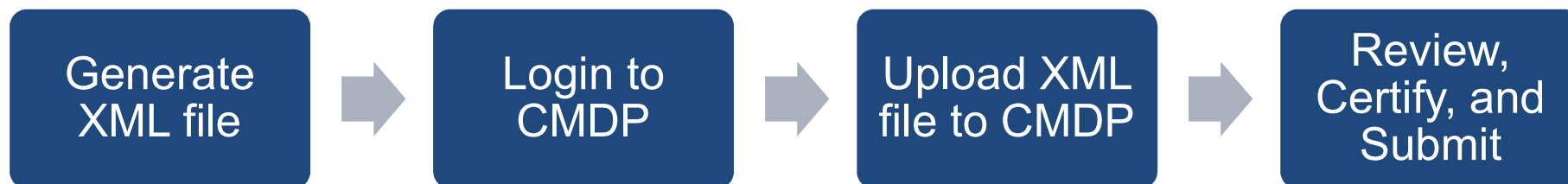
*Not yet implemented



Current Process



New Process w/ CMDP



Benefits of CMDP for Users

- Edit checks in CMDP provide error messages so mistakes can be corrected before attempting to upload the sample (sample files with a critical error cannot be accepted)

XML Submittal Validation Error Details

Category	Validation Category	Sample Identifier	Error Description
Chem/Radionuclides	Critical	{"wsId":"NC4392112","jobId":"6942","sampleCategory":"Chem/Radionuclides","facilityName":"chem_sample1","sampleCd":"37731_170807_01891","collectionDate":"2017-08-01"}	{"facSamplingPointId":"Invalid Facility Sampling Point Id.,"facilityId":"Invalid Facility Id."}

- Sample status in CMDP shows when the file has been received by the State

New Job using files	TCRSample_EDIT .xml	NC	Accepted by State
New Job using files	ChemSamples3.xml	NC	Submitted
New Job using files	ChemSamples4.xml	NC	Draft with Preparer
MyTestGroup		NC	Draft with Preparer
New Job using files	ChemSamples4.xml	NC	Draft with Certifier



“Accepted by State” Status

- An “Accepted by State” status code indicates that a certified XML file has been received by the State.
- In three cases, individual samples in the file may still be rejected by the state database when the file is received and shows as being “Accepted”.
 - 1) Laboratory is not certified for the method used to analyze the sample
 - 2) TCR schedule is not set up properly
 - 3) TCR field apName = A, and count > 0
- If samples are rejected, the lab will be notified through a report that will be emailed daily. The report will display the rejection reasons, or if no rejections occurred the report will be blank.



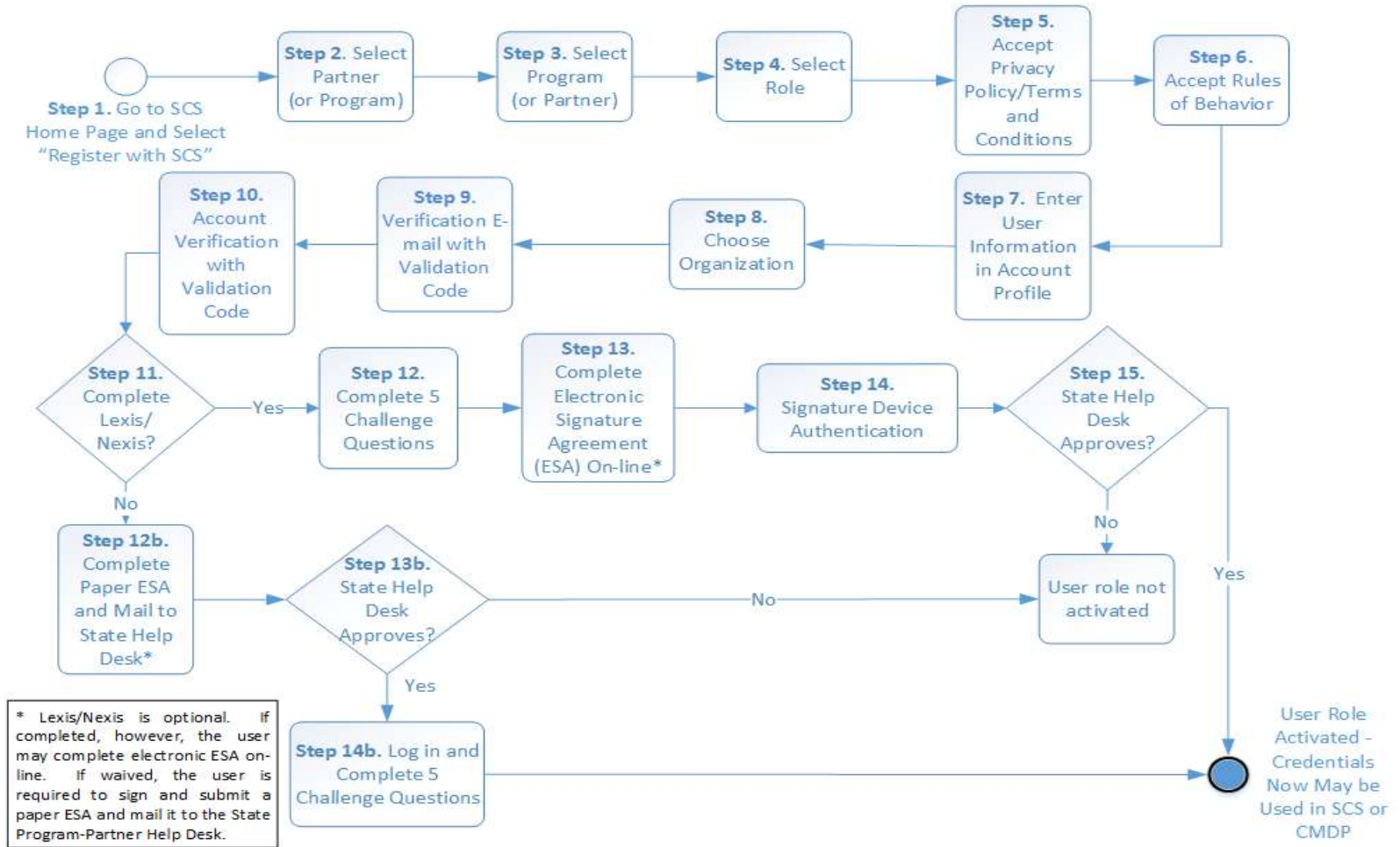
Transitioning to CMDP

- Laboratories will need to modify their existing applications
 - Output sample files will need to match the new CMDP XML file schema
 - CMDP Transition Deadline: **January 1, 2019**
 - Lab-to-State accounts will be disabled on February 1, 2019
- Users will need to create a SCS (Shared CROMERR Services) account to access CMDP
(CROMERR: “Cross-Media Electronic Reporting Rule”)



Creating a SCS Account

Open Registration begins at <https://encromerr.epa.gov>



Available CMDP User Roles

- 1) Private laboratory Administrator
 - Have rights to prepare, review, and certify samples
 - Recommend at least 2 for each lab
 - State administrator must approve the account before it can be activated
 - Must be established before certifiers, reviewers, and preparers can complete registration
- 2) Private lab Certifier
 - Have rights to prepare, review, and certify samples.
 - Must be sponsored by a laboratory administrator to create an account
- 3) Private lab Reviewer
 - Have rights to prepare and review samples. Cannot certify and submit.
 - Must be sponsored by a laboratory administrator to create an account
- 4) Private lab Preparer
 - Have rights to prepare sample files. Cannot review, certify, and submit.
 - Must be sponsored by a laboratory administrator to create an account



On-line Lexis/Nexis Identity Assurance

- Private Lab Administrator roles include the ability to electronically sign and submit Sample Jobs in the CMDP.
- In order to comply with the CROMERR's legal requirements, there are additional registration steps for this role.
- These steps include:
 - On-line Lexis/Nexis Identity Assurance
 - On-line Electronic Signature Agreement or paper Electronic Signature Agreement
 - Challenge Questions and Answers
 - Signature Device Authentication process
- Users should complete the on-line electronic signature agreement, if possible. If issues are encountered during this step, contact Eric Chai or Miranda Harper for information on how to complete the paper Electronic Signature Agreement.



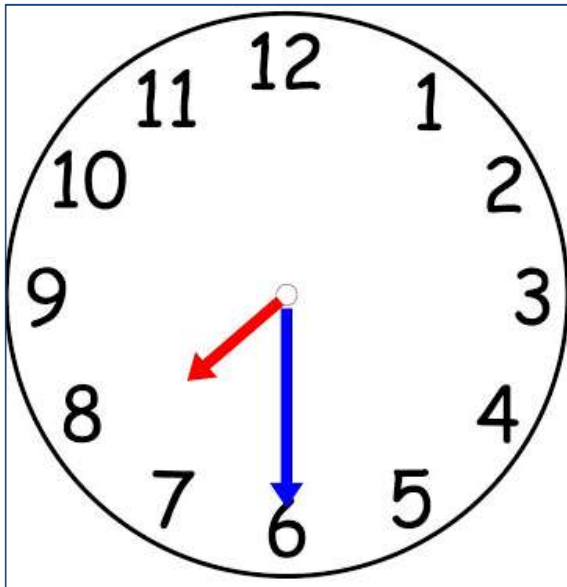
SCS Registration - Security Questions

Two sets of Security question will be created during the registration process:

1. Three Questions used for the SCS account
Used to unlock account if password is forgotten or expired
2. Five Questions used for the Lexis/Nexis Identity Assurance
Used to verify identity during sample certification and submission



Wait Time for Final Upload



Samples that are certified in CMDP will be uploaded to the SDWIS State Database every **30 minutes**


SCS Account Password

- User's password must be changed every **90 days!**
- The three security questions selected during the SCS account creation can be used in case the user forgets password





Demo Password Reset - SCS

<https://encromerr.epa.gov/>

 **EPA** United States Environmental Protection Agency

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 **SCS** Advanced Shared Services [Contact Us](#)



Log In

User ID

Password

[Log In](#) [Register with SCS](#)

Forgot your **Password** or **User ID**?
[Warning Notice and Privacy Policy](#)



CMDP Conversion

- TCR Samples:
 - sampleLocation: Sample collection address should be included
 - sampleComments: See CMDP Mapping R5 for more information
 - sampleCategoryName: Microbial (TC is not permissible)
 - sampleResultFields: See CMDP mapping **R9** for reporting residual
 - If apName = A (absent), then count must be zero or empty
- Chem Samples:
 - sampleLocation: Sample collection address should be included
 - sampleComments: See CMDP Mapping **R9** for more information
 - sampleCategoryName: Chem/Radionuclides (GE is not permissible)
- Composite Samples:
 - sampleCategoryName: Composite



Important Changes

- Laboratory will receive a daily report summarizing any rejections that occurred.
- XML fields are case sensitive. If the case does not match the schema, the sample file will receive critical error messages.
- Empty tags are not accepted by CMDP. Users will receive a critical error message if the XML file has an empty tag. Empty fields should be removed from the file.
- Certified files cannot be removed from CMDP, therefore Sample IDs cannot be reused if sample information needs to be amended and resubmitted. If sample needs to be resubmitted, add an extension to original sample ID
(Ex: original sample ID: PWS_12345,
new sample ID: PWS_12345A)

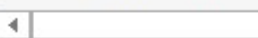


Daily Email Error Report: Sample Information

Row Count	Job Database Identifier	Requester Time Stamp	PWS Number	Facility ID	Sampling Point	Lab Sample Number	Sample Category	Comp Ind	Collection Date	Error Code	Error Desc
1	19469	5/17/2013	NC6025002	P01	LCR	37800042413-02	PB	Y	4/24/2013	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
2	19469	5/17/2013	NC6025002	P01	LCR	37800043013-10	PB	Y	4/30/2013	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
3	28269	12/13/2013	NC0425035	D01	B02	37800121013-02	GE	Y	12/10/2013	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
4	28269	12/13/2013	NC0425035	D01	B03	37800121013-03	GE	Y	12/10/2013	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
5	28269	12/13/2013	NC0425035	D01	B04	37800121013-04	GE	Y	12/10/2013	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
6	38839	7/2/2014	NC0416447	D01	BO1	37800070114-10	GE	Y	7/1/2014	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
7	84860	9/26/2016	NC0425035	D01	HHAA5	37800092116-22	GE	Y	9/21/2016	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)
8	84860	9/26/2016	NC0425035	D01	HHAA5	37800092116-24	GE	Y	9/21/2016	13	REJECT: Sampling Point -- Value supplied not found in database. (SAMPLE)

Sample Info

Result Info



Daily Email Error Report: Result Information

Row Count	Job Database Identifier	Requester Time Stamp	Completion Time Stamp	Pws Number	Collection Date	Analyte Code	Analysis Start Date	Analysis Comp Date	Analysis Method Code	Less Than Ind	Less Than Code	Detect Level	Detect Uom Code	Concentration	Conc Uom Code	Error Code	Error Desc	
1	1204	2/20/2009	2/20/2009	NC0416447	2/10/2009	2950	2/12/2009	2/12/2009	221	Y	MRL	0.001	MG/L			116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)	
2	1204	2/20/2009	2/20/2009	NC0416449	2/10/2009	2950	2/12/2009	2/12/2009	221	N				0.003	MG/L		116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
3	3317	2/19/2010	2/19/2010	NC0416447	2/1/2010	3014	2/1/2010	2/2/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
4	3317	2/19/2010	2/19/2010	NC0416447	2/1/2010	3100	2/1/2010	2/2/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
5	3317	2/19/2010	2/19/2010	NC0416449	2/1/2010	3014	2/1/2010	2/2/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
6	3317	2/19/2010	2/19/2010	NC0416449	2/1/2010	3100	2/1/2010	2/2/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
7	3317	2/19/2010	2/19/2010	NC0425035	2/2/2010	3014	2/2/2010	2/3/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)
8	3317	2/19/2010	2/19/2010	NC0425035	2/2/2010	3014	2/3/2010	2/5/2010	9223B								116	REJECT: Analysis Method Code -- Value supplied not found in database. (SAMPLE RESULT)

Sample Info

Result Info

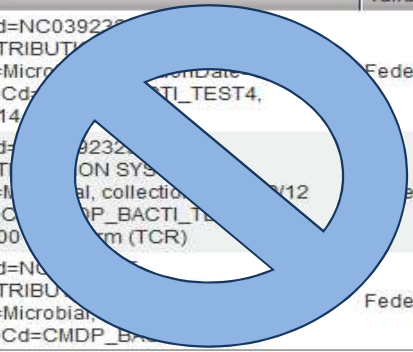


Navigation controls including a search box and a scroll bar.

Validation Error Messages

Federal Reporting Validation Results

Category	Sample Identifier	Validation Category	Error Description
Microbial	jobId=11049, wsId=NC039232, facilityName=DISTRIBUTION SYSTEM, sampleCategory=Microbial, collectionDate=12/12/2018, labSampleCd=CMDP_BACTI_TEST4, analyteName=3014	Federally Required or Conditionally Required	Missing Data for Fields [Volume Assayed]
Microbial	jobId=11049, wsId=NC039232, facilityName=DISTRIBUTION SYSTEM, sampleCategory=Microbial, collectionDate=12/12/2018, labSampleCd=CMDP_BACTI_TEST4, analyteName=3100	Federally Required or Conditionally Required	Missing Data for Fields [Volume Assayed]
Microbial	jobId=11049, wsId=NC039232, facilityName=DISTRIBUTION SYSTEM, sampleCategory=Microbial, collectionDate=12/12/2018, labSampleCd=CMDP_BACTI_TEST4, analyteName=3100	Federally Required or Conditionally Required	Missing Data for Fields [sampleReceivedDt, sampleVolume]




XML Submittal Validation Summary

Category	Total	Without Errors	With Errors
Microbial	4	3	1
Chem/Radionuclides	0	0	0
Cryptosporidium	0	0	0
Operational	0	0	0
Composite	0	0	0

XML Submittal Validation Error Details

Category	Validation Category	Sample Identifier	Error Description
Microbial	Critical	{"wsId":"NC4092128","jobId":"11049","sampleCategory":"Microbial","facilityName":"D01","sampleCd":"CMDP..."}	{"facSamplingPointId":"Invalid Facility Sampling Point Id."}

Demo Upload XML File

 **Compliance Monitoring Data Portal**

Home PWS Profiles Laboratory Profiles **Drinking Water Sample Jobs** Search Individual Samples System Administration

Job Maintenance View

Search Jobs


Job ID Created By Status From To File Name

Drinking Water Sample Jobs

Job ID	Sample Category	Description	File Name	Primacy Agency	St
<input type="checkbox"/> 6321	Microbial	TEST_Bacti_1		NC	Ac
<input type="checkbox"/> 6324	Microbial	TEST_BACTI_repeats		NC	Dre
<input type="checkbox"/> 6325	Microbial	TEST_Bacti_Positive		NC	Ac
<input type="checkbox"/> 6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Dre
<input type="checkbox"/> 6341		New Job using files	CMDP TEST FILE.xml	NC	Dre
<input type="checkbox"/> 6342	Chem/Radionuclides	DBPs		NC	Ac
<input type="checkbox"/> 6418		Contaminant Code Test		NC	Dre
<input type="checkbox"/> 6419	Chem/Radionuclides	Cont. Code Test		NC	Dre
<input type="checkbox"/> 6459	Chem/Radionuclides	wqp 06202017		NC	Ac
<input type="checkbox"/> 6553		New Job using files	TCRSample_EDIT .xml	NC	Dre
<input type="checkbox"/> 6624		New Job using files	ChemSamples3.xml	NC	Dre
<input type="checkbox"/> 6626		New Job using files	ChemSamples4.xml	NC	Dre



Demo Review and Certify File

 **Compliance Monitoring Data Portal**








Home PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration

Job Maintenance View


Search Jobs

Job ID Created By Status From To File Name

Drinking Water Sample Jobs

 Refresh  Create New Job  Send to Reviewer  Send to Certifier ** Certify and Submit to State**  Reject  Remove Download Samples

<input type="checkbox"/>	Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer
<input type="checkbox"/>	6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper
<input type="checkbox"/>	6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda Harper	06/02/2017	
<input type="checkbox"/>	6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper
<input type="checkbox"/>	6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda Harper	06/02/2017	
<input type="checkbox"/>	6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Morrison	06/05/2017	
<input type="checkbox"/>	6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Morrison	06/05/2017	Turner Morrison
<input type="checkbox"/>	6418		Contaminant Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017	
<input type="checkbox"/>	6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017	
<input type="checkbox"/>	6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda Harper	06/20/2017	Miranda Harper
<input checked="" type="checkbox"/>	6553		New Job using files	TCRSample_EDIT .xml	NC	Draft with Certifier	Miranda Harper	06/29/2017	Miranda Harper
<input type="checkbox"/>	6624		New Job using files	ChemSamples3.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017	
<input type="checkbox"/>	6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017	
<input type="checkbox"/>	6786		MyTestGroup		NC	Draft with Preparer	Miranda Harper	07/31/2017	

 **DEQ**
Department of Environmental Quality

Demo Sample Lookup Tool

<https://pws.ncwater.org/WSReports>



<https://pwstest.ncwater.org/WSReports>

Date Reminders

- Transition Date: **January 1, 2019**
- Lab-to-State accounts deactivated: **February 1, 2019**



Training Materials

<https://deq.nc.gov/about/divisions/water-resources/drinking-water/drinking-water-laboratories>

- Recording of Today's Training Webinar
- CMDP Sample Upload and Certification Instructions
- CMDP Role Registration Guide
- CMDP User Manual



Contact Information

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Questions

