

SDWARS4 Instructions for Public Water Systems and Laboratories

Office of Water (MS-140) EPA 815-B-18-003 June 2018

Table of Contents

Acronyms	iii
1. General Log-In Information	1
1.1 How to Register for a Central Data Exchange (CDX) Account	1
1.2 How to Log in to CDX/SDWARS4 for UCMR 4	1
2. Small Public Water System (PWS) Account Information	4
2.1 How to Get Started with a Small PWS Account	4
2.2 How to View Contacts for Small PWS Accounts	5
2.3 How to Review Inventory for Small PWS Accounts	5
2.4 How to Review Sampling Schedules for Small PWS Accounts	6
2.5 How to Review Laboratory Data for Small PWS Accounts	7
2.6 How to Review Zip Codes for Small PWS Accounts	9
2.7 How to Nominate a User for a CDX/SDWARS4 Account	11
2.8 SDWARS4 Need Help Document and Sitemap	13
3. Large Public Water System (PWS) Account Information	14
3.1 How to Get Started with a Large PWS Account	14
3.2 How to Add Contacts to Large PWS Accounts	15
3.3 How to Add Inventory to Large PWS Accounts	18
3.4 How to Review/Edit Inventory in Large PWS Accounts	23
3.5 How to Review Sampling Schedules for Large PWS Accounts	28
3.6 How to Review Analytical Data Submitted by the Laboratory for Large PWS Accounts	34
3.7 How to Add Zip Codes for Large PWS Accounts	38
3.8 How to Nominate a User for a CDX/SDWARS4 Account	39
3.9 SDWARS4 Need Help Document and Sitemap	41
4. Laboratory Account Information	42
4.1 How to Add/Update Laboratory Client List	42
4.2 How to Review Inventory/Schedule for Selected Clients	45
4.3 How to Upload a File with Analytical Results	47
4.4 How to Enter/Edit Data	55
4.5 How to Review Data	59
4.6 How to Change Notification Preferences	61
4.7 How to Nominate a User for a CDX/SDWARS4 Account	62
5. For More Information	65

i

Appendix	66
A. Example Small PWS Scheduled Sampling Reminder	66
B. Example Small PWS Results Notification Email	66
C. "Status" definitions for small PWS	67
D. Method Code-Analyte Code Relationship and MRLs	67
E. Large PWS Scheduling Reminder	71
F. Large System Data Elements Reminder	71
G. Example Large PWS Results Notification Email	72
H. UCMR 4 Inventory and Resampling for Laboratories	73
UCMR 4 Assessment Monitoring: AM 2	73
UCMR 4 Assessment Monitoring: AM 3	76
UCMR 4 Data Elements	77
I. "Status" definitions for large PWS	82
J. "Status" definitions for laboratories	82

Acronyms

AM	Assessment Monitoring
Br⁻	Bromide
CDX	Central Data Exchange
CRK	Customer Retrieval Key
D/DBPR	Disinfectants and Disinfection Byproducts Rules
DS	Distribution System
EP	Entry Point
EPA	Environmental Protection Agency
HAA	Haloacetic Acids
ID	Identification
MRL	Minimum Reporting Limit
MRS	Monitoring Review Sheet
NDR	No Data Reportable
PWS	Public Water System
QC	Quality Control
QHS	Quality HAA sample
SDWARS	Safe Drinking Water Accession and Review System
SEA	Sampling Event for Additional Contaminants
SEC	Sampling Event for the Cyanotoxins
SEH	Sampling Event for the HAAs
SR	Source Water
SVOCs	Semi Volatile Organic Compounds
тос	Total Organic Carbon
UCMR 4	Unregulated Contaminant Monitoring Rule 4

1. General Log-In Information

1.1 How to Register for a Central Data Exchange (CDX) Account

Access the Safe Drinking Water Accession and Review System (SDWARS4). To register to use CDX/SDWARS4, follow the link and enter your customer retrieval key (CRK) that you received in the mail or the CDX Help Desk:

- 1. Go to <u>CDX Pre-Registration</u> (http://cdx.epa.gov/preregistration/).
- 2. Enter the CRK that you received by mail or the CDX Help Desk.
 - All large public water systems (PWSs) that did not pre-register for SDWARS4 in 2016 and all randomly selected small PWSs should have received a CRK; if you lost or did not receive a CRK, please contact the CDX Help Desk at (888) 890-1995 or <u>helpdesk@epacdx.net</u>.
 - b. Labs received CRKs upon meeting the application and Proficiency Testing criteria for the fourth Unregulated Contaminant Monitoring Rule (UCMR 4) Laboratory Approval Program.

€PA	United States Environme	ntal Protection Agency	(
Home Abo	ut Recent Ann	ouncements	Terms and Conditions	Help			
	X Pre–Regis	tration					Contact U
Please enter Help Desk at	the Customer Rei 888-890-1995 or	rieval Key you re (970) 494-5500	eceived in the text boy for International calle	x below. If y ers.	ou have any question	ns or issues, cont	act the CDX
Customer R	etrieval Key						
EPA Home Privz	rcy and Security Notice	Accessibility	CDX Help Desk: 888-69 About CDX Frequen	0-1995 (970) 44 tty Asked Questio	4-5500 for International calles	ns Contact Us	

- 3. Click the green "Continue" button.
- 4. Follow the directions to complete registration (create your User Identification (ID) and Password).

1.2 How to Log in to CDX/SDWARS4 for UCMR 4

Proceed to the CDX homepage (<u>https://cdx.epa.gov/CDX</u>) and type in the User ID and Password that you created during registration and press the "Log In" button to gain access to CDX.

- 1. Under the "Log In" button, there are options to help you reset your Password or retrieve your User ID if you have forgotten them.
- 2. If you are having trouble logging in or have locked yourself out after too many failed login attempts, the screen will prompt you to contact the CDX Help Desk at (888) 890-1995 or <u>helpdesk@epacdx.net</u>.



Welcome

Welcome to the Environmental Protection Agency (EPA) Central Data Exchange (CDX) - the Agency's electronic reporting site. The Central Data Exchange concept has been defined as a central point which supplements EPA reporting systems by performing new and existing functions for receiving legally acceptable data in various formats, including consolidated and integrated data.

Warning Notice and Privacy Policy

3. Click on the SDWARS4 hyperlink (shown below) to access your account.

ne Ab	out	Recent Announcements	Terms and Conditions	FAQ	Help		
	entr	al Data Exchange	History				(Log out
		Service	5	0° Manage	CD	X Service Availability	
<u>Status</u>	\$	Program Service Name UCMR4: Unregulated Contami		ole 🗘	See the sta	atus for all program services	
						News and Updates	
					No news/u	pdates.	

- 4. After selecting the SDWARS4 hyperlink, your application profile settings will pop up. You will see your organization name and ID number in the sections for Organization Name and Program Client ID. If the information is incorrect, contact CDX Help Desk at (888) 890-1995 or <u>helpdesk@epacdx.net</u>.
- 5. Click the "Proceed" button.



Small Public Water System (PWS) Account Information How to Get Started with a Small PWS Account

- Next you will see your notification letter. Please read it carefully and acknowledge the notification by clicking the "Accept" button at the bottom of the page. After accepting, you can again access your letter through clicking on the "Notification Letter" link on the navigation panel. From there you can print it.
- 2. Your notification letter will identify your PWS's specific sampling requirements for Assessment Monitoring contaminants based on your size category, water type and other characteristics. Below is an example notification letter for a small system selected for cyanotoxin assessment monitoring (AM3).

COX > Notification Letter
otification Letter
Below is a signed copy of the notification letter.
8
NOTERATION (ETTED
January 3, 2017
Unregulated Contaminant Monitoring for Small Water Systems
ir Public Water System:
purpose of this letter is to notify your public water system (PWS) of its monitoring requirements under the revision to the Unregulated Contaminant Monitoring Rule (UCMR4). The i Environmental Protection Agency (EPA) published the final rule detailing the upcoming monitoring of unregulated contaminants at PWSs on December 20, 2016, establishing a new of contaminants to be monitored and the conditions for that monitoring. This rule benefits public health by providing EPA and other interested parties with scientifically valid data on th onal occurrence of selected contaminants in drinking water. This dataset is one of the primary sources of information on occurrence, levels of exposure and population exposure EPA is to develop regulatory decisions for contaminants in the public drinking water supply.
Ser the UCMR4, randomly selected community water systems and non-transient, non-community water systems serving 10,000 or fewer persons are selected to monitor for egulated contaminants. Your system has been selected for Assessment Monitoring for cyanotoxins.
et should your PWS do during UCMR4 monitoring? A will supply your system with sampling kits and instructions for your use. In some situations, State personnel will do the sampling for your system. Unless you are advised that this is case, you will be responsible for collecting the samples per EPA's instructions. EPA will pay for the cost of shipping the samples to an EPA-designated laboratory as well as the cost hysis. The analytical results will be reported electronically directly to EPA's Safe Drinking Water Access and Reporting Systems (SDWAR5) by the laboratory. Additionally, community are systems are required to address their UCMR monitoring results in their annual Consumer Confidence Report (CCR) wherever unregulated contaminants are detected ps.//www.spa.gov/ccr.)
ere can 1 find more information about UCMR4? A recommends that you review the complete rule and supporting reference materials addressing UCMR4 at https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-
The 'Revisions to the Unregulated Contaminant Monitoring Rule (UCMR4) for Public Water Systems and Announcement of Public Meeting' [EPA-HQ-OW-2015-0218; FRL-9956- 71-OW]: UCMR4 implementation fact sheets: 'Metals, Pesticides, SOCs, and Alcohols', 'Haloacetic Acids (HAAs)', 'Cyanotoxins', and 'General Information';
Uutreach materials and announcements for stakenologic meetings and trainings.
cts information please refer to the UCMR Data Summary document.
s notification letter is being sent to you as the official representative of this PWS. If someone else at your PWS needs this information, such as the plant operator, please vide them with a copy of this letter. Your cooperation in meeting these requirements is appreciated.
questions regarding SDWARS or CDX, please contact the CDX Help Desk at 1-888-890-1995. For implementation or general questions, please contact the UCMR Message Center 00-549-1581 or UCMR4@glec.com. Thank you for your cooperation.
Accept Cancel
SDWARS Version: 4. Release 1.9

3. Having accepted the notification letter, you will be able to access your navigation panel on the left side of the screen which allows you to navigate to the different sections of SDWARS4.

2.2 How to View Contacts for Small PWS Accounts

There are two PWS contacts (official and technical):

- a. An "official" contact refers to the person at your PWS who can function as the official spokesperson for the UCMR activities (i.e., administrative representative).
- b. A "technical" contact refers to the person at your PWS who is responsible for technical aspects of your UCMR activities, such as sampling and reporting (i.e., alternate representative).

	nvironmental Protection Agency		Logged in as	PWS Log Cut	
	MyCDX > PWS Home > Contacts PWS Contacts Click the name of the contact to vie	w additional information about this PWS representative.		* /	
Inventory	Contact Name	Contact Email	Affiliation/Organization	Contact Type	-
Schedule - Review Data - Zip Code - Noninate Usor - Notification Letter - Need Help? - SDWARS4 Stemap - SDWARS4 Stemap		No Contacts fou	nd for this PWS.		

Contacts were entered on your behalf by EPA's UCMR implementation contractor based on the information you provided on the Monitoring Review Sheet (MRS). In some instances, this information was provided by your State. If you wish to add contacts or update contact information, contact the UCMR 4 Message Center at (800) 949-1581 or email UCMR Message Center (UCMR4@glec.com). You can download or print your contact information using the icons on the right (). Maintaining accurate contact information in SDWARS4 is critical to ensure timely notifications and correspondence are received by those key individuals responsible for UCMR compliance at the PWS.

2.3 How to Review Inventory for Small PWS Accounts

1. Inventory information was entered on your behalf by EPA's UCMR implementation contractor based on the information you provided on the MRS. In some instances, this information was provided by your State. Select "Inventory" from the navigation panel (on the left side of the page) to review your existing inventory. Ensure that all required sample locations for UCMR 4 are included; all entry points (EPs) to the distribution system for AM1 [metals, pesticides, alcohols and semi-volatile organic chemicals (SVOCs)] or AM3 (cyanotoxins), and for those PWSs monitoring UCMR 4 haloacetic acids (HAAs) and the indicators total organic carbon/bromide (TOC/Br⁻) for AM2, your Disinfectants and Disinfection Byproducts Rule (D/DBPR) distribution system (DS) and source water (SR) locations. UCMR 4 HAA monitoring requires PWSs to collect HAA samples at the D/DBPR locations where HAA5 is sampled for compliance monitoring. Note that consecutive connections (purchased finished water) are not required to have SR locations for the HAA indicators.

	налы Ртонски Адилоу			
1	AyCDX > PWS Home > PWS I	Inventory		
	Review Your Inve	entory		
	PWS: 990000087 / Test	PWS #87		
	> Filter by			
	Facility ID: 10001 Facility	Name: Facility IN 01 F	acility Type: IN Water Type: SW	
	Sampling Required	Sample Point ID	Sample Point Name	Sample Point Typ
	Sampling Required Yes Facility ID: 50001 Facility	Sample Point ID IN01 Name: Facility EP 01	Sample Point Name SP IN 01 Facility Type: TP Water Type: SW	Sample Point Tys
	Sampling Required Yes Facility ID: 50001 Facility Sampling Required	Sample Point ID IN01 Name: Facility EP 01	Sample Point Name SP IN 01 Gacility Type: TP Water Type: SW Sample Point Name	Sample Point Typ SR Sample Point Typ
	Sampling Required Yes	Sample Point ID	Sample Point Name SP IN 01	Sample
	Sampling Required Yes Facility ID: 50001 Facility Sampling Required Yes	Sample Point ID IN01 Name: Facility EP 01 Sample Point ID EP01	Sample Point Name SP IN 01 SP IN 01 Sacility Type: TP Water Type: SW Sample Point Name SP EP 01	Sample Point
	Sampling Required Yes Facility ID: 50001 Facility Sampling Required Yes Facility ID: 90001 Facility	Sample Point ID IN01 Name: Facility EP 01 // Sample Point ID EP01 Name: Facility DS 01 //	Sample Point Name SP IN 01 actility Type: TP Water Type: SW Sample Point Name SP EP 01 facility Type: DS Water Type: SW	Sample Point Ty SR Sample Point Ty EP
	Sampling Required Yes Facility ID: 50001 Facility Sampling Required Yes Facility ID: 90001 Facility Sampling Required	Sample Point ID IN01 Name: Facility EP 01 // Sample Point ID EP01 Name: Facility DS 01 // Sample Point ID	Sample Point Name SP IN 01 SP IN 01 Sample Point Name SP EP 01 Facility Type: DS Water Type: SW Sample Point Name Sample Point Name	Sample Point Ty SR Sample Point Ty EP Sample Point Ty

2.4 How to Review Sampling Schedules for Small PWS Accounts

- 1. Select "Schedule" from the navigation panel.
- 2. Click the "Select Monitoring Type" and choose from the drop-down menu.
 - a. You can also download or print your schedules using the icons on the right. 📥 🔒
 - b. Depending on your system size, water type and other characteristics, you could see different Assessment Monitoring (AM) schedule options: AM1 applies to metals, pesticides, alcohols and SVOCs; AM2 applies to the HAAs and the indicators (TOC/Br⁻); and AM3 applies to the cyanotoxins. Small PWSs can have the following schedules/monitoring requirements: AM1 and AM2, AM1 only, or AM3.

	nvironmental Protection Agency	Logged in as	PWS:	Log Out
CDX	MyCDX > PWS Home > PWS Schedule Review Your Schedule			
A PWS	Your PWSs must conduct data for multiple monitoring types. Click Select Monitoring Type to che Select Monitoring Type	sose the schedule you wish to review.		
-Inventory	AM1 - Assessment Monitoring for Metals, Pesticides, Alcohols, and SVOCs AM2 - Assessment Monitoring for HAAs AM3 - Assessment Monitoring for cvanotoxins			
Schedule/Data Elements — Review Data				

You will be able to view your inventory and all scheduled sampling events. Below is an example for the AM1 monitoring requirement and all scheduled sampling events.

			47 (2017) - 47 (Second III
CDX	MyCDX > PWS Home > PI	WS Schedule > AM1					
	Review Your S	chedule					
PWS	Click the date specified occur within 5-7 months from the spec	for Sample Event 1 (SE1) if you wish to view the sample schedul in the original sampling. Surface water systems must sample eve	le for the corresponding location. (For groundwater samp ery 3 months.)	le points, th	e secon	d samplir	ng may
- Contacts	PWS: 990000087 / Te	est PWS #87					
- Inventory							
Schedule	> Filter by						Q
Design Data	1 C C C C C C C C C C C C C C C C C C C						
- Norman Capita							
-Zip Code							* 6
	Facility ID: 50001 Fac	ality Name: Facility EP 01 Facility Type: TP Water Type: SI	w				¥ (
– Zip Code – Nominate User – Notification Letter	Facility ID: 50001 Fac	ality Name: Facility EP 01 Facility Type: TP Water Type: St Sample Point Name	W Sample Point Type	SEAT	SEA2	SEA3	SEA4
- Zip Code - Nominate User - Notification Letter - Need Help?	Facility ID: 50001 Fac Sample Foint ID EP01	sility Name: Facility EP 01 Facility Type: TP Water Type: St Sample Point Name SP EP 01	W Sample Point Type EP	SEA1 Feb 2018	SEA2 May 2018	SEA3 Aug 2018	SEA4 Nov 2018
– Zip Code – Nominate User – Notification Letter – Need Help? – SDWARS4 Sitemap	Facility ID: 50001 Fac Sample Point ID EP01	sility Name: Facility EP 01 Facility Type: TP Water Type: St Sample Fourt Name SP EP 01	W Sample Point Type EP	SEA1 Feb 2018	SEA2 May 2018	SEA3 Aug 2018	SEA4 Nov 2018
- Zip Code - Zip Code - Notification Letter - Notification Letter - Need Help? - SDWARS4 Sitemap	Facility ID: 50001 Fac Sample Point ID EP01	sility Name: Facility EP 01 Facility Type: TP Water Type: St Sample Point Name SP EP 01	W Sample Point Type EP	SEA1 Feb 2018	SEA2 May 2018	SEAJ Aug 2018	SEA4 Nov 2018
Zip Code Xoninate User Notification Letter Need Help? SDWARS4 Sitemap BMyCDX	Facility ID: 50001 Fac Sample Point ID EP01	sility Name: Facility EP 01 Facility Type: TP Water Type: St Sample Point Name SP EP 01	W Sample Point Type EP	SEA1 Feb 2018	SEA2 May 2018	SEA3 Aug 2018	SEA4 Nov 2018
-Zip Code -Nominate User -Notification Letter -Need Help? -SOWARS4 Sitemap MyCDX	Facility ID: 50001 Fac Sample Point ID EP01	sility Name: Facility EP 01 Facility Type: TP Water Type: St Sample Point Name SP EP 01	W Sample Point Type EP	SEA1 Feb 2018	SEA2 May 2018	SEAJ Aug 2018	SEA4 Nov 2018

If you need to request a change in your schedule, please contact the <u>UCMR 4 Message Center</u> (<u>UCMR4@glec.com</u>). The small PWSs with CDX/SDWARS4 accounts will receive a SDWARS generated email notification at the beginning of their scheduled sampling month (see Appendix A).

2.5 How to Review Laboratory Data for Small PWS Accounts

A laboratory contracted with EPA to analyze small PWS samples will upload analytical results to SDWARS4. After EPA reviews and approves the analytical results, they become viewable to the small PWS, State and EPA. All contacts with email addresses associated with the small PWS account will receive a SDWARS generated email notification when sampling results are available to view (see Appendix B).

	Invironmental Protection Agency			Logged in as	PWS:	Log Out
CDY	MyCDX > PWS Home > Review Data					
CUA	Review Data					
24	O You can search using the laboratory's San	nple ID or by conducting an Advanced Search. The	Sample ID search function allows you to look	for a specific laboratory Samp	ole ID.	
2	The Advanced Search function lets you limit	your search by using one or more of the checkboxes	under the Advanced Search section. Both th	e Collection Start and End Da	te must be in the MM	MDD/YYYY format
ntacts	Click Search to display up to 250 analytical re	sults. If your search exceeds 250 results, you must r	fine your search criteria to limit the array of d	iata. Or click Download Resul	ts to export all the d	ata of your specifie
entory	search.					
redule	Sample ID					
view Data						
Code		OR -				
minate User						
ification Letter	O Advanced Search					
ed Help?	Inventory					
WARS4 Sitemap	PWS	Select PWS		¥		
	Facility	Select Facility				
	Sample Point	Select Sample Point				
	Method	Select Method				
	Analyte	Select Analyte				
	Monitoring Type	Select Maniforing Type				
	Sample Event					
	Analytical Desult > MDI	Select Sample Point				
		Concentration				
	Show Me Occurrences					
	Status	Select status +				

- 2. On the navigation panel select Review Data. To find any analyzed and submitted sample kit data, you can search by a specific Sample ID. A wildcard (%) can be used to search for all sample IDs for your system. Alternatively, you can use an advanced search by providing various pieces of information to narrow down the search.
- 3. Once the Sample ID is found, you can view inventory information for the sampled location in the upper portion of the page followed by analytical results.
- 4. Select each sampling kit ID on the left-hand side of the screen. The analyte results can be viewed by clicking on each method. Reported values equal to or greater than the minimum reporting level (MRL) are displayed in µg/L. Results less than the MRL are denoted with a checked box under the "MRL (µg/L)" column. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event. Note that you can collapse each method by clicking on the minus symbol in the upper right corner of each methods section or expand information using a plus sign (red circle below). If the data was not reviewed by the State (note: state review is not required, entirely at the discretion of the state), it will have a hold status of EPA Approved/State Hold (red arrow below). This screen requires no action from small PWSs. For more information about each "Status" see Appendix C.
- 5. Refer to the "<u>Reference Concentrations for the Fourth Unregulated Contaminant Monitoring Rule (UCMR 4)</u>" for health-based values that provide context for the detection of a UCMR 4 contaminant.

CDX	MyCDX > PWS Home > Re	wiew Data > Review/Approv	e Analytical Results Data/Reports						
WS	Review/Approv 0	ve Analytical Re	sults Data/Reports						+ [
Sector Sector		Sample ID	102882P		PWS		990000087 - Test	PWS #87	
winnery	102582P (9900081)	Facility	50001: Facility EP 01		Sample Poin	e 1	EP01: SP EP 01		
schedule		Sample Event	SEA1		Collection D	ate	3/5/2018		
beview Data		Monitoring Type	AM1						
îp Code									0
lominate User		EPA Method 541							0
lotification Letter									\cup
leed Help?		EDA Marked 200 B							
DWARS4 Sitemap		EPA Method 200.6							•
NCDX		Analyte	Sample Analysis Type	Value	or)	MRL (µg/L	Additional Value	Status	
		1053: germanium		1.374 µg/L				EPA Approve / Hold	State
		1032 manganese				~	-	EPA Approve / Hold	State

6. You can also view laboratory QC data for each analytical result by clicking on each individual analyte to generate a pop-up screen. An example below shows the QC for a test sample for the Germanium contaminant (Analyte 1053) under EPA method 200.8 for AM1 (see Appendix D).

CIPA United States E	ndrovenertal Protocti	Quality Control Re	sulta				Value 1
CDX	MyCDX > PI	bbreviations in fro	int of Analyte Names corres	pond to IS - Internal Standard	l, Surr - Surrogate.		
	Review	QC Type	Analysis Date	Analyte Name	Recovery	Units	Acceptance Range (%)
		FSQC	3/6/2018	IS indium	92	%	60-125
			3/6/2018	IS yttrium	92	5	60-125
	102582P	LFSM	3/6/2018	germanium	95	%	NA
		LFSMD	3/6/2018	germanium	95	%	NA
		CCC	3/6/2018	indium	90	5	60-125
			3/6/2018	indium	92	- %	60-125
Normenta Liner			3/6/2018	yttrium	96	%	60-125
			3/6/2018	yttrium	102	%	60-125
Notification Letter			3/6/2018	germanium	110	%	50-150
Need Help?			3/6/2018	germanium	94	5	85-115
		LFB	3/6/2018	indium	89	5	60-125
			3/6/2018	yttrium	111	%	60-125
			3/6/2018	germanium	110	%	50-150
		LRB	3/6/2018	germanium	<0.1	pgt	NA
			3/6/2018	indium	99	%	NA
			3/6/2018	yttrium	95	%	NA
		(SS. SPWS 3002b)					Close

Below is a list of QC types and explanation of their properties:

- **CCC** = continuing calibration check; a calibration standard containing the contaminant, the internal standard, and the surrogate analyzed to verify the existing calibration for those contaminants.
- **FSQC** = field sample quality control; internal standards and/or surrogates in the field sample.
- LFB = laboratory fortified blank; an aliquot of reagent water fortified with known quantities of the contaminants and all preservation compounds.
- LRB = laboratory reagent blank; an aliquot of reagent water treated exactly as a field sample, including the addition of preservatives, internal standards, and surrogates to determine if interferences are present in the laboratory reagents, or to other equipment.

- LFSM = laboratory fortified sample matrix; a UCMR field sample with a known amount of the contaminant of interest and all preservation compounds added.
- LFSMD = laboratory fortified sample matrix duplicate; duplicate of laboratory fortified sample matrix.
- QCS = quality control sample; a sample prepared with a source external to the one used for initial calibration and CCC. The QCS is used to check calibration standard integrity.
- **QHS** = quality HAA; HAA sample collected and submitted for quality control purposes.
- **SUR** = surrogate standard; a standard that assesses method performance for each extraction.
- **IS** = internal standard; a standard that measures the relative response of contaminants.

2.6 How to Review Zip Codes for Small PWS Accounts

1. Zip codes were entered on your behalf by EPA's UCMR implementation contractor based on the information you provided on the MRS. In some instances, this information was provided by your State. Select "Zip Code" on the navigation panel (on the left side of the page).

2. If you need to add or edit zip codes for your account, please contact the <u>UCMR 4 Message Center</u> (<u>UCMR4@glec.com</u>).

	invironmental Protection Agency		Logged in as	PWS.	Log Out
PWS Contacts Inventory Schedule Review Data Zp Code Nominate User Notification Letter Need Help? SDWARS4 Sitemap	MyCOX > PWS Home > Zip Codes Zip Codes Zip Code No zip codes have been entered.				
		SDWARS Version: 4, Release 3,0 (SS SPWS 1105)			

3. You can download or print your zip codes using icons (📥 🖨) on the right-hand corner.

2.7 How to Nominate a User for a CDX/SDWARS4 Account

This step is optional. The account holder can nominate an authorized representative of their choice to review data in SDWARS4. It is important to read and understand the terms and conditions of this agreement. The account holder can nominate more than one person.

- 1. Select "Nominate User" from the navigation panel.
- 2. Complete every field marked with an asterisk* and click "Nominate" at the bottom of the page to create a CRK (customer retrieval key) for the nominee.

\$EPA (1996) 5100 51	wironmental Protection Agency		Logged in as	PWS:	Log Out
CDX	MyCDX > PWS Home > Nominate PWS User Nominate a PWS User () You must complete every field marked with a	n *. You must click Nominate to generate a CRK			
 PWS Contacts Inventory Schodule Review Data -Zip Code Nonrinate User Need Help? SDWWRS4 Stammap MyCDX 	Nominate a PWS User You must complete every field marked with a First Name" Last Name" Organization Name" Registrant's Work Malling Address 1* Registrant's Work Malling Address 2 City" State" Zip Code" Phone" Email* Terms And Conditions By nominating this individual, the nominator abid - data register during the 1956 Anardm - advection the nomine of program of the 1956 Anardm - advection the nomine of program of the 1956 Anardm - advection the nomine of program of the 1956 Anardm - advection the nomine of program (LGM K) - advection that the nomine of program of the 1956 Anardm - advection the nomine of program of the 1956 - advection that the nomine of program of the 1956 - advection that the nomine of the nominator advection of the offer of the 2 program of the system of the 2 program of the system of the offer of the nomine of the nomination of the nume - larger to make this notification us a their of designated account and protect it from pro- - darger to make this notification us a their of designated account and protect it from pro- - darger to nomine the official purposes consent to these terms. - Privacy Statement	In *. You must click Nominate to generate a CRX	and/or report Unregulated Safe Drinking Water Acce DTIONS DTIONS at 1-858-890-1995. This r hich is for authorized use ystem may be monitored, any person, whether auth trad Data Exchange site a for law.	4 Contaminant Mon solon and Review 3 o interact with COX notification allows C only. Unauthorized recorded, read, co horized or unauthor and for updating an all or otherwise tran	toring Rule (UCMR) bystem (SD/WARS), I on bahalf of the PWS, DX to deactivate the access or use of this pired, constitutes
	Nominate Reset Form	gister: March 18, 2002 (Volume 67, Number 52)[[Page 12010-12013]			
		SDWARS Version: 4, Release 3.0			

3. Once you click "Nominate" you will see a confirmation page with a message at the top of the screen reading: "You have nominated a representative for your PWS" (see below).

4. The top portion of the confirmation page will show the nominee information and a uniquely assigned CRK for the nominee.



- 5. You will need to review the instructions, warning notice and privacy statement.
- 6. Print out the CRK and registration instructions for the nominee.

2.8 SDWARS4 Need Help Document and Sitemap



Large Public Water System (PWS) Account Information How to Get Started with a Large PWS Account

- Once you have logged into SDWARS4 and clicked "Proceed" on the Application Profile Settings pop-up, you will see your notification letter. Please read it carefully, and acknowledge the notification by clicking the "Accept" button at the bottom of the page. After accepting, you can always access your letter through clicking on the "Notification Letter" link on the navigation panel. From there you can print it.
- 2. Your notification letter will identify your PWS's sampling requirements to monitor for all Assessment Monitoring contaminants, or a portion of them based on your size category, water type and other characteristics. Below is an example notification letter for a large system required to monitor for all UCMR 4 contaminants.

NOTIFICATION LETTER January 3, 2017
RE: Unregulated Contaminant Monitoring for Surface Water (SW) and Ground Water Under the Direct Influence of Surface Water (GWUDI) Systems Serving over 10,000 Persons
Dear Public Water System:
The purpose of this letter is to notify your public water system (PWS) of its monitoring requirements under the revision to the Unregulated Contaminant Monitoring Rule (UCMR4). The U.S. Environmental Protection Agency (EPA) published the final rule detailing the upcoming monitoring of unregulated contaminants at PWSs on December 20, 2016, establishing a new list of contaminants to be monitored and the conditions for that monitoring. This rule benefits public health by providing EPA and other interested parties with scientifically valid data on the national occurrence of selected contaminants in drinking water. This dataset is one of the primary sources of information on occurrence, levels of exposure and population exposure EPA uses to develop regulatory decisions for contaminants in the public drinking water supply.
Under the UCMR4, all community water systems and non-transient, non-community water systems serving more than 10,000 persons must participate in Assessment Monitoring (AM). Our records indicate that your surface water system must monitor for all List 1 contaminants: metals, pesticides, semi- volatile organic chemicals (SOCs), alcohols (AM 1), haloacetic acids (HAAs) (AM 2), and cyanotoxins (AM 3).
 What must your PWS complete in SDWARS before December 31, 2017? Similar to reporting under UCMR3, PWSs will use the Central Data Exchange (CDX) (<u>https://cdx.epa.gov/</u>) to access the updated version of the Safe Drinking Water Accession and Review System (SDWARS4). PWSs are required to: enter your official and technical contact information; review and, if necessary, update your sample location data by adding missing locations (e.g., Stage 1 and Stage 2 Disinfectants and Disinfection
 Byproduct Rules sampling locations for the HAAs), indicating ineligible locations or editing basic information about the locations; and review and, if you wish, revise your monitoring schedule assigned by the EPA.
What must your PWS do during UCMR4 monitoring? Your PWS must ensure that samples are properly collected, packaged and shipped to a UCMR4 EPA approved laboratory. Your PWS is also responsible for providing the data elements required for each sampling location (e.g., disinfection type, treatment type etc.) in SDWARS. Once data are posted to SDWARS by your laboratory, your PWS will have 60 days to review and act upon these results. If you choose not to review these results in this time frame, they will be considered final. Additionally, community water systems are required to address their UCMR monitoring results in their annual Consumer Confidence Report (CCR) whenever unregulated contaminants are detected (<u>https://www.epa.gov/ccr</u>).
Where can I find more information about UCMR4?
EPA recommends that you review the complete rule and supporting reference materials addressing UCMR4 at https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule .
 The "Revisions to the Unregulated Contaminant Monitoring Rule (UCMR4) for Public Water Systems and Announcement of Public Meeting" [EPA-HQ-OW-2015-0218; FRL-9956–71-OW];
 UCMR4 implementation fact sheets: Metals, Pesticides, SOCs, and Alcohols (AM 1), Haloacetic Acids (HAAs) (AM 2), Cyanotoxins (AM 3) and General Information;
 EPA approved laboratories for UCMR4 (the list will be updated as additional laboratories are approved); Outreach materials and announcements for stakeholder meetings and trainings.
Analytical results from UCMR are publically available in the National Contaminant Occurrence Database (NCOD); for a summary of the NCOD results, tips for querying NCOD, and health effects information please refer to the UCMR Data Summary document.
This notification letter is being sent to you as the official representative of this PWS. If someone else at your PWS needs this information, such as the plant operator, please provide them with a copy of this letter. Your cooperation in meeting these requirements is appreciated.
For questions regarding SDWARS or CDX, please contact the CDX Help Desk at 1-888-890-1995. For implementation or general questions, please contact the UCMR Message Center at 1-800-949-1581 or UCMR4@glec.com. Thank you for your cooperation.
Accept Cancel

3. Having accepted the notification letter, you will be able to access your navigation panel (red arrow below) which allows you to navigate to the different sections of SDWARS4.

	wironmental Protection Agency		Logged in I	as PWS:	Log Out
PWS -Contacts	MyCDX > PWS Home > Contacts PWS Contacts All PWSs must have an "Official" contact definer Specify additional contacts as "Other" contact types contact. Click the edit icon to revise the information	d as the administrative representative for the PWS . Edit or delete these contacts using the appropriat for that contact. Click the delete icon to remove th	and a "Technical" contact that may e links any time you experience chr at contact.	be contacted as an alternate anges in personnel. Click Ad	e representative. d Contact to include a
- Inventory - Schedule/Data	SDWARS until you assign a Technical and Officia	intrinediatery. It you have just deleted either of these il contact.	e, you musi add a new contact to co	imply with OCMP44. Tou can	not proceed in
Elements	Add Contact				* 🖯
- Review Data	Contact Name	Contact Email	Affiliation/Organization	Contact Type	Actions
—Zip Code		No data available in	table	-	
- Nominate User		No Contacts found for the	his PWS.		
- Notification Letter					
- Need Help?					
SDWARS4 Sitemap					
🚜 мусрх					

3.2 How to Add Contacts to Large PWS Accounts

- 1. As indicated by the red box on the "PWS Contacts" page, you must add two PWS contacts (official and technical) before you can navigate to another section (e.g., Inventory).
 - a. An "official" contact refers to the person at your PWS who can function as the official spokesperson for the UCMR activities (i.e., administrative representative).
 - b. A "technical" contact refers to the person at your PWS who is responsible for technical aspects of your UCMR activities, such as sampling and reporting (i.e., alternate representative).
 - c. You can specify additional contacts as "other."
 - d. You may edit or delete these contacts at any time as personnel change, but you must always have an official and technical contact in SDWARS4 to proceed further.

2. To begin adding contacts, click "Add Contact."

SEPA United States En	vironmental Protection Agency		Logged in a	as PWS:	Log Out
CDX	MyCDX > PWS Home > Contacts PWS Contacts				
A PWS	All PWSs must have an "Official" contact define Specify additional contacts as "Other" contact types contact. Click the edit icon to revise the information	d as the administrative representative for the PWS Edit or delete these contacts using the appropriate for that contact. Click the delete icon to remove that	and a "Technical" contact that may a links any time you experience cha at contact.	be contacted as an alternate r anges in personnel. Click Add	epresentative. Contact to include a
— Inventory — Schedule/Data	You must assign a Technical and Official contact i SDWARS until you assign a Technical and Officia	immediately. If you have just deleted either of these I contact.	, you must add a new contact to co	omply with UCMR4. You cannot	t proceed in
Elements	Add Contact				* 8
-Zip Code	Contact Name	Contact Email No data available in t	Affiliation/Organization	Contact Type	Actions
- Nominate User		No Contacts found for th	is PWS.		
Notification Letter					
— Need Help?					
SDWARS4 Sitemap					
🚜 MyCDX					

- 3. Provide requested information for PWS contacts. The fields marked with an asterisk* (first and last name, contact type, affiliation/organization, phone number and email) are mandatory. All contact information is confidential and is only available to regulatory authorities.
- 4. Check the "Receive Auto Email Notification(s)" boxes to have the contact receive scheduling reminders; notifications when your lab has posted data; and notifications regarding missing reporting requirements (such as disinfectant type, treatment information, disinfectant residual and cyanotoxin information; Appendices E, F, and G).
- 5. Click "Save Changes."
 - a. Once you click on "Save Changes," a green bar will appear at the top of the page confirming that a contact has been added (see next page).
 - b. You can download or print your contact information using the icons on the right (📥 🖴).
 - c. Use the pencil icon () under "Actions" to edit this contact's information.

6. Use the trash can icon (i) under "Actions" to delete the contact. Since you must always have an official and technical contact in SDWARS4, click "Add Contact" and repeat steps 2 through 5 of this section to add a contact. Maintaining accurate contact information in SDWARS4 is critical to ensure timely notifications and correspondence are received by those key individuals responsible for UCMR compliance at the PWS.

Add PWS Contact	×
You must complete every	field marked with an * All contact information is confidential and is only available to
regulatory authorities. You mi	ust click Save Changes for the information to be added to the database. Edit Receive Auto
Email Notification(s) as nec	essary.
First Name*	John
Last Name*	Doe
Contact Type*	Official
Affiliation / Organization*	Water System #81
Mailing Address 1	
Mailing Address 2	
City	Cincinnati
State	•
Zip Code	45220
Phone*	(513) 569-7864 ext.
Email"	John.Doe@email.com
Receive Auto Email Notification(s)	 Scheduling Reminders Lab Posted Data Notifications Any Missing Additional Data Notifications
(SS.PWS.1102b)	Save Changes Close

	vironmental Protection Agency		Logged in as	PWS:	Log Out
CDX	MyCDX > PWS Home > Contacts PWS Contacts				
♣ PWS ⊢Contacts	All PWSs must have an "Official" contact of representative. Specify additional contacts as personnel. Click Add Contact to include a contact.	defined as the administrative representative f "Other" contact types. Edit or delete these or ntact. Click the edit icon to revise the informa	or the PWS and a "Technical" of ontacts using the appropriate lin ation for that contact. Click the o	contact that may be contacted inks any time you experience of delete icon to remove that con	as an alternate changes in ntact.
- Inventory	Contact has been added.				×
- Schedule/Data Elements	Add Contact				* 0
- Review Data	Contact Name	Contact Email	Affiliation/Organization	Contact Type	Actions
-Zip Code	Example Contact	exampleemail@xyz.com	Example Water System	Official	e 🗊
-Nominate User	Example Tech Contact	examplecontacttech@xyz.com	Example Water System	Technical	₽
- Notification Letter					
- Need Help?					
SDWARS4 Sitemap					
nycdx					
					_
		SDWARS Version: 4, Release 3.0 (SS.PWS.1102)			

3.3 How to Add Inventory to Large PWS Accounts

- 1. Select "Inventory" from the navigation panel.
- 2. Ensure that all required sample locations for UCMR 4 are included; all EPs to the distribution system for AM1 [metals, pesticides, alcohols and SVOCs] and/or AM3 (cyanotoxins), and for those PWSs monitoring UCMR 4 HAAs and the indicators (TOC/Br⁻) for AM2, your D/DBPR DS and SR locations. UCMR 4 HAA monitoring requires PWSs to collect HAA samples at the D/DBPR locations where HAA5 is sampled for compliance monitoring. Note that consecutive connections (purchased finished water) are not required to have SR locations for the HAA indicators.
- 3. For an overview of inventory and resampling requirements for AM2 and AM3 please see Appendix H.

	vironmental Protection Agency			Logged in as	PWS: Log Ou
CDX	MyCDX > PWS Home > PW	/S Inventory			
ODIE	Designate and I	Review Your I	nventory		
PWS Contacts Inventory	If you wish to load your i select which locations will ge Facility to add inventory. Yoy Note: Please ensure all require those PWSs monitoring HAA sample is not required for a second secon	nventory from SDWARS et loaded. Click either the pu must click Save Chan iired sample locations for As, their Stage 2 Disinfec consecutive connection (3, click Upload/Import Inventory drop-down and s Facility ID or Sample Point ID to edit the invento ges for the information to be added to the database UCMR4 are included in your inventory below. This tants and Disinfection Byproducts Rule distribution 100% purchased).	select Upload Facilities is ony you specified. Click Ao e. (more) Second Second Second is includes all entry points in system sites and intake(& Sample Points . You will be dd Facility or Add SP to Exist to the distribution system and (s) prior to treatment. An intake
Schedule/Data	To have inventory removed	from the list, please cont	act the UCMR Sampling Coordinator and provide y	your PWSID, the affected	facility ID & name and, if neces
Elements	the sample point ID & name	as well as the reason for	removal.		
Elements Review Data	> Filter by	as well as the reason for	removal.		
Elements Review Data Zip Code	> Filter by	as well as the reason for	removal.		
Elements Review Data Žip Code Nominate User	Add Facility Add SP to Existin	as well as the reason for	removal.		*
Elements Review Data Zip Code Nominate User Notification Letter	the sample point ID & name Filter by Add Facility Add SP to Existin Facility ID: 00105 Facil	as well as the reason for 19 Facility <i>lity Name:</i> Test Facility	Facility Type: OT Water Type: SW		*
Elements Review Data Zip Code Nominate User Notification Letter Need Help?	the sample point ID & name > Filter by Add Facility Add SP to Existin Facility ID: 00105 Facil Sampling Required	as well as the reason for 19 Facility lifty Name: Test Facility Sample Point ID	Facility Type: OT Water Type: SW Sample Point Name		Sample Point Type
Elements Review Data Zip Code Nominate User Notification Letter Need Help? SDWARS4 Sitemap	the sample point ID & name Filter by Add Facility Add SP to Existin Facility ID: 00105 Facil Sampling Required Yes	as well as the reason for sg Facility lity Name: Test Facility Sample Point ID SM4	Facility Type: OT Water Type: SW Sample Point Name Sample EP 1		Sample Point Type EP
Elements Review Data Zip Code Nominate User Notification Letter Need Help? SDWARS4 Sitemap	the sample point ID & name > Filter by Add Facility Add SP to Existin Facility ID: 00105 Facility Sampling Required Yes Yes Yes	as well as the reason for hg Facility lifty Name: Test Facility Sample Point ID SM4 022	Facility Type: OT Water Type: SW Sample Point Name Sample EP 1 Sample EP 2 Sample EP 2		Sample Point Type EP EP
Elements Review Data Zip Code Nominate User Notification Letter Noted Help? SDWARS4 Sitemap	the sample point ID & name Filter by Add Facility Add SP to Existin Facility ID: 00105 Facil Sampling Required Yes Yes Yes Yes	as well as the reason for Ing Facility Nature: Test Facility Sample Point ID SM4 022 SM2	Facility Type: OT Water Type: SW Sample Point Name Sample EP 1 Sample EP 2 Sample EP 3		Sample Point Type EP EP EP

- You have three options to input inventory from the "Inventory" homepage in the above screenshot: IMPORTANT: Once the closed entry period for inventory is enacted, the PWS must contact the UCMR Sampling Coordinator (ucmr_sampling_coordinator@epa.gov) to add inventory.
 - Option 1: Add EP inventory from SDWARS3. The SDWARS3 import option will only provide EP locations. If you are subject to the UCMR 4 HAA and TOC/Br⁻ monitoring and are using the "import from SDWAR3" option, you must go back to the inventory homepage after importing your EP locations and use either the bulk upload or manual option to input your D/DBPR DS and SR locations.
 - **Option 2: Add inventory via bulk upload**. If you choose this option first, the SDWARS3 import option will no longer be available.
 - **Option 3: Add inventory manually**. If you choose this option first, the SDWARS3 import option will no longer be available.

Option 1: Add EP inventory from SDWARS3. On the inventory homepage, click on the "Upload/Import Inventory" dropdown menu on the right and select "Import from SDWARS3".

- a. Select which locations are still applicable to UCMR 4 by marking the checkboxes.
- b. Click "Next" to review the available inventory.
- c. Once you verify all your facilities and sample points, click "Import" to transfer inventory to SDWARS4. If your system is subject to UCMR 4 HAA monitoring, you must go back to the inventory homepage and bulk upload or manually add your D/DBPR DS and SR locations.

view you	ur inventory	before it is added t	o the databas	e.			
All	Facility ID	Facility Name	Facility Type	Water Type	Sample Point ID	Sample Point Name	Sample Point Type
	00001	Treatment Plant #1	TP	GW	EP001	EP from TP #1	EP
8	00002	Treatment Plant #2	TP	GW	EP002	EP from TP #2	EP

Option 2: Add inventory via bulk upload. On the inventory homepage, click on the "Upload/Import Inventory" dropdown menu on the right and select "Upload Facilities & Sample Points".

- a. To create a file for a bulk upload, click the "file structure" link (light blue functional text). The pop-up describes the file format requirements.
- b. Create a file for a bulk upload using the exact listed format criteria. Once your inventory file is complete and in the correct format, select "Browse" to upload. Please contact the <u>UCMR 4 Message Center</u> (<u>UCMR4@glec.com</u>) if you need assistance.
- c. As a reminder, if your system is subject to UCMR 4 HAA monitoring, include your D/DBPR DS and SR locations in addition to your EP locations.



(SS.PWS.1170)

 Must be a tab delin Must contain a hea Columns must be i 	nited text file ider row with the exact n the exact order show	column names in below	listed below
Column Name	Data Type	Required	Notes
FacilityId	Numeric (5)	Yes	Must be exactly 5 numeric digits
FacilityName	String (50)	Yes	
FacilityType	String (2)	Yes	Use 2-digit codes only; CC (Consecutive Connection) DS (Distribution System) IN (Intake (Source Water)) OT (Other) SS (Sampling Station) TP (Treatment Plant)
WaterType	String (2)	Yes	Use 2-digit codes only; GU (Groundwater UDI Surface Water) GW (Groundwater) MX (Mixed) SW (Surface Water)
SamplePointId	String (25)	Yes	
SamplePointName	String (50)	Yes	

Option 3: Add inventory manually. On the inventory homepage, click the "Add Facility" button. Create new facilities and sample points by completing every field marked with an asterisk*. Click "Save Changes" for the information to be added to the database. Please contact the UCMR 4 Message Center (<u>UCMR4@glec.com</u>) if you need assistance.

You must complete ever database.	Id Sample Point field marked with an (*). You must click Save Changes for the information to be adde	ed to the
Facility ID*		
Facility Name*		
Facility Type*	· · ·	
Water Type*	· · ·	
Sample Point ID*		
Sample Point Name*		
Sample Point Type	- Select Facility Type -	
	Save Changes	Cancel
(SS.PWS. 1103b)		

Also, on the inventory homepage, click the "Add Sample Point to Your Facility" button. This allows a user to add new sample point to an existing facility by completing every field marked with an asterisk*. Click "Save Changes" for the information to be added to the database.

Add Sample Point to Y	′our Facility	×
You must complete ev	ery field marked with an (*).	
Select an existing Facility must create it by clicking A	to which the sample point (SP) will be added. If the facility you are looking for is not listed, you dd Facility link on the previous page.	í
You must click Save Chan	ges for the information to be added to the database.	
Facility*	· · · · · · · · · · · · · · · · · · ·	
Sample Point ID*		
Sample Point Name*		
Sample Point Type	- Select Facility -	
(SS.PWS.1103c)	Save Changes Cancel	

3.4 How to Review/Edit Inventory in Large PWS Accounts

IMPORTANT: Once the closed entry period for inventory is enacted, the PWS must contact the UCMR Sampling Coordinator (<u>ucmr_sampling_coordinator@epa.gov</u>) to edit inventory.

	MyCDX > PWS Home > PWS	Inventory			
CDX	Designate and R	eview Your Inv	rentory		
PWS Contacts inventory	If you wish to load your invi- locations will get loaded. Click click Save Changes for the inf Note: Please ensure all require HAAs, their Stage 2 Deinfecta connection (100% purchased). To how investors compared for	entory from SDWARS3, cl either the Facility ID or Si ormation to be added to th d sample locations for UC nts and Disinfection Bypro	ck Upload/Import Inventory drop-down and select Uploa smple Point ID to adt the inventory you specified. Click Ad e database. (more) MR4 are included in your inventory below. This includes all ducts Rule distribution system sites and intake(s) prior to tr an UCMR Sympton Constitutes and provide and PMSID.	d Facilities & Sample Points . Id Facility or Add SP to Existin entry points to the distribution s eatment. An intake sample is no the effected facility. ID & come a	You will be able to select which g Facility to add inventory. You mu ystem and for those PWSs monitori t required for a consecutive
Schedule/Data Sements	name as well as the reason for	removal.	a conscion para concentra and provide your rinera,	one and cores money to be many a	ing a meetaboury, and adding to point in
teview Data	> Filter by				0
āp Code					
ominate User	Add Facility Add SP to Existing I	acility			*
lotification Letter	Facility ID: 12345 Facility	Name: Test Facility Fa	acility Type: CC Water Type: GU		
leed Help?	Sampling Required	Sample Point ID	Sample Point Name		Sample Point Type
DWARS4 Sitemap	Yes	SP12345	Test SP 1.1		EP
YCDX					
	Facility ID: 34431 Facility	Name: FacilityDS1 Fa	cility Type: DS Water Type: GW		
		-			
	Sampling Required	Sample Point ID	Sample Point Name		Sample Point Type
	Yes	DS11	SPDS11		DS
					Upload/Import Inventory -

- 2. A "Yes" under "Sampling Required" signifies an applicable sample location for UCMR 4 monitoring (red box above). If you need to request a facility or sample point be removed from your inventory, please contact the UCMR Sampling Coordinator (<u>ucmr_sampling_coordinator@epa.gov</u>). The active hyperlink for the UCMR Sampling Coordinator will prompt an email window with the correct email address. Please provide your PWS ID, the affected facility ID & name and, if necessary, the sample point ID & name as well as the reason for removal.
- 3. You can use the "Filter by..." function (appears below the red text on the screenshot for 3.4.1) to search your inventory using any of the fields shown below.
 - i. Note, on the screenshot above, the "Filter by..." function is collapsed. Click on the blue arrowhead icon to the left of the text to unhide the search options.

~ Filter by			Q
Facility ID:	Facility Name:	Facility Type:	Water Type:
Sample Point ID:	Sample Point Name:	Sample Point Type:	• Sampling required?
Clear Filters			

4. You can also directly click the light blue functional text either to edit or review existing Facility (red boxes) or Sampling Point (green boxes) inventory.

A Hyperwish to load your in	eview rour IIIV	ick Unload/Import Inventory doe-down and select Unload Eacilit	les & Sample Doints Vou will be able to select whit			
locations will get loaded. Click	n you wan to load your inventory from SUMMESS, click Upload/import inventory drop-down and select Upload Facilities & Sample Points. You will be able to select which locations will get loaded. Click either the Facility ID or Sample Point ID to edit the inventory you specified. Click Add Facility or Add SP to Existing Facility to add inventory. You must					
Note: Please ensure all require MANs. their Stans 2 Disident	ed sample locations for UC	MR4 are included in your inventory below. This includes all entry po	sints to the distribution system and for those PWSs m			
connection (100% purchased	res and bismection bypro	unces trave assumption system sites and manifelist brow to meaniterin	An intere sample is not required for a consecutive			
To have inventory removed for name as well as the reason for	im the list, please contact th r removal	he UCMR Sampling Coordinator and provide your PWSID, the affect	tted facility ID & name and, if necessary, the sample $\boldsymbol{\mathfrak{g}}$			
> Filter by						
Add Facility Add SP to Existing	Facility					
Facility ID 12345 Facili	y Name: Test Facility Fa	acility Type: CC Water Type: GU				
Sampling Required	Sample Point ID	Sample Point Name	Sample Point Typ			
Nap Yes	SP12345	Test SP 1.1	EP			
Facility ID <mark>r</mark> 24431 Facili	y Name: FacilityCC1 Fa	scility Type: CC Water Type: GW				
Sampling Required	Sample Point ID	Sample Point Name	Sample Point Typ			
Yes	EP11	SPEP11	EP			
Facility ID 34431 Facili	y Name: FacilityDS1 Fa	cility Type: DS Water Type: GW				
		Sample Point Name	Sample Point Typ			
Sampling Required	Sample Point ID					

5. To edit Facility inventory, enter all the required information below and click "Save Changes." You can change the name of the Facility as well as Facility Type and Water Type using available dropdown menus (see below). You cannot change the Facility ID. However, if you need to change other pieces of inventory, please contact the UCMR Sampling Coordinator (ucmr_sampling_coordinator@epa.gov).

≵FPA							Investors
Contract States Cont	Ed	lit Facility					×
CDX	MyCOX > P	You must con	plete every field marked with	an (*).			
	Design	lake appropriate	changes to your facility. You	must click Save Chan	ges to add the informati	on to the database.	
A PWS	O If you we will get loade						
Contacts	Changes for Note: Please	PWS: 990000	083 / Test PWS #83				
Inventory	(100% purch	acility ID	12345				
	To have street	acility Name*	Test Facility				
Elements	F	acility Type*	CC - Consecutive Conr	ection •			
Review Data	> Filter by	Vater Type*	CC. Commission Day				
Zip Code	Add Finally		OT - Other SS - Sameling Station				
NetWorks Later	Facility IL c	(5 PWS 1103d)	TP - Treatment Plant			Save Changes	Cancel
Nased Hale?		-		A	_	_	_
SPAADS4 Shaman	Sampon	g Required	Semple Point ID	Sample Point Neme	8		
			3F 12343	INSCOUNT OF THE			
gg MyCDX							
Sepa United States Environment	ironmental Protectic	_	_			_	Logged in as
	ironmental Protectic EC	lit Facility	-		-		Looned in as
CDXC	ronmental Protectic MyCDX > P	lit Facility You must con	nplete every field marked with	an (*).	-		Loosed in as
	MyCDX > P Design () If you wit	fit Facility You must con lake appropriate	nplete every field marked with changes to your facility. You r	an (*). nust click Save Chan	ges to add the information	on to the database.	Lonned in as X
CDXC PWS	MyCDX > P Design Will get loade Changes fo	III Facility You must con lake appropriate	nplete every field marked with changes to your facility. You r	an (*). nust click Save Chan	ges to add the information	on to the database.	Loosed in as
MyCOX For EPA United States Envi CDX PWS Contacts	MyCDX > P Design	tit Facility You must con lake appropriate PWS: 990000	nplete every field marked with changes to your facility. You i 1083 / Test PWS #83	an (*). nust click Save Chan	ges to add the information	on to the database.	Loonert in as
COntacts Co	MyCDX > P Design Miget loads Changes for Note: Please HAAs, their S (100% purch	iit Facility You must con lake appropriate PWS: 990000 acility ID	nplete every field marked with changes to your facility. You 083 / Test PWS #83 12345	an (*). nust click Save Chan	ges to add the information	on to the database.	Lonned in as
MCCX CCDXC CCDXC PWS Contacts Inventory Schedule/Data Elements	MyCDX > P Design Mill get loade Changes for Note: Please HAAs, their i (100% purch To have inve name as we	tit Facility You must con lake appropriate PWS: 990000 acility ID acility Name*	nplete every field marked with changes to your facility. You i 0083 / Test PWS #83 12345 Test Facility	an (*). nust click Save Chan	ges to add the information	on to the database.	Looned in as
Contacts Inventory Schedule/Data Elements Review Data	MyCDX > P Design Miggt loads Changes for Note: Please HAAs, their 3 (100% purch To have inve name as wel Filter by	tit Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type*	nplete every field marked with changes to your facility. You 0883 / Test PWS #83 12345 Test Facility CC - Consecutive Conr	an (*). nust click Save Chan	ges to add the information	on to the database.	I eccedito as
CONTRACT CONTRACT CONTRACTS Inventory Schedule/Data Elements Review Data Zip Code	MyCDX > P Design Mill get loade Changes for Note: Please HAAs, their 3 (100% purch To have inve name as we > Filter by W	It Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type* Vater Type*	nplete every field marked with changes to your facility. You i 1083 / Test PWS #83 12345 Test Facility CC - Consecutive Conr GU - Groundwater UDI	an (*). nust click Save Chan ection v Surfac v	ges to add the information	on to the database.	Looost in as
Contacts Co	MyCDX > P Design Might loads Changes for Note: Please HAAs, their: 1 (100% purch To have inve name as wei Filter by W Add Facility	iit Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type* Vater Type*	nplete every field marked with changes to your facility. You 1083 / Test PWS #83 12345 Test Facility CC - Consecutive Conr GU - Groundwater UDI CW - Conventue	an (*). nust click Save Chan ection • Surfac •	ges to add the information	on to the database.	I eccention as
MCDX CON CONCOM CONTROL CONTROL PWS -Contacts -Inventory Schedule/Data Elements Review Data -Zip Code Nominate User Nominate User Notification Letter	MyCDX > P Design M f I you wi will get loade Changes for Note: Please HAAs, their 3 (100% purch To have inve name as we F To have inve name as we Add Facility IL (s	It Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type* Vater Type*	nplete every field marked with changes to your facility. You i 2083 / Test PWS #83 12345 Test Facility CC - Consecutive Conr GU - Groundwater UD GW - Groundwater UD GW - Groundwater UD GW - Groundwater UD GW - Groundwater UD SW - Surface Water	an (*). nust click Save Chan ection • Surfac •	ges to add the information	on to the database.	Cancel
MCCX COX COX COX CONTACTS COntacts Contacts Inventory Schedule/Data Elements Review Data Zip Code Nominate User Notification Letter Notification Letter Need Help?	MyCDX > P Design Might Gade Changes for Note: Please HAAs, their th	It Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type* Vater Type* Vater Type*	nplete every field marked with changes to your facility. You of 0083 / Test PWS #83 12345 Test Facility CC - Consecutive Conr GU - Groundwater UD GW - Groundwater UD GW - Groundwater UD GW - Groundwater MX - Mixed SW - Surface Water Sample Point ID	an (*). nust click Save Chan ection • Surfac • Surface Water Sample Point Name	ges to add the information	on to the database.	Cancel
MCDX COX CONTROL CONTROL PWS COntacts Inventory Schedule/Data Elements Review Data Zip Code Nominate User Notification Letter Need Help? SDWARS4 Sitemap	MyCDX > P Design Miget loads Changes for Note: Please HAAs, their S (100% purch To have inve name as wel Filter by Add Facility Facility IL Sampling	Iit Facility You must con lake appropriate PWS: 990000 acility ID acility Name* acility Type* Vater Type* SS PWS 1103d) g Required (es	nplete every field marked with changes to your facility. You of 2083 / Test PWS #83 12345 Test Facility CC - Consecutive Conr GU - Groundwater UDI GW - Groundwater UDI GW - Groundwater UDI GW - Groundwater UDI GW - Groundwater UDI SW - Surface Water Sample Point ID SP12345	an (*). must click Save Chan ection Surfac Surfac Surfac Sample Point Name Test SP 1.1	ges to add the information	on to the database.	Cancel

6. To edit Sample Point information, click on the Sample Point ID hyperlink and enter all the required information below and click "Save Changes." You can only change the Sample Point Name. However, if you need to change other pieces of inventory, please contact the UCMR Sampling Coordinator (<u>ucmr_sampling_coordinator@epa.gov</u>).

	onmental Protectio						Logged in as Y
		Edit Sample P	oint				×
CDX	MyCDX > Pt	You must co	mplete every field mark	ed with	an (*).		
	Design	**The name can	be anything up to 50 ch	aracter	ð.		
🕂 PWS	If you wis will get loade Changes for	You must click Sa	ave Changes for the inf	ormatio	n to be added to the database.		ir a
-Contacts	Note: Please						
-Inventory	(100% purch	PWS: 99000 Facility: 123	0083 / Test PWS #8 345 - Test Facility	3			
—Schedule/Data Elements	To have inve name as wel	Sample Point ID)	SP12	345		a
-Review Data	> Filter by	Sample Point Na	ame*	Tes	t SP 1.1		
—Zip Code		Sample Point Ty	vpe	EP			
-Nominate User	Add Facility						
Notification Letter	Facility IL	(SS.PWS.1103e)				Save Changes	Cancel
—Need Help?	Sam	pling Required	Sample Point ID	-	Sample Point Name		
SDWARS4 Sitemap		Yes	SP12345		Test SP 1.1		
🚯 MyCDX							

Once the changes are made, click Save Changes. A green bar will appear at the top of your homepage confirming changes (see below).



3.5 How to Review Sampling Schedules for Large PWS Accounts

- 1. Select "Schedule/Data Elements" from the navigation panel.
- 2. Click the "Select Monitoring Type" drop-down menu and select a monitoring requirement to view the inventory and schedule. Depending on your system size, water type and other characteristics, you will see a combination of the following AM schedule options: AM1 applies to metals, pesticides, alcohols and SVOCs; AM2 applies to the HAAs and TOC/Br; and AM3 applies to the cyanotoxins.

IMPORTANT: After the closed entry period for schedule is enacted, the PWS must contact the UCMR Sampling Coordinator (<u>ucmr_sampling_coordinator@epa.gov</u>) to change their schedule. Please provide your PWS ID, the affected facility ID & name and, if necessary, the sample point ID & name as well as the reason for the schedule change.

	Environmental Protection Agency	Logged in as	PWS:	Log Out
CDX	MyCDX > PWS Home > PWS Schedule Review Your Schedule			
H PWS	Your PWSs must conduct data for multiple monitoring types. Click Select Monitoring Type to choose the Select Monitoring Type	schedule you wish to review.		
	AM1 - Assessment Monitoring for Metals, Pesticides, Alcohols, and SVOCs AM2 - Assessment Monitoring for HAAs			
Schedule/Data Elements	AM3 - Assessment Monitoring for cyanotoxins			
-Review Data				

3. You can also download or print your schedules using the icons on the right. 📥 🔒

For each sampling event you will find a blue button with the designated month and year of sampling for each of your sample points. Click the date specified for Sample Event 1 to enter comments or enter data element responses. Comments should be entered to denote valid reasons for not collecting a sample (e.g., location is inactive/closed). The data elements should be entered as close to time of collection as possible.

In the screenshot below for AM1, there are no data elements so the only option in the list is to enter comments.

CDX	MyCDX > PWS Home > PV Review Your So Click the date specified	/S Schedule > AM1 Chedule for Sample Event 1 (SE1) if you wish to ec	tit the sample schedule for the corre	sponding location. A	M1 monitoring re	quirements sho	uld only b	e able to add
PWS Contacts Inventory	 Should allo cyanotoxin indicators and tr Filter by 	w entry of comments, disinfectant types, d eatment information.	isintectant residual types, and treatr	nent information. AN	//3 should allow e	ntry of comment	s, disinted	Q
Schedule/Data Elements	Monitoring Requiren	nent: AM1 🔶						
- Review Data - Zip Code - Nominate User	Facility ID: 12345 Fac	ility Name: Test Facility Facility Type:	CC Water Type: GU					7 9
- Notification Letter	Sample Point ID	Sample Point Name	Sample Point Type	SEA1	SEA2	SEA3	SE	A4
- Need Help? - SDWARS4 Sitemap	SP12345	Test SP 1.1	EP	Mar 2020 Enter Comm	Jun 2020 ents	Sep 2020		Dec 2020
MyCDX	Facility ID: 24431 Fac	ility Name: FacilityCC1 Facility Type: (CC Water Type: GW					
	Sample Point ID	Sample Point Name	Sample Point Type	SEA1	SEA2		SEA3	SEA4
	EP11	SPEP11	EP	Mar 2020	Se	p 2020		
					611.2			

Enter a comment in the box n the database.	ext to the sampling event and select Save	Changes button for the updates to be adde
Facility: 12345 / Test Facili Sample Point: SP12345 / Test Facility Type: CC Water Type: GU Sample Point Type: EP Monitoring Requirement:	ty rest SP 1.1 AM1	
Sampling Event	Date	Comment
Sampling Event 1	Mar 2020	
Sampling Event 2	Jun 2020	
Sampling Event 3	Sep 2020	
Sampling Event 4	Dec 2020	

4. Click "Save Changes." This will bring you back to the "Review Your Schedule" screen. A green bar will appear at the top of your homepage confirming changes (see below).



5. Under Schedule/Data Elements, select AM2 to view schedules for the HAAs and TOC/Br⁻ sampling. For AM2 DS locations, you have the option to enter a relevant comment, enter disinfectant type(s) used for each sample point, disclose disinfection residuals and select treatment information (see below). For all HAA sampling events (SEH#) after SEH1, you can copy previous SEH information for each data element if everything has remained the same.

	Environmental Protection Agency			Logged in as	PWS:		Log Out
CDX	MyCDX > PWS Home > I	PWS Schedule > AM2					
A PWS	Click the date specifie only be able to add comm entry of comments, disinf	CREQUIE ed for Sample Event 1 (SE1) if you v tents. AM2 should allow entry of cor ectant types, cyanotoxin indicators a	vish to edit the sample schedule mments, disinfectant types, disin and treatment information.	for the corresponding fectant residual types,	location. AM1 monito and treatment inform	oring require nation. AM3	ements should should allow
- Contacts	> Filter by						Q
Schedule/Data	Monitoring Reguir	ement AMZ					
Elements — Review Data — Zip Code	Facility ID: 34431 F	acility Name: FacilityDS1 Facilit	y Type: DS Water Type: GW				* 6
Elements — Review Data — Zip Code — Nominate User	Facility ID: 34431 Fi	acility Name: FacilityDS1 Facilit Sample Point Name	y Type: DS Water Type: GW Sample Point Type	SEH1	SEH2	SEH3	seh4
Elements Review Data Zip Code Nominate User Notification Letter Need Help?	Facility ID: 34431 Fi Sample Point ID DS11	acility Name: FacilityDS1 Facilit Sample Point Name SPDS11	y Type: DS Water Type: GW Sample Point Type DS	SEH1 Mar 2020	SEH2 Sep 2020	SEH3	SEH4

a. Under Disinfectant Types, you can select multiple disinfectants from the drop-down list that are used at a sample point location. If your disinfectant type is not listed below, please mark OTHD (other...).

All of the disinfectants/oxidants that have	been added prior to the entry point to the distribution system. Please choose
all that apply from the dropdown and select Sa	IVE Changes button for the updates to be added to the database.
Facility: 34431 / FacilityDS1 Sample Point: DS11 / SPDS11 Facility Type: DS Water Type: GW Sample Point Type: DS Monitoring Requirement: AM2	
Select all that apply	None selected
	PEMB: Permanganate
	HPXB: Hydrogen peroxide
	CLGA: Gaseous chlorine CLOE: Offsite Generated Hypochlorite (stored as a liquid form)
SS.PWS.1104b)	CLON: Onsite Generated Hypochlorite CLON: Onsite Generated Hypochlorite
	CAGC: Chloramine (formed with gaseous chlorine)
	CAOF: Chloramine (formed with offsite hypochlorite)
	CAON: Chloramine (formed with onsite hypochlorite)
	CLDB: Chlorine dioxide
	OZON: Ozone
	OZON: Ozone ULVL: Ultraviolet light
	 OZON: Ozone ULVL: Ultraviolet light OTHD: Other types of disinfectant/oxidant

b. Under Disinfectant Residuals you can select one out of 5 possible disinfectant residuals from the drop-down list that are used at a sample point location.

Enter Disinfect	ant Residuals	×
Disinfectant select Save Char	residual type in the distribution system for each HAA sample. Please choose from the dropdown and nges button for the updates to be added to the database.	
Facility: 344 Sample Poir Facility Type Water Type: Sample Poir Monitoring	I31 / FacilityDS1 nt: DS11 / SPDS11 e: DS GW nt Type: DS Requirement: AM2	
Select		•
(SS.PWS.1104c)	CL2: Chlorine (i.e., originating from addition of free chlorine only) CLO2: Chlorine dioxide CLM: Chloramines (originating from the addition of chlorine and ammonia or pre-formed chloramine CAC: Chlorine and chloramines (if being mixed from chlorinated and chloroaminated water) NOD: No disinfectant residual	5)
c. For the Treatment Information, you can select multiple treatment option from the drop-down menu. All possible treatment options are shown below. If your treatment type is not listed, please select OTH (Other types of treatment).

	Enter Treatment Information
	Treatment information associated with the sample point. Please choose all that apply from the dropdown and select Save Changes button for the updates to be added to the database.
	Facility: 34431 / FacilityDS1 Sample Point: DS11 / SPDS11 Facility Type: DS Water Type: GW Sample Point Type: DS Monitoring Requirement: AM2
	Select all that apply None selected
	(SS.PWS.1104d) Save Changes Cancel
	CON: Conventional (non-softening, consisting of at least coagulation/sedimentation basins and filtration).
	INF: In-line filtration
1	DFL: Direct filtration
	SFN: Softening
	SSF: Slow sand filtration
	GAC: Granular activated carbon adsorption (not part of filters in CON, SFN, INF, DFL, or SSF)
	POB: Pre-oxidation with chlorine (applied before coagulation for CON or SFN plants or before filtration for other filtration plant
	RBF: River bank filtration
	PSD: Pre-sedimentation
	BIO: Biological filtration (operated with an intention of maintaining biological activity within filter)
	UTR: Unfiltered treatment for surface water source
	GWD: Groundwater system with disinfection only
	PAC: Application of powder activated carbon
	AIR: Air stripping (packed towers, diffused gas contactors)
	J MFL: Membrane filtration
	IEX: Ionic exchange
	UAF: Dissolved air floatation
	CWA: Clearwell/Tinished water storage with paratien
	CVVA. ClearWeil/Inished Water storage With aeration ADS: Acretion is distribution system (localized testment)
	ADS. Aeration in distribution system (localized treatment)
	NTU: No treatment used

6. Under Schedule/Data Elements select AM3 monitoring, which applies to the cyanotoxins. The options under each sample point schedule for AM3 are Comments, Disinfectant Types, Cyanotoxin Information and Treatment Information. Refer to 5a and 5c in this section for detailed screens of the Disinfectant Type and Treatment Information options. The Cyanotoxin Information data element contains multiple questions about your source and finished water. For all cyanotoxin sampling events (SEC#) after SEC1, you can copy previous SEC information for each data element if everything has remained the same.

	rironmental Protectio	Agency							Logged in as	PWS:	Log Out
CDX	MyCDX > PV Review	/S Home > Your date specifi	PWS Schu Schec led for San	edule > AM3 IUIE nple Event 1 (SE1) if y	ou wish to edit the sa	mple schedule for the	corresponding location	. AM1 monitoring requi	rements should only be	e able to add comment	s. AM2 should allow
PWS	> Filter by.		rectant typ	es, disintectant residu	ai types, and treatmen	nt intormation. AM3 sh	ouid allow entry of con	iments, disintectant typ	es, cyanotoxin indicato	rs and treatment inton	Q
Schedule/Data	Monitori	ng Requi	rement: A	амз 🛑							
— Review Data — Zip Code	Facility ID	: 12345 <i> </i>	acility Na	me: Test Facility F	acility Type: CC Wa	ater Type: GU					* 6
Nominate User Notification Letter	Sample Point ID	Sample Point Name	Sample Point Type	SEC1	SEC2	SEC3	SEC4	SEC5	SEC6	SEC7	SEC8
— Need Help? — SDWARS4 Sitemap	SP12345	Test SP 1.1	EP	Mar 2018, wk 1 Enter Comment	Mar 2018, wk 3	Apr 2018, wk 1	Apr 2018, wk 3	May 2018, wk 1	May 2018, wk 3	Jun 2018, wk 1	Jun 2018, wk 3
и муCDX	Facility ID	: 24434 <i>F</i>	acility Na	Enter Cyanotoxi Enter Treatment	n Indicators Information	ter Type: SW					
	Sample Point ID	Sample Point Name	Sample Point Type	SEC1	SEC2	SEC3	SEC4	SEC5	SEC6	SEC7	SEC8
	EP12	SPEP12	EP	Mar 2018, wk 1	Mar 2018, wk 3	Apr 2018, wk 1	Apr 2018, wk 3	May 2018, wk 1	May 2018, wk 3	Jun 2018, wk 1	Jun 2018, wk 3

a. Please answer the four questions by selecting answers from the drop-down menus. Once complete, please click Save Changes.

	onmental Protect: Enter Cyanotoxin Information	Longed in as X
	MyCDX > P Review Click the cognied from a previous SE. For each "yes" that is answered, choose all that apply from the drop Changes button for the updates to be added to the database.	tion. Responses can be pdown and select Save
	information f	
— Contacts — Inventory — Schedule/Data	 Filter by Facility: 12345 / Test Facility Sample Point: SP12345 / Test SP 1.1 Facility Type: CC Water Type: GU 	
Elements	Monitori Sample Point Type: EP Monitoring Requirement: AM3	
Review Data	Montoning Requirement. Awa	
—Zip Code		
-Nominate User	Facility IL	
-Notification Letter	Click here for help at answering questions regarding the "Bloom Occurrence" data element.	
—Need Help?	Sample Preceding the finished water sample collection, did Point ID you observe an algal bloom in your source waters near the intake?	Ŧ
SDWARS4 Sitemap	Preceding the finished water sample collection,	•
💑 MyCDX	waters cyanotomis even detected in your source waters near the intake and prior to any treatment (based on sampling by you or another party)?	
	Preceding the finished water sample collection, did you notice any changes in your treatment system operation and/or treated water quality that may indicate a bloom in the source water?	٣
	Preceding the finished water sample collection, did you observe any notable changes in source water quality parameters (if measured)?	¥
	(SS.PWS.1104m)	ave Changes Cancel

 b. Note that there is a visual guide for harmful algal bloom occurrence. The blue hyperlink text on the Cyanotoxin Information pop-up redirects you to a PDF file for more information (https://cdx.epa.gov/UCMR4/Content/media/HAB Visual Identification 180227 large.pdf).



c. A green bar will appear at the top of your homepage confirming changes (see above).

3.6 How to Review Analytical Data Submitted by the Laboratory for Large PWS Accounts

1. On the main navigational panel select Review Data. To find analytical results that have been successfully uploaded and approved by your laboratory, you can search by a specific Sample ID. A wildcard (%) can also be used to search

for all sample IDs for your PWS. Please be patient this search may take a few minutes. Alternatively, you can use an advanced search by providing various pieces of information to narrow down the search.

	wironmental Protection Agency			Logged in as	PWS:	Log Out
CDX	MyCDX > PWS Home > Review Data					
CDA	Review Data					
Lpws	You can search using the laboratory's San	nple ID or by conducting an Advanced Search.	The Sample ID search function allows you to look for	r a specific laboratory Sam	ple ID.	
	The Advanced Search function lets you limit	your search by using one or more of the checkbo	exes under the Advanced Search section. Both the C	Collection Start and End Da	ite must be in the MM	//DD/YYYY format
-Contacts	Click Search to display up to 250 analytical re	sults. If your search exceeds 250 results, you mu	ust refine your search criteria to limit the array of data	Or click Download Resu	Its to export all the d	ata of your specifie
- Inventory	search.					
- Schedule/Data Elements	Sample ID					
75 Octo		0.5				
-Zip Code		OR				
-Nominate User	O Advanced Search					
-Notification Letter	Inventory					
-Need Help?	PWS	Select PWS		\checkmark		
-SDWARS4 Sitemap	Facility	Select Facility				
MyCDX	Sample Point	Select Sample Point				
	Method	Select Method				
	Analyte	Select Analyte		\checkmark		
	Monitoring Type	Select Monitoring Type				
	Sample Event	Select Sample Point				
	Analytical Result > MRL	Concentration				
	Show Me Occurrences					
	Status	Select status +				
	Collection Date	Start Date	End Date			
			Search Reset Downlo	ad Results		

- 2. Once the Sample ID is found, select each sample ID on the left-hand side of the screen. You can view inventory information for the sampled location in the upper portion of the page followed by analytical results. Reported values equal to or greater than the MRL are displayed in µg/L. Results less than the MRL are denoted with a checked box under the "MRL (µg/L)" column. Details regarding quality control parameters can be viewed by clicking on the analyte. Note that you can collapse each method by clicking on the minus symbol in the upper right corner of each methods section or expand information using the plus sign (Appendix D).
- 3. Refer to the "<u>Reference Concentrations for the Fourth Unregulated Contaminant Monitoring Rule (UCMR 4)</u>" for health-based values that provide context for the detection of a UCMR 4 contaminant.

CDY	MyCDX > PWS Home > Re	wiew Data > Review/Appro	ve Analytical Results	Data/Reports						
CD/S	Review/Approv	e Analytical Re	esults Data/	Reports						
ws	Select a status for each Approve and click the Save	analytical result. The Appropriate button. Select the Sample	rove All button will se Event link to view yo	it all statuses on t our schedule and	he page to Ap to enter data o	prove. To offici lements.	ally release d	ata to your state, you	MUST change	the status
intacts										*
entory	COC 000 00000000	Sample ID	SIDEP22			PWS		99000083 - Test	PWS #83	
hedule/Data	20051-55 (3300003)	Facility	24431: FacilityC	C1		Sample P	oint	EP11: SPEP11		
		Sample Event	SEA1			Collection	Date	1/13/2018		
verev L/atta		Monitoring Type	AM1							
Code										
minate User		EPA Method 200.8								•
efication Letter										
ed Help?		Analyte	Sar Typ	nple Analysis e	Value	or	< MRL (µ)	g/L. Additional Value	Status	
WARS4 Sitemap		1053 germanium			1.374				Hold	
CDX					P9/L			_	Hold	-
		1032 manganese							Return	to Lab
		EPA Method 525.3)							0
									Approve	All Sa
		EPA Method 525.3	1							фроле

- 4. The PWS has up to 60 days after their laboratory successfully uploads and approves the analytical results to review the data. You can select "Approve" for each contaminant individually or click on the Approve All button at the bottom of the window (see above). Click Save to save the changes to the database. After 60 days the "Status" will default to PWS approved and be viewable to State and EPA users. For more information about each "Status" see Appendix I.
- 5. The PWS also has the option to select "Return to Lab". The lab will receive a SDWARS notification if this option is selected.
- 6. Click on the Sampling Event (blue hyperlinked text) for each sample to go to your schedule to complete the data elements if you have not done so already.
- 7. You can also view laboratory QC data for each analytical result by clicking on each individual analyte to generate a pop-up screen. An example below shows the QC for a test sample for the Germanium contaminant (Analyte 1053) under EPA method 200.8 for AM1.

	nvironmental Protectic	Quality Control Res	sults				Lonned in
CDX	MyCDX > P\	Abbreviations in fror	nt of Analyte Names corres	spond to: IS - Internal Standard,	, Surr - Surrogate.		
	Review Select a	QC Type	Analysis Date	Analyte Name	Recovery	Units	Acceptance Range (%)
🛔 PWS	Approve and	FSQC	1/15/2018	IS indium	92	%	60-125
			1/15/2018	IS yttrium	92	%	60-125
		LFSMD	1/15/2018	germanium	95	%	NA
Schedule/Data	SIDEP22	LFSM	1/15/2018	germanium	95	%	NA
	nents iew Data	CCC	1/15/2018	indium	90	%	60-125
			1/15/2018	indium	92	%	60-125
			1/15/2018	yttrium	96	%	60-125
			1/15/2018	yttrium	102	%	60-125
			1/15/2018	germanium	110	%	50-150
—Need Help?			1/15/2018	germanium	94	%	85-115
SDWARS4 Sitemap		LFB	1/15/2018	indium	89	%	60-125
			1/15/2018	yttrium	111	%	60-125
			1/15/2018	germanium	110	%	50-150
		LRB	1/15/2018	germanium	<0.1	µg/L	NA
			1/15/2018	indium	99	%	NA
			1/15/2018	yttrium	95	%	NA
		(SS.PWS.3002b)					Close

Note: below is a list of QC types and explanation of their properties

- **CCC** = continuing calibration check; a calibration standard containing the contaminant, the internal standard, and the surrogate analyzed to verify the existing calibration for those contaminants.
- **FSQC** = field sample quality control; internal standards and/or surrogates in the field sample.
- LFB = laboratory fortified blank; an aliquot of reagent water fortified with known quantities of the contaminants and all preservation compounds.
- LRB = laboratory reagent blank; an aliquot of reagent water treated exactly as a field sample, including the addition of preservatives, internal standards, and surrogates to determine if interferences are present in the laboratory reagents, or to other equipment.

- LFSM = laboratory fortified sample matrix; a UCMR field sample with a known amount of the contaminant of interest and all preservation compounds added.
- LFSMD = laboratory fortified sample matrix duplicate; duplicate of laboratory fortified sample matrix.
- QCS = quality control sample; a sample prepared with a source external to the one used for initial calibration and CCC. The QCS is used to check calibration standard integrity.
- **QHS** = quality HAA; HAA sample collected and submitted for quality control purposes.
- **SUR** = surrogate standard; a standard that assesses method performance for each extraction.
- **IS** = internal standard; a standard that measures the relative response of contaminants.

3.7 How to Add Zip Codes for Large PWS Accounts

- 1. Select "Zip Code" on the navigation panel.
- 2. Click "Add Zip Codes" (marked with red arrow). A pop-up window lets you add zip codes (see below).

		cy .	Logged in as	PWS:	Log Out
	WyCDX > PWS PWS Contacts -Inventory Schedule/Data Elements Review Data Zip Code	Ime > Zip Codes Codes to add a zip code(s). Click Delete Zip Codes to remove one or more select Codes to add a zip code(s). Click Delete Zip Codes to remove one or more select Delete Zip Code e been added.	ed zip codes.		
1	Add PWS Zip Codes You can copy/paste a comp You must click Save Changes for	rehensive list of zip codes within the zip code field. A z or the zip code(s) to be added to the database.	zip code MUS	T be a five digit	×
	Zip Code(s):*	Zip codes can be copy/pasted or typed			
	(SS.PWS.1105a)		Sav	ve Changes	Close

- 3. You can copy and paste a comprehensive list of zip codes or type them in.
- 4. Click "Save Changes" for the zip codes to be added to the database.
- 5. If you would like to remove one or more zip code(s), checkmark each individual zip code or choose "Select All" to delete the entire list then click "Delete Zip Codes" at the bottom of your zip code list. A pop-up window will display selected zip codes and prompt you to "Confirm Delete" action. A green bar will appear at the top of your homepage confirming changes.
- 6. You can download or print your zip codes using the icons (📥 🖨) on the right-hand corner.

3.8 How to Nominate a User for a CDX/SDWARS4 Account

This step is optional. The account holder can nominate an authorized representative of their choice to review data in SDWARS4. It is important to read and understand the terms and conditions of this agreement. The account holder can nominate more than one person.

- 1. Select "Nominate User" from the navigation panel.
- 2. Complete every field marked with an asterisk* and click "Nominate" at the bottom of the page to create a CRK (or customer retrieval key) for the nominee.

	mental Protection Agency	Logged in as	PWS:	Log Out
	MyCDX > PWS Home > Nominate PWS User Nominate a PWS User You must complete every field marked with an *. You must click Nominate to generate a CRK.			
Contacts Inventory Schedule/Data Elements Review Data Zip Code Nominate User Notification Letter	First Name* Last Name* Organization Name* Registrant's Work Mailing Address 1* Registrant's Work Mailing Address 2 City* State*			
- Need Help? - SDWARS4 Sitemap	Zip Code* Phone* Email* Terms And Conditions By nominating this individual, the nominator abides to the following:			
	 As an authorized representative of the public water system (PWS), I am nominating another individ Monitoring Rule (UCMR) data as required under the 1996 Amendments to the Safe Drinking Water I authorize the nominee to report UCMR information for the PWS I attest that the nominee to report UCMR information for the PWS I understand that by nominating this user, I accept full responsibility for their actions while engaging System (SDWARS). I further understand that by nominating this user, I accept full responsibility for their actions while engaging System (SDWARS). I further understand that the system will be able to associate nominees with the I agree to print and present the CRK to the nominee and verify that they fully understand the TERN. I understand that the nominee will have the right to nominate additional representatives for the PW I agree to notify the Central Data Exchange (CDX) within ten working days if the duties of the nomine other all other of the row of the central Data Exchange (CDX) within ten working days if the duties of the nomine on behalf of the PVS. I agree to make this notification via either the CDX web interface of y notify This notification allows CDX to deactivate the designated account and protect it from potential abust Warning Notice The CDX registration procedure is part of a United States Environmental Protection Agency (EPA) compt access or use of this computer system may subject violators to criminal. civil. and/or administrative action 	tual to review and/or r Act and specified in g the Federal Safe Dr ie nominator. AS AND CONDITION 'S, nee change, and the ying the CDX Technic Se uter system, which is All information on th	report Unregulate 40CFR 141.35 Inking Water Acce IS. y no longer need 1 al Support staff at for authorized use	d Contaminant ession and Review to Interact with CDX 1-888-890-1995.
	Privacy Statement EPA will use the personal identifying information which you provide for the expressed purpose of registral and correcting information in internal EPA databases as necessary. EPA will not make this information av does not sell or otherwise transfer personal information to an outside third party. [Federal Register: March Nominate Reset Form	tion to the Central Da aliable for other purp n 18, 2002 (Volume 6	ta Exchange site : oses unless requir 7, Number 52)][Pa	and for updating red by law. EPA age 12010-12013]

- 3. Once you click "Nominate" you will see a confirmation at the top of your screen, saying "You have nominated a representative for your PWS" (see below).
- 4. The top portion will show the nominee information and, a uniquely assigned CRK number for the nominee.



- 7. You will need to review the instructions, warning notice and privacy statement.
- 8. Print out the CRK and registration instructions for the nominee.

3.9 SDWARS4 Need Help Document and Sitemap



4. Laboratory Account Information

4.1 How to Add/Update Laboratory Client List

The Lab Home page provides your Lab ID, Lab Name, Number of Clients and list of approved methods.

1. Select "Client List" from the navigation panel to add PWS clients.

	nvironmental Protection Agency		Logged in as	Log Out
CDX	MyCDX > Lab Home			
	Lab Home			
🚓 Lab	① Use the left menu to: establish a Nominate User(s).	a Client List, Upload File(s), Enter/Edit data, Review Data, review PWS Inven	tory/Schedule, receive Notific	cations or
- Client List	Lab ID	9900112		
Unload File	Lab Name	Test Lab #112		
	Number of Clients	0		
- Enter/Edit Data	Approved Methods	EPA 200.8		
- Review Data		EPA 300.0 EPA 300.1		
- Notifications		EPA 415.3		
		EPA 525.3 EPA 530		
- Inventory/Schedule		EPA 541		
-Nominate User		EPA 545		
-Need Help?		EPA 546		
		EPA 552.5 EPA 557		
└─ SDWARS4 Sitemap		SM 5310B		
MyCDX				

2. Under Client List click "Register PWS".

	ironmental Protection Agency			Logged in as Log	g Out
CDX	MyCDX > Lab Home > Your Laboratory's	PWS Client List			
🛔 Lab	In order to review inventory/schedule PWS, to add one or more PWSs to your of your client list, you cannot review inventor	and post UCMR4 data for a lient list. Click Unregister y/schedule, enter analytica	a client public water system (PWS) you must Selected PWS(s) to remove one or more se I results nor search for any data your labora	first add the PWS to your client list. Click F ected PWSs from your client list. If a PWS ory previously posted for that PWS.	Register is not on
- Client List	Register PWS				+ 0
— Upload File	PWSID		PWS Name		
- Enter/Edit Data	No PWSs registered.				
- Review Data					
- Notifications					
- Inventory/Schedule					
- Nominate User					
- Need Help?					
SDWARS4 Sitemap					
MyCDX					

3. Search for a client PWS by: typing or pasting the PWS ID(s), selecting a relevant state from a drop-down menu, or using a percent symbol (%) with common PWS ID features (e.g., CA123%) in the "PWS ID(s)" field to search for an existing group of water systems.

Warning: using only the wildcard percent symbol (%) without additional characters can take a long time to load since the search will display all systems available in the SDWARS database. The following example searches for all available PWSs in a "Test State."

If you wish to only registe	r an individual PWS and know their PWS ID, enter t	heir federal PWS ID. The wildcard (%)
can be used if searching for a "CA123…," can be defined as	group of PWSs with common PWS ID features (e.g "CA123%").	g., searching for all PWSs that start
PW(0 D (-).		
PWSID(s):		
State:	Test State	

4. Once the client PWSs are found, select all the PWSs by checking the box at the top (shown below in the red box) or place a checkmark by the PWSs that are relevant (red arrows below).

CDX	Check a select all dis	all PWSs you wish to add to y splayed PWSs. Please note th	bur client list. You may click the checkbox in the top lat adding or deleting a large number of clients may re	eft corner of the table to esult in substantial
b	P Click Save t	delays. to add these to your client list.		
ent List Ioad File		PWS ID	PWS Name	/
ter/Edit Data		99000001	Test 99-01	
view Data		99000002	Test PWS #2	
tifications	☑ 🔶	99000003	Test PWS #3	
entory/Schedule		99000004	Test PWS #4	
minate User		99000011	Test PWS #11	
ed Help?		990000012	Test PWS #12	
WARS4 Sitemap				

- 5. Click "Save".
- 6. Once the PWSs are saved, you can also unregister some of them (or all of them) by clicking on "Unregister Selected PWS(s)". After clicking, a pop-up window will appear asking you to confirm the removal of the selected PWSs from your client list, click "Yes" to confirm or "No" if you do not want to remove the listed PWSs. You can select all PWSs to be unregistered for your laboratory with the first checkbox (red box below).

	ental Protection Agency			Logged in as	Log Out
	yCDX > Lab Home >	Your Laboratory's PWS Client	list		
CD/S	our Labora	tory's PWS Client	List		
e	In order to review in	inventory/schedule and post UC	MR4 data for a client public water system (PWS) you must first add the	e PWS to your client list	ist. Click Registe
ya ya	vur client list, you can	not review inventory/schedule,	enter analytical results nor search for any data your laboratory previou:	sly posted for that PV	VS.
R	Register PWS				*
load File	N	PWS ID	PWS Name		
ler/Edit Data	V	99000001	Test 99-01		
	V	99000002	Test PWS #2		
anton/Schedule		99000003	Test PWS #3		
ninate l Iser	Z	99000004	Test PWS #4		
d Helo?		990000011	Test PWS #11		
VARS4 Sitemap	Z	99000012	Test PWS #12		
Image: Control of the state of the stat					
-		99000021	Test PWS #21		
	Z	99000022	Test PWS #22		
	2	99000023	Test PWS #23		
U EPA United States E	Inregister Selected PWS	Ster Selected PWS(s	TO UNREGISTER SELECTED SYSTEMS		,
EPA United States E	Inregister Selected PWS	Ster Selected PWS(s	TO UNREGISTER SELECTED SYSTEMS		,
EPA United States E	Inregister Selected PWS Invfrom Unregis Are you	ster Selected PWS(s	TO UNREGISTER SELECTED SYSTEMS) the selected PWS(s) from your client list?		, S
EPA United States E	aveonn Are you PWS ID	ster Selected PWS(s	TO UNREGISTER SELECTED SYSTEMS) the selected PWS(s) from your client list? PWS Name		k
EPA united States E CDXC ab Silent List	Inregister Selected PWS Invectors Unregister Are you PWS ID 9900000	Ster Selected PWS(s u sure you want to remove	TO UNREGISTER SELECTED SYSTEMS) the selected PWS(s) from your client list? PWS Name PWS Name Test 99-01		3
EPA united States E CDXC ab Client List Jpload File	Integlater Salected PWs Intercent Are you PWS ID 9900000 9900000	ster Selected PWS(s u sure you want to remove 0001 0003	PWS Name PWS Name Test 99-01 Test PWS #3 Test PWS #3		>
EPA United States E CDXC ab Slient List Ipload File Enter/Edit Data	Areycont Are you PWS ID 9900000 9900000	ster Selected PWS(s u sure you want to remove 0001 0003 0004	TO UNREGISTER SELECTED SYSTEMS OPPOSITE OPPOSITE The selected PWS(s) from vour client list? OPPOSITE O		
EPA United States E COXec ab client List upload File inter/Edit Data keview Data	Integlator Salected PVV	ster Selected PWS(s u sure you want to remove 0001 0003 0004 0005	TO UNREGISTER SELECTED SYSTEMS UNREGISTER SELECTED SYSTEMS WWS Name PWS Name PWS Name Rest PWS #3 Rest PWS #3 Rest PWS #4 Rest PWS #5 Rest PWS #5		,
EPA United States E CDXC ab client List upload File inter/Edit Data every Data totifications	Integistar Salected PWS Integration Integration Are you PWS ID 9900000 9900000 9900000 9900000 9900000	Ster Selected PWS(s u sure you want to remove 0001 0003 0004 0005 0006	FUIL SELECTED SYSTEMS PINE SELECTED SYSTEMS Intersected PWS(s) from vor client list? Intersected PWS(s) from vor client list? PWS Name Intersected PWS(s) from vor client list? Intersected PWS(s) from vor client list? PWS Name Intersected PWS(s) from vor client list? Intersected PWS(s		
EPA United States E CCDXC ab tient List pload File nter/Edit Data eview Data obtifications wentory/Schedule	Pregister Salected PVV Environn Unregister Are you PVVS ID 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	ster Selected PWS(s u sure you want to remove 2001 2003 2004 2005 2006 2007	TO UNREGISTER SELECTED SYSTEMS ONE OF CONTROL STREET THE SELECTED SYSTEMS THE SELECTED SYSTEMS ONE OF CONTROL SYSTEMS THE SELECTED SYSTEMS ONE OF CONTROL SYSTEM		
EPA United States E CCDXCC ab Client List Upload File Enter/Edit Data Review Data Review Data Review Data Review Data Review Data	Pregister Salected PVV Civicoun Unregister Are you PWS ID 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	ster Selected PWS(s a sure you want to remove boot coos coos coos coos coos coos coos c	PWS Name PWS Name Image: PWS(s) Fest 99-01 Test PWS #3 Image: PWS #4 Image: PWS #5 Image: PWS #6		2
EPA United States E CCCCC ab Client List Jpload File Enter/Edit Data Review Data Notifications Inventory/Schedule Nominate User Need Help?	Pregister Selected PVY Unregist Are you Pws ID 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	Ster Selected PWS(s ster Selected PWS(s u sure you want to remove 2001 2003 2004 2005 2006 2007 2008 2009	TO UNREGISTER SELECTED SYSTEMS Note: Selected PWS(s) from client list? The selected PWS(s) from client list? PWS Name PWS Name Test 99-01 Test 99-01 Test PWS #3 Test PWS #3 Test PWS #4 Test PWS #6 Test PWS #7 Test PWS #8 Test PWS #8 Test PWS #8 Test PWS #8		
EPA United States E CCCCCC ab Client List Client Client Client Client Client Client Client Client Client Client Client C	Pregister Salected PVV Enveronn Unregist Are you PWS ID 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	CLICK	Proprior Proprior Image: selected PWS(s) from the selected PWS(s)		
EPA United States E CCCCCC ab Client List Client Client Client Client Client Client Client List Client Client Client List Client Client Client Client Client Client Client Client Client Client Clie	Environ Unregister Environ Unregister Are you PWS ID 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	Ster Selected PWS(ster Selected PWS(ster Selected PWS) u sure you want to remove boot 0001 0003 0004 0005 0006 0007 0008 0009	PWS Name Image: pws selected PWS(s) from the selected PWS sel		
EPA United States E CCCCCC Lab Client List Jpload File Enter/Edit Data Review Data Notifications niventory/Schedule Nominate User Need Help? SDWARS4 Sitemap	Environ Unregister Environ Unregister Are you 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000 9900000	CLICK	PWS Name Image: public publi		

7. You can also print and download those PWSs which were added to your account by clicking on the icons 🚣 🖨 located on the right-hand corner of the clients table.

4.2 How to Review Inventory/Schedule for Selected Clients

 Select "Inventory/Schedule" in the navigation panel to search for relevant PWSs. To review a specific PWS Inventory/Schedule, search for that water systems information by entering its federal PWS ID. You can also select your client PWS' from a list of PWS(s) via searching by State or using the wildcard (%) in the PWS ID search field.

	ironmental Protection Agency	Logged in as	Log Out
	MyCDX > Lab Home > Select PWS Select PWS Search by only 1 criteria. PWS ID is their federal PWS ID. Use the wildcard "%" within the PWS ID to search for a (e.g., searching for all PWSs that start "CAT23," can be defined as "CAT23%").	group of PWSs with commo	n PWS ID features
Client List Upload File Enter/Edit Data Review Data Notifications Inventory/Schedule Nominate User Need Help? SDWARS4 Sitemap MyCDX	PWS ID 9999999999 Wrong PWS ID State Image: Comparison of the state of the st		
	SDWARS Version: 4, Release 3.0 (SS LAB 1103)		

Note: if you incorrectly type a PWS ID the system will display no results and warn you with the yellow bar at the top of the page (see below).

No results found for	r this search criteria K
CDX	MyCDX > Lab Home > Select PWS Select PWS
📥 Lab	③ Search by only 1 criteria. PWS ID is their federal PWS ID. Use the wildcard "%" within the PWS ID to search for a group of PWSs with common PWS ID features (e.g., searching for all PWSs that start "CA123," can be defined as "CA123%").
Cilent List Upload File Enter/Edit Data Review Data Notifications Inventory/Schedule Nominate User Need Hetp? SDWARS4 Sitemap MyCDX	PWS ID State State Search Reset
	SDWARS Version: 4, Rolease 3.0 (SS LAB: 1103)

2. You will only be able to view PWSs that you have registered as a client. For example, searching for Ohio will only return the PWSs that you have already added as clients in the state of Ohio. In this example we already added PWS IDs for the Test States.

	vironmental Protection Agency		Logged in as	Log Out
CDX	States Environmental Protoclion Agency MyCDX > Lab Home > Select PWS > Search Result Lab Search Result Click PWS ID to view the schedule and inventory locations identified for UCMR sampling for the selected PWS. PWS ID PWS ID PWS State PWS Name 990000001 Test 99-01 90000002 Test PWS #2 99000003 Test PWS #3 99000004 Test PWS #4 99000001 Test PWS #1 9000001 Test PWS #1 PUS #1 PU			
— Client List — Upload File	Virited States Environmental Protection Agency Logond in 2 Image: States Environmental Protection Agency MyCDX > Lab Home > Select PWS > Search Result Lab Search Result Lab Search Result Lab Search Result Image: Select PWS ID to view the schedule and inventory locations identified for UCMR sampling for the selected PWS. st File sit Data 99000001 Data 99000002 99000002 Test PWS #2 99000003 Test PWS #2 99000004 Test PWS #1 99000011 Test PWS #1 99000012 Test PWS #1 99000013 Test PWS #1 99000014 Test PWS #1 99000015 Test PWS #1 99000014 Test PWS #1 99000015 Test PWS #1 99000014 Test PWS #1 99000015 Test PWS #2 99000014 Test PWS #2 99000021 Test PWS #11 99000022 Test PWS #11 990000112 Test PWS #11 990000112 Test PWS #11	PWS List		
- Enter/Edit Data	99000001	Test 99-01		Inventory with Schedule
- Review Data	99000002	Test PWS #2		
- Notifications	99000003	Test PWS #3		
Inventory/Schedule	99000004	Test PWS #4		
- Nominate Liser	99000011	Test PWS #11		
Nood Holp?	99000012	Test PWS #12		
	99000013	Test PWS #13		
- SDWARS4 Skemap	99000014	Test PWS #14		
A MyCDX	99000021	Test PWS #21		
	99000022	Test PWS #22		
	990000111	Test PWS #111		
	990000112	Test PWS #112		
	990000113	Test PWS #113		
	990000114	Test PWS #114		

Note: on the right side of the screen there are download and print buttons (. The download button has two options: PWS List and full inventory with schedules, which includes every Facility ID and all related Sample Points for each PWS that has already confirmed its inventory (above).

3. To view available inventory for each PWS separately prior to downloading, simply click on each PWS ID (above).

Lab	PWS	: 990000	002 / Tes	PWS #2	,											
– Client List – Upload File	Fac	Fać Name	Fac Type	Water Type	SP ID	SP Name	SP Type	Monitoring	SE1	SE2	SE3	SE4	SE5	SEG	SE7	SE
Enter/Edit Data Review Data	00001	Fac 1	cc	GW	SP0001	SP 1, Fac 1	EP	AM1	Feb 2019	Aug 2019						
- Notifications	00001	Fac 1	cc	GW	SP0002	SP 2, Fac 1	EP	AM1	Feb 2019	Aug 2019						
Inventory/Schedule Nominate User Need Help?	00002	Fac 2	от	GW	SP0001	SP 1, Fac 1 Super simple name	EP	AM1	Apr 2019	Oct 2019						
SDWARS4 Sitemap																

When the inventory is not yet available, you will receive the message, "No facility/sample points are set up to monitor" (see below). If you encounter this situation when preparing sampling kits to send to a PWS client, please inform your client PWS that they need to define sample locations in SDWARS prior to sampling, referring them to this document or the <u>UCMR 4 Message Center</u> (UCMR4@glec.com).

4. For an overview of PWS inventory and resampling requirements for AM2 and AM3 please see Appendix H.

MyCDX > Lab Home > Select PWS > Search Result > PWS Schedule View Sample Location(s) Scheduled for Monitoring PWS: 990000003 / Test PWS #3 No facility/sample points are setup to monitor.

4.3 How to Upload a File with Analytical Results

To submit your analytical results file to SDWARS4, it must be in text or XML format. Click on the **text** or **XML** links for help formatting your analytical results file (red underline below). If you click on the hyperlink blue <u>text</u> it will redirect you to the flat file specifications document, which provides directions for formatting UCMR 4 analytical results and QC samples in a text file. If you click on the <u>XML</u> hyperlink, it will redirect you to the XML specifications document for similar assistance in formatting an XML file for upload. The XML Schema link allows you to download a zipped file.

 After your file is in text or XML format click Browse to find and select your file. Once your file is selected click Upload. Make sure that you keep the checkmark next to "Run quality checks". If your file is correctly formatted and there are no issues with your data criteria, then the database will proceed to Quality Control (QC) review.

	nvironmental Protection Agency	Logged in as	Log Out
	MyCDX > Lab Home > Upload File Upload File Select the analytical results file that you want to upload to SDWARS. After you have chosen the file, click Upload to documentation for text or XML files. The XML Schema is also available for download.	button to load the file. Click I	o view the file
Client List Upload File Enter/Edit Data Review Data Notifications Inventory/Schedule Nominate User Need Help? SDWARS4 Sitemap	Upload Reset	Browse	
A MyCDX	SDWARS Version: 4, Release 3.0		

 Files that do not meet the format criteria cannot be loaded into SDWARS4 and must be corrected before resubmission. If your file doesn't meet the format criteria you will be redirected to a screen listing formatting errors (below).

The week and a block of the Place review the details below, correct the errors, and resubmit. Image: Content List Upgrad File: Enter #Edit Data Review Data	*		
CDX	Av Av Av av Analyte Not Found Expand AI (riert List Provided Image: State		
🛔 Lab	Analyte Not Found		Expand All Collapse All
Client List Upload File Enter/Edit Data	Line Number(s): Error Description:	8, 9, 10, 62, 63, 64, 65 The specified Analyte was not found in SDWARS for the PWS. Verify the value provided.	
- Review Data	Result Measure (or In	dication of Below MRL) Not Provided	•
– Inventory/Schedule – Nominate User – Need Help?	Line Number(s): Error Description:	11 Both the Result Measure and Result Below MRL indicator were not provided. One or the other must be provided in an upload fil	ie.
SDWARS4 Sitemap	Method Not Found		•
A MyCDX	Line Number(s): Error Description:	16, 17, 18, 19, 43, 44 The specified Method was not found in SDWARS for the PWS. Verify the value provided.	
Note sent t	: immedia to your e	ate failure notification is mail upon upload!	ix.net ion ixt File file has failed 7344 LOOKEXE.15

3. You can expand or collapse errors using the +/- arrows in the right-hand side or use Expand All |Collapse All on the top right corner of the file upload screen.

- 4. QC will only be processed once the file has passed the formatting criteria; however, if your analytical results fail QC requirements, then an error message will be displayed.
- 5. Depending on the file specifications, your data will be placed in lab hold status or loaded into SDWARS as lab approved status if your data passes all QC requirements. Data that doesn't pass QC requirements will be automatically placed in hold and can be edited either in the Enter/Edit Data section or via file correction. Once a file is successfully uploaded, the File Upload Results screen will appear. Each loaded Sample ID and QC data can be reviewed by selecting the corresponding ID on the tab on the left. When selected, a blue link on the right under Status labeled QC Errors will produce a pop-up window describing the errors (see below). Clicking the QC Errors link will produce this pop-up which contains QC Sampling Errors. Each error is a brief description of the issues pertaining to that sample. Please note that if batch QC is incorrect, the errors will be repeated for each analyte (within each sample) that was impacted by that batch. In this example, Method 200.8, the analytes fail because no CCC Mid was reported. This also means all other analytes in samples that have the same analysis batch ID will also fail and show this same error message.

QC Sampling Errors					Legged in as	Log Out
Not enough CCC	CMid values were rep	ported.				
The LFB record the defined bottom/te	Nough CCCMId values were reported. FB record is missing the additional value; this is used to calculate the LFB percentage and compare it against d bottom/top values. not enough LRB values have been reported. 03w)			reen check ind	icates that the dat	
No or not enough	h LRB values have b	een reported.			031 / Test PW SPEP21 017	S #31
(SS.LAB.2003w)				Close	e	
	Method: EP/	A 200.8			re it against reen check indicates 031 / Test PWS #31 SPEP21 017 Close al Value or < MRL (µg/L)	0
	Analyte	Sample Analysis Type	Value	Additional Value	or < MRL (µg/L) Status
	1053: german	ium	32.374	µg/L		QC Errors
		LFSM	27 µg/L		18	~
		LFSMD	22 µg/L			
		CCC	91 µg/L			

6. A sample may also be marked as having QC errors if the value entered for a result exceeds the maximum reasonable value. If this is the case, the blue link labeled **QC Errors** (red arrow below) will produce a pop-up window displaying the message "Result measure exceeds the maximum reasonable value".

	ronmental Protection Agency						Logged in as	Log Out
	MyCDX > Lab Home > File File Upload Re Below are the results of	e Upload > File Upload Suits if the file validation che	Results cks. Each Sample Kit II	D can be reviewed	by selecting the c	orresponding	ı tab.	
Lab Client List Upload File Enter/Edit Data Review Data		Sample ID EXAMPLEMETALS7 Facility 00105 Sample Event SEA2 Monitoring Type AM1			PWS Sample I Collectic	PWS 990000113 / Test PWS #113 Sample Point 02 Collection Date 04/10/2018		
— Notifications — Inventory/Schedule — Nominate User		Method: EPA 20 Analyte	0.8 Sample Analysis Type	Value	or	< MRL (µg/L)	Additional Value	Status
- Need Help? - SDWARS4 Sitemap		1053: germanium	LFSM	1374 µg/L 2 µg/L			2.1	QC Errors
MyCDX			LFSMD	2 µg/L			2.1	

If you see this message (shown below), you can close the window and review the value on the File Upload Results page.

QC Sampling Errors	
Result measure exceeds the maximum reasonable value	
(SS.LAB.2003w)	Save Close

If the value is correct, open the **QC Errors** popup window again, check the box to the left of the text by clicking on it (red arrorw below) and then click save.

QC Sampling Errors	
Result measure exceeds the maximum reasonable value	
(SS.LAB.2003w)	Save Close

A green bar will appear at the top of the page confirming that the range checks have been saved. The status of the sample will be set to **Hold** and will have the option to be changed to **Approved** (shown below).

The range checks h	nave been saved.								
CDX	MyCDX > Lab Home > File File Upload Re	e Upload > File Upload	Results						
Lab	Below are the results of	of the file validation che	cks. Each Sample Kit I	D can be reviewed t	by selecting the c	orresponding	g tab.		
-Client List	The analytic result data	has been updated and	the changes reflected	below.					3
— Upload File		Sample ID		37	PWS		990000113 / Test PW	/S #113	
- Enter/Edit Data	EXAMPLEMETALS7	Facility	00105		Sample I	Point	02		
- Review Data	EYAMDI EMETAL SR	Sample Event	SEA2		Collectio	n Date	04/10/2018		
- Notifications	EXAMPLEMETALSO	Monitoring Type	AM1						
-Inventory/Schedule									
-Nominate User		Method: EPA 20	0.8						•
-Need Help?									
-SDWARS4 Sitemap		Analyte	Sample Analysis Type	Value	or	< MRL (µg/L)	Additional Value	Status	
MyCDX		1053: germanium		1374 µg/L			-	HOLD	~
			LFSM	2 µg/L			2.1		
			LFSMD	2 µg/L			2.1		
			CCC	0.33 µg/L			0.3		
			CCC	3 µg/L			3.2		
			LFB	0.33 µg/L			0.3		
			IRB	0.01 µg/l					

If the value entered for the sample is wrong, you can edit it on the File Upload Results screen by typing the correct value in the box that contained the error.

	nvironmental Protection Agency						Logged in as	Log Out
	MyCDX > Lab Home > File File Upload Re	e Upload > File Upload esults of the file validation che	Results cks. Each Sample Kit II	D can be reviewed	by selecting the c	orresponding	tab.	
-Client List		Sample ID	EXAMPLEMETALS	57	PWS		990000113 / Test PV	VS #113
	EXAMPLEMETALS7	Facility	00105		Sample I	Point	02	
– Enter/Edit Data	EXAMPLEMETALS8	Sample Event Monitoring Type	SEA2 AM1		Collectio	on Date	04/10/2018	
- Review Data								
- Notifications		Method: EPA 20	0.8					0
- Inventory/Schedule								
- Nominate User		Analyte	Sample Analysis Type	Value	or	< MRL (µg/L)	Additional Value	Status
- Need Help?		1053: germanium		1.374 ×	•			QC Errors
obtivitos olicinap			LFSM	2 µg/L			2.1	
MyCDX			LFSMD	2 µg/L			2.1	

You must then scroll to the bottom of the screen and click **Save**.

Batch	Extraction Batch:	Analysis Batch:	Approve All Save
filter:	Select V	Select V	
	SDWARS Versi (SS.L/	on: 4, Release 3.0 AB.2003)	Y

A green box will appear at the top of the page indicating that the analytic result data has been updated and the changes reflected below. If the new value is now within the range of reasonable values, the status of the sample will now be set to **Hold** and will have the option to be changed to **Approved** (shown below).

	ivironmental Protection Agency						Logged in as	Log	Out
CDX	MyCDX > Lab Home > File File Upload Re Below are the results of	E Upload > File Upload ESUITS of the file validation che	Results cks. Each Sample Kit II) can be reviewed	t by selecting the co	rrespondin	g tab.		
— Client List	The analytic result data	has been updated and	the changes reflected t	below.					0
— Upload File — Enter/Edit Data — Review Data — Notifications — Inventory/Schedule	EXAMPLEMETALS7 EXAMPLEMETALS8	Sample ID Facility Sample Event Monitoring Type	EXAMPLEMETALS 00105 SEA2 AM1	7	PWS Sample P Collection	oint n Date	990000113 / Test P 02 04/10/2018	WS #113	
- Nominate User		Method: EPA 20	0.8						•
— Need Help? — SDWARS4 Sitemap		Analyte	Sample Analysis Type	Value	or	< MRL (µg/L)	Additional Value	Status	
MyCDX		1053: germanium		1.374 µg/L			-	HOLD	~
			LFSM	2 µg/L			2.1		

7. The example below shows a correct submission of sample kit 102882P by a laboratory for the Test PWS 99000087 (red left-side arrow). The data has passed all QC checks and is ready for approval. A drop-down menu to the right of the analytical result allows you to change data status from Hold to Approve for each individual analyte. You can also use the Approve All button to make that switch for all results at once (red right-side arrows). Once you change the status of data, click Save in the bottom right corner to save changes. A section at the bottom of the picture below (red dashed box) shows a Batch filter option of sorting data within a selected Sample ID by either Extraction Batch or Analysis Batch IDs.



8. In the following example, the Analyte 1053 (germanium) result was changed from HOLD to APPROVE and saved. Note that the status of germanium changed to Approved, whereas the remaining analyte(s) are still in the HOLD status. You can return to those through either the Enter/Edit Data or the Review Data functions on the main navigation panel. For more information about each "Status" see appendices C, I and J.

	onmental Protection Agency					Logged in	n Log Cr	ł
CDX	MyCDX > Lab Home > Er	nter/Edit Data > Edit Samp	sle					
OD/G	Edit Sample							
📥 Lab	Edit analyte using the Approve All button to ap	Value field. Select the < I prove all data that has par	MRL (pg/L) check mark box sed QC. Select Save to save	when an analyte is < MRL. Select the changes or select Run QC V	t the Status box to a lidations to verify a	pprove each analyte inc samples pass the QC cr	dividually or use the iteria.	
-Client List	The analytic result data	a has been updated and th	e changes reflected below.					×
- Upload File	Sample ID	102882P		PWS	99000	0087 / Test PWS #87		
- Enter/Edit Data	Facility	50001 / Facility EP	01	Sample Point	EP01/	SP EP 01		
- Review Data	Sample Event Monitoring Type	SEA1 AM1		Collection Date	03/05/2	2018		
- Notifications								
- Inventory/Schedule	Method: EPA 200.8							•
- Nominate User	Analyte	Sample Analysis Typ	e Value	or	< MRL (µg/L)	Additional Value	Status	
-Need Help?	1053: germanium		1.374µg/L				Approved	
SDWARS4 Sitemap		LFSM	2 µg/L			2.1	~	
A MyCDX		LFSMD	2 µg/L			2.1		
		ccc	0.33 µg/L			0.3		
		CCC	3 µg/L			3.2		
		LFB	0.33 µg/L			0.3		
	IIND: indium	LND .	92	46				
		LFSM	102 %	14				
		LFSMD	105 %					
		ccc	90 %					
		ccc	92 %					
		LFB	89 %					
		LRB	99 %				\frown	
	1032: manganese			μgi	8		HOLD)
		LFSM	2 µg/L			2		
		LFSMD	2 µg/L			2		
		000	0.43 µg/L			0.4		
		LFB	0.43 µg/L			0.4		
		LRB	0.01 µg/L					
	IYTT: yttrium		92	%				
		LFSM	102 %					
		LFSMD	87 %					
		LRB	95 %					
		ccc	96 %					
		ccc	102 %					
		LFB	111 %					
	Marked CDA 511							0
	method: EPA 541							0
		Batch filter: Extra Sele	action Batch: A act •	nalysis Batch: Select •		Run QC Validatio	ns Approve All	Save

- 9. A green notification bar will appear indicating that your changes have been saved.
- 10. If you need assistance with uploading data to SDWARS4 please contact <u>CL_TSC-UCMR@epa.gov</u>. Please provide screen shots of the errors, the data file(s), and any other important details.

4.4 How to Enter/Edit Data

In the Enter/Edit Data section under Action(s) field there are two icons ((), which allow user to either edit data or delete the sample. Note: the edit function is available when the results for a given sample are fully or partially in the lab hold status, but the delete function is available for samples that are entirely in the lab hold status. You can also edit select sample information in this section by clicking on a Sample ID.



1. If you choose to delete a sample, simply click on the trash can icon (⁽ⁱⁱⁱⁱ)). This will prompt the conformation window (see below) and once you click delete, a green bar will appear on top of the page indicating that the sample was deleted.

SEPA United States Er	vironmental Protectic Delet	e Sample			×	Logged in as	Log Out
CDX	MyCDX > La Are	you sure you want to dele	te this sample 102882P ?	,			
Lab	Click Ad to revise or a (SS)	LAB.4001b) Sr Samplo			Dolote Close	equently add analytical	results. Click Edit icon
— Upload File	Sample ID	PWS		Facility	Sample Point	QC Passed?	Action(s)
Enter/Edit Data	102882P	990000087 - Test PW	5#87	50001: Facility EP 01	EP01: SP EP 01	Yes	#18
Boview Data							
The selected sample	le was deleted MyCDX > Lab Hom Enter/Edit	e > Enter/Edit Data Data					×
🛔 Lab	Click Add TOC to revise or add info	and/or Br Sample to enter mation for a sample. Click	new sample collection infi Delete icon to remove a r	ormation for total organic carbo sample from the list.	on (TOC) and/or bromide (Br) and subseq	uently add analytical resu	its. Click Edit icon
Client List	Add TOC and/or E	& Sample					* 0
— Upload File	Sample ID	PWS	Facility	Sample Point	QC Passed?	Action(s)	
Enter/Edit Data							

2. Selecting the pencil icon on a sample will take you to an editable view of the sample. Notice the red boxes below that correspond to the analytical result value window and check-mark box for the <MRL fields. If the reported result is less than MRL then that box needs to be checked, which will remove the result value. The green box indicates

percent recovery for internal standards and surrogates. You can manually edit the values reported for the field sample analytes, internal standards and surrogates.

	CCC	4 µgʻL	4.1
	LFB	0.51 µg/L	0.5
	LRB	0.01 µg/L	
2432: 2-propen-1-ol		µg'L Ø	HOLD *
	LFSM	2 µg/L 0.5 µg/L	2 APPROVE
	LFSMD	2 μg/L	2
	ccc	0.53 µg/L	0.5
	ccc	4 µg%	4.1
	LFB	0.51 µg/L	0.5
	LRB	0.01 µg/L	
SPRO: 2-propen-1-ol-d6		92 %	
	LFSM	102 %	
	LFSMD	87 %	
	CCC	96 %	
	CCC	102 %	
	LFB	111 %	
	LRB	95 %	
ICHL: chlorobenzene-d5		92 %	
	LFSM	102 %	
	LFSMD	105 %	
	CCC	90 %	
	CCC	92 %	
Should y	ou choos Ilwavs ru	e to edit your n OC validation 🛑 📼	QC Validations Approve All Save

3. A green notification bar will appear indicating that your data passed QC validation.

	nvironmental Protection Agency					Lagged in as	Log Out
Lab	MyCDX > Lab Home > Ent Edit Sample G Edit analyte using the 1 All button to approve all de	er/Edit Date > Edi Value field. Select ita that has passe	t Sample the < MRL (µg/L) check n d QC. Select Save to save t	ark box when an analy he changes or select R	rte is < MRL. Select the S tun QC Validations to ve	Status box to approve each analyte individually rifly samples pass the QC criteria.	or use the Approv
- Client List	QC checks have been p	erformed. If there	were errors, they are shown	below.			
– Upload File – Enter/Edit Data – Review Data – Notifications	Sample ID Facility Sample Event Monitoring Type	102882P 50001 / Fac SEA1 AM1	liky EP 01		PWS Sample Point Collection Date	990000087 / Test PWS #87 EP01 / SP EP 01 03/05/2018	
Inventory/Schedule	Method: EPA 200.8						
Nominate User Need Help?	Method: EPA 541						
SDWARS4 Sitemap MyCDX		Batch filter:	Extraction Batch: Select	Analysis Batch Select	¥.	Run QC Validations	Approve All
			SOWARS	Version: 4, Release 3.0			

4. If QC validation returns no errors, you can click **Approve All** to change the status of all analytes from **HOLD** to **APPROVE**, then click **Save**. Once you have approved all submitted analytical results for a sample, that sample will disappear from the **Enter/Edit Data** screen (see below) and you will no longer be able to alter it or the QC associated with it.

	mironmental Protection Agency					Logged in as	Log Out
	MyCDX > Lab Home > Enter/E Enter/Edit Data Click Add TOC and/or Br to revise or add information for	dit Data Sample to enter ne a sample. Click De	w sample collection inform	ation for total organic carbon (TOC) and	d'or bromide (Br) and subsequently	add analytical resul	ts. Click Edit icon
-Client List	Add TOC and/or Br Sample	1					* 🖯
— Upload File	Sample ID	PWS	Facility	Sample Point	QC Passed?	Action(s)	
- Enter/Edit Data							
- Review Data							
- Notifications							
- Inventory/Schedule							
-Nominate User							
- Need Help?							
SDWARS4 Sitemap							
B MyCDX							
			SDWADS Ver	ion 4 Delease 1.0			
			(55.)	LAB.4001)			

- 5. In the example above, previously loaded sample **102882P** passed all QC validation and was fully approved. The sample is no longer available for edits in the picture above. However, you can still find all submitted data in the **Review Data** section.
- 6. To edit sample information, click on the blue text of a Sample ID.

	ronmental Protection Agency			Logg	ed in as	Log Out
Lab Client List	MyCDX > Lab Home > Er Enter/Edit Dat Click Add TOC and/o results. Click Edit Icon to Add TOC and/or Br Sar	nter/Edil Data a r Br Sample to enter new sample or revise or add information for a samp nple	pliection information for total organic carbon (TG ie. Click Delete icon to remove a sample from i	OC) and/or bromide (Br the list.) and subsequently	add analytical
— Upload File	Sample ID	PWS	Facility	Sample Point	QC Passed?	Action(s)
Enter/Edit Data	EXAMPLEMETALS7	990000113 - Test PWS #113	12345: Test Facility - Sampling Station	ABC: Test EP 1	Yes	۵ ا
-Review Data	EXAMPLEMETALS9	990000113 - Test PWS #113	12345: Test Facility - Sampling Station	XYZ: Test EP 2	Yes	1
Notifications Inventory/Schedule Nominate User Need Help? SDWARS4 Sitemap						
		SDWARS (Version: 4, Release 3.0 SS.LAB.4001)			

This will open a popup window (shown below) where you can view the PWS, Facility, Sample Point, Monitoring Type, and Sample ID for a given sample. You may also view and edit Sample Event, Collection Date, Methods Performed (remove only) and Comments. Note: Sample Event and Collection Date can only be edited if there are no approved analytic results for this sample and methods can only be removed if there are no approved analytic results for this sample. Once you are done making changes, click save. A green bar will appear at the top of the page confirming that your changes have been saved.

	Edit Sample: EXAMPL	EMETALS7			×	
	Every field marke lab is approved. You enabled if there are n analytic results for that	d with an asterisk (*) must be CANNOT post data for subcont o approved analytic results for f at method in this sample. To ad	completed. The method(s) listed are limit racted labs. The Sample Event and Colle this sample. Methods can only be remove d new methods, you must use the file up	ed to those for which ection Date fields are ed if there are no ap load.	h your e only proved	
	PWS*	990000113 - Test PV	VS #113			
	Facility*	12345 - Test Facility	- Sampling Station			
	Sample Point*	ABC - Test EP 1				
	Monitoring Type*	AM1				
	Sample Event*	SEA2 - Jun 2020		\checkmark		
	Sample ID*	EXAMPLEMETALS7	la M			
	Collection Date*	04/10/2018				
	Method(s) Performe	d*				
		- ⊻ EPA 200.8				
	Comments					
	(SS.LAB.4001c)			Save	Close	
	ronmental Protection Agency			Logg	ed in as	Log Out
CDX	MyCDX > Lab Home > Er	nter/Edit Data				
ODI	Enter/Edit Dat	a				
击 Lab	Click Add TOC and/or results. Click Edit icon to	or Br Sample to enter new sample c revise or add information for a samp	ollection information for total organic carbon (To ble. Click Delete icon to remove a sample from	OC) and/or bromide (Br the list.) and subsequently	add analytical
			•			
	EXAMPLEMETALS7 h	as been updated.				×
	Add TOC and/or Br Sa	mple				+ 0
Enter/Edit Data	Add TOC and/or BI Sar	npie				
- Review Data	Sample ID	PWS	Facility	Sample Point	QC Passed?	Action(s)
- Notifications	EXAMPLEMETALS7	990000113 - Test PWS #113	12345: Test Facility - Sampling Station	ABC: Test EP 1	Yes	۵ ا
- Inventory/Schedule	EXAMPLEMETALS9	990000113 - Test PWS #113	12345: Test Facility - Sampling Station	XYZ: Test EP 2	Yes	1
-Nominate User						

7. For those labs that are authorized to run TOC and/or Br⁻ methods for UCMR 4, clicking Add TOC and/or Br Sample will allow you to enter the data manually. You will need to enter a new sample ID, collection information and subsequently add analytical results. Note: the Add TOC and/or Br Sample button allows you to add only TOC and Br⁻ methods to those PWSs that are in your client list.

ib is approved. Tou CANN	O I post data for subcontracted labs.		
WS*	990000113 - Test PWS #113	~	
acility*	33442: Test TOC/BR	~	
ample Point*	SR11 - TestTOCBr	~	
onitoring Type*	AM2: Assessment Monitoring for HAAs	~	
ample Event*	SEH2: Jun 2020	~	
ample ID*	IndicatorTestSample		
ollection Date*	03/14/2018		
ethod(s) Performed*	EPA 300.1: EPA Method 300.1		
omments			

- 8. Every field marked with an asterisk (*) must be filled in. You cannot post data for subcontracted labs. Any subcontracted labs must be UCMR 4 approved and are responsible for submitting their own data to SDWARS4. Click Create to save new sample. QC samples are not required in SDWARS for indicator methods but all indicator data submitted to SDWARS must still pass method QC requirements.
- 9. Click the download or print buttons at the top right corner to print or download sample files.

4.5 How to Review Data

- Use the Review Data search function to review any data that your lab has submitted, regardless of status. You will
 not be able to take any action on items that are in a review status of Lab Approved or higher but you will be able to
 search for those results. Lab hold data are also viewable through this search. You can additionally search by status if
 needed. For more information about each "Status" see appendices C, I and J.
- 2. You can use the wildcard symbol (%) to search for all your data in those search fields that do not have a drop-down list. Click **Search** to display up to 250 analytical results. If your search exceeds 250 results, an automatic download will be initiated.

ZEFA United States Environme	ntal Protection Agency				Logged in as	Log
CDY	yCDX > Lab Home > Review Data					
CD/S	eview Data					
1.05	You can search using the laboratory's Sampl	In ID or by conducting an Advanced Search. The Sample	e ID search function allows you to look for a s	secific laboratory Sample ID.		
Th	e Advanced Search function lets you limit you	ir search by using one or more of the check boxes under	the Advanced Search section. Both the Colle	ction Start and End Date must be	in the MWDD/YYYY format	
Client List	ick Search to display up to 250 analytical resul	ts. If your search exceeds 250 results, you must refine yo	ur search criteria to limit the array of data. Or	click Download Results to expo	t all the data of your specified	í search.
Upload File	Second Second					
Enter/Edit Data	Sample ID	***				
Review Data						
Notifications		0R				
Inventory/Schedule	O Advanced Search					
Nominate User	Inventory					
Need Help?	PWS	Select PWS		V		
SDWARS4 Sitemap	Facility	Select Facility				
MyCDX	Sample Point	Select Sample Point				
	Method	Select Method		2		
	Analyte	Select Analyte				
	Monitoring Type	Select Monitoring Type				
	Sample Event	Select Sample Point				
	Analytical Result > MRL	Concentration		123.		
	Show Me Occurrences					
	Extraction Batch Code					
	Analysis Batch Code					
	Printing and Content Court					
	Chattan					
	Status	Select status +				

Note: you can search using the exact **Sample ID** or by an advanced search which allows you to search by using one or more fields. Both the Collection Start and End Date must be in the MM/DD/YYYY format as listed in the instructions. You may click **Download Results** to export all the data of your specified search.

For the samples that were approved by the laboratory, you can only view those results. No edit or delete function is available for such data. Note that the Status field in **Review Data** also shows whether the data was also **PWS Approved** or if it is still in **PWS Hold** (102882P sample example below).

	invironmental Protection Agency					Logged in a	Log Out
	MyCDX > Lab Home > Revi Review/Approv Select a Status for each To officially release data to y	ew Data > Review/Approve Analy e Analytical Result analytical result. The Approve A your client PWS, you MUST change	Scal Results Data/Reports ts Data/Reports II button will set all statuses on the page to A je the status to Approve and click the Save t	pprove. Click Sample Kit I sutton.	D to make appropriate	changes to posted data.	
Client List Upload File Enter/Edit Data Review Data Notifications	102882P	Sample ID Facility Sample Event Monitoring Type	102882P 50001: Facility EP 01 SEA1 AM1	PWS Samp Colle	le Point ction Date	990000057 - Test PWS #87 EP01: SP EP 01 3/5/2018	* ⊖
- Inventory/Schedule - Nominate User - Need Help?		EPA Method 200.8	Sample Analysis Type	Value or	< MRL (up)	.) Additional Value Status	٥
SDWARS4 Sitemap		1053: germanium	LFSM	1.374 µg/L 2 µg/L	\odot	EPA Apr	prove / State Hold
9 2 МуСDX			LFSMD CCC CCC LFB LFB	2 µpL 0.33 µpL 3 µpL 0.33 µpL 0.01 µpL		21 03 32 03	
			SOWARS Version: 4, Release 3	1.0			

- 3. If you realize later that you need to edit previously submitted and Lab Approved data, your client PWS can "return to lab" these results when they review these data from their PWS SDWARS4 account, provided these results have not yet been PWS Approved. If the results are in the status of PWS Approved, you'll need to contact the UCMR Sampling Coordinator (ucmr_sampling_coordinator@epa.gov) to reset the status. Please provide the exact sample IDs, the method, and specify whether all analytes in the method need to be reset.
- 4. Please contact the Lab Approval Coordinator (<u>UCMR lab approval@epa.gov</u>) if you have questions about QC failures. For more information on method and analyte codes see Appendix D.

4.6 How to Change Notification Preferences

You have the option to receive notifications when a PWS returns samples to your laboratory.

- 1. Select "Notifications" from the navigation panel.
- 2. The laboratory in the example below is set to receive notifications when a PWS returns samples to the laboratory. If you do not wish to receive notifications, you can set notification status to "No" by clicking on the toggle button to the right of the notification description.

3. After moving one of the toggle buttons, click the "Update" button to the right of the toggle button to save your changes.

	nvironmental Protection Agency	Logged in as	Log Out
CDX	MyCDX > Lab Home > Receive PWS Return Notifications Receive PWS Return Notifications		
🛔 Lab	Bease specify which notifications you would like to receive by having the yes/no toggle button switched to yes. If you wis toggle button to no. You must select the Update button to save any changes.	h not to receive notifical	tions, move the
-Client List			
— Upload File	Receive Sample Returned Notification		
— Enter/Edit Data	Receive notifications when a PWS returns samples to your laboratory.	Voc	te
-Review Data			
- Notifications			
- Inventory/Schedule			
Nominate User			
-Need Help?			
- SDWARS4 Sitemap			
MyCDX			
	SDWARS Version: 4, Release 3.0		

4. A green bar will appear at the top of the page confirming that your notification preferences have been updated (see below).

🗧 🧹 You notification stat	us has been updated.
CDX	MyCDX > Lab Home > Receive PWS Return Notifications Receive PWS Return Notifications
🚓 Lab	Please specify which notifications you would like to receive by having the yes/no toggle button switched to yes. If you wish not to receive notifications, move the toggle button to no. You must select the Update button to save any changes.

5. You may update notification preferences any time.

4.7 How to Nominate a User for a CDX/SDWARS4 Account

This step is optional. The account holder can nominate an authorized representative to review and input data into SDWARS. It is important to read and understand the terms and conditions of this agreement. A laboratory can nominate more than one person.

- 1. Select "Nominate User" from the navigation panel.
- 2. Complete every field marked with an asterisk (*) and click "Nominate" at the bottom of the page to create a CRK (or customer retrieval key) for the nominee.

	vironmental Protection Agency		Logged in as	Log Out		
CDX	MyCDX > Lab Home > Nominate Lab User Nominate a Lab User ● You must complete every field marked with an *. You must click Nominate to generate a CRK.					
Lab	First Name*					
- Client List	Last Name*					
— Upload File	Organization Name*					
— Enter/Edit Data	Organization Name is required					
- Review Data	registrant's work mailing Address 1	Address 1 is required				
- Notifications	Registrant's Work Mailing Address 2					
- Inventory/Schedule	City*					
- Nominate User	State*	City is required				
- Need Help?		State is required				
SDWARS4 Sitemap	Zip Code*	Zin Code is remined				
	Phone*	1				
	Email*					
	Terms And Conditions					
	By nominating this individual, the nominator abides to the following:					
	 As an authorized representative of the public water system (PVS). I am nominating another individual to review and/or report Unregulated Contaminant Monitoring Rule (UCMR) data as required under the 1956 Amendments to the Safe Drinking Water Act and specified in 40CFR 141.35 I authorize the nominee to report UCMR Information for the PVS I authorize the nomine to report UCMR Information for the PVS I understand that the nominee will be able to associate nominees with the nominator. I agree to print and present the CRX to the nominee and verify that they fully understand the ERMS AND CONDITIONS. I adrest the nominee to report I have the right to nominate additional representatives for the PVS. I agree to notify the Central Data Exchange (CDX) within ten working days if the duties of the nominee change, and they no longer need to Interact with CDX on behalf of the PVS. I agree to nake this notification via either the CDX web interface or by notifying the CDX Technical Support staff at 1-888-890-1995. This notification allows CDX to deactivate the designated account and protect it from potential abuse 					
	Warning Notice					
	The CDX registration procedure 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.					
	Privacy Statement					
	EPA will use the personal identifying information which you provide for the expressed purpose of registration to the Central Data Exchange site and for updating and correcti in internal EPA databases as necessary. EPA will not make this information available for other purposes unless required by law. EPA does not sell or otherwise transfer perso information to an outside third party. [Federal Register: March 18, 2002 (Volume 67, Namber 52)]Page 12010-12013]					
	Nominate Reset Form					
SDWARS Version: 4, Release 3.0						
1						

- 3. Once you click "Nominate" you will see a confirmation at the top of your screen, saying "You have nominated a representative for your Laboratory".
- 4. The top portion of the confirmation page will show the nominee information and, a uniquely assigned CRK for the nominee. The CRK is required for the new user to create an account.

5. Review the instructions, warning notice and privacy statement. Print out the CRK and registration instructions for the nominee.



5. For More Information

- UCMR Questions/SDWARS Assistance
 - UCMR Message Center: (800) 949-1581 or email UCMR Message Center (UCMR4@glec.com)
 - Email <u>UCMR Sampling Coordinator (UCMR Sampling Coordinator@epa.gov</u>)
- SDWARS Registration/Log-in Help
 - CDX Help Desk: (888) 890-1995 or email CDX Help Desk (helpdesk@epacdx.net)
- Lab Approval Program
 - Email <u>UCMR Lab Approval (UCMR Lab Approval@epa.gov</u>)
- Flat File or XML Assistance
 - Email <u>CI_TSC-UCMR@epa.gov</u>

Appendix

A. Example Small PWS Scheduled Sampling Reminder

Dear @Model.Contact.FirstName @Model.Contact.LastName,

PWS ID: @Model.PWS.PWSCode PWS Name: @Model.PWS.PWSName

Your public water system (PWS) is scheduled to collect samples for the Unregulated Contaminant Monitoring Rule (UCMR 4) this month. You are receiving this automated email reminder because you are the Safe Drinking Water Accession and Review System (SDWARS) account holder for the PWS.

EPA's implementation contractor, Great Lakes Environmental Center, Inc. (GLEC), will send sampling kits and call the sampler to remind them of the sampling and answer questions.

Thank you.

B. Example Small PWS Results Notification Email

Dear UCMR Contact,

PWS ID: @Model.PWS.PWSCode PWS Name: @Model.PWS.PWSName

Sampling results for the **Unregulated Contaminant Monitoring Rule (UCMR 4)** are available for your PWS in the Safe Drinking Water Accession and Review System (SDWARS4). You are receiving this automated email because you are a UCMR contact for the PWS. You will receive these notices each time new results become available.

How to View your UCMR 4 Sampling Results in SDWARS4:

- 1. Log into <u>CDX/SDWARS4</u> and read/accept your notification letter if you have not done so already.
- 2. Click the left sidebar link "Review Data".
- 3. Click "Advanced Search" and select your "PWS" from the drop down menu.
- 4. At the bottom of the screen click the "**search**" button.
- Reported values equal to or greater than the minimum reporting level (MRL) are displayed in μg/L. Results less than the MRL are denoted with a checked box under the "MRL (μg/L)" column. No data reportable (NDR) indicates that EPA could not obtain valid data for this contaminant during the scheduled sampling event.
- 6. You can also download your results using the downward arrow at the top right hand corner of the page.

What if I do not have a CDX/SDWARS4 account (e.g., misplaced or never received a CRK from EPA]?

Please contact the CDX Help Desk via email at <u>helpdesk@epacdx.net</u> or call toll-free at 1-888-890-1995 between 8:00 a.m. and 6:00 p.m. (EST) Monday through Friday. Let the CDX Help Desk know that you are a small system (provide PWS ID) and that you would like a SDWARS4 account.

What if I can't find my sampling results once I have logged into SDWARS4?

If you need help navigating the SDWARS database, please contact the UCMR Message Center at (800) 949-1581 or UCMR4@glec.com. In addition, a SDWARS Instruction document with screen shots is available on our website.

C. "Status" definitions for small PWS

Small PWS Statuses:

- EPA Approve/State Hold: After a lab approves data for a small system, it becomes available for view by the PWS, the EPA and the State and appears to the small PWS with this status. No action is required of the small PWS at this point.
- **State Reviewed:** Data with this status has been marked as "Reviewed" by the state. The state may choose to do this if they routinely review data and want to be able to filter for only new data they have not reviewed yet.

D. Method Code-Analyte Code Relationship and MRLs

Method Code	Analyte Code	Analyte Name	Analyte Short Name	Analyte Type	MRL
EPA 200.8	1053	germanium		Analyte	0.3 μg/L
EPA 200.8	1032	manganese		Analyte	0.4 μg/L
EPA 200.8	IIND	indium	In	Alternate Internal	
EPA 200.8	ΙΥΤΤ	yttrium	Y	Internal	
EPA 525.3	2115	alpha- hexachlorocyclohexane		Analyte	0.01 μg/L
EPA 525.3	2057	chloropyrifos		Analyte	0.03 μg/L
EPA 525.3	2116	dimethipin		Analyte	0.2 μg/L
EPA 525.3	7570	ethoprop		Analyte	0.03 μg/L
EPA 525.3	2117	oxyfluorfen		Analyte	0.05 μg/L
EPA 525.3	2118	profenofos		Analyte	0.3 μg/L
EPA 525.3	2119	tebuconazole		Analyte	0.2 μg/L
EPA 525.3	2114	total permethrin		Analyte	0.04 μg/L
EPA 525.3	2120	tribufos		Analyte	0.07 μg/L
EPA 525.3	IACE	acenaphthene- d_{10} (IS 1)		Internal	
Method Code	Analyte Code	Analyte Name	Analyte Short Name	Analyte Type	MRL
----------------	-----------------	---	-----------------------	-----------------------	------------
EPA 525.3	IPHE	phenanthrene-d ₁₀ (IS 2)		Internal	
EPA 525.3	ICHR	chrysene-d ₁₂ (IS 3)		Internal	
EPA 525.3	SDMN	1,3-dimethyl-2- nitrobenzene (SUR 1)		Surrogate	
EPA 525.3	STPP	triphenyl phosphate (SUR 2)		Surrogate	
EPA 525.3	SBAP	benzo[a]pyrene-d ₁₂ (SUR 3)		Surrogate	
EPA 530	2433	butylated hydroxyanisole		Analyte	0.03 μg/L
EPA 530	2434	o-toluidine		Analyte	0.007 μg/L
EPA 530	3435	quinoline		Analyte	0.02 μg/L
EPA 530	IACE	acenaphthene-d10 (IS 1)		Internal	
EPA 530	IPHE	phenanthrene- d_{10} (IS 2)		Internal	
EPA 530	STOL	o-toluidine-d ₉ (SUR 1)		Surrogate	
EPA 530	SQUI	quinoline-d ₇ (SUR 2)		Surrogate	
EPA 541	2084	1-butanol		Analyte	2.0 μg/L
EPA 541	2431	2-methoxyethanol		Analyte	0.4 μg/L
EPA 541	2432	2-propen-1-ol		Analyte	0.5 μg/L
EPA 541	ICHL	chlorobenzene-d₅		Internal	
EPA 541	SBUT	1-butanol-d ₁₀		Surrogate	
EPA 541	SPRO	2-propen-1-ol-d ₆		Optional Surrogate	
EPA 544	3303	microcystin-LA		Analyte	0.008 μg/L
EPA 544	3304	microcystin-LF		Analyte	0.006 μg/L
EPA 544	3305	microcystin-LR		Analyte	0.02 μg/L
EPA 544	3306	microcystin-LY		Analyte	0.009 μg/L
EPA 544	3307	microcystin-RR		Analyte	0.006 μg/L
EPA 544	3308	microcystin-YR		Analyte	0.02 μg/L
EPA 544	3309	nodularin		Analyte	0.005 μg/L

Method Code	Analyte Code	Analyte Name	Analyte Short Name	Analyte Type	MRL
EPA 544	IMLF	microcystin-LF-d₅		Optional Internal	
EPA 544	IMLR	microcystin-LR-d7		Optional Internal	
EPA 544	SETH	ethylated MC-LR, d ₅		Surrogate	
EPA 544	SMLF	microcystin-LR-d₅		Alternate Surrogate	
EPA 545	3311	anatoxin-a		Analyte	0.03 μg/L
EPA 545	3302	cylindrospermopsin		Analyte	0.09 μg/L
EPA 545	IURA	uracil-d4		Internal	
EPA 545	IPHA	L-phenylalanine-d₅		Internal	
EPA 545	ICYL	cylindrospermopsin-d₅		Alternate Internal	
EPA 546	3301	total microcystin		Analyte	0.3 μg/L
EPA 546	CVTM	%CV		Coefficient of Variation	
EPA 552.3	2456	НАА5		Analyte	
EPA 552.3	2457	HAA6Br		Analyte	
EPA 552.3	2459	НАА9		Analyte	
EPA 552.3	2455	bromochloroacetic acid	BCAA	QHS	0.3 μg/L
EPA 552.3	9535	bromodichloroacetic acid	BDCAA	QHS	0.5 μg/L
EPA 552.3	9339	chlorodibromoacetic acid	CDBAA	QHS	0.3 μg/L
EPA 552.3	9639	tribromoacetic acid	ТВАА	QHS	2.0 μg/L
EPA 552.3	2453	monobromoacetic acid	MBAA	QHS	0.3 μg/L
EPA 552.3	2454	dibromoacetic acid	DBAA	QHS	0.3 μg/L
EPA 552.3	2451	dichloroacetic acid	DCAA	QHS	0.2 μg/L
EPA 552.3	2450	monochloroacetic acid	МСАА	QHS	2.0 μg/L
EPA 552.3	2452	trichloroacetic acid	ТСАА	QHS	0.5 μg/L
EPA 552.3	ITCP	1,2,3-trichloropropane	1,2,3-TCP	Internal	

Method Code	Analyte Code	Analyte Name	Analyte Short Name	Analyte Type	MRL
EPA 552.3	IBFB	p-bromofluorobenzene		Alternate Internal	
EPA 552.3	IDBP	2,3-dibromopropionate		Alternate Internal	
EPA 552.3	SBBA	2-bromobutanoic acid		Surrogate	
EPA 552.3	SDBP	2,3-dibromopropanoic acid		Alternate Surrogate	
EPA 552.3	SBPA	2-bromopropionic acid		Alternate Surrogate	
EPA 557	2456	НАА5		Analyte	
EPA 557	2457	HAA6Br		Analyte	
EPA 557	2459	НАА9		Analyte	
EPA 557	2455	bromochloroacetic acid	BCAA	QHS	0.3 μg/L
EPA 557	9535	bromodichloroacetic acid	BDCAA	QHS	0.5 μg/L
EPA 557	9339	chlorodibromoacetic acid	CDBAA	QHS	0.3 μg/L
EPA 557	9639	tribromoacetic acid	ТВАА	QHS	2.0 μg/L
EPA 557	2453	monobromoacetic acid	MBAA	QHS	0.3 μg/L
EPA 557	2454	dibromoacetic acid	DBAA	QHS	0.3 μg/L
EPA 557	2451	dichloroacetic acid	DCAA	QHS	0.2 μg/L
EPA 557	2450	monochloroacetic acid	MCAA	QHS	2.0 μg/L
EPA 557	2452	trichloroacetic acid	ТСАА	QHS	0.5 μg/L
EPA 557	IMCA	monochloroacetic acid-2- ¹³ C		Internal	
EPA 557	IMBA	monobromoacetic acid-1- ¹³ C		Internal	
EPA 557	IDCA	dichloroacetic acid-2- ¹³ C		Internal	
EPA 557	ITCA	trichloroacetic acid-2-13C		Internal	
EPA 415.3	2920	total organic carbon	тос	Indicator	1000 µg/L
SM 5310B	2920	total organic carbon	тос	Indicator	1000 µg/L
SM 5310C	2920	total organic carbon	тос	Indicator	1000 μg/L

Method Code	Analyte Code	Analyte Name	Analyte Short Name	Analyte Type	MRL
SM 5310D	2920	total organic carbon	тос	Indicator	1000 μg/L
EPA 300.0	1004	bromide		Indicator	20 µg/L
EPA 300.1	1004	bromide		Indicator	20 μg/L
EPA 317.0	1004	bromide		Indicator	20 μg/L
EPA 326.0	1004	bromide		Indicator	20 µg/L
ASTM D6581	1004	bromide		Indicator	20 μg/L

Note: Internal standards and surrogates do not have MRLS because they are QC data.

E. Large PWS Scheduling Reminder

The Safe Drinking Water Accession and Review System (SDWARS) indicates that your public water system (PWS) listed below is scheduled to monitor for the Unregulated Contaminant Monitoring Rule (UCMR4). You received this automated email reminder because you are a SDWARS contact for the PWS listed below.

PWS ID: PWS Name:

Before monitoring for UCMR4, please review your sampling locations to make sure they are listed correctly in SDWARS, the Federal UCMR4 reporting system. If everything is correct, no **further action is required.** If they are incorrect, it is imperative that any inventory changes are made before you sample or the laboratory posts data in SDWARS. Remember to answer the additional data elements questions at the time of sampling. These questions can be found by selecting "Schedule/Data Elements" from the left side menu, selecting the AM2 monitoring requirement (to input treatment information), then clicking on the sampling event. Then, if necessary, selecting the AM3 monitoring requirement (to answer cyanotoxin questions), then clicking on the sample event.

If you need help logging onto or navigating the SDWARS database, please contact the UCMR Message Center at (800) 949-1581 or UCMR4@glec.com.

Thank you.

F. Large System Data Elements Reminder

Hello @Model.Contact.FirstName @Model.Contact.LastName,

One or more data elements are missing from CDX/SDWARS for your PWS (@Model.PWS.PWSCode). You are required to respond to all the data element questions, with the exception of comments which are optional. Specifically, data elements must be entered for AM2 distribution system locations (including disinfectant types, disinfectant residuals and treatment information) and AM3 (including disinfectant types, cyanotoxin information and treatment information). Comments may be entered for AM1, AM2 or AM3, for instance, if you wish to explain missing data.

You can log into the SDWARS application in CDX at: @Model.CdxWebRootUrl. To enter data elements: 1) select "Schedule/Data Elements" from the left-side menu; 2) select a monitoring type; 3) click on a sampling date button to display a drop-down menu of the data elements; 4) select a specific data element; 5) enter your response(s); 6) save your changes; 7) repeat #2 through 5 for each monitoring type, sampling date and data element.

If you have questions on how to log into CDX, please contact the CDX Help Desk at @Model.CdxHelpDeskPhone or @Model.CdxHelpDeskEmail. If you have questions about UCMR or SDWARS data entry, or feel that you received this email in error, please contact UCMR Message Center at (800) 949-1581 or ucmr4@glec.com

Thank you.

This is an automated notification from the UCMR4 SDWARS application. You are receiving this notification because you are identified as a PWS Contact in the SDWARS database by either you or a colleague. If you would like to stop these notifications, you (or your colleague) need use the SDWARS application and log into your PWS role where you will find a Contacts option on the left-side navigation. For your Contact record, un-check the Receive Auto Email Notification(s) box for Any Missing Additional Data Notifications.

G. Example Large PWS Results Notification Email

Subject:

Lab Posted Data Notification

Body:

A laboratory has approved data for your PWS to review. You have 60 days to review and approve or reject this data before the system automatically approves it.

You can log into the SDWARS application in CDX at:

@Model.CdxWebRootUrl

If you have questions on how to log into CDX, please contact the CDX Help Desk at @Model.CdxHelpDeskPhone or via email at @Model.CdxHelpDeskEmail. If you have UCMR Questions/SDWARS Data Entry (including if you feel that you received this email in error), please contact UCMR Message Center: (800) 949-1581 or via email at <u>UCMR4@glec.com</u>.

Thank you.

This is an automated notification from the UCMR4 SDWARS application. You are receiving this notification because you are identified as a PWS Contact in the SDWARS database by either you or a colleague. If you would like to stop these notifications, you (or your colleague) need use the SDWARS application and log into your PWS role where you will find a Contacts option on the left-side navigation. For your Contact record, un-check the Receive Auto Email Notification(s) box for Lab Posted Data Notifications.

H. UCMR 4 Inventory and Resampling for Laboratories

This document provides laboratories that are approved by EPA to support the fourth Unregulated Contaminant Monitoring Rule (UCMR 4) with a brief overview of inventory and resampling for large PWS clients. Assessment monitoring (AM 1) is not included in this document because the inventory (entry points) and resampling processes follow the traditional approach.

UCMR 4 Assessment Monitoring: AM 2

UCMR 4 Haloacetic Acid (HAA) Groups

- HAA results will be reported for three groups: HAA5, HAA6Br and HAA9.
- Quality HAA sample (QHS): the results of individual HAAs prior to summation that are submitted for quality control purposes. ALL QHSs and associated QC must pass within a sample (same collection date) for summation.

HAA Groups			
dichloroacetic acid (DCAA)			
monochloroacetic acid (MCAA)			
trichloroacetic acid (TCAA)	(MCL 0.060		
monobromoacetic acid (MBAA)			
dibromoacetic acid (DBAA)			HAA9
bromochloroacetic acid (BCAA)			
bromodichloroacetic acid (BDCAA)		паабы	
chlorodibromoacetic acid (CDBAA)			
tribromoacetic acid (TBAA)			

• The UCMR 4 HAAs should be sampled at the D/DBPR locations where HAA5 is sampled for compliance. The following table is based on the federal D/DBPR requirements. However, the primacy state requirements may differ. The PWS should sample the D/DBPR locations that are currently required by their primacy state.

Source Water Type	Population	Number of UCMR 4 HAA Sampling Locations based on the Number of D/DBPR Locations where HAA5 is Sampled for Compliance		
		Routine Monitoring	Reduced Monitoring	
	< 500	1	1	
	500 - 3,300	1	1	
	3,301 - 9,999	2 DSS	2 DSS	
	10,000 - 49,000	4 DSS	2 DSS	
SW and GWUDI	50,000 - 249,999	8 DSS	4 DSS	
(Subpart H)	250,000 - 999,999	12 DSS	6 DSS	
	1,000,000 -4,999,999	16 DSS	8 DSS	
	≥ 5,000,000	20 DSS	10 DSS	
	< 500	1	1	
	500-9,999	2 DSS	1	
Ground Water	10,000-99,999	4 DSS	2 DSS	
	100,000-499,999	6 DSS	2 DSS	
	≥ 500,000	8 DSS	4 DSS	

• Total Organic Carbon (TOC) and Bromide (Br) (HAA indicators)

- TOC and Br should be monitored at the following locations in source water prior to treatment (see diagram below) at the same time as HAA samples (or as close as is feasible).
- Entry points associated with 100% purchased water (consecutive connections) do not need to be sampled for TOC and Br.



Resamples

- **HAAs:** Resample location(s) that did not produce valid results for ALL QHSs within a sample (same collection date).
- **TOC and Br:** Resample location(s) that did not produce valid results. QC for TOC and Br will not be submitted to SDWARS but the labs must follow sample receipt and QC requirements as prescribed in the method(s). Please resample if all the criteria are not met.
 - Example: A PWS has four HAA distribution system locations and two source water (TOC/Br) locations. One of the HAA locations is invalid (e.g., TBAA failed) and one of the source water locations is invalid for TOC only. Only resample those locations and methods that are invalid. The sampler should re-collect the HAA and TOC samples at the same time (or as close as is feasible).
 - **Example:** The same PWS (described above) has two HAA locations that are invalid. Only resample those locations.
- o If a PWS misses the first sampling event, the PWS can contact the

<u>UCMR_Sampling_Coordinator@epa.gov</u> to reset the schedule for the next month or another month/year. Once the first sampling event has been collected and is acceptable/valid, the monitoring schedule cannot be changed. Therefore, if a PWS is unable to sample at a location or obtain a valid result for future sampling events, a comment should be entered into SDWARS.

• One Sample for HAA5 Compliance and UCMR 4 HAAs

• The PWS may use a single lab to support D/DBPR compliance monitoring and UCMR 4 HAA monitoring, even if the lab is out of state, if that lab is certified/accredited by the state for D/DBPR compliance

monitoring for EPA Method 552.3 or 557 AND approved by EPA through the UCMR 4 Laboratory Approval Process for EPA Method 552.3 or 557.

• If the lab does not fulfil these above requirements the PWS can still coordinate their sampling but will have to take two different samples and send to two different labs.

UCMR 4 Assessment Monitoring: AM 3

Cyanotoxins

- The following diagram illustrates the cyanotoxin analysis order.
- Do NOT analyze EPA Method 544 until you have analyzed EPA Method 546 (ELISA). Note: The results from EPA Method 544 can only be loaded into SDWARS if EPA Method 546 has been added with a result ≥ MRL and passed QC.



Resamples

- If a sample is invalid, it should be resampled if it can be re-collected prior to the next scheduled sampling event (~2 weeks). In those cases, where it proves impractical to resample, PWSs should enter a comment in SDWARS outlining the circumstances of the missing result.
 - Example: A PWS sample has an EPA Method 546 result ≥ 0.3 µg/L but method 544 is invalid due to a QC error. If re-collection cannot happen prior to the next scheduled sampling event, a resample for 544 is not required. The results for method 546 should be reported.
 - **Example:** A PWS sample for method 546 is invalid upon sample receipt. If re-collection can happen prior to the next scheduled sampling event, it is recommended to resample both 546 and 544.
 - **Example:** A PWS sample for method 544 is invalid upon sample receipt. If re-collection can happen prior to the next scheduled sampling event, it is recommended to resample both 546 and 544. If re-collection cannot happen in this timeframe, proceed with method 546.
- If a PWS misses the first sampling event, the PWS can contact the <u>UCMR_Sampling_Coordinator@epa.gov</u> to reset the schedule for the next month or another month/year (do not take samples for the second sampling event – week 3 or 4). However, once the first

sampling event has been collected and is acceptable/valid, the monitoring schedule cannot be changed. Therefore, if a PWS is unable to sample at a location or obtain a valid result for future sampling events, a comment should be entered into SDWARS. The PWS is not required to add additional sampling events to the end of their schedule.

• EPA recommends that water systems take duplicate samples (as they do for small systems) to reduce the probability for sampling and QC errors.

UCMR 4 Data Elements

Below is a list of UCMR 4 Data Elements, definitions, and drop down options that will be provided in SDWARS. For data uploading requirements, please also refer to the Flat File Upload Specifications document in SDWARS.

Data element	Definition
1. Public Water System	The code used to identify each PWS. The code begins with the standard 2-
Identification (PWS ID)	character postal State abbreviation or Region code; the remaining 7 numbers are
Code	unique to each PWS in the State. The same identification code must be used to
	represent the PWS identification for all current and future UCMR monitoring.
2. Public Water System	Unique name, assigned once by the PWS.
Name	
3. Public Water System	An identification code established by the State or, at the State's discretion, by the
Facility Identification Code	PWS, following the format of a 5-digit number unique within each PWS for each
	applicable facility (i.e., for each source of water, treatment plant, distribution
	system, or any other facility associated with water treatment or delivery). The
	same identification code must be used to represent the facility for all current and
	future UCMR monitoring.
4. Public Water System	Unique name, assigned once by the PWS, for every facility ID (e.g., Treatment
Facility Name	Plant).
5. Public Water System	That code that identifies that type of facility as either:
Facility Type	CC = consecutive connection
	DS = distribution system
	IN = source water influent
	SS = sampling station
	TP = treatment plant
	OT = other
6. Water Source Type	The type of source water that supplies a water system facility. Systems must
	report one of the following codes for each sampling location:
	SW = surface water (to be reported for water facilities that are served entirely by
	a surface water source during the twelve-month period).
	GW = ground water (to be reported for water facilities that are served entirely by
	a ground water source during the twelve-month period).
	GU = ground water under the direct influence of surface water (to be reported for
	water facilities that are served all or in part by ground water under the direct
	influence of surface water at any time during the twelve-month sampling period),
	and are not served at all by surface water during this period.
	MX = mixed water (to be reported for water facilities that are served by a mix of
	surface water, ground water and/or ground water under the direct influence of
	surface water during the twelve-month period).
7. Sampling Point	An identification code established by the State, or at the State's discretion, by the
Identification Code	PWS, that uniquely identifies each sampling point. Each sampling code must be
	unique within each applicable facility, for each applicable sampling location (i.e.,

Data element	Definition
	entry point to the distribution system, source water influent or distribution
	system sample at maximum residence time). The same identification code must
	be used to represent the sampling location for all current and future UCMR
	monitoring.
8. Sampling Point Name	Unique sample point name, assigned once by the PWS, for every sample point ID
	(e.g., Entry Point).
9. Sampling Point Type	A code that identifies the location of the sampling point as either:
Code	SR = source water taken from plant influent; untreated water entering the water
	treatment plant (i.e., a location prior to any treatment).
	EP = entry point to the distribution system.
	DS = distribution system sample.
10. Disinfectant Type	All of the disinfectants/oxidants that have been added prior to the entry point to
	the distribution system. Please select all that apply.
	PEMB = Permanganate
	HPXB = Hydrogen peroxide
	CLGA = Gaseous chlorine
	CLOF = Offsite Generated Hypochlorite (stored as a liquid form)
	CLON = Onsite Generated Hypochlorite
	CAGC = Chloramine (formed with gaseous chlorine)
	CAOF = Chloramine (formed with offsite hypochlorite)
	CAON = Chloramine (formed with onsite hypochlorite)
	CLDB = Chlorine dioxide
	OZON = Ozone
	ULVL = Ultraviolet light
	OTHD = Other types of disinfectant/oxidant
	NODU = No disinfectant/oxidant used
11. Treatment Information	Treatment information associated with the sample point. Please select all that
	apply.
	CON = Conventional (non-softening, consisting of at least
	coagulation/sedimentation basins and filtration)
	INF = In-line filtration
	DFL = Direct filtration
	SFN = Softening
	SSF = Slow sand filtration
	GAC = Granular activated carbon adsorption (not part of filters in CON, SFN, INF,
	DFL, or SSF)
	POB = Pre-oxidation with chlorine (applied before coagulation for CON or SFN
	plants or before filtration for other filtration plants)
	RBF = River bank filtration
	PSD = Pre-sedimentation
	BIO = Biological filtration (operated with an intention of maintaining biological
	activity within filter)
	UTR = Unfiltered treatment for surface water source
	GWD = Groundwater system with disinfection only
	PAC = Application of powder activated carbon
	AIR = Air stripping (packed towers, diffused gas contactors)
	MFL = Membrane filtration

Data element	Definition
	IEX = Ionic exchange
	DAF = Dissolved air floatation
	CWL = Clearwell/finished water storage without aeration
	CWA = Clearwell/finished water storage with aeration
	ADS = Aeration in distribution system (localized treatment)
	OTH = Other types of treatment
	NTU = No treatment used
	DKN = Do not know
12. Disinfectant Residual	Disinfectant residual type in the distribution system for each HAA sample.
Туре	CL2 = Chlorine (i.e., originating from addition of free chlorine only)
	CLO2 = Chlorine dioxide
	CLM = Chloramines (originating from the addition of chlorine and ammonia or
	pre-formed chloramines)
	CAC = Chlorine and chloramines (if being mixed from chlorinated and
	chloraminated water)
	NOD = No disinfectant residual
13. Sample Collection Date	The date the sample is collected, reported as 4-digit year, 2-digit month, and 2-
	digit day (YYYY/MM/DD).
14. Sample Identification	An alphanumeric value up to 30 characters assigned by the laboratory to uniquely
Code	identify containers, or groups of containers, containing water samples collected at
	the same sampling location for the same sampling date.
15. Contaminant	The unregulated contaminant for which the sample is being analyzed.
16. Analytical Method	The identification code of the analytical method used.
Code	· ·
17. Extraction Batch	Laboratory assigned extraction batch ID. Must be unique for each extraction batch
Identification Code	within the laboratory for each method. For CCC samples report the Analysis Batch
	Identification Code as the value for this field. For methods without an extraction
	batch, leave this field null.
18. Extraction Date	Date for the start of the extraction batch (YYYY/MM/DD). For methods without an
	extraction batch, leave this field null.
19. Analysis Batch	Laboratory assigned analysis batch ID. Must be unique for each analysis batch
Identification Code	within the laboratory for each method.
20. Analysis Date	Date for the start of the analysis batch (YYYY/MM/DD).
21. Sample Analysis Type	The type of sample collected and/or prepared, as well as the fortification level.
	Permitted values include:
	CCC = continuing calibration check; a calibration standard containing the
	contaminant, the internal standard, and surrogate analyzed to verify the existing
	calibration for those contaminants. The Low-CV used in EPA Method 546 is
	equivalent to a CCC.
	%CV = percent coefficient of variation; used in EPA Method 546, the %CV is the
	standard deviation of the well replicate absorbances divided by the mean of the
	well replicate absorbances multiplied by 100%.
	FS = field sample; sample collected and submitted for analysis under this rule.
	IS = internal standard; a standard that measures the relative response of
	contaminants.
	LFB = laboratory fortified blank; an aliquot of reagent water fortified with known
	quantities of the contaminants and all preservation compounds.
	LRB = laboratory reagent blank; an aliquot of reagent water treated exactly as a

Data element	Definition
	field sample, including the addition of preservatives, internal standards, and
	surrogates to determine if interferences are present in the laboratory, reagents,
	or other equipment.
	LFSM = laboratory fortified sample matrix; a UCMR field sample with a known
	amount of the contaminant of interest and all preservation compounds added.
	LFSMD = laboratory fortified sample matrix duplicate; duplicate of the laboratory
	fortified sample matrix.
	QCS = quality control sample; a sample prepared with a source external to the one
	used for initial calibration and CCC. The QCS is used to check calibration standard
	integrity.
	QHS = guality HAA sample; the results of individual HAAs prior to summation that
	are submitted for quality control purposes.
	SUR = surrogate standard; a standard that assesses method performance for each
	extraction.
22. Analytical Results—	A value indicating whether the sample analysis result was:
Sign	(<) "less than" means the contaminant was not detected, or was detected at a
	level below the Minimum Reporting Level.
	(=) "equal to" means the contaminant was detected at the level reported in
	"Analytical Result— Measured Value "
23. Analytical Result—	The actual numeric value of the analytical results for: field samples: laboratory
Measured Value	fortified matrix samples: laboratory fortified sample matrix duplicates: and
	concentration fortified.
24. Additional Value	Represents the true value or the fortified concentration for spiked samples for OC
	Sample Analysis Types (CCC_EOC_LEB_LESM and LESMD) For Sample Analysis
	Type FS and LRB and for LS and surrogate OC Contaminants, leave this field null.
25 Laboratory	The code assigned by EPA used to identify each laboratory. The code begins with
Identification Code	the standard two-character State postal abbreviation: the remaining five numbers
	are unique to each laboratory in the State.
26. Sample Event Code	A code assigned by the PWS for each sample event. This will associate samples
	with the PWS monitoring plan to allow EPA to track compliance and
	completeness. Systems must assign the following codes:
	SEC1. SEC2. SEC3. SEC4. SEC5. SEC6. SEC7 and SEC8 - represent samples collected
	to meet UCMR Assessment Monitoring requirements for cvanotoxins: where
	"SEC1" represents the first sampling period "SEC2" the second period and so
	for the for all eight sampling events
	SEA1 SEA2 SEA3 and SEA4 - represent samples collected to meet LICMR
	Assessment Monitoring requirements for the metals nesticides alcohols and
	SVOCs: where "SEA1" and "SEA2" represent the first and second sampling period
	for all water types: and "SEA3" and "SEA4" represent the third and fourth
	sampling period for SW and GLI sources only
	SEH1 SEH2 SEH3 and SEH4 - represent samples collected to meet LICMR
	Assessment Monitoring requirements for the HAAs: where "SEH1" and "SEH2"
	represent the first and second sampling period for all water types; and "SEH3" and
	"SEHA" represent the third and fourth sampling period for SW and GU sources
	only
27 Bloom Occurrence	A ves or no answer provided by the PW/S for each cyanotoxin sample event
27. bloom occurrence	Question: Preceding the finished water sample collection, did you observe an algo-
	bloom in your source waters near the intake?
	VES - if yes select All that apply:
	τες – II yes, select ALL that αμβιγ.

Data element	Definition
	YD = yes, on the day the UCMR cyanotoxin sample was collected
	YW = yes, between the day the sample was taken and the past week
	YM = yes, between the past week and past month
	YY = yes, between the past month and past 12 months
	YP = yes, more than a year ago
	NO = have never seen a bloom
	DK = do not know
	NA = purchased consecutive connection (no source water)
28. Cyanotoxin Occurrence	A yes or no answer provided by the PWS for each cyanotoxin sample event.
	Question: Preceding the finished water sample collection, were cyanotoxins ever
	detected in your source waters near the intake and prior to any treatment (based
	on sampling by you or another party)?
	YES = if yes, select ALL that apply:
	YD = yes, on the day the UCMR cyanotoxin sample was collected
	YW = yes, between the day the sample was taken and the past week
	YM = yes, between the past week and past month
	YY = yes, between the past month and past 12 months
	YP = yes, more than a year ago
	Select ALL that apply (i.e., all that were detected) if you answered YES to detecting
	cyanotoxins in source water:
	MIC = Microcystins
	CYL = Cylindrospermopsin
	ANA = Anatoxin-A
	SAX = Saxitoxins
	OTH = Other
	DK = do not know
	NO = have never detected cyanotoxins in source water
	NS = unaware of any source water cyanotoxin sampling
29. Indicator of Possible	A yes or no answer provided by the PWS for each cyanotoxin sample event.
Bloom – Treatment	Question: Preceding the finished water sample collection, did you notice any
	changes in your treatment system operation and/or treated water quality that
	may indicate a bloom in the source water?
	YES = if yes, select ALL that apply:
	DFR = Decrease in filter runtimes
	ITF = Increase in turbidity in filtered water
	ICD = Need for increased coagulant dose
	TOI = Increase in taste and odor issues in finished water
	IOD = Need for increase in oxidant/disinfectant dose
	IDB = Increase in TTHM/HAA5 in finished water
	OTH = Describe other changes
	NO = no changes observed
	DK = do not know
30. Indicator of Possible	A yes or no answer provided by the PWS for each cyanotoxin sample event.
Bloom – Source Water	Question: Preceding the finished water sample collection, did you observe any
Quality Parameters	notable changes in source water quality parameters (if measured)?
	YES = if yes, select ALL that apply to the source water:

Data element	Definition
	TP = Increase in water temperature
	ITU = Increase in turbidity
	IAL = Increase in alkalinity
	ITO = Increase in total organic carbon
	ICD = Increase in chlorine demand
	IPH = Increase in pH and/or DPH = Decrease in pH
	ICA = Increase in chlorophyll a
	IPY = Increase in phycocyanin
	INU = Increase in nutrients (example: nitrogen or phosphorus)
	OTH = Describe other changes
	NO = no changes observed
	DK = do not know

I. "Status" definitions for large PWS

Large PWS Statuses:

- Hold: After a lab approves data, it will appear on the PWS review screen with this status. At this point, the data may not be edited and the PWS and lab are the only parties who can view it. The PWS may approve the data to release it to the state and EPA or may return it to the lab if there is an error that the lab needs to correct. If the PWS returns the data to the lab, this result will no longer be viewable to the PWS until the lab approves it again.
- **PWS Approve/State Hold:** This status applies to data that has been approved by the PWS. Data with this status is viewable by the State and EPA.
- **SDWARS Approve/State Hold:** Data will appear in this status if it has been sitting in the PWS hold status for 60 days, SDWARS automatically approves the data and it becomes SDWARS approved and available to the state and EPA.
- **State Reviewed:** Data with this status has been marked as "Reviewed" by the state. The state may choose to do this if they routinely review data and want to be able to filter for only new data they have not reviewed yet.

J. "Status" definitions for laboratories

Lab Statuses:

- Hold: When labs first load data and it has passed QC, it will appear on the lab review screen with this status. The lab may edit, delete, or overwrite results in this status. The lab is the only party that can see the data at this time. Data will also appear with this status if a PWS returns data to a lab. Labs can search for data returned to them by using the advanced search options in the Review Data screen and selecting "PWS Return to Lab." Data will remain in the Hold status until the lab takes action to approve it.
- (QC): This status applies to the internal standards and surrogates that have missing or failing QC. The lab is the only party that can see data with this status. In order for the lab to be able to approve this data, missing or corrected QC must be uploaded.

- Lab Hold (QC): This status applies to the analytes that are reportable to the PWS that have missing or failing QC. In order for the lab to be able to approve this data, missing or corrected QC must be uploaded. The lab is the only party that can see data with this status.
- Lab Approve/PWS Hold: Data will appear in this status after the lab has taken action to approve it. At this point the PWS and the lab are the only parties who can view the data. The data can no longer be edited. If a lab needs to edit data that is in Lab Approve/PWS Hold, the PWS may take action to return the data to the lab. If data are returned to the lab from a PWS, the data returns to the Hold status and the lab is the only party who will be able to view the data until it is approved again.
- **PWS Approve/State Hold:** This status applies to data that has been approved by the PWS. Data with this status is viewable by the State and EPA.
- **SDWARS Approve/State Hold:** Data will appear in this status if it has been sitting in the PWS hold status for 60 days, SDWARS automatically approves the data and it becomes SDWARS approved and available to the state and EPA.
- **State Reviewed:** Data with this status has been marked as "Reviewed" by the state. The state may choose to do this if they routinely review data and want to be able to filter for only new data they have not reviewed yet.