

COMPLIANCE MONITORING DATA PORTAL USER MANUAL

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Prepared by:

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REVISION HISTORY

Version	Date of		Revision
Number	Revision	Description of Changes	Entered By
0.1	04/2016	CMDP User Manual.	INDUS
0.2	08/2016	CMDP User Manual edits.	Will
			Bowman
			(EPA Product
			Owner)
0.3	08/2016	CMDP User Manual edits.	Will
			Bowman
			Attain, LLC
0.4	08/2016	CMDP User Manual edits.	Attain, LLC
0.5	09/2016	CMDP User Manual edits – Operational Sample	Will
		Types Field Descriptions.	Bowman
0.6	09/2016	CMDP User Manual edits – review product	Attain, LLC
		owner input and changes according to	
		comments.	
0.7	09/2016	CMDP User Manual edits – formatting, edit	Attain, LLC
	00/2016	checks, reference checks.	XX 7*11
0.8	09/2016	Minor edits	Will Deserves
0.0	10/2016	Changed LIDL for CMDD Llabs Dealy Minor	Bowman
0.9	10/2016	edita to data alement tables	Will
0.0.1	10/2016	"CMDP Help Desk" added to decument	Will
0.9.1	10/2010	CWDI Help Desk added to document.	Bowman
1.0	10/2016	Additional editorial undates and clarifications:	Will
110	10/2010	added two data elements for residuals. For	Bowman
		CMDP version 1.1	and Brianna
			Knoppow
1.1	12/2016	Updates to Chlorine/Chloramine Entering DS,	Will
		Chlorine/Chloramine in DS, Chlorine Dioxide,	Bowman
		and Chlorite web forms.	
1.2	12/2017	Updated validation tables, screen shots, added	Brianna
		'sample received date' where relevant, reworded	Knoppow
		coliform/E.coli validation, minor edits.	
1.2	12/2017	Added new fields/labels to the data elements	Attain, LLC
		tables for Chlorine/Chloramines in Distribution	
		System sample data entry. Updated Screenshots	
		for "Chlorine / Chloramine in DS" CMDP web	
		form (for DS RDC and MRDL reporting) and	
	L	added new fields to the Data Elements Grid.	
1.3	12/2017	Updated figures formatting. Incorporated v1.10	Brianna
		update in which TTHM / HAA5 and Composite	Knoppow
		Samples are now mapped to XML Sampling.	

1.4	03/2018	Increase size for numeric fields in Chem/Rad, Micro, Crypto, and Composite screens (as applicable): Sample Result, Sample Field Result and Measure, Reporting Limit	Attain, LLC
1.5	5/2019	 Updated for changes in CMDP 1.14. Updated the screen shot for the CMDP login page to reflect the removal of the following links: Forgot Password and Forgot UserID. 	Attain, LLC
1.6	8/2019	 Updated for CMDP 1.15. For 22 Time fields, When the Time is 00:00:00, the application does not populate the XML tags. The change was applied to the Collection Time, Analysis Start Time, and Analysis Completed Time for all sample types and for default values. 	Attain, LLC
1.7	10/2019	 Added Job History data elements. Updated for CMDP 1.16 and 1.17: Select an Original Sample ID from a different Water System Added validations to the Result and Result Unit of Measure fields on the Web Forms and XML Upload for Chem/Rads and Composites. Allow Multi-Select of Sample Jobs in Submission Workflow (Send to Reviewer, Send to Certifier). Allow Multi-Select of Sample Jobs to Reject, Remove. Updated the Count field on the Web Forms for Microbial and Cryptosporidium Sample Results to allow decimals Added two search criteria to the Individual Sample Search. Users may now search samples by Analytical Method and Analysis Start Date. 	Attain LLC

1.8	11/2019	 Updated for CMDP 1.18: Corrected text referring to when the Reviewed By, Reviewed On, Certified By, and Certified On columns display on the Job Maintenance View. Updated validations for A/P = Absent. Enabled Count, Volume, and Units when A/P = Absent. Updated Search Individual Samples to allow users to search on Analysis Start Date Range. Updated the CMDP-Job Submission Workflow to allow "Certify and Submit to State" for multiple jobs On the Job Maintenance View, added columns for Total Number of Samples in XML files and Total Number of Samples with Errors in XML file 	Attain, LLC
1.9	12/2019	 Updated for CMDP 1.19: Microbial Samples: Units is conditionally required if Count is valued. Retain trailing decimal zeros in Result field for Chem/Radionuclide Sample Results Grid; and the Count fields for Microbial and Cryptosporidium. Updated the maximum number of digits for Number of Measurements Required and Number of Measurements Taken on the Operational Data, Operational Data, Chlorine Chloramines Entering Distribution System. 	Attain, LLC
1.10	2/2020	 Updated for CMDP 1.20: Added values to the Units (Count Type) dropdown in Microbial Web Form, Cryptosporidium Web Form, and Sample Results Template. For a chem/rad result, updated the validation that the Reporting Limit and Reporting Limit UOM are federally required. Retain trailing decimal zeros in Result field for Field Results & Measurements. Corrected the calculation for Step 1 TOC Removal Ratio calculation (i.e., TOC-21). 	Attain, LLC

1.11	2/2020	Updated for CMDP 1.21:	Attain, LLC
		• Updated the Search Samples section (7.1) and	,
		the Search Operational Data section (7.2) to	
		indicate the change made to the Reset feature	
		on these forms.	
1.12	5/2020	Updated for CMDP 1.23:	Systalex
		• Updated the "Add a Sample to a Job	5
		(6.12.3, 6.12.4, 6.12.5) to include the Person	
		Performing Analysis data element	
1.13	7/2020	Updated for 1.24:	Systalex
_		• Updated to clarify meaning of the data	5
		displayed in Total Records, Records	
		Uploaded, Records Not Uploaded.	
		• Reporting Laboratory is now Required for	
		TTHM/HAA5 Operational Data Summaries	
1.14	11/2020	Updated for CMDP 1.25:	Systalex
		• Updated data definitions for Chem/Rad:	-
		 Results/Results UOM 	
		 Reporting Limit/Reporting Limit UOM 	
1.15	1/2021	Updated for CMDP 1.26	Systalex
		• Updated dashboard info to reflect 45-day	
		limit.	
		 Updated to show Chem/Rad allowing 	
		negative Reporting Limit	
		• Allow multiple jobs to be downloaded using	
		"Download Samples"	
		• Added:	
		6.3.8 Special Note Regarding Time Fields	
1.16	3/2021	Updated for CMDP 1.27	Systalex
		Release Notes only	

1 INTRODUCTION

1.1 ABOUT THIS DOCUMENT

The Compliance Monitoring Data Portal (CMDP) User Manual explains the different CMDP functions and provides step-by-step descriptions of the available functionality in the application.

1.1.1 Intended Audience

The intended audiences of this CMDP User Manual are:

- State and Private Laboratory Users
- Water System Users
- State Primacy Agency Users
- Information Management System (LIMS) Vendors

1.1.2 Acronyms and Definitions

Table 1 - List of Commonly Used Acronyms and Definitions Used throughout the Document

Acronym	Definition
EPA	Environmental Protection Agency
CMDP	Compliance Monitoring Data Portal
SDWIS	Safe Drinking Water Information System
CROMERR	Cross-Media Electronic Reporting Rule
LIMS	Laboratory Information Management System
NPDWRs	National Primary Drinking Water Regulations
PWS	Public Water System
R/O/CR	Federally R equired data field/ O ptional data field /Federally
	Conditionally Required data field (please see Section 6.14)
SDWA	Safe Drinking Water Act
SCS	Shared CROMERR Services
UI	User Interface

1.2 USER SUPPORT AND SPECIFICATIONS

1.2.1 Additional User Support

Training materials and a knowledge library can be found on the CMDP Help Desk: <u>https://cmdp.zendesk.com</u>

1.2.2 Software and Hardware Specifications

Because CMDP is a web-based application, users must have an internet connection established and web browser installed to use the application. Please reference the latest CMDP Release Notes for current list of compatible browsers.

2 CMDP OVERVIEW

2.1 CMDP SYSTEM OVERVIEW

The purpose of the CMDP system is to facilitate the electronic reporting of compliance sample results from laboratories and public water systems (PWSs) to primacy agencies under the National Primary and Secondary Drinking Water Regulations.

The primary components of the CMDP system are the web-based software application and relational database. In addition to the web application and database, there are several other software components supporting the CMDP system, as shown in Figure 1, including:

- MS Excel Templates that support reporting sample results in an XML file uploaded manually
- Web Services that support reporting sample results in an XML file using a Laboratory Information Management System (LIMS)
- The Data Synchronization Engine (DSE) that supports data exchange between CMDP and SDWIS State
- Web Services that support data exchange with primacy agency compliance databases
- A Shared CROMERR Services web application for registration and end-user management.



Figure 1 - CMDP Service Components

This CMDP User Manual contains instructions for use of CMDP by private and state laboratories, public water systems, and primacy agency users. It focuses on the web application user interface, including the web forms for reporting sample results, as well as the MS Excel templates.

Other system components, such as web services, the DSE, and SCS, are described in other documentation, which are available through CMDP Help Desk user support.

As described in the CMDP Role Registration User Guide (also available at the CMDP Help Desk), functionality in CMDP is based on the specific roles acquired at registration. These roles are hierarchical, as shown in Figure 2. For example, in addition to the access rights of their own role, a Public Water System CMDP Administrator has all access rights available to Certifiers,

Reviewers, and Preparers; Certifiers also have access rights as Reviewers and Preparers; and

Reviewers also have access rights as Preparers.



Figure 2 - CMDP Role Hierarchy

Note: In this document, State Laboratory Users and Private Laboratory Users are referred to as Laboratory Users. State Laboratory Users and Private Laboratory Users have the same functionality available to them in CMDP except for the Certification Ceremony: State Laboratory Users do not need to electronically sign Jobs before submission to the State using the SCS electronic signature service.

2.1.1 Web Application User Interface: Layout and Definitions

The user interface is based on a tab structure. Each tab contains a view that may contain sub- tabs. *Three levels of tabs* exist in CMDP. The following is a description of each:

Level 1: Module Tabs: Module Tabs are the top menu tabs available in CMDP, each corresponding to a CMDP module.

There are six System Module Tabs in CMDP: Home, PWS Profiles, Laboratory Profiles, Drinking Water Sample Jobs, Search Individual Samples, and System Administration. (Figure 3)

• State, Laboratory, and Water System Home Pages (Dashboards): These are the landing pages for each CMDP user type that allow a lab or utility to view draft and final submittals (states only see *final* submittals), links to Profiles associated with the user, and any Change Requests.

- Laboratory and PWS Profile Modules: The Profiles are read-only views of a subset of data for laboratories and water systems. Profile Change Requests may be made by a laboratory or Water System when one of the values of a data element in their Profile changes. States may review the Profile Change Requests in their CMDP dashboards and approve them through System Administration. CMDP does not allow changes to Profiles from within the application; states make all changes in their compliance databases and these changes appear in CMDP via the DSE, a separate CMDP system component.
- **Drinking Water Sample Jobs Module**: This module represents the core functionality of CMDP, which is to support the preparation, review, certification and submittal of electronic reporting of drinking water sample results to state primacy agencies in the form of a sample "Job." Web forms support the following categories of samples: microbiological, chemical and radiological, composite samples, cryptosporidium, and operational data.
- Search Samples Module: This module supports searching for samples by one or more of a broad range of criteria (including Job ID, Job Status, Water System, Facility, Collection Date Range, Sample ID, Sample Type, Sample Category, Analyte, and Laboratory).
- **System Administration Module**: Through this CMDP module, states have the ability to manage and approve Profile Change Requests and configure system email notifications.

Level 2: Tabs: Any tabs that appear on the screen in a selected module.

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

Figure 4 - Level 2 Tabs

For example, under the PWS Profiles Module Tab there is the Level 2 Water Systems Tab.

Level 3: Subtabs: Any tabs that appear on the screen within a selected tab.

Home PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration
Job Maintenance View Job Summary View - 2472 💥
Sample Result Operational Data Job History Validations Attachments Composite Samples
Figure 5 - Level 3 Subtabs

For example, under Drinking Water Sample Jobs – Job Summary View, you will see multiple Subtabs. (Figure 5)

2.1.2 Navigation Pane

Some of the views from within a Tab or Subtab may contain a Navigation Pane on the left side of the screen. As shown in Figure 6, when selecting a specific Laboratory Profile from within Laboratory Profiles, the Navigation Pane appears.

Navigation Pane							
Laboratory							
🗞 Profile							
🕸 Change Request							
Figure 6 - Navigation	Pane						

Users can navigate views by selecting an item from the Navigation Pane. (Figure 6 - Navigation Pane)

2.1.3 Web Application Tables

Water System ID	Water System Name	Water System Type	Water Source Type	Population Served	Administrative Addree	ess Phone	Email/URL	Status	-
CT0010111	WHISPERING HILLS, LLC - WELL D SYSTEM	Sort Ascending		0	JESSICA CHAPMAN			Active	<u>^</u>
CT0012011	HOP RIVER HOMES	Sort Descending	-	0	MARIA TULMAN			Active	
CT0020021	REGIONAL WATER AUTHORITY-ANSONIA	Configure Sort	er	0	LARRY L. BINGAMAN			Inactive	
CT0030011	ASHFORD HILLS APARTMENTS	Auto Fit		0	JAMES D. GIULIETTI			Active	
CT0030021	PERRY HILL ESTATES APARTMENTS INC.			0	SIMA LESSNER			Active	
CT0030031	CTWC - ASHFORD PARK DIVISION	Columns		0	JEFF RACICOT			Active	
CT0030041	BIRCH HILLS CONDOMINIUMS	扂 Group by Water Sys	stem Type	0	SIMA LESSNER			Active	
CT0030051	WOODLAWN APARTMENTS, LLC	Community	Groundwater	0	NOREEN F. PEASE			Active	

Figure 7 - Table-Built-In-Options

Most of the data will be presented in tables in CMDP (search results, list of samples, etc.).

Each table in CMDP has built-in sort/grouping features (Sort Ascending, Sort Descending, etc.). See Figure 7.



Some tables may have an associated toolbar featuring action buttons (Add, Remove, etc.). See Figure 8 for an example.

Note: In tables that allow the user to enter and edit data, the user can double-click on a row to maintain the data.

2.1.4 Login Page

Once you are ready to log in to the CMDP application with your SCS credentials, you are presented with a login screen requesting a username and a password. (Please consult the SCS User Guide and the CMDP Role Registration User Guide at <u>https://cmdp.zendesk.com</u> to learn the steps to register in SCS.)

CMDP Secure Login	
Enter your Username and Password	For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!
Username: Password:	
Warning Notice and Privacy Policy Warn me before logging me into other sites. LOGIN clear	

Figure 9 - Login Page

3 HOME MODULE (HOME PAGE)

The Home Module or Home Page is the first page that the user will see by default once successfully logged in to the application. This system module allows Laboratory and Water System Users to have an overall view of four tables in a Dashboard: Organizations (laboratories or water systems) associated with the user's account, Profile Change Requests submitted by the user's working organizations, Sample Jobs that need to be processed by the user, and Sample Jobs submitted to the state by the working organization. For Primacy Agency Users, the Dashboard includes two tables: Submissions Received and Profile Change Requests.

3.1 ACCESS TO HOME PAGE/SELECT A WORKING ORGANIZATION

Compliance Monitoring	Data Portal									Hello Al	9C511 Do511(Private Lab CM (ORG	DP Administrator) : X1-Test Lab X1)	🕽 🖸 Logo
Home PWS Profiles Laboratory	Profiles Drinking W	iter Sample Jobs Search I	ndividual Samples										
Change Working Organization	Dashboards												
Templates	Laboratories Dashbo	srds											
Download	My Laboratorie	s					F	Profile Change Request (Submitted to State)					
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lab Id	Lab Name		Address	S	tatus		ID	Date	Organization	User Id	Status	
	X1LAB001	X1 Test - I	Lab	The balance of the second s	Ac	tive		1002	11/17/2019	X1LAB001	ABC511 De511	Pending	^
								302	04/17/2017	X1LAB001	ABC206 Do206	Pending	
					1			602	08/07/2019	X1LAB001	ABC511 Do511	Pending	
								344	05/01/2017	X1LAB001	ABC80 Do80	Accepted	
								362	05/07/2017	X1LAB001	ABC206 Do206	Pending	
								346	05/03/2017	X1LAB001	ABC206 Do206	Pending	
									05/01/2017	X1LAB001	ABC80 Do80	Pending	-
								343	05/01/2017	X1LAB001	ABC206 Do206	Pending	U
								322	04/25/2017	X1LAB001	ABC206 Do206	Accepted	~
	My Work In Pro	gress					5	Submissions (1	to State)				
	Job Id	File Name	Description	Created By	Created On	Status		Job id	File Name	Submitted By	Submitted On	Status	
	158975		Testing 11 15 GMC	ABC512 Do512	11/15/2019	Draft with Preparer	^	158778		ABC511 Do511	11/14/2019	Submitted	^
	158869	XMLSubmission.xml	New Job using XML	ABC91 Do91	11/13/2019	Draft with Preparer	8	158870	ITE_samples_XML_UI_Upload	ABC511 De511	11/13/2019	Submitted	8
	158772	XMLSubmission xml	New Job using XML	ABC511 Do511	11/12/2019	Draft with Preparer			v2.xml				
	158655	ITE_samples_XMLfile.x	New Job using files	ABC511 Do511	11/05/2019	Draft with Preparer		158871	XMLSubmission xml	ABC511 Do511	11/13/2019	Submitted	
	158590	TemplateXMLTest xml	New Job using files	ABC511 Do511	11/01/2019	Draft with Preparer		158771	XMLSubmission.xml	ABC511 Do511	11/12/2019	Accepted by State	
	158588	TestITE.xml	New Job using files	ABC514 Do514	10/31/2019	Draft with Preparer		158770		ABC511 Do511	11/12/2019	Accepted by State	
	158587	ITE_Test.xml	New Job using files	ABC514 Do514	10/31/2019	Draft with Preparer		158709	ITE_samples_XMLfile.xmi	ABC511 Do511	11/12/2019	Accepted by State	
	158586	ITE_Test.xml	New Job using files	ABC514 Do514	10/31/2019	Draft with Preparer		10177		ABC91 Do91	01/26/2018	Accepted by State	
	158535	191029 RPTGCOB xml	New Job using files	ABC512 Do512	10/29/2019	Draft with Preparer	×	10183		ABC91 Do91	01/26/2018	Accepted by State	*

Figure 10 - View of the Home Page: Laboratory Users

The Home Page will be displayed when users log in or when they click the "Home" Module Tab while working in another module.

Users who are associated with multiple organizations (e.g., a multi-state lab) are able to change their working organization by taking the following steps:

- 1) Click the "Home" Tab.
- 2) Under the "Change Working Organization" dropdown, select the desired organization.
- 3) The Dashboard will be updated based on the organization selected.

Notes:

- By clicking on a row in any table in the dashboard (Figure 10, Figure 12, Figure 13), users can access the corresponding detail screen. Example: If a Laboratory User clicks a row in the My Laboratories table, the corresponding Laboratory Profile will be displayed in the Laboratory Profiles Module.
- All users can locate their login ID, role, and the working organization associated with their account. This information is displayed on the top right corner of the Home Page and will be

available throughout the web session. (Figure 11 - Login Information).



Figure 11 - Login Information

- In the example below, the login is Lab Admin, with a Private Lab CMDP Administrator role. The working organization is TX-JKLabs001.
- *The Help Button, represented by a blue circle with a white question mark in the center, direct the user to the CMDP Help Desk website to browse the help guide for CMDP.*

nce Monitorin	a Data Portal					Hello Otma	an Bouazzaoui(S	tate CMDP Administrator (ORG: CT-Connecticut)	🖸 Logou	
rofiles Laborato	ry Profiles Drinking	g Water Sample Jobs 🗙	Search Individual Sample	es System Admin	stration					
anization	Dashboards									
	State Dashboards									
d	submission Received									
	Job Id	Organization	Description	Status	Sample Category	Certified By	Certified On	Attachments		
	1158	PH-0415	Test 9-8-16	Submitted	Microbial	Kristen Gastner	09/08/2016		^	
	234	PH-0224	CMDP Web Forms Pi Test CFE	lot Submitted	Chem/Radionuclides Operational Samples	Otman Bouazzaoui	08/30/2016		8	
	1140	PH-0415	Test_SCS_Authentic:	at Submitted	Microbial Chem/Radionuclides Composite Cryptosporidium	Otman Bouazzaoui	08/30/2016			
	1064	PH-0415	TCR test 3 8-3-16	Submitted	Microbial	Kristen Gastner	08/10/2016			
	1062	PH-0415	LCR test 2 8-3-16	Submitted	Microbial	Kristen Gastner	08/03/2016			
	1060	PH-0415	LCR test 8-3-16	Submitted	Microbial	Kristen Gastner	08/03/2016		~	
	Profile Change R	equest								
	ID	Туре	Pro	ile	Created By	Created On		Status		
	224	Laboratory F	rofiles PH-	0415	Kristen Gastner	08/19/2016		Pending	^	
	221	PWS Profiles	CT1	510011	RAE Van Egas	07/27/2016		Pending		
	185	PWS Profiles	CT0	170011	Christopher Roy	06/30/2016		Pending		
	184	PWS Profiles	СТО	170011	Christopher Roy	06/30/2016		Pending		
	183	PWS Profiles	СТО	170011	Christopher Roy	06/29/2016		Pending		
	81	Laboratory F	rofiles PH-	0107	Caleb Trrachte	04/21/2016		Accepted		
	141	PWS Profiles	CT1	510011	Rae Van Egas	05/06/2016		Rejected		
	142	PWS Profiles	CT1	510011	Rae Van Egas	05/06/2016		Accepted	U	
	3	Laboratory F	rofiles PH-	0107	Caleb Trrachte	03/18/2016		Accepted	~	

Figure 12 - View of the Home Page: Water System Users

Compliance Monitoring	Data Portal							Hello EPA (OR	PWSAdmin(P G: UT-MILFO	WS CMDP Ad RD CITY WAT	lministrator) TER SYSTEM)	?	🖸 Logout
Home PWS Profiles Drinking Wa	iter Sample Jobs	Search Individual Sample	es Systen	n Administratio	n								
Change Working Organization	Dashboards						_			_			
Templates	Water System Dasi	hboards											
Download	My Water Systems						Profile C	hange Reque	st (Submit	ted to State	∍)		
	Water System ID	Water System Water Name Type	System W	/ater Source	Status		ID	Туре	Date	Profile	User Id	Status	
	UTAH01003	MILFORD CITY WATER SYSTEM Commu	inity Gi	roundwater	Active		141	PWS Profiles	12/06/2016	Basic Information	EPA PWSAdmin	Pending	
							81	PWS Profiles	10/03/2016	Basic Information	EPA PWSAdmin	Pending	
	My Work In Progress					Submissions (to \$tate)							
	Job Id F	ileName Description	Created By	Created On	Status		Job ld	FileName	Submit	ted By Su	bmitted On	Status	
	883	kjhgkhg	EPA PWSAdmin	12/19/2016	Draft with Preparer				No ite	ems to show.			
	864	Samples Entry Job	Y EPA PWSAdmin	12/13/2016	Draft with Preparer								
	823	Operational Data Test Job	EPA PWSAdmin	12/02/2016	Draft with Preparer								
	746	test	EPA PWSAdmin	10/12/2016	Draft with Preparer								

Figure 13 - View of the Home Page: State Users

CMDP users can download the CMDP Templates (MS Excel format) from the Home Page. Two main files are available for download (Sample Results or Operational Data). To download either file:

- 1) Click a file on the template pick-list
- 2) Click "Download."
- 3) The file will be stored locally on your machine in the Downloads folder.

The following (3.2-3.8) is a description of all the tables available on the Water System Dashboard, Laboratory Dashboard and State Dashboard.

3.2 MY WORK IN PROGRESS

This table allows Laboratory and Water System Users to quickly view the Jobs that need their attention. This list is limited to records created in the last 45 days.

3.2.1 Authorizations

This table will only be available to Laboratory and Water System Users (all roles).

3.2.2 Data Elements

				Additional
Group	Description	R/O/CR	Validations	Designations
My Work in Progress	List of Jobs assigned to the user	-	None	-

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
DSH-1	Job ID	ID assigned to the Job	-	Read-only	System generated	-
DSH-2	File Name	Displays the file name if the Job was created through file upload for example	-	Read-only	None	-
DSH-3	Description	Brief description of the Job	-	Read-only	None	-
DSH-4	Created By	User who created the Job	-	Read-only	None	-
DSH-5	Created On	Date when the Job was created	-	Read-only	None	-
DSH-6	Status	Job status (e.g., Draft with Reviewer)	-	Read- only	None	-

3.3 SUBMISSIONS (TO STATE)

This table allows users to quickly view a list of all Sample Jobs submitted to the state sorted by the most recent ones at the top by default. Users can always use the search feature in the Job Maintenance View in the Drinking Water Sample Jobs Module to locate a specific Job. This list is limited to records created in the last 45 days.

3.3.1 Authorizations

This table are only be available to Laboratory and Water System Users (all roles).

3.3.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Submissions (to State)	List of all Jobs that were submitted to the state	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DSH-7	Job ID	ID assigned to the Job	-	-	System generated	-
DSH-8	File Name	File name that was used to create the Job (if applicable)	-	-	User generated at the time of Sample Job creation when using Templates	-
DSH-9	Submitted By	ID of the user who submitted the Job	-	-	System generated	-
DSH-10	Submitted On	Date when the Job was submitted	-	-	System generated	-
DSH-11	Status	Indicates that the Job was submitted	-	-	System generated	-

3.4 MY WATER SYSTEMS

This table allows users to quickly view the water systems with which they are associated.

3.4.1 Authorizations

This table is only be available to Water System Users (all roles).

3.4.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
My Water Systems	List of all water systems associated with the user	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
DSH-12	Water System ID	Federal ID of the water system	-	-	-	-
DSH-13	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	-	-	-	-
DSH-14	Water System Type	Federal water system type	-	-	-	-
DSH-15	Water Source Type	Primary water source type of the water system	-	-	-	-
DSH-16	Status	Current activity status of the water system	-	-	-	-

3.5 MY LABORATORIES

This table allows users to view a list of all laboratories that users have access to.

3.5.1 Authorizations

This table is only be available to Laboratory Users (all roles).

3.5.2 Data elements

Group	Description	R/O/CR	Validations	Additional Designations
My Laboratories	List of all laboratories associated with the user	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
DSH-17	Laboratory ID	ID Number assigned by certifying or approving agency	-	-	-	-
DSH-18	Laboratory Name	Legal name of the laboratory	-	-	-	-
DSH-19	Address	Primary physical address of the laboratory	-	-	-	-
DSH-20	Status	Current activity status of the laboratory	-	-	-	-

3.6 PROFILE CHANGE REQUESTS (SUBMITTED)

This table lists all Change Requests submitted by the organization (laboratory or PWS) to the state. This list will return all records.

3.6.1 Authorizations

This table is only be available to State Users (all roles).

3.6.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Profile Change	List of all Change Requests in read-only	-	None	-
Requests	mode			

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DSH-21	Request ID	ID assigned to the Change Request	-	-	System generated	-
DSH-22	Date	Date when the Change Request was created	-	-	-	-
DSH-23	Organization	Profile subject of the Change Request	-	-	-	-
DSH-24	User ID	ID of the user who created the Change Request	-	-	-	-
DSH-25	Status	Current status of the Change Request (e.g., pending)	-	-	-	-

3.7 SUBMISSIONS

This table lists all Jobs received by the state from water systems or laboratories. Each row represents one Job. This list is limited to records created in the last 45 days.

3.7.1 Authorizations

This table is only be available to State Users (all roles).

3.7.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Submissions Received	List of submitted Jobs in read-only mode	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DSH-26	Job ID	ID assigned to the Job	-	-	System generated	-
DSH-27	Organizatio n	Organization that submitted the Job (e.g., reporting laboratory)	-	-	-	-
DSH-28	Sample Category	Samples included in the Job (e.g., Microbiological)	-	-	List of Values: Microbiological Chemicals/ Radionuclides Cryptosporidium Operational Sample Types Composite	-
DSH-29	Status	Status of the Job	-	-	List of values: Submitted Accepted by State	-
DSH-30	Certified By	User who submitted the Job	-	-	-	-
DSH-31	Certified On	Date when Job was submitted	-	-	-	-
DSH-32	Attachments	List of files attached to the Job	-	-	-	-

3.8 PROFILE CHANGE REQUESTS (RECEIVED)

This table lists all Change Requests received by the state from water systems or laboratories. Each row represents one Change Request. This list will return all records.

3.8.1 Authorizations

This table is only be available to State Users (all roles).

3.8.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Profile Change Requests	List of Change Requests received in read-only mode	-	None	-

Cada	Labal	Description	R/O/	Earmat	Validationa	Additional
Code	Laber	Description	СК	Format	vandations	Designations
DSH-33	Request ID	ID assigned	-	-	-	-
		to the Change Request				
DSH-34	Date	Date when Change Request	-	-	-	-
		was created				
DSH-35	Profile	Profile name/ID of the	-	-	-	-
		organization related to the				
		Change Request				
DSH-36	User ID	ID of the user who created	-	-	-	-
		the Change Request				
DSH-37	Status	Status of the Change Request	-	-	-	-
		(e.g., pending)				

3.9 DOWNLOAD TEMPLATES

All CMDP users can download Templates from the Home Page. Two MS Excel files are available for download:

- **Sample Results Template**: Contains templates for the following sample categories: Microbiological, Chemicals/Radionuclides, and Cryptosporidium.
- **Operational Data Template**: Contains templates for the following sample categories: CFE Turbidity, IFE Turbidity, Chlorine Dioxide Chlorite, Chlorine/Chloramines Entering the Distribution System, Chlorine/Chloramines in the Distribution System, LCR Water Quality Parameters, Total Organic Carbon, TTHM and HAA5, Ozone Treatment (Bromate).

More information about CMDP templates is available in Chapter 6 of this document.

4 PWS PROFILES

This system module contains detailed information about public water systems, public water system facilities, sampling points and contacts. All information in the Profile is read-only and is a read-only copy of the data that the primacy agency maintains in its compliance system (e.g., SDWIS State). This module will be accessible by Primacy Agency Users, Laboratory Users, and Water System Users.

Notes:

- Primacy Agency Users will only be able to see public water systems that they regulate.
- Laboratory Users will be able to see Water System Profiles of all water systems regulated by the primacy agency with which Lab Users associated themselves during registration.
- Water System Users will only be able to see their own Water System Profiles, not those of other water systems.

4.1 SEARCH A WATER SYSTEM

Compliance M	Ionitoring Data Portal							Hello ABC511 Do511(Private Lab C (OR	MDP Administrator) G: X1-Test Lab X1)	2
Home PWS Profiles	Laboratory Profiles Drinking Wat	ter Sample Jobs Search Individual Sa	mples							
Water Systems										
Search Criteria (Wate	ar System Information)									
Water Pustern Id	Wider Forters M	Mater Pr	atan Tuna - Watar Fau	the Tone Status						
X1	Water System H	arite viater 5	Taler 300	The type status	Search Reset					
My Water System(s)										
2 Refresh								Preferences		~
Water System ID	Water System Name	Water System Type	Water Source Type	Population Served	Administrative Contact	Address	Phone	Email/URL	Status	
X10050462	ABC201999	Non Public	Groundwater	0					Inactive	
X10051011	ABC202000	Community	Groundwater	25	XXX158598 ZZZ158598	ABC135671 RIDGEWOOD NJ 12345	5		Active	
X10051031	ABC202001	Community	Groundwater	50	XXX193596 ZZZ193596	ABC139503 MONROE CT 12345			Active	
X10051042	ABC202002	Non Public	Groundwater	0					Inactive	
X10051052	ABC202003	Non Public	Groundwater	0					Inactive	
X10051062	ABC202004	Non Public	Groundwater	0					Inactive	
X10051072	ABC202005	Non Public	Groundwater	0					Inactive	
X10051082	ABC202006	Non Public	Groundwater	0					Inactive	
X10051092	ABC202007	Non Public	Groundwater	0					Inactive	
X10051102	ABC202008	Non Public	Groundwater	0					Inactive	
X10055013	ABC202009	Non-Community Transient	Groundwater	36	XXX159588 ZZZ159588	ABC136188 BROOKLYN NY 12345			Active	
X10055033	ABC202011	Non Public	Groundwater	0					Inactive	
×10055043	ABC202012	Non-Transient, Non-Community	Groundwater	360	XXX193597 ZZZ193597	ABC139604 BARKHAMSTED CT 12345			Active	

Figure 14 - Water System Search View

Users can search water systems they have access to by using the search feature provided in the PWS Profiles Module.

To search for a public water system, please follow the steps below:

- 1) Click on the "**PWS Profiles**" Module Tab. (Figure 14)
- 2) Enter one or more of the search criteria and click the "**Search**" button to narrow down the search results. You can also execute the search by pressing the Enter key.
- 3) Results will be displayed in the table below the search criteria.
- 4) To reset water system search parameters/filters, click the "Reset" button.

Notes:

- Data available in CMDP for PWS Profiles reflect the data maintained by the primacy agency in their compliance system (e.g., SDWIS State).
- Water System Users will only have access to entities associated with their account.
- Users will only have access to Water System Profiles within one primacy agency at a time.

4.1.1 Authorizations

This functionality will be available to all users.

4.1.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Search Criteria	Input fields to search water systems	N/A	None	None

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
PWS-1	Water	Federal ID assigned to	0	Freeform	None	None
	System ID	the water system				
PWS-2	Water	Name of the water	0	Freeform	None	None
	System	system; the name can be				
	Name	the formal, legal, or				
		common name most				
		generally used to refer to				
	XX 7 /	the water system	0	т'.		N
PWS-3	Water	Federal water system	0	List	List of Values:	None
	System	type			Non public	
	Type				Non-Transient	
					Non-	
					Community	
					Transient Non-	
					Community	
PWS-4	Water	Primary water source	0	List	List of Values:	None
	Source	type of the water system			Groundwater	
	Туре				UDI Surface	
					Water	
					Purchased	
					Surface Water	
					Purchased	
					Groundwater	
					Purchased	
					Groundwater	
					UDI Surface	
					Water	
PWS-5	Status	Current activity status of	0	List	List of Values:	None
-		the water system			Active	
		-	1		Inactive	

Group	Description	R/O/CR	Validations	Additional Designations
My Water Systems (Results Table)	Table to display search results	N/A	None	None

Code	Label	Description	R/O /CR	Format	Validations	Additional
DWS 6	Water System	Endered ID against ad to		Poimat	Nono	Nana
r w S-0		the water system	-	-	none	None
	ID Water System	Name of the water			None	None
PWS-7	Name	system: the name can be	-	-	INOILE	INDITE
	INAIIIC	the formal legal or				
		common name most				
		generally used to refer to				
		the water system				
PWS-8	Water System	Federal water system	-	_	None	None
1 11 5 0	Type	type			rtone	rone
PWS-9	Water Source	Primary water source	-	-	None	None
	Type	type of the water system			1.0110	1,0110
PWS-10	Population	Total population served	-	-	None	None
	Served	by the water system				
PWS-11	Administrative	Primary Administrative	-	-	None	None
	Contact	Contact assigned to the				
		water system				
PWS-12	Address	Primary address of the	-	-	None	None
		primary Administrative				
		Contact assigned to the				
		water system				
PWS-13	Phone	Primary phone number of	-	-	None	None
		the primary Admin-				
		istrative Contact assigned				
		to the water system				
PWS-14	Email/URL	Primary email of the	-	-	None	None
		primary Administrative				
		Contact of the water				
		system				
PWS-15	Status	Current activity status of	-	-	None	None
		the water system				

4.2 ACCESS A WATER SYSTEM PROFILE

Users can access a Water System Profile, which includes information about contacts associated with a water system, facilities within the water system (treatment plants, distribution systems, etc.), and sampling points within the facilities.

- 1) Click on the "**PWS Profiles**" Module Tab. (Figure 14)
- 2) Click a water system from the results table below the search criteria. (Figure 14)
- 3) A new tab will be opened and will display the Water System Profile. (Figure 15, next page)

- 4) To close a Water System Profile, click "X" on the selected tab.
- 5) To return to the Search Water System view (Figure 14), click the "Water Systems" tab.

Notes:

- By default, "Profile" is selected on the left Navigation Pane when the page loads. A Water System Profile is displayed in read-only view.
- Users can open multiple Water System Profiles as needed. Any new Profile opened will be displayed in a new tab.

Home PWS Profiles Drinking W	ater Sample Jo	bs Search	ı Individual Sa	mples	Syste	em Administr	ation						
Water Systems Water System Pro	file - UTAH01003	* 🗶											
Navigation Pane	Water Syste	m Profile											וו
Uater System	Basic Info	Basic Information											
\infty Profile	Water System ID	Water System	Water System Type	Wate	er rce Type	Population Served	Administrati	Address	Phone	Email/UR	RL Sta	atus	
S Change Request	UTAH01003	MILFORD CITY WATER SYSTEM	Community	Grou	indwater	1350	MAKAYLA BEALER				Ad	tive	
	Other Con	tacts											
	First Name	Last N	ame	Contac	ct Type	Address	F	Phone	Email/URL		Status		
	DEREK M	GRIFF	THS	Operat	or						Active	-	1
	NEDRA	KENNE	DY	COURT FOR CORRE	ESY COP	Y ICE					Active		
	Facilities			Desise	ated Orea								1
	Facility ID	Fa	cility Name		Facility Ty	/pe	Water Sour	се Туре	Availability	Sta	atus		
	PF001	BA PUI	LDY HILL PRES	SURE	Pump Fac	ility	Groundwate	er	Permanent	Act	tive	-	
	WS001	CIT SHI FRI	Y OP/DISCONNEC DM SYSTEM	TED	Well		Groundwate	er	Other	Inac	ctive		
	Sampling F	Points (Sel	ect facility	abov	e for ir	nformation))						-11
	Sampling Point	t ID	Sampling Poi	nt Name	e	Sampling Point	туре	Sampling	Point Address	Status			11
						No iter	ms to show.						
													Ш
													1

Figure 15 - Water System Profile View

4.2.1 Authorizations

This functionality will be available to all users.

4.2.2 Data Elements

Group	Description	Validations	Additional Designations
Basic Information	Provides minimal information	-	-
	to identify a water system		

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
PWS-17	Water System	Federal ID assigned to	-	Read-	-	-
	ID	the water system		only		
PWS-18	Water System	Name of the water	-	Read-	-	-
	Name	system; the name can be		only		
		the formal, legal, or				
		common name most				
		generally used to refer to				
		the water system				
PWS-19	Water System	Federal water system	-	Read-	-	-
	Туре	type		only		
PWS-20	Water Source	Primary water source	-	Read-	-	-
	Туре	type of the water system		only		
PWS-21	Population	Total population served	-	Read-	-	-
	Served	by the water system		only		
PWS-22	Administrative	Primary Administrative	-	Read-	-	-
	Contact	Contact assigned to the		only		
		water system				
PWS-23	Address	Primary address of the	-	Read-	-	-
		primary Administrative		only		
		Contact assigned to the				
		water system				
PWS-24	Phone	Primary phone number	-	Read-	-	-
		of the primary		only		
		Administrative Contact				
		assigned to the water				
		system				
PWS-25	Email/URL	Primary email of the	-	Read-	-	-
		primary Administrative		only		
		Contact of the water				
		system				
PWS-26	Status	Current activity status of	-	Read-	-	-
		the water system		only		

Group	Description	R/O/CR	Validations	Additional Designations
Other Contacts	Provides information about contacts associated with the water system	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
PWS-27	First Name	First name of the contact	-	Read- only	-	-
PWS-28	Last Name	Last name of the contact	-	Read- only	-	-
PWS-29	Contact Type	Contact type of the individual associated with the water system	-	Read- only	-	-
PWS-30	Address	Primary address of the contact	-	Read- only	-	-
PWS-31	Phone	Primary phone number of the contact	-	Read- only	-	-
PWS-32	Email/URL	Primary email/URL of the contact	-	Read- only	-	-
PWS-33	Status	Contact status (e.g., Active, Inactive)	-	Read- only	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Facilities	Provides list of water system facilities within the water system	-	-	-

Code	Label	Description	R/O /CR	Forma t	Validations	Additional Designations
PWS-34	Facility ID	A state-assigned value that identifies the water system facility.	-	Read- only	-	-
PWS-35	Facility Name	Name given to the water system facility	-	Read- only	-	-
PWS-36	Facility Type	Type that categorizes the water system facility	-	Read- only	-	-
PWS-37	Water Source Type	Value that categorizes the source water that is utilized by a water system	-	Read- only	-	-
PWS-38	Availability	Value that categorizes the circumstances under which a source of water is utilized by a water system	-	Read- only	-	-
PWS-39	Status	Value that categorizes the most recent activity status of the water system facility	-	Read- only	-	-

Group	Description	R/O/ CR	Validations	Additional Designations
Sampling Points	Provides list of sampling points within the water system facility; water systems typically collect samples of water system facilities at a specific location within the facility	-	Display data corresponding to selected facility	-

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
PWS-40	Sampling Point ID	The unique code for identifying a sampling point within the facility	-	Read- only	-	-
PWS-41	Sampling Point Name	Description given to the sampling point within the facility	-	Read- only	-	-
PWS-42	Sampling Point Type	Value that represents the location type of the sampling point	-	Read- only	-	-
PWS-43	Sampling Point Address	Physical address of the sampling point	-	Read- only	-	-
PWS-44	Status	Value that categorizes the sampling point activity status	-	Read- only	-	-

4.3 SUBMIT A PROFILE CHANGE REQUEST FOR A WATER SYSTEM

Only PWS System Administrators can submit Change Requests to the State CMDP Administrators if any of the Profile information is incorrect or needs to be updated. For example, the PWS may have a new Administrative Contact that the primacy agency should be aware of.

Once the request is received by the State CMDP Administrator, he or she will modify the appropriate information in the compliance database (e.g., SDWIS State). (See Manage Received Profile Change Requests for CMDP State Admin Profile Change Requests Management.)

To submit a Water System Profile Change Request:

- 1) Click on the "PWS Profiles" tab.
- Select a water system from the list of systems in the results table below the search criteria. (Figure 14)
- 3) A detailed Profile of each water system selected will be opened in a separate tab. (Figure 15)
- Click "Change Request" on the left Navigation Pane to view the Change Request list page. (Figure 15)
- 5) Click the "Add" button to add a new Change Request. (Figure 16)
- 6) A new row will be added to the grid for the user to enter a Change Request. Populate the editable fields with the Change Request details. CMDP will automatically save changes made in these fields, after the user clicks outside the web form. Some of the fields will be pre-populated (Figure 17). To remove an invalid Change Request or a Change Request added by error:
 - a. Select a record by clicking on the check box.
 - b. Click "Remove" to remove the selected Change Request.
- 7) Click "**Refresh**" to fetch data from the server.
| Compliance Monitoring | Compliance Monitoring Data Portal | | | | | | | | | |
|------------------------------------|-----------------------------------|-------------------------|----------------------|-----------------|-------------------|----------|------------|------------|----|--|
| Home PWS Profiles Laborator | y Profiles Drinking W | Vater Sample Jobs Searc | h Individual Samples | System Administ | ration | | | | | |
| Water Systems Water System Pr | ofile - TX0401015 🎉 🔪 | | | | | | | | | |
| Navigation Pane | Change Request | | | | | | | | | |
| Water System Change Request | | | | | | | | | | |
| 🗞 Profile 🚽 Add 💥 Remove 🥏 Refresh | | | | | | | | | 1 | |
| 🗞 Change Request | | Water System ID* | Profile Modules* | Action* | Description | Status | Created By | Created On | | |
| | | | | N | lo items to show. | | | | | |
| | | | | | | | | | II | |
| | | | | | | | | | II | |
| | | | | | | | | | II | |
| 111 | | Figure 16 - | Water Syste | m Profile (| Change Reque | sts View | | | | |

Sustame Water Sust	om Brofilo TY0000000							
ation Pane								
Nator Sustam	Change Request							
valer system	Change Request							
ofile	📫 Add 💥 Rem	ove 🎅 Refresh						
ange Request		Water System ID*	Profile Modules*	Action*	Description	Status	Created By	Created On
	125	TX9000000	Other Contacts	Edit		Pending	WS Admin	12/07/2015
	103	TX9000000	Basic Information	Edit	Modify WS Name to "Columbia Waters"	Pending	WS Admin	12/01/2015
	47	TX9000000	Facilities	Add		Accepted	Lab Admin	11/10/2015
	33	TX9000000	Basic Information	Add		Accepted	Lab Admin	11/07/2015
	32	TX9000000	Basic Information	Edit	1223346778	Accepted	Lab Admin	11/07/2015
	84	TX9000000	Basic Information	Edit		Pending	Lab Admin	11/13/2015
	27	TX9000000	Basic Information	Edit		Accepted	Lab Admin	11/06/2015
	39	TX9000000	Basic Information	Add	12312312rgsrg	Accepted	Lab Admin	11/09/2015
	15	TX9000000	Basic Information	Add	12323	Pending	Lab Admin	11/06/2015

Figure 17 - New Water System Profile Change Request

A Change Request is a way to notify the State CMDP System Administrator of any errors discovered in the PWS Profile. Use the description field (see description below in the data elements) as a way to add comments and details about updates/modifications requested for a PWS Profile. Once a Change Request is saved, its status will be "Pending" until a State CMDP System Administrator processes it.

4.3.1 Authorization

Only Water System users with an "Administrator" role will be able to submit Change Requests for Water System Profiles

4.3.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
WS Change Request	Water system elements of a Change Request	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
PWS-45	ID	Unique ID assigned to the Change Request	R	-	System generated	-
PWS-46	Water System ID	Water System ID related to the Change Request	R	-	Automatically added	-
PWS-47	Profile Modules	Section/module of the Profile related to the Change Request	R	List	List of Values: Basic Information, Other Contacts, Facilities, Sampling Points	-
PWS-48	Action	Action related to the Change Request	R	List	List of values: Add, Edit, Remove	-
PWS-49	Description	Comment field related to the Change Request	-	-	-	-
PWS-50	Status	Status of the Change Request	R	List	List of values: Pending (set to Pending when request is created)	-

5 LABORATORY PROFILES

This system module contains detailed information about Laboratory Profiles, contacts and certifications. All information in the Profile is read-only and should reflect the data that the primacy agency maintains in its compliance system (e.g., SDWIS State).

Notes:

- Only State Users and Laboratory Users will have access to this Module. State Users will be able to see all laboratories within the primacy agency.
- Laboratory Users will only be able to see information about the laboratories associated with their user account.

5.1 SEARCH A LABORATORY

Home PWS Profiles	nome PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration									
Laboratories										
Search Criteria (Laboratory Information)										
Laboratory Name Status Search Reset										
My Laboratory(ies)										
arresh										
Primacy Agency	Laboratory ID	Laboratory Name	Status	Address	Phone	Email/URL				
Connecticut	PH-0224	ANALYTIC LABORATORY SERVICES, INC.	Active							
Connecticut	PH-0415	NORWALK WATER COMPANY	Active							
Connecticut	PH-0905	STATE OF CT DEPT. OF PUBLIC HEALTH LAB	Active							

Figure 18 - Laboratory Search View

Users can search laboratories they have access to by using the search feature provided in the "Laboratory Profiles" Module.

- 1) Click on the "Laboratory Profiles" Module Tab. (Figure 18)
- 2) Enter one or more of the search criteria and click "Search" to narrow down the search results.
- 3) Results will be displayed in the table below the search criteria.
- 4) To reset search parameters/filters, click the "**Reset**" button.

Notes:

- Data available in CMDP for Laboratories reflect the data maintained by the primacy agency in its compliance system (e.g., SDWIS State).
- Laboratory Users will only have access to Laboratories associated with their account.
- Laboratory Users will only have access to Water System Profiles within one primacy agency at a time.

5.1.1 Authorizations

This functionality will be available to State and Laboratory Users (all roles).

5.1.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Search Criteria	Input fields to search a laboratory	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
LAB-1	Laboratory ID	ID Number assigned by certification or approving agency	0	-	-	-
LAB-2	Laboratory Name	Legal name of the laboratory	0	-	-	-
LAB-3	Status	Current activity status of the laboratory	0	List	List of values: Active Inactive	-

		R/O/		Additional
Group	Description	CR	Validations	Designations
My Laboratories (Results Table)	Table to display search results	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LAB-4	Primacy	Primacy Agency (State Code or	-	Read-	-	-
	Agency	Primacy Agency Code)		only		
	Laboratory	ID Number assigned by certi-	-	Read-	-	-
LAB-5	ID	fication or approving agency		only		
LAB-6	Laboratory	Legal name of the laboratory	-	Read-	-	-
	Name			only		
LAB-7	Status	Current activity status of the	-	Read-	-	-
		laboratory		only		
LAB-8	Address	Physical address of the	-	Read-	-	-
		laboratory		only		
LAB-9	Phone	Primary phone number of the	-	Read-	-	-
		laboratory		only		
LAB-	Email/URL	Primary email/URL of the	-	Read-	-	-
10		laboratory		only		

5.2 ACCESS A LABORATORY PROFILE

- 1) Click on the "Laboratory Profiles" tab. (Figure 19)
- 2) Select a laboratory from the results table below the search criteria.
- 3) A new tab will be opened and will display the Laboratory Profile.
- 4) To close a Laboratory Profile, click "X" on the selected tab.
- 5) To return to the Search Laboratory View, click the "Laboratories" tab.

pratories Laboratory P	Profile - PH-0224 💥								
gation Pane	Laboratory Profile								
Laboratory	Basic Information								
rofile	Primacy Agency	Laboratory ID	Laboratory Name	Status	Address	Phone	Email/URL		
Change Request	Connecticut	PH-0224	ANALYTIC LABORATOR SERVICES, INC.	Y Active					
	Laboratory Contact	s							
	First Name	Last Name	Contact Type	Add	ress	Phone	Email/URL		
		No items to show.							
	Laboratory Certific	ations							
	Certification Level	Method N	umber	Method Name		Analyte(s)	Certification Certification Start Date End Date		
		No items to show.							
		<i>L</i> .	10 1 1		1 17.				

Figure 19 - Laboratory Profile View

Notes:

- By default, "Profile" is selected on the left Navigation Pane when the page loads. Laboratory Profile is displayed in read only view.
- Users can open multiple Laboratory Profiles as needed. Any new Profile opened will be displayed in a new tab.

5.2.1 Authorizations

This functionality will be available to State and Laboratory Users (all roles).

5.2.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Basic Information	Provides minimal information to identify a laboratory	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
LAB-11	Primacy Agency	Primacy Agency (State Code or Primacy Agency Code)	-	Read- only	-	-

LAB-12	Laboratory	ID Number assigned	-	Read-	-	-
	ID	by certification or		only		
		approving agency				
LAB-13	Laboratory	Legal name of the	-	Read-	-	-
	Name	laboratory		only		
LAB-14	Status	Current activity status	-	Read-	-	-
		of the laboratory		only		
LAB-15	Address	Physical address of the	-	Read-	-	-
		laboratory		only		
LAB-16	Phone	Primary phone number	-	Read-	-	-
		of the laboratory		only		
LAB-17	Email/URL	Primary email/URL of	-	Read-	-	-
		the laboratory		only		

Group	Description	R/O/CR	Validations	Additional Designations
Laboratory Contacts	Provides information about contacts associated with the laboratory	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LAB-18	First Name	First name of the contact	-	Read- only	-	-
LAB-19	Last Name	Last name of the contact	-	Read- only	-	-
LAB-20	Contact Type	Contact type of the individual associated with the water system	-	Read- only	-	-
LAB-21	Address	Primary address of the contact	-	Read- only	-	-
LAB-22	Phone	Primary phone number of the contact	-	Read- only	-	-
LAB-23	Email/URL	Primary email/URL of the contact	-	Read- only	-	-

Group	Description	R/O/ CR	Validations	Additional Designations
Laboratory Certifications	Provides list of laboratory certifications	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LAB-19	Certification Level	Provides level of certification of a laboratory (Certified, Interim certification, not certified or provisional certification)	-	Read- only	-	-
LAB-20	Method Number	Analytical method number	-	Read- only	-	-
LAB-21	Method Name	Analytical method name	-	Read- only	-	-
LAB-22	Analyte(s)	Contaminant code and name	-	Read- only	-	-
LAB-23	Certification Start Date	Begin date of the certification	-	Read- only	-	-
LAB-24	Certification End Date	End date of the certification	-	Read- only	-	-

5.3 SUBMIT A LABORATORY PROFILE CHANGE REQUEST

Only Laboratory System Administrators can submit Change Requests to the State CMDP Administrators if any of the Laboratory Profile information is incorrect or needs to be updated. Once the Change Request is received by the State CMDP Administrator, he or she will modify the appropriate information in the state database (e.g., SDWIS State). (See *Manage Received Profile Change Requests* for CMDP State Admin Profile Change Requests management). Click on the "Laboratory Profiles" tab. (Figure 18)

- 1) Select a laboratory from the search page.
- 2) Detailed Profiles of each laboratory selected will be opened in a separate tab. (Figure 19)
- 3) Click "Change Request" on the left Navigation Pane to view the Change Request list page.

Home PWS Profiles Laboratory	Profiles Drinking W	ater Sample Jobs	Search Individua	i Samples Sys	tem Administration			
Laboratories Laboratory Profile - X1	LAB001 💢							
Navigation Pane	Change Request							
	Change Request							
🦘 Profile	💠 Add 💥 Remo	ve 🍣 Refresh						1
S Change Request		Lab ID*	Profile Modules*	Action*	Description	Status	Created By	Created On
	344	X1LAB001	Laboratory Contacts	Edit	Change the lab POC to Brianna Knoppow.	Accepted	Trang Le	05/01/2017
	362	X1LAB001	Laboratory Contacts	Add	Add Trang Le as lab contact	Pending	Brianna Knoppow	05/07/2017
	346	X1LAB001	Basic Information	Add	Add Michael Plastino as contact	Pending	Brianna Knoppow	05/03/2017
	345	X1LAB001	Laboratory Certifications	Add	Add the new Method Code 118 for AUTOMATED ELECTRODE (FLUORIDE)	Pending	Trang Le	05/01/2017
	343	X1LAB001	Laboratory Contacts	Add	Add Deric Teasley as a contact	Pending	Brianna Knoppow	05/01/2017

Figure 20 - Laboratory Change Requests View

- 4) Click the "Add" button to add a new Change Request. (Figure 20)
- 5) A new row will be added to the grid for the user to enter a Change Request.
- 6) Select a record by clicking on the check box.

- 7) Click "Remove" to remove the selected Change Request.
- 8) Click "**Refresh**" to fetch data from the server.

aratan	Change Request			_		_		
	Change Reques	st						
e	👍 Add 🎉 Ren	nove 🎅 Refresh						
ige Request		Lab ID*	Profile Modules*	Action*	Description	Status	Created By	Created On
	344	X1LAB001	Laboratory Contacts	Edit	Change the lab POC to Brianna Knoppow.	Accepted	Trang Le	05/01/2017
	362	X1LAB001	Laboratory Contacts	Add	Add Trang Le as lab contact	Pending	Brianna Knoppow	05/07/2017
	346	X1LAB001	Basic Information	Add	Add Michael Plastino as contact	Pending	Brianna Knoppow	05/03/2017
	345	X1LAB001	Laboratory Certifications	Add	Add the new Method Code 118 for AUTOMATED ELECTRODE (FLUORIDE)	Pending	Trang Le	05/01/2017
	343	X1LAB001	Laboratory Contacts	Add	Add Deric Teasley as a contact	Pending	Brianna Knoppow	05/01/2017
	322	X1LAB001	Basic Information	Edit	Include address. 1212 Constitution Ave,	Accepted	Brianna Knoppow	04/25/2017
	323	X1LAB001	Basic Information	Add		Accepted	Trang Le	04/26/2017
	324	X1LAB001	Basic Information	Edit	This is the test.	Rejected	Trang Le	04/26/2017
	325	X1LAB001	Laboratory Certifications	Add	test2	Pending	Trang Le	04/26/2017
	302	X1LAB001	Laboratory Contacts	Add	Add lab contact Emily Emerson as POC. 202-222-2222.	Pending	Brianna Knoppow	04/17/2017
		X1LAB001	۸	<u></u>		Pending		

Figure 21 - New Laboratory Change Request

Notes:

- A Change Request allows a Laboratory CMDP Administrator to notify the State CMDP System Administrator of any errors discovered in the Laboratory Profile, or if there is an update about which the state primacy agency should be informed. Use the description field (see description below in Data Elements) as a way to add comments and details about updates/modifications requested for a Laboratory Profile.
- Once a Change Request is saved, its status will be "Pending" until a State CMDP System Administrator processes it.

5.3.1 Authorizations

Only Laboratory Users with an "Administrator" role are able to submit Change Requests for Laboratory Profiles

5.3.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Laboratory Change Request	Laboratory elements of a Change Request		None	

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LAB-25	ID	Unique ID assigned to the Change Request	R	-	System generated	-
LAB-26	Laboratory ID	Laboratory ID related to the Change Request	R	-	Automatically added	-
LAB-27	Profile Modules	Section/module of the Profile related to the Change Request	R	List of Values: Basic Information, Other Contacts, Certifications	-	-
LAB-28	Action	Action related to the Change Request	R	List of values: Add, Edit, Remove	-	-
LAB-29	Description	Comment field related to the Change Request	-	-	-	-
LAB-30	Status	Status of the Change Request	R	List of values: Pending, Accepted, Rejected	Set status to Pending when request is created	-

6 DRINKING WATER SAMPLE JOBS

This system module contains information about Jobs, sample types (Microbiological, Chemicals/Radionuclides, Cryptosporidium, Composite, and Operational) within a Job, sample details, Validation Reports, Job history details and attachments to Jobs. A Sample Job comprises one or more samples containing one or more sample results for one or more analytes.

Users reporting sample results to CMDP have three options: web forms, manual XML upload (using an Excel Template or other XML generator), or web services-based XML transmittal from a Laboratory Information Management System (LIMS).¹ For any reporting method used, all sample results reported to CMDP are displayed in CMDP Job Summary tab as the following sub- tabs: Sample Result, Operational Data, and Composites.

Sample Result Tab

The Sample Categories included in the Sample Result tab are:

- 1. Microbiological
- 2. Chemicals/Radionuclides
- 3. Cryptosporidium

Composite Tab

Sample with the Sample Category 'Composites' are included in the Composites tab.

Operational Data Tab

The Sample Categories included in this Operational Data tab are:

- 1. CFE Turbidity
- 2. IFE Turbidity
- 3. Chlorine Chloramine Entering DS (Distribution System)
- 4. Chlorine Chloramine in DS (Distribution System)
- 5. Chlorine Dioxide and Chlorite
- 6. LCR WQP (Water Quality Parameters)
- 7. TOC (Total Organic Carbon)
- 8. Ozone Treatment (Bromate)
- 9. TTHM and HAA5

¹ A LIMS Interface Control Document (ICD) is provided separately and serves as the user manual for reporting to CMDP using a LIMS. The LIMS ICD is available on the CMDP Help Desk at https://cmdp.zendesk.com/

Important Notes:

- Although the application accepts data and stores, as a web form, a searchable Sample Job for the above italicized sample types (items 5–8 in the Operational Data Category), the data stored in CMDP will not be migrated to SDWIS State until a future version of CMDP is released.
- In the interim, to migrate the sample results for items 5–8 in the Operational Data Category to state primacy agencies for compliance determination, laboratories and water systems may report as Chemicals all of the analytes associated with the italicized items by using a LIMS or by using the Chemicals/Radionuclides web form or templates.
- Users can download the submitted data for the italicized sample types from the CMDP application as an XML file, which will be rendered human-readable as HTML (see 6.11, below). Users also may copy all of the information in the HTML page and paste it into a separate document to view the XML file data.
- Users can obtain the submitted data for the italicized sample types from the CMDP application as an XML file by using web services. The file will not be saved to a human readable format, or in a format usable by SDWIS XMLSampling but the agency could develop their own tool for viewing the data.

A Sample Job can be in only one of the following status categories at a time:

Status	Definition
Draft with Preparer	Job is currently maintained by a Preparer (Reviewer and
-	Certifier roles also have edit rights). Modifications to the Job
	can still occur (add/edit/remove), and validations will
	be executed when Job is saved.
Draft with Reviewer	Job is currently under review (only Reviewer and Certifier
	roles have edit rights).
	Modifications can still occur
	(add/edit/remove), and validations will be executed when Job
	is saved.
Draft with Certifier	Job is currently awaiting certification (only Certifier role has
	edit rights). Modifications can still occur (add/edit/remove),
	and validations will be executed when Job is saved.
Submitted	Job has been submitted by reporting
	organization to primacy agency. No modifications are possible.
Accepted by State	Job data has been migrated to primacy agency compliance
	system. No modifications are
	possible.

Table 2 - Job Status Definitions

Briefly, the submission workflow is depicted below in Figure 22 - Job Submission Workflow.



Figure 22 - Job Submission Workflow

- Lab/PWS Preparer: Create a Job and add samples, attachments, send a Job to Reviewer, remove a job
- Lab/PWS Reviewer: Review content of a Job, modify a Job, if needed; reject a Job and return to Preparer, and send to Certifier; remove a job.
- Lab/PWS Certifier: Review content of a Job, modify a Job if needed; reject a Job and return to Preparer or Reviewer; certify and submit to State; remove a job.
- State Users: Read-only access to Jobs that have been certified and submitted.

Note:

- State Laboratory Users will not need to <u>electronically certify</u> Jobs for CROMERR purposes.

6.1 SEARCH FOR A SAMPLE JOB

Maintenance Vi	iew									
arch Jobs	1									
ob ID	Created By	Status Accepted by Stat	te v From	To		File Name	Search	Reset		
rinking Water	Sample Jobs	iewer Send to Certifier	Certify and Submit to Sta	te 💥 Reject 💥	Remove Download	Samples				
🐷 Kerresh 🍟 🤅	create new Job Dend to Nev				terriore commond	oumpres				
Job ID	 Total Records 	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status	Prepared By	Created On
Job ID 2219	Total Records	Records Uploaded 47	Records Not Uploaded	Sample Category Microbial	Description New Job using files	File Name LUS 1-26-17 upload test.xml	Primacy Agency LA	Status Accepted by State	Prepared By ABC211 Do211	Created On 01/26/2017
Job ID 2219 2398	Total Records 120	Records Uploaded 47 71	Records Not Uploaded 73 49	Sample Category Microbial Microbial	Description New Job using files New Job using files	File Name LUS 1-26-17 upload test.xml LUS 1-27-17 upload test1.xml	Primacy Agency LA LA	Status Accepted by State Accepted by State	Prepared By ABC211 Do211 ABC211 Do211	Created On 01/26/2017 01/27/2017
2219 2398 2498	Total Records 120 120 120	Records Uploaded 47 71 61	Records Not Uploaded 73 49 59	Sample Category Microbial Microbial Microbial	Description New Job using files New Job using files New Job using files	File Name LUS 1-26-17 upload test.xml LUS 1-27-17 upload test1.xml LUS 1-31-17 upload test1.xml	Primacy Agency LA LA LA	Status Accepted by State Accepted by State Accepted by State	Prepared By ABC211 Do211 ABC211 Do211 ABC211 Do211	Created On 01/26/2017 01/27/2017 01/31/2017

Users can search Jobs they have access to by using the search feature provided in the "Drinking Water Sample Jobs" Module. By default the list is filtered to records created within the last 45 days, however, the user can change the filter to search on a desired timeframe.

To search for a Sample Job:

1) Click on the "Drinking Water Sample Jobs" Module Tab. (Figure 23)

- 2) Enter one or more of the search criteria and click the "Search" button, or press Enter, to narrow down the search results. (Search can also be triggered without entering any criteria.)
- 3) To reset search parameters/filters, click the "Reset" button.

Notes:

- Users can see the total number of records in a job, the total number of records uploaded from a job, and the total number of records not uploaded for a job on the Job Maintenance View. This information is also available in the Validations tab for a selected job.

6.1.1 Authorizations

Available to all users.

6.1.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Search Criteria	Input fields to search a Job	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional
DWJ-1	Job ID	Unique ID assigned to the Job	0	Text	None	None
DWJ-2	Created By	User who created the Job	0	Text	None	None
DWJ-3	Status	Status of the Job	0	List	List of Values: Validation in Progress Draft with Preparer Draft with Reviewer Draft with Certifier Submitted Accepted by State Rejected by State Validation Failed	-
DWJ-4	From	Begin date for date range	0	Date MM/DD/YYYY	Results will include Jobs created on or after date entered	-
DWJ-5	То	End date for date range	0	Date MM/DD/YYYY	Results will include Jobs created on or before date entered	-
DWJ-6	File Name	XML file name used to upload samples	0	Text	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Results table	Table to list search results	-	None	-

Cada	Labal	Description	R/O/	Earna	Validations	Additional
	Label	Description	CK	Format	vandations	Designations
DWJ-1	Job ID	ID assigned to the Job	-	-	-	-
DWJ-6.2	Sample Category	List of categories of samples within the Job	-	-	Categories: Microbiological, Chemicals/ Radionuclides, Cryptosporidium, Operational Samples	-
DWJ-6.3	Description	Brief description of the Job	-	-	-	-
DWJ-6	File Name	Original XML file name used to create the Job	-	-	-	-
DWJ-7	Primacy Agency	Primacy Agency Code	-	-	-	-
DWJ-8	Status	Status of the Job	-	-	-	-
DWJ-9	Preparer	ID of user who created the Job	-	-	-	-
DWJ-10	Created On	Date when Job was created	-	-	-	-
DWJ-11	Reviewed By	ID of user who reviewed the Job	-	-	Field contains ID of user who reviewed the Job last	-
DWJ-12	Reviewed On	Date when Job was reviewed	-	-		-
DWJ-13	Certified By	ID of user who certified the Job	-	-	Field contains ID of user who certified the Job	-
DWJ-14	Certified On	Date when Job was certified	-	-		-

6.2 CREATE A NEW JOB BY ENTERING SAMPLES USING WEB FORMS

1) Under the **"Drinking Water Sample Jobs"** section, select "Job Maintenance View" tab and click the **"Create New Job"** button. (Figure 24)

	Monitoring Data F	Portal						Hello obouazza	oui (ORG: <i>TX-El Paso S</i>	State Lab 12)	J Logou
Home PWS Profile	es Laboratory Profiles	Drinking Water	Sample Jobs Sea	rch Individual Sam	ples System Ad	Iministration					
Job Maintenance Vie	W		_								
Search Jobs											
Job ID	Created By	Status	From		To	File Name	Search	Reset)		
Drinking Water Sa	mple Jobs eate New Job Send to	Reviewer Send to	Create New Job Op	tions							
	Description	File Name		Please	select one of the	methods below.		Reviewed On	Certified By	Certified On	
443 442 441 372	Nice job arc new job by archana Sprint 4 Test					Enter a group of		12/02/2015 12/01/2015 10/30/2015	Archana Korlimarla Archana Korlimarla Croy Certifier	12/02/2015 12/01/2015 10/30/2015	Î
362 301	Operational Test October 14th, Demo	login details.txt	Upload File		s	amples		12/02/2015 10/26/2015	Archana Korlimarla	10/26/2015	
281	Live Demo October 13th							10/26/2015	Lab Certifier	10/26/2015	
263	New Samples - Demo	test.xml						12/02/2015	Archana Korlimarla	12/02/2015	
262	New Group of Samples							10/27/2015			
261	New Staging Job Oct	Workflow.jpg	-1A	—Diait with Prepa	rei — Aichana Konii	nana 10/08/2015	Archana Kommana	12/01/2015	Archana Korlimarla	12/01/2015	
48			тх	Submitted	Chris Roy	08/11/2015	Lab Reviewer	10/27/2015	Lab Certifier	10/27/2015	
47	New Job using files	ComplianceSche	тх	Validation In Progress	Chris Roy	08/11/2015					
46			ТХ	Submitted	Chris Roy	08/11/2015	Otman Bouazzaoui	10/27/2015	Otman Bouazzaoui	10/27/2015	
1 45			TV	Submitted	Chris Roy	09/11/2015	Otman Rouazzaoui	10/27/2015	Otman Rouazzaoui	10/27/2015	

Figure 24 - Create Job - Method Selection

- 2) Select the method "Enter a group of samples."
- 3) Enter a Job description and click "OK." (Figure 25)

Create New Job Options		
	Please select one of the methods below.	
Upload File	Please enter a value	
Figure 2	5 - Enter Job Description	

4) A tab will be opened for the new Job, and user can add samples. (Figure 26)



6.2.1 Authorizations

All users associated with a laboratory (private or state) or water system can create a Job (no restriction by role).

6.2.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Job Description	Will include a Job ID and a brief text field for Job description	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
DWJ-15	Job ID	Unique ID assigned to the Job	R	Numeric	System generated	-
DWJ-16	Description	Brief text to describe the Job	0	Text	-	-

6.2.3 Special Note Regarding Record Counts

The fields Total Records, Records Uploaded, and Records Not Uploaded are only populated when a job is uploaded or submitted via web services, the fields are not updated if a job is created and samples entered using the web forms. For jobs created using the web forms, the fields will display "N/A". The values in these fields are intended to provide the submitter a snapshot of the upload results immediately after upload. If sample results are added or removed from the job after the initial upload, the record counts will not update.

6.3 CREATE A NEW JOB BY USING FILE UPLOAD [CMDP TEMPLATES]

Users can elect to upload XML files into CMDP manually by using the File Upload method. The XML files are generated by using the MS Excel spreadsheets (templates) available for each sample category, which can be downloaded from the Home Page. XML files created by the end user without using the templates can also be uploaded using this method.²

2 The user should reference the Web Services Samples Data Dictionary available through the CMDP Help Desk to view the CMDP XML schema descriptions.

6.3.1 About the Available Excel Templates

There are two (2) master workbooks that contain MS Excel Templates for the two CMDP sample categories:

Workbook 1: CMDP_Sample_Result_Template.xlsm

This contains three (3) templates; each is in a separate sheet.

- 1. Microbiological
- 2. Chemicals/Radionuclides
- 3. Cryptosporidium

Workbook 2: CMDP_Operational_Data_Template.xlsm

This workbook contains nine (9) templates; each is in a separate sheet.

- 1. CFE Turbidity
- 2. IFE Turbidity
- 3. Chlorine Chloramine Entering DS (Distribution System)
- 4. Chlorine Chloramine in DS (Distribution System)
- 5. Chlorine Dioxide and Chlorite
- 6. LCR WQP (Water Quality Parameters)
- 7. TOC (Total Organic Carbon)
- 8. Ozone Treatment (Bromate)
- 9. THM and HAA5

Important Notes:

- Version 1.0 of CMDP will accept data and store a searchable Sample Job created using a template tab for *all* of the sample types above. However, for the italicized templates (items 5–9), the data will not be migrated to SDWIS State until a future version of CMDP is released.
- In the interim, to migrate the sample results for items 5–9 in Operational Data Template to state primacy agencies for compliance determination, laboratories and water systems may report as Chemicals all of the analytes associated with the italicized items using a LIMS or by using the Chemicals/Radionuclides web form or templates.
- Users can download the submitted data for the italicized sample types from the CMDP application as an XML file, which will be rendered human-readable as HTML (see 6.11, below). Users may also copy all of the information in the HTML page and paste it into a separate document to view the XML file data.
- Users can obtain the submitted data for the italicized sample types from the CMDP application as an XML file by using web services. The file will not be saved to a human readable format, or in a format usable by SDWIS XMLSampling but the agency could develop their own tool for viewing the data.

6.3.2 Prepare a Sample Job Using the MS Excel Templates

Populate the Template with the sample results in order to use the File Upload functionality in CMDP. Please keep the following in mind when populating the templates:

- Data validations are available in MS Excel to make sure that the data are valid and, therefore, that CMDP will accept them.
- Enter valid data types and formats in each cell so the record is not rejected. If any cell contains data types or formats that do not conform to specifications listed in this document (please refer to the Data Elements Tables for each Sample type), the record will be rejected.
- Be aware that all data are case-sensitive. It is critical that users take into consideration the reference data existing in CMDP. For example, entering "oh0000001" as a Water System ID is not a valid value; the correct value is "OH0000001." If a record contains a value not stored in CMDP as reference data for these fields, then the value will not be considered valid, and CMDP will reject the record (row). To help avoid these kinds of errors, please log in to CMDP and view the PWS Profiles or Laboratory Profiles to check for the reference data stored in CMDP for critical fields such as: Water System ID, Water System Facility ID, Sampling Point ID, and Laboratory ID.

Notes:

In Workbook 1: CMDP_Sample_Result_Template.xlsm, each <u>row</u> in the template represents a sample result in the sample. For example, if there is more than one analyte (result) in a single sample, each analyte should be reported in a separate row. When a Sample Job is created in CMDP, each row (sample result) can be considered a record (e.g., 10 microbiological sample results in a sample are represented as 10 records in the CMDP Microbiological Sample Job). If invalid data are entered for any row (result) in the template, that row will not be added to the CMDP database when uploading the XML file, and the error will appear in the Data Validation Report (see section 6.14 below). All rows containing valid data for sample results will still be added to the Sample Job.

- In Workbook 2: CMDP_Operational_Data_Template.xlsm, for CFE, IFE, Residuals Entering DS, and Residuals in DS, each <u>tab</u> represents a single monthly report for a water system facility (for example, the monthly CFE for a facility). If invalid data are entered for a report, the content of the entire tab will not be added to the CMDP database when uploading the file. All valid samples (present in other tabs within the workbook) will be added to the CMDP database. Other Operational Sample Types, when available, will allow the user to enter and report sample results for multiple facilities within a water system—e.g., THM and HAA5, LCR WQP, and Ozone Treatment (Bromate).

6.3.3 How to Generate the XML File from the CMDP Templates

Once all samples to be reported to the primacy agency are entered into the CMDP Template, save the file and click any "**Generate XML**" button available in each sheet to create the XML file. Save the XML file in a familiar location where it can easily be found; it is the same file that will be uploaded to CMDP. (Figure 27, CFE Turbidity tab)

CMDP		CFE Turbidity			
Compliance Monitoring Data Portal					
porting Organization	Turbidity Measu	rements			
WS ID Facility ID	Total Required		GenerateAML		
Reporting Period	Total <=0.3 NTU in measurements	staken * ⁷			
Monthly Hours Of	Vas the CFE turbidity <= 0.15 NTU	#DIV/0!			
	95% of the measurements of the	month?			

Figure 27 - Generate XML Button in an Operational Sample Template (CFE)

1) Select "Upload File" from the two options available. (Figure 28)

Create New Job Options		
\frown	Please select one of the methods below.	
Upload File	Enter a group of samples	
Create New Job Opt	ions	
	Please select one of the methods below.	
Upload File	Enter a group of samples	
T . A O 1 (1

Figure 28 - Method Selection for Sample Reporting Dialog Window

Create New Job - Upload Sample File	<mark>- ×</mark>
Job ID	
Choose a file to upload	
Upload Close	

Figure 29 - Upload Dialog Window: Choose a file to upload

2) Click the "**Choose a file to upload**" link to find the XML file you generated from the Excel templates. The Job ID will be automatically assigned by CMDP.

Create New Job - Upload Sample File	
Information saved successfully.	×
Job ID 2035	

Figure 30 - Upload Dialog Window: "Done" Message

- 3) Wait for the "Done" flag to be displayed then click the Upload button. (Figure 30)
- 4) A confirmation message will be displayed with the word "**Done**" in green. Click "**Close**."

T17063 1 1 0 Chem/Radion New Job using XMLSubmissi X1 Draft w		Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status
- XML Prepare	[17063	1	1	0	Chem/Radion	New Job using XML	XMLSubmissi	X1	Draft with Preparer

Figure 31 - Most Recent Job Added to Job Maintenance View

The file is now uploaded, and in the Job Maintenance View tab, a new Job will appear at the top of the list of Jobs as the most recent Job created. (Figure 31)

Drinking Water Sample Jobs		
🧬 Refresh 🜵 Create New Jol	Send to Reviewer	Send to Certifier
Figure 32 - Refresh B	utton in Toolbar	

- 5) If the Status field still says "Validation in Progress," click the Refresh button and the status should change to "Draft with Preparer." (Figure 32) Once an XML file is uploaded, the newly created Job will go through the submission workflow for CMDP web forms shown in Figure 22 above.
- 6) If an invalid value exists in the file, an error message will be displayed with the text 'Failed to save information on server. Reason '- and the reason will be displayed.

You can access the Job Summary View by clicking the corresponding row from the list. This will enable you to view individually each sample added to the Job.

6.3.4 Data Elements

				Additional
Group	Description	R/O/CR	Validations	Designations
Job	-	-	None	-

Code	Label	Description	R/O/CR	Format	Validations	Additional Designations
DWJ-17	Job ID	Unique ID assigned to the Job	-	Numeric	System generated	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DWJ-18	Description	Brief text field for description of the Job	0	Text	System generated "New Job using files"	-
DWJ-19	File Name	Source file name used to upload data into CMDP	R	File	Only XML files will be accepted for upload	-

6.3.5 Authorizations

All users associated with an organization type laboratory (private or state) or water system can create a Job (no restriction by role).

6.3.6 A Few Tips about the Templates

In the Microbiological and Chemicals/Radionuclides templates, it is possible to add multiple results to one sample by adding a result in each row. For example, Sample ID J262T1A1, in Figure 33, below includes results for two different analytes: 3100 and 3014, which were collected at the same sampling point, date and time. Add each result in a separate row and leave blank the Sample Information columns (Sample ID through Comment) so the second result (3014) can be added as part of the one sample (in this case, J262T1A1). (Figure 33)

CMDP	CMDP						Microbiolo	gica			
Compliance Mo	nitoring Data	Portal							-	0	
Reporting I	ah ID *	X1LAF	001			Gene	rate XML				
Neporting t	au. 10	AIDAD	001								
				(* - Fiel	Sample Inf d required f	ormation or record to	exist)				
Sample ID [*]	Sample Received Date ^f	ws id*	Facility ID [*]	Sampling Point ID [*]	Sampling Location	Collection Date ^{*f}	Collection Time (24H) ^f	Comme nt	Sample Collector Name	Analyte* ^r [Code - Name]	A/P ^{sf}
J262T1A1	8/10/2017	X11430904	00600	4		8/8/2017	11:11		JACK	3100 - COLIFORM (TCR)	Absent
										3014 - E. COLI	Absent

- Figure 33 View of the Microbiological Samples Template 1 Sample with 2 Sample Results
- 1) Because the CMDP templates are in MS Excel, copy and paste features are available for use. If multiple samples share the same information (same collection date, sample time, etc.), you can copy the information contained in a row and paste it in the next row.
- 2) When entering repeat samples, please make sure that you populate the routine (Original) Sample ID and optionally the Repeat Location field. It is important that the value (ID) entered in the Original Sample ID field exists in CMDP before the associated repeat samples are reported, otherwise the repeat samples will be rejected. To ensure this data entry works correctly when CMDP processes the content of the Template, enter the routine sample into a row in the template, and then enter any associated repeat samples in the rows *below* the row containing the routine sample.
- 3) Save your progress regularly when using Excel. Also, save your template prior to clicking the "Generate XML" button on each tab.
- 4) While it is possible to use the CMDP_Sample_Result_Template.xlsm to enter multiple samples (Microbiological, Chemicals/Radionuclides, and Cryptosporidium) for different water systems if needed, the CMDP_Operational_Data_Template.xlsm for CFE, IFE, and

Disinfectant Residuals will only allow reports for one particular water system facility at a time.

- 5) The Excel Templates cannot be uploaded as Excel files to the CMDP application; only the XML files created using the "Generate XML" button can be uploaded.
- 6) Once an XML file is uploaded successfully, a draft Sample Job number will be created, and the contents will appear to the user in CMDP as web forms for each sample.
- 7) The draft Sample Job created from a Template will go through the same submission workflow depicted in Figure 22. The following features will be available in the CMDP user interface as long as the user has the appropriate permissions: Add/Remove Attachments, View Job History (any actions will be recorded when Job is in Draft with Reviewer Status and forward), View Validations, and Add/Remove Samples for a Job.
- 8) Some of the columns contain pick-lists where you can search for a specific value (e.g., Analytes). In that case, you can double-click the cell and enter the value to look up; the field will be populated with the result of your search when you press Enter.

6.3.7 Special Note Regarding Record Counts

The fields Total Records, Records Uploaded, and Records Not Uploaded are only populated when a job is uploaded or submitted via web services, the fields are not updated if a job is created and samples entered using the web forms. For jobs created using the web forms, the fields will display "N/A". The values in these fields are intended to provide the submitter a snapshot of the upload results immediately after upload. If sample results are added or removed from the job after the initial upload, the record counts will not update.

6.3.8 Special Note Regarding Time Fields

Due to a feature within SmartGWT, if a user does not enter a type in the standard 24-hour time format of HH:MM, they may get unexpected results.

- There is a mechanism that allows for rapid data entry. If a user enters a time and include an "a" or a "p" as the last character, that will be interpreted as an indicator of "AM" or "PM". Hence 3:4p or 4:44p resolves to 15:04 and 16:44 respectively.
- The time function is a standard 24 hour field in which the hour digit cannot exceed 23. If the value of the hour digit exceeds 23 and the remainder of the formatting is correct, the field will default to the last valid value. For example 27:15 will resolve to 23:15. 28:32 will resolve to 23:32

6.4 OPEN AN EXISTING JOB

Home	PWS Profiles	Laboratory Profiles	Drinking Water Sampl	le Jobs Searc	ch Individual Samp	bles								
Job Mainten	ance View													
Search Jo	bs													
Job ID		Created By	Status	F	From	То		File Nam	e					
				~		1				Search	Reset			
Drinking V	Vater Sample	Jobs												
2 Refresh	📀 Create Ne	w Job Send to Revi	ewer Send to Certifier	Certify and Sul	bmit to State 🛛 🥥	Reject 🥥 R	emove 👔 Dow	nload Samples						
Job ID	Total R	ecords Records Uploaded	Records Not S Uploaded 0	Sample Category	Description	File Name	Primacy Agency	Status	Prepared By	Created On	Reviewed By	Reviewed On	Certified By	Certified On
17064	1	1	0 N	Aicrobial	New Job using files	CMDPDevUpl	X1	Submitted	Barrett Brown	07/09/2020	Barrett Brown	07/09/2020	Barrett Brown	07/09/2020
17063	1	1	0 C	Chem/Radion	New Job using XML	XMLSubmissi	X1	Draft with Preparer	Barrett Brown	07/09/2020				
17062	12	11	1 CC S	Aicrobial Chem/Radion Cryptosporidium Operational Samples	New Job using XML	XMLSubmissi	X1	Draft with Preparer	Barrett Brown	07/09/2020				
17047	N/A	N/A	N/A C	Chem/Radion	262Test		X1	Accepted by State	Barrett Brown	07/07/2020	Barrett Brown	07/07/2020	Barrett Brown	07/07/2020
17044	60	36	24 C	/licrobial Chem/Radion Cryptosporidium	New Job using files	8134.xml	X1	Draft with Preparer	Barrett Brown	07/07/2020				
					Figure	34 - Ope	en an Exis	ting Job						

- From the Drinking Water Sample Jobs search results list, select a Job by clicking on it. (Figure 34)
- 2) Corresponding Job details will open in a new tab.
- To get back to the Search page from a Drinking Water Sample Job result, click the "Job Maintenance View" tab under the "Drinking Water Sample Jobs" tab.

Note: From the Drinking Water Sample Jobs search results list (Figure 34), select another Job by clicking on it. Each additional Job selected will open in a new tab.

6.5 SEND SAMPLE JOB TO REVIEWER

н	lome	PWS Profiles	Labor	atory Profiles	Drinking Water Sam	nple Jobs Sear	ch Individual Samp	bles						
Job	Maintenan	ce View												
Sea	rch Jobs	5												
Job I	id nking Wa	ter Sample	Created	Ву	Status Draft with Pre	eparer v	From	To		File Name	3	Search	Reset	
2	Refresh	Croate Nr							-					
		Ureate Ne	w Job	Send to Reviewer	Send to Certifier	r Certify and Su	bmit to State 🤤	Reject 🤤 Re	emove 👔 Dow	nload Samples				
	Job ID	Total F	ew Job Records	Records Uploaded	Records Not Uploaded	Certify and Su Sample Category	bmit to State 🤤	Reject 🥥 Re	emove J Dow Primacy Agency	nload Samples Status	Prepared By	Created On	Reviewed By	R
	Job ID 17063	Total F	ew Job Records	Send to Reviewer Records Uploaded 1	Send to Certifier Records Not Uploaded 0	Certify and Su Sample Category Chem/Radion	bmit to State Description New Job using XML	Reject 🥥 Re File Name XMLSubmissi	emove Dow Primacy Agency X1	Nload Samples Status Draft with Preparer	Prepared By Barrett Brown	Created On 07/09/2020	Reviewed By	R

Figure 35 - Send One or More Jobs to Reviewer (Lab/PWS Users)

Once the Sample Job is created, it can be sent to a Reviewer for review.

- 1) Click on the check box to the left of one or more Jobs with a Status of "**Draft with Preparer**." (Figure 35)
- 2) Click "Send to Reviewer" to send the Job(s) to the Reviewer.
- 3) Select the individual to whom the Job(s) will be sent, if desired. (Figure 36)
- 4) Click "Submit" to submit these data for review. The Status will be updated to "Draft with Reviewer."
- 5) A confirmation message will be displayed. Click "**OK**" to close the window.
- 6) The "Created On" date is populated with the date on which the Preparer created the job.

Send Data to Reviewer	
Select Individual	
Are you sure you want to submit this data for review?	
Submit	

Figure 36 - Select Individual (Lab/PWS Users)

Notes:

- In order to send multiple jobs to a Reviewer, the selected jobs must all have the status of "Draft with Preparer."
- A user can click the 'Submit' button in the Send Data to Reviewer pop-up (Figure 36 Select Individual (Lab/PWS Users)) without selecting an individual. In this case, the Job will not be assigned to any Reviewer. If the user is authorized, he or she should select his or her own name from the pick list; this feature is beneficial for organizations that are small and will have one person regularly executing the entire submission workflow.
- If a user selects an individual from the pick list, the application will send an email to the individual selected as the Reviewer; and will display the Job in the My Work in Progress dashboard on the Home screen.
- The "Reviewed By" and "Reviewed On" columns in the Job Maintenance View will remain

empty until a registered Reviewer completes his/her review and sends it to the Certifier. At that point, the "Reviewed By" and "Reviewed On" columns will display the Reviewer's name and the date on which the Job was reviewed.

6.5.1 Authorizations

All users associated with an organization type laboratory (private or state) or water system may send a Job with "Draft with Preparer" status for review.

6.5.2 Data Elements

Group	Description	R/O/ CR	Validations	Additional Designations
Send Job to	Once the Preparer is finished with a Job, he/she can	-	-	-
Reviewer	organization.			

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
SJR-1	Select Individual	First name and last name of all Reviewers in the organization	0	List	List all individuals (first name and last name) that have a Reviewer, Certifier, or Administrator Role	-

6.6 SEND SAMPLE JOB TO CERTIFIER

Home PWS Profiles	Laboratory Profiles Drinking	Water Sample Jobs Se	arch Individual Samples						
Job Maintenance View									
Search Jobs									
Job ID	Created By State	IS From t with Reviewer	To	File N	lame Se	arch Reset			
Drinking Water Sample	Jobs								
🥏 Refresh 🍦 Create N	ew Job Send to Reviewer Se	nd to Certifier Certify and	Submit to State 🔀 Rejec	t 💢 Remove 🔹 Dowr	nload Samples				
Job ID	 Sample Category 	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Reviewed On
✓ 1099	Microbial Chem/Radionuclides Cryptosporidium	Test 11-14		X1	Draft with Reviewer	ABC69 Do69	11/14/2016	ABC69 Do69	
✓ 1105		New Job using files	R3TCRQues_v2.xml	X1	Draft with Reviewer	ABC137 Do137	11/15/2016	ABC206 Do206	
1157	Microbial Cryptosporidium	New Job using XML	XMLSubmission.xml	X1	Draft with Reviewer	ABC205 Do205	12/19/2016	ABC154 Do154	
2558	Chem/Radionuclides Operational Samples	Turbidity		X1	Draft with Reviewer	ABC206 Do206	02/01/2017	ABC154 Do154	
3478	Microbial Chem/Radionuclides Operational Samples	Testing2		X1	Draft with Reviewer	ABC206 Do206	03/02/2017	ABC154 Do154	04/25/2017
5378	Chem/Radionuclides	TestingThePWS#s123		X1	Draft with Reviewer	ABC206 Do206	04/14/2017	ABC154 Do154	
5474		New Job using files	Test_4-25-17.xml	X1	Draft with Reviewer	ABC80 Do80	04/26/2017	ABC206 Do206	
6155	Chem/Radionuclides	AB123		X1	Draft with Reviewer	ABC206 Do206	05/02/2017	ABC137 Do137	
11320	Microbial	New Job using files	mysamplesSP2508.xml	X1	Draft with Reviewer	ABC205 Do205	05/10/2018	ABC205 Do205	

Figure 37 - Send Job to Certifier (Lab/PWS Reviewers)

Once the Sample Job is reviewed, it can be sent to a Certifier.

- 1) Click on the check box to the left of one or more Jobs with a status of "**Draft with Reviewer**." (Figure 37)
- 2) Click on "Send to Certifier" to send the Job(s) to the Certifier.



Figure 38 - Select Certifier (Lab/PWS Reviewers)

- 3) Select the individual to whom the Job(s) will be sent. (Figure 38)
- 4) Click "Yes" to submit the Job(s) for review by the Certifier. The status will be updated "Draft with Certifier."
- 5) A confirmation message will be displayed. Click "**OK**" to close the window.
- 6) The "**Reviewed On**" date is populated with the date on which the Preparer sent the jobs to the Reviewer.

Notes:

- In order to send multiple jobs to a Certifier, the selected jobs must all have the status of "Draft with Reviewer."
- A user can click the 'Submit' button in the Send Data to Certifier pop-up (Figure 38 Select Certifier (Lab/PWS Reviewers)) without selecting an individual. If the user is authorized, he or she should select his or her own name from the pick list; this feature is beneficial for organizations that are small and will have one person executing the submission workflow.
- If a user selects an individual from the pick list, the application will send an email to the individual selected as the Certifier and will display the Job in the My Work in Progress dashboard on the Home screen.
- The "Certified By" and "Certified On" columns in the Job Maintenance View will remain empty until a registered Certifier completes the review, certifies, and submits the Job. At that point, the "Certified By" and "Certified On" columns will display the Certifier's name and the date on which the Job was certified.

6.6.1 Authorizations

Only users with Reviewer and Certifier roles associated with organization type laboratory (private or state) or water system may send a Job with "Draft with Reviewer" status to a Certifier for certification.

6.6.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Send Job to	Once the Reviewer has finished with a	-	-	-
Certifier	Job, he/she can send it for certification to			
	a Certifier within his/her organization			

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
SJR-2	Select Individual	First name and last name of all Certifiers in the organization	0	List	List all individuals (first name and last name) that have a have Certifier or Administrator Role	-

6.7 CERTIFY AND SUBMIT JOB TO THE STATE

Once the Certifiers receive and review the Job, they can electronically sign the Job and submit them to the primacy agency.

Com	pliance Moni	toring Data Po	rtal									Hello ABC	211 Do211(Private L (ORG: LA-LAFA)	ab CMDP Administrate ETTE UTILITIES WAT LABORATOR	r) 🕜	🖬 Logout
Home Pk	WS Profiles La	boratory Profiles	Drinking Water Sam	ple Jobs Search	ndividual Samplos 丫	System Administration	n									
Job Mainten	nance View Jo	b Summary View - 1	56799 💥													
Search Jol	bs															
Job ID	0	eated By	Status Draft with Certific	From	To		ile Name	Search	Reset							
Drinking V	Vater Sample J	obs														
2 Refresh	h 🍦 Create Nev	Job Send to Revi	ewer Send to Certifi	er Certify and Subn	it to State 🛛 👗 Re	ject 💢 Remove 🔹	Download Samples									
Job ID	D 🔺 1	otal Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Reviewed On	Certifier	Certified On	-
156799	9 1		1	0	Microbial	New Job using files	SP7296_MC2.xml	LA	Draft with Certifier	ABC211 Do211	09/05/2019	ABC211 Do211	09/06/2019			

Figure 39 - Certify and Submit Job to State

1) Click on the check box to the left of one or more Jobs with a status of "**Draft with Certifier**." (Figure 39)

Certify & Submit to State			
User Name]	
Password]	
Sub	mit Cancel		

Figure 40 - Login Request to Submit to State

- 7) Click "Certify and Submit to State" to certify and submit the Job(s) to the state.
- 8) Enter User Name and Password and click "Submit." (Figure 40)
- 9) Answer the challenge question displayed, check the certification statement, and then click "Submit." (Figure 41, next page). The challenge questions are established in SCS during registration for a Private Lab or PWS Certifier role.
- 10) A confirmation message will be displayed. Click "OK" to close the window. The Job(s) Status in the Maintenance View will be updated to "**Submitted**."

Question				
Job Id: 156799				
Submission Context: Download Sa	mple			
Attachments				
File Name	Description	Date Added	Added By	
		No items to show.		
1 selected Job(s) will be certified	and submitted to state. Please complete the inform	nation below.		
Question: Are you an authentica	ted user via Shared CROMERR Services? Enter 'Yes'	or 'No' below.		
I certify, under penalty of law that I am aware that there are significant	t the information provided in this document is, to the best o penalties for submitting false information, including the pos	f my knowledge and belief, true, accurate, and complete. sibility of fines and imprisonment for knowing violations.		
Please ensure that you have review state.	red all selected jobs before submitting. You will not be able	to update the selected jobs after submitting them to the		
Submit				

Figure 41 - Certification Ceremony - 2nd Level Authentication

Notes:

- In order to certify and submit multiple jobs, the selected jobs must all have the status of '**Draft with Certifier**.' State Laboratories will not have to electronically sign a Job using the SCS electronic signature service and have a Submitter role to distinguish them from the Certifier role.
- The Challenge questions used for the 2nd level authentication will be established in SCS.
- *A Job in "Submitted" status cannot be modified or edited.*
- The Certifier can download an HTML file that contains all samples before submitting to State. Click the Download XML File available in the screen depicted in Figure 41 -Certification Ceremony - 2nd Level Authentication to save the file locally. The file can be opened in any web browser as an HTML page.

State Laboratories will not need to electronically sign a Job using the SCS electronic signature service and may submit directly to the primacy agency. The status of the Job in the Job Maintenance View will appear the same, showing both Submitted and Accepted.

6.7.1 Authorizations

Only users with Certifier role associated with organization type laboratory (private or state) or water system may send a Job in "Draft with Certifier" to the state.

6.7.2 Data Elements

None.

6.8 REJECT A JOB

A user (Reviewer or Certifier) can reject a draft Sample Job and may provide a reason for doing so in CMDP. Examples of rejection reasons include "Job created in error" or "Job contains invalid data"

- 1) Only Jobs with the "**Draft with Reviewer**" and "**Draft with Certifier**" statuses can be rejected.
- 2) Click on the check box to the left of one of more Jobs to be rejected. (Figure 42)

Compliance Monitoring Data Portal									
Home PWS Profiles	Laboratory Profiles	Drinking Water Sam	ple Jobs Search I	ndividual Samples					
Job Maintenance View	Job Summary View - 15	5489 💥							
Search Jobs									
Job ID	Created By	Status	From	То		File Name	- Conrob	Denet	
		Draft with Review	ver 🔻				Search	Reset	
Drinking Water Sample	Jobs				1				
🤁 Refresh 🍦 Create I	New Job Send to Revie	wer Send to Certifi	er Certify and Subm	it to State 💥 Reject	样 Remove 🔹 I	Download Samples			
Job ID 🔺	Total Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status	
157125	N/A M	N/A	N/A	Microbial	TestMC		LA	Draft with F	
✓ 157126	N/A N	N/A	N/A		XYZ Job		LA	Draft with F	

Figure 42 - Reject One or More Jobs

- 3) Click the "**Reject**" from the toolbar to reject the selected record.
- If you are sure you want to reject the selected Job(s), provide an optional description and click "Reject."
- 5) Click "OK" to acknowledge that the Job(s) has been successfully rejected.



Figure 43 - Reject a Job - Confirmation

Notes:

- Once rejected, the Job Status will be updated to "Draft with Preparer."

6.8.1 Authorizations

Only users with Reviewer and Certifier roles associated with organization type laboratory (private or state) or water system may reject a Job.

6.8.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Reject a Job Reason	A Reviewer or Certifier can reject a Job if needed	-	-	-

Code	Label	Description	R/O/C R	Format	Validations	Additional Designations
SJR-3	Reason	A reason could be provided in text format to justify rejecting a Job	0	Text	The text entered as a rejection reason will be recorded in the Job History Comments column	-

6.9 REMOVE A JOB

	Home P	WS Profiles La	aboratory Profiles	Drinking Water Sampl	e Jobs Search	Individual Sampl	es						
1	Job Maintena	ance View											
	Search Jol	bs											
	Job ID		Created By	Status	From	n	To		File Name		Search	Reset	
	Drinking W	Vater Sample	Jobs	wer Sand to Cartifian	Cartify and Subr	uit to State 🕅 🖌	Reject X Remov	Download	Sampler				
	Job ID	Total I	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status	Prepared By	Created On	Reviewed By	F
	16481	N/A	N/A	N/A	Operational Samples	tthm haa5 oct 2019		X1	Accepted by State	Barrett Brown	05/06/2020	Barrett Brown	0
	16470	2	2	0	Microbial Operational Samples	New Job using XML	XMLSubmissio	X1	Draft with Preparer	Barrett Brown	05/05/2020		

Figure 44 - Remove One or More Jobs

- 1) Only Jobs with the "**Draft with Preparer**," "**Draft with Reviewer**" and "**Draft with Certifier**" statuses can be removed.
- 2) Click on the check box to the left of one or more Jobs to be removed.
- 3) Click "**Remove**" to remove the selected Job(s).
- 4) Click "Yes" to confirm removing the selected Job(s).

6.10 MIGRATE JOB TO COMPLIANCE SYSTEM

Once a Job is submitted to State, it will be processed and migrated to the State Compliance System (e.g., SDWIS State) using the DSE.

- Once the sample results in the Job have successfully been exported to an XML file using the DSE, the status will change from "Submitted" to "Accepted by State."
- A Job in "Accepted by State" status cannot be modified.

6.11 DOWNLOAD JOB FILE (HTML)

Users can download a file that contains all samples within a submitted Job. The Job must be in "Submitted" or "Accepted by State" status.

Compliance	Monitoring Dat	a Portal							Hello Otma (ORG: C	n Bouazzaoui(Priva Ad T-NORWALK WATE	te Lab CMDP Iministrator) Log R COMPANY
Home PWS Profile	es Laboratory Prof	iles Drinking V	Vater Sample Jobs	Search Individua	al Samples (System Administration					
Job Maintenance View	N										
Search Jobs											
Job ID	Created By	Status Submi	itted 💌	From	To	File	Name	Search	Reset		
Drinking Water Sar	mple Jobs										
🤔 Refresh 🖕 Cre	eate New Job Send	to Reviewer Ser	nd to Certifier Cert	tify and Submit to	State 🐹 Reje	ect 💥 Remove 🔋	Download Sample	5			
Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Reviewed On	Certifier	Certified On
830	Microbial	Test 7-19		СТ	Submitted	Kristen Gastner	07/19/2016	Kristen Gastner	07/20/2016	Kristen Gastner	07/20/2016
966	Microbial	Test 7-27		CT	Submitted	Kristen Gastner	07/27/2016	Kristen Gastner	07/27/2016	Kristen Gastner	07/27/2016
1035	Chem/Radionuc	Test 8-1		CT	Submitted	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016
1036	Cryptosporidium	Test 8-1 num 2		CT	Submitted	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016
1038		New Job using files	mysamples 8-1- 16ct w an missing.xml	СТ	Submitted	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016	Kristen Gastner	08/01/2016
1041		New Job using	mysamples 8-1-	СТ	Submitted	Kristen Gastner	08/01/2016	Kristen Gastner	08/03/2016	Kristen Gastner	08/03/2016

Figure 45 - Job Maintenance View: Download Samples button

- 1) Select a Sample Job with status "**Submitted**" from the list of Drinking Water Sample Jobs (Figure 45).
- 2) Click "Download Samples" on the toolbar.
- 3) The HTML file will be downloaded to your local drive.
 - If the user selects multiple jobs, upon clicking "**Download Samples**" a zip file will be created and downloade which contains the HTML file for each job.

Internet Control of Contro	D: 12 Volume: i volume D: 100 Volume:
Data participation Data participation Data participation Data participation Collection Date: 01/02/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabu001 Sample' Analyte: 3015 - Method: CALCUL SDWIS - CALCULATED BY Analyzing Lab ID: Cryptosporidium Results Analyte: 3015 - PRIMACY AGENCY Analyzing Lab ID: Corptosporidium Results Count: Oocystic Colonics Per: Growth Convert Analysis Start Date: Analysis Start Time: Analysis Completed Date: Time: OL002/2016 Copytosporidium Measurements Completed Date: Time: Sample Measurements Parameter Result Result Result Comments Sample Category: Microbial Sample Job Id: 685 Water System Id (Name): TX9000000 (Januk1111) Sampler Category: Microbial Sample Contection Date: 01/01/2016 Units staff Sampler Category: Microbial Sample Contection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabu001 Sample Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Jab Id: 685 Water System Id (Name): TS900000 (Januk1111)	I volume: I volume D: 100 Volume:
Comments: crypto leat Comments: crypto leat Contents: cryptosporidium Results Analyte: 3015 - Cryptosporidium Results Analyte: 3015 - Content: CALCUL SDWIS - CALCULATED BY Analyte: 3015 - Content: Confluent Results Count: Oocyste: Colonies Per: Interference: Confluent Counties Analysis Start Date: Oocyste: Colonies Out/2016 Analysis Start Time: Count: Oocyste: Colonies Measurements Analysis Completed Date: Measurements Count: Measurements Result Result UOM Job Id: 685 Water System Id (Name): TX000000 (Jaruk1111) Sampler Category: Microbial Sampler Cotegory: Microbial Facility: Jaruak Sampling Point: sdaf Collection Date: 01/01/2016 Completed Date: Collection Date: 01/01/2016 Completed Date: Analysis Completed Date: Parameter Result Result VOM Method Comments Sample: Collection Date: 01/01/2016 Collection Time: Collection Date: 01/01/2016 Completed Date: Analyte	i volume D: 100 Volume:
Cryptosporidum Results Analyte: 3015 - Cryptosporidum Method: CALCUL SDWIS - CALCULATED BY Analyzing Lab ID; Count: Oocyste: Colonics Per: Interference: Confluent Growth Was 100% of filtere examined: Analysis Start Dute: Oocyste: Colonics Per: Interference: Confluent Growth Was 100% of filtere examined: Analysis Start Dute: Analysis Start Time: Analysis Completed Time: Completed OL02/2016 Analysis Start Time: Completed Date: Time: Time: Samplete Measurements Freid Results and Measurements Freid Results and Measurements Sampling Location: va Sample Job Id: 685 Water System Id (Name): TX3000000 (Jaruk1111) Sample: Coategory: Microbial Sample: Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabs001 Sample Construct:::::::::::::::::::::::::::::::::::	l volume D: 100 Volume:
Janalyte: 3015 - Cryptosporifium Method: CALCUL SDWIS - CALCULATED BY PRUMACY AGENCY Analyzing Lab ID: Count: Oocyste: Colonies Per: Interference: Confluent Growth Was 100% of filtere examined: Analysis Start Date: Oocyste: Colonies Per: Interference: Confluent Growth Was 100% of filtere examined: Analysis Start Date: Oocyste: Colonies Per: Interference: Confluent Growth Malysis Completed Time: Measurements Measurements Parameter Result Result Result COM Method Comments Job Id: 685 Water System Id (Name): TX9000000 (Jarak1111) Sample Category: Microbial Facility: Januk Sampling Point: sdaf Sampling Location: va Sample Comments: Itoo I - JKLabs001 Contention Date: 01/01/2016 Collection Time: Laborbial Results Analysis Analysis Analysis Analysis Analysis Analysis Analysis Start Completed Date Analysis Analysis Analysis Analysis Analysis Analysis Completed Date Time Job Id: 685 Water System Id (Name): TX9000000 (Janak1111) Sample Coategory: Microbial Contention Date: 01/01/2016 Collection Time: Labu9001 Sample Contention Date: 01/01/2016 Collection Time: <	d volume D: 100 Volume:
Cryptosporidium PRIMACY AGENCY Parameter Interference: Conflacent Growth Was 100% of fibres examinal: Analysis Start Date: 01/02/2016 Analysis Start Time: Analysis Completed Date: Interference: Conflacent Growth Was 100% of fibres examinal: Measurements Measurements Analysis Analysis Analysis Measurements Fred Result and Measurements Sampling Loation: va Sample Job Id: 685 Water System Id (Name): TX9000000 (Jaruk1111) Sampler Category: Microbial Sampler Collection Date: 01/01/2016 Collection Time: Laboratory Id Sampler Conserver Microbial Start Sampler Sampler Conserver Microbial Start Sampler Sampler Conserver Microbial Start Completed Sampler Analysis Analysis Analysis Analysis Analysis Analysis Jab Id: 6485 Water System Id (Name): Method Start Completed Sampler Sampler Conserver Microbial Start Start Completed <td>d volume D: 100 Volume:</td>	d volume D: 100 Volume:
Court: Oscystic Colonics Per: Interference: Confluent Growth Mail Vision 1000, of filtered examined: Analysis Start Date: Analysis Start Time: Analysis Completed Date: Analysis Completed Time: Viewares Result Result Result Measurements Parameter/Result Result Result Sampling Point: sdaf Job Id: 685 Water System Id (Name): TX9000000 (Jaruk1111) Sampler Category: Microbial Job Id: 685 Water System Id (Name): TX9000000 (Jaruk1111) Sampling Location: va Sampler Facility: Jaruk Sampling Point: sdaf Sampling Location: va Sampler Collection Date: U/0/1/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabo001 Constructs Microbial Results Analysis Analysis Analyte APP Count Units Volume Interference Volume Assayed Method Start Jabatoria Analysis Analysis Completed Date: Jabatoria Interference Volume Assayed Method Start Completed Date: Jabatoria Interference Volume Assayed Interference Date Date Jabatoria Interference Volume Assayed Interference Date Date Jabatoria Interference Volume Assayed	D; 100 Volume:
Analysis Start Date: Analysis Start Time: Analysis Analysis Completed Date: Cryptosportidium Measurements Measurements Time: Analysis Measurements Field Results and Measurements Sampling Location: vs Sampling Location: vs Job Id: 685 Water System Id (Name): TX5000000 (Jaruk1111) Sampler Category: Microbial Sampler Category: Microbial Job Id: 685 Water System Id (Name): TX5000000 (Jaruk1111) Sampling Location: vs Sampler Category: Microbial Collection Date: U/01/D2016 Collection Time: Laberatory Id - Name: JK001 - JKLaba001 Sampler Conserver Connertis: Interference Volume Method Start Completed Time J330 - Analysis Analysis Analysis Analysis Analysis Analysis Analysis Field Results and Measurements - - - - n Field Results and Measurements - - - n n	D; 100 Volume:
Cryptosponisium Measurements Measurements Field Result and Measurements Field Result Result Result COM Field Result Result Result COM Job 1d: 685 Water System Id (Name): TX5000000 (Jaruk1111) Sample Category: Microbial Facility: Jaruk Sampling Point: sdaf Sample Category: Microbial Sample Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name; JK001 - JKLabu001 Sample Commerts: mireo test Microbial Results Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Completed Time Lab ID Type G 3430 - Adenovinaes - - - - u - u - u Field Results and Measurements Farameter Result ICOM Method Comments	D: 100 Volume:
Measures Revail Revail Beending and Measurements Parameter Revail Revails and Measurements Job Id: 685 Water System Id (Name): TX5000000 (Jaruk1111) Sample Category: Microbial Job Id: 685 Water System Id (Name): TX5000000 (Jaruk1111) Sample Category: Microbial Sample Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name; JK001 - JKLabs001 Sample Construction to test Microbial Results Analysis Analysis Analysis Analysis Completed Time Type G 3430 - Adenovinaes - - - - n n - n Field Results and Measurements - - - n n n n	D: 100 Volume:
Field Results and Measurements Parameter Result Result Result Result COM Method Comments Job Id: 685 Water System Id (Name): TX5000000 (Janak 1111) Sampler Category: Microbial Facility: Janak Sampling Point: sdaf Sampling Location: va Sampler Category: Microbial Facility: Janak Sampling Point: sdaf Sampler Category: Microbial Sampler Category: Microbial Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabs001 Sampler Comments: micro test Microbial Results Microbial Results Analysis Analysis Analysis Analysis Completed Time Lab ID Type of Lab ID Type of Lab ID Type of Lab ID Time Lab ID Lab ID Time Lab ID <td>D; 100 Volume:</td>	D; 100 Volume:
Parameter Result Result Result COM Method Comments Job Id: 685 Water System Id (Name): TX9000000 (Jarak1111) Sample Category: Microbial Facility: Janak Sampling Point: sdaf Sampling Category: Microbial Sample Category: Microbial Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabs001 Sample Category: Microbial Connecrist: micro test Microbial Analysis Analysis Analysis Analyte A/P Count Units Volume Interference Volume Anter Date Analysis Analysis Completed Date Time Lab ID Type G 3430 - Adenovinaes - - - - u - u Field Results and Measurements	D: 100 Volume:
Job Id: 685 Water System Id (Name): TX900000 (Jaruk1111) Sample Category: Microbial Facility: Jaruk Sampling Point: sdaf Sample Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKL abs001 Sample Comments: mirco test Microbial Results Analysis Analysis Analysis Completed Date Units Volume Interference Volume Assayed Method Start Date Start Time Completed Date Completed Lab ID Type Category: Microbial Results Analysis Analysis Analysis Completed Date Units Volume Interference Volume Assayed Method Start Time Date Date Units Completed Lab ID Type Category: Microbial Results Analysis Analysis Analysis Completed Date Units Volume Interference Volume Assayed Method Start Time Date Units Completed Date Units Units Volume Interference Assayed Method Start Time Date Units Completed Date Units Units Units Volume Interference Assayed Method Start Time Date Units Completed Date Units Units Units Volume Interference Interference Volume Interference Inte	D; 100 Volume:
Job Id: 685 Water System Id (Name): TX9000000 (Jarak1111) Sample Category: Microbial Facility: Janak Sampling Point: sdaf Sampling Location: va Sample: Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLaha001 Sample: Commerk: micro text Microbial Microbial Sample: Completing Analysis Analysis <td>D: 100 Volume:</td>	D: 100 Volume:
Facility: Janak Sampling Point: sdaf Sampling Location: va Sampling Location: va Sampling Location: va Sample Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabs001 Sample Comments: mirco test Microbial Results Analysis Analysis Analysis Completed Time Interference Sample 3430 - Adenoviranes A A - - Interference Interference Interference Interference Interference Non- Interference	ID; 100 Volume:
Collection Date: 01/01/2016 Collection Time: Laboratory Id - Name: JK001 - JKLabs001 Sample Comments: mirco text	Volume:
Commerts: mirco test Microbial Results	
Microbial Results Analysis	
Analyte A/P Count Units Volume Interference Volume Method Analysis Analysis Analysis Analysis Completed Completed Completed Analysis Analysis Analysis Completed Completed </td <td>-</td>	-
3430 - Adenoviranes A Field Results and Measurements Parameter Result Result UOM Method Comments	omments
Field Results and Measurements Parameter Result Result UOM Method Comments	:#01
Parameter Result UOM Method Comments	_
Job Id: 685 Water System Id (Name): TX9000000 (Janak1111) Sample Category: Chem/Radionaclides	
Facility: My Facility 1 Sampling Point: SSS 10 Sampling Location: Sample	ID: 10
Collection Date: 01/02/2016 Collection Time: Laboratory Id - Name: 3K001 - JKL abs001 Sample	Volume
Comments: chem test	
Chem/Radionactides Results	
Analyte Not Result Result Standard Reporting Limit Limit Analysis	Comment
Date Time Date Time	
27405 - V65 Fuel true pH units - Oil	chem results
Field Results and Measurements	
Parameter Result Result UOM Method Comments	
Total Chlorine Residual 1.77 mgf -	

Figure 46 - Representation of the XML in HTML format

Notes:

- The HTML file can be opened with any web browser. A style sheet will be applied to the XML file for it to be human readable. You should be able to see all the samples within a Job displayed in separate tables, as depicted in Figure 46 Representation of the XML in HTML format.
- The HTML file can also be downloaded when the Job is in "Draft with Certifier" status.

6.11.1 Authorizations

All users associated with an organization type laboratory (private or state) or water system may download samples after the Job has been certified and submitted (status is Submitted).

6.11.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Download HTML file	This will allow a user to download an HTML file that contains all the samples of a Job.	-	-	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DUI	HTML	An HTML file that	-	File	Naming convention:	-
DNL	File Name	contains all samples		HTML	Job Details [JOB	
		of a particular Job			ID].html	

6.12 VIEW / ADD / EDIT SAMPLES (MICROBIOLOGICAL / CHEMICALS / RADIONUCLIDES / OPERATIONAL SAMPLES/COMPOSITES) ASSOCIATED WITH A JOB

In the Job Summary View, users will be able to view/add/edit results in Sample Result, Operational Data, and Composite Samples.

- Sample Result Sample Categories
 - 1. Microbiological (also called Microbial)
 - 2. Chemical/Radionuclide
 - 3. Cryptosporidium (a microbiological sample type with a discrete web form)
 - 4. Composites
- Operational Data Sample Categories
 - 1. CFE Turbidity
 - 2. IFE Turbidity
 - 3. Chlorine Chloramine Entering DS (Distribution System)
 - 4. Chlorine Chloramine in DS (Distribution System)
 - 5. Chlorine Dioxide and Chlorite
 - 6. LCR WQP (Water Quality Parameters)
 - 7. TOC (Total Organic Carbon)
 - 8. Ozone Treatment (Bromate)
 - 9. TTHM and HAA5
- Composite Samples

Important Notes:

- All users have access to the data entry screens corresponding to the list above. However, State Users have read-only access. Only Laboratory and PWS Users are able to enter and submit sample data using CMDP.
- Although the application accepts data and stores, as a web form, a searchable Sample Job for the above italicized sample types (items 5–8 in the Operational Data Category), the data stored in CMDP will not be migrated to SDWIS State until a future version of CMDP is released.

- In the interim, to migrate the sample results for items 5–8 in the Operational Data Category to state primacy agencies for compliance determination, laboratories and water systems may report as Chemicals all of the analytes associated with the italicized items by using a LIMS or by using the Chemical/Radionuclide web form or templates.
- Users also can download any of the submitted data from the CMDP application as an XML file, which will be rendered human-readable as HTML (see 6.11, above). Users also may copy all of the information in the HTML page and paste it into a separate document to view the XML file data.

6.12.1 Access the Sample Results Table

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Click the **"Sample Result"** tab under the selected Job to view, add, or remove sample results.

Maintenance View Job Summary View - 1098 💥							
🔁 Refresh Add 🔻 🎉 Remove							
Category	WS ID	WS Name	Facility Name	Sampling Point	Sample ID	Sample Type	Collection Date
Microbial	X1TPWS002	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	7654321	Routine	12/01/2016
Chem/Radionuclides	X1TPWS002	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	1234567	Routine	11/29/2016
Chem/Radionuclides	X1TPWS002	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	10203040	Routine	11/15/2016
Composite	X10010044	ANDOVER PLAZA	DISTRIBUTION SYSTEM	4	8873422	Routine	05/15/2017
Composite	X10010024	ANDOVER TOWN HALL & FIRE DEPARTMENT	DISTRIBUTION	4	8873421	Routine	05/15/2017

6.12.2 Add a Microbiological, Chemicals/Radionuclides, or Cryptosporidium Sample to a Job

Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.

Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.

Under the "Sample Result" tab, click "Add," then select "Microbial," "Chem/Radionuclides," or "Cryptosporidium" from the dropdown list. (Figure 48)

A new window will open with the corresponding Sample Result data entry screen.
Refresh Add	K Remove						
Categon		WS Name	Facility Name	Sampling Point	Sample ID	Sample Type	Collection Date
Microbia	31	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	7654321	Routine	12/01/2016
Chem/Ra Chem /	Radionuclides	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	1234567	Routine	11/29/2016
Chem/Ra Cryptos	poridium	Test PWS X1	TestX1TreatFac001	Test X1 Spl A001	10203040	Routine	11/15/2016
Composite	X10010044	ANDOVER PLAZA	DISTRIBUTION SYSTEM	4	8873422	Routine	05/15/2017
) Composite	X10010024	ANDOVER TOWN HALL & FIRE DEPARTMENT	DISTRIBUTION SYSTEM	4	8873421	Routine	05/15/2017

6.12.3 Add a Microbiological Sample to a Job

- 1) Select the "Drinking Water Sample Jobs" Module Tab. The "Job Maintenance View" tab appears.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the **"Sample Result"** tab, Click **"Add**," then select **"Microbiological"** from the dropdown list. (Figure 48)
- 4) Enter the sample information for Microbiological Sample in the Sample Information area of the web form. All fields marked with an asterisk (*) are required. (Figure 49)

-	Save 🛛 🚽 Save And Add Ar	other 🙆 Close										- Required	+ - Conditionally Requ	red f - Federally F	Required	f - Federally Condi	ionally Required
₽	Set Default Values for San	ple information															
Wat	ter System Id" : W	ater System Name	Facility :		Samp	pling Point":	Sampling Locat	ion									
Х1	•				•		•										
San	nple ID * :		Collection Date **:	Collectio	on Time (24-hr) ⁴	Sample Res	eived Date ⁴										
Lab	oratory ID - Name * :		Sample Type ¹ :	Sample \	/olume(ML)	Sample Collector Nan	e .										
X1	AB001 - X1 TEST - LAB		Routine	-													
	nment																
₽	Set Default Values for San	ple Results Table															
Mic	robial Analytes Resu	lts															
2	Refresh 💠 Add 💥 R	emove															
C	Analyte 1	ajp ⁴	Count *	Units *	Volume(ML) *	Interference	Volume Assayed(ML)	Method ¹	Analysis Start Date	Analysis Start C Time (24-hr)	nalysis Completed late	Analysis Completed Time (24-hr)	Analyzing Lab ID	Person Performing Analysis	Source Typ	pe Com	nents
							No	items to show.									
\bigtriangledown	Field Results and Measure	ments															
	Field Results and Me	asurements															
	🤁 Refresh 🌵 Add 🌡	Kemove															
	Parameter		Result			Result UOM		Method	_			Person Performin	g Analysis	Comr	nents		
								No items to show.									

Figure 49 - Add a Microbiological Sample to Job

5) If the "Sample Type" selected from the pick list is "Repeat", populate the "Repeat Location." If the "Sample Type" selected is "Repeat" or "Triggered," select the "Related Original Sample Collected." You may select a different Water System in order to find the "Related Original Sample" (Figure 50).

Microbial							
🗐 Save 🔞 Save And Add Another 🔞 Close							
Set Default Values for Sample Information							
Water System Id*: Water System Name	Facility : DS0950 - N/A - ABC83549	Sampling F	Point : Sampling	Location			
Sample ID*: MC-CO-106	Collection Date *1 : Coll 09/18/2019	lection Time	Sample Received Date HH:MM				
Laboratory ID - Name : LA01171 - org27346	Sample Type *1: Sam Repeat	ple Volume(ML) ¹ Sa	ample Collector Name				
Comment							
~							
~ ~ ~							
Repeat Location							
Related Original Sample Collected							
Water System Id": Water System Na LA0000000 State ABC62186	me Sample ID*:						



- 6) Under the "**Microbiological Analytes Results**" grid, click "**Add**" to add microbiological analytes results. All fields marked with an asterisk (*) are required (Figure 49). Note that, when "**Add**" is clicked, the application performs validations on the information entered for the sample and saves the information if no issues are found. You won't be able to add the first record to the grid if the information entered for the sample doesn't pass all the validations.
- 7) Under the "Field Results and Measurements" grid, click "Add" to add field results and measurements. (Figure 49)
- 8) Click "Save" to add the sample result to the Drinking Water Sample Job.
- 9) Click "Save and Add Another" to continue adding microbiological sample results to the Drinking Water Sample Job. See 6.12.7 below for more on this feature.

Notes:

To accommodate "Count" values of less than 1, select Absent from A/P and enter '<1' in the "Comments" field.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier, or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/ CR	Validations	Additional Designations
Microbiological	Sample information for	R	All required fields must be	-
Sample Header	microbiological analytes		populated for sample to be saved	

Code	Label	Description	R/O/	Format	Validations	Additional
MIC-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: Water Systems within the Primacy Agency. Display WS ID and Name in dropdown list Primacy Agency Code added by default to the WS ID field.	-
MIC-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/A	Disabled Field	Disabled field Field auto-populated according to selection made in MIC-1	-
MIC-2	Facility	Water system facility related to the sample	R	List [ID – Name]	List of values: Facilities within the water system selected	-
MIC-3	Sampling Point	Sampling point related to the sample	R	List [ID]	List of values: Sampling Points within the facility selected	-
MIC-4	Sampling Location	Location of the sampling point (e.g., address)	0	Text		-
MIC-5	Sample ID	ID assigned to the sample	R	Alpha- numeric		-
MIC-6	Collection Date	Date on which sample was collected	R	Date MM/DD /YYYY	Date cannot be a future date	Federally required
MIC-7	Collection Time	Time when sample was collected	0	Time HH/MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags	Federally required
MIC-7.1	Sample Received Date	Date on which lab received sample	R	Date MM/DD /YYYY	Collection Date \leq Date \leq Analysis Start Date	Federally required
MIC-8	Laboratory ID – Name	Reporting laboratory	R	List	List of values: Laboratories associated with user account; for Laboratory Users, default to selected working organization	-

MIC-9	Sample	The type of	R	List	List of values: Routine	Federally
MIC-9	Туре	sample collected (e.g., routine)	ĸ	List	List of values: Routine, Repeat, Triggered, Confirmation, Special, Batch Blanks, Field Blanks, Performance Evaluation, Shipping Blanks, Split Blanks, Maximum Residence	required
MIC-10	Sample Volume	Sample volume collected	0	Number	Time, Matrix Spike The total number of digits allowed is 9, with a maximum of 7 numbers to the left of the decimal and a maximum of 2 decimal places, i.e. 9999999.99	Federally required
MIC-11	Repeat Location	Location of a repeat sample relative to the positive sample for which the repeat is being collected.	0	List	List of values: Original Site Downstream Upstream Source Alternative (RTCR) Other (TCR) Display field if MIC-9 (Sample Type) is "Repeat"	-
MIC-12	Sample ID	Original sample collected for which a repeat confirmation was needed	CR	List	List of values: Show the previous 100 samples collected for the water system Display field if MIC-9 (Sample Type) is "Repeat," "Confirmation," or "Triggered"	Conditionally Required
MIC-13	Water System ID	Water system related to the original sample	R	List [ID – Name]	List of Values: Water Systems within the Primacy Agency. Display WS ID and Name in dropdown list Default value: the Water System of the Repeat or Triggered Sample being added. Primacy Agency Code added by default to the WS ID field.	-
MIC-13.1	Water System Name	Name of the water system related to the original sample; the name can be the formal, legal, or common name used to refer to the water system	N/A	Display- only	Field auto-populated according to selection made in MIC-13	-

Group	Description	R/O/ CR	Validations	Additional Designations
Microbiological	Results table within a	0	All required fields for a	-
Analyte Results	sample		result row must be populated	
	-		for record to be saved	

			R/O			Additional
Code	Label	Description	/CR	Forma	Validations	Designations
		1		t		0
MIC-14	Analyte	Contaminant	R	List	List of values:	Federally
	-	subject to		[Code-	List of all microbiological	required
		analysis		Name]	analytes	•
		-		-	If MIC-14 is "3100-	
					Coliform" and MIC-15 is	
					"Absent", cannot add	
					additional MIC- 14 equal to	
					"3014- E.Coli" with MIC-15	
					"Present" (cannot have E-Coli	
					present with Coliform absent)	
					When a TC+ sample result is	
					reported without an E.coli	
					result, the validations tab for	
					Analyte 3100- Coliform will	
					display, "Missing Sample	
					Result for E.coli Given	
					Reported TC+	
			D	T 1 .	Sample Result	
MIC-15	A/P	Indicator for	К	List	List of values: Absent Present	Federally
		analyte			If selected value is "Present,"	required
		presence or			display value in bold red	
		absence in				
MIC 16	Count	The sample	0	Number	If $\Lambda/D = D_{12}$ and h_{12}	
MIC-16	Count	Count field	0	Number	II $A/P = Present, must be$	
		<i>Count</i> field,			f = A h cont may he	
		III combination			$\pi A = A = A = A = A = A = A = A = A = A $	
		with the			greater than zero. The total	
		Units and			number of digits allowed is	
		Volume(ML)			15 with a maximum of 10	
		fields.			numbers to the left of the	
		indicate the			decimal and a maximum of	
		density of the			5 decimal places. Note that.	
		microbes			if the user enters zero(s) at	
		found in the			the end of decimals, they	
		sample			are retained	

MIC-17	Units	The Units	CR	List	If Count has a value, then	Conditionally
		field, in			the Units field is required	required
		combination			List of values: Colonies	-
		with Count			Colony Forming Units	
		and Volume,			Cysts, Calculated Cysts,	
		indicate the			Observed, Most Probable	
		density of the			Number Observations	
		microbes			Oocysts, Calculated	
		found in the			Oocysts, Observed, Plaque	
		sample			Forming Units Tubes	
MIC-18	Volume	The Volume	CR	Number	If Count has a value, then	Conditionally
	(ML)	(ML) field, in			Volume is required	required
		combination			The total number of digits	
		with Count			allowed is 9, with a	
		and Units,			maximum of 7 numbers to	
		indicate the			the left of the decimal and a	
		density of the			maximum of 2 decimal	
		microbes			places, i.e. 9999999.99	
		found in the				
		sample The				
		value entered				
		should be in				
		milliliters				
		(ML).				

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
MIC-19	Interference	The type of interference encountered by the laboratory during the analysis of the sample.	0	List	List of values: Confluent Growth Turbid Culture – no gas Too Numerous to Count Disable field if MIC- 15=Absent t	
MIC-20	Volume Assayed	Volume of the sample analyzed by the laboratory	0	Number	The total number of digits allowed is 9, with a maximum of 7 numbers to the left of the decimal and a maximum of 2 decimal places, i.e. 99999999.99 Volume Assayed (MIC- 20) must be less than or equal to to Sample Volume (MIC-10).	Federally required
MIC-21	Method	Analytical method used by laboratory	0	List	List of values: Analytical methods corresponding to Analyte selected in MIC-14	Federally required
MIC-22	Analysis Start Date	Date when analysis started	0	Date MM/D D/YYY Y	MIC-22 and MIC-23 must be greater than or equal to MIC-6 (collection date) and MIC-7 (collection time)	Federally required

MIC-23	Analysis Start Time	Time when analysis started	0	Time HH:M M (24h)	MIC-22 and MIC-23 must be greater than (collection date) and MIC-7 (collection time)	Federally required
MIC-24	Analysis Completed Date	Date when analysis ended	0	Date MM/D D/YYY Y	MIC-24 and MIC-25 must be greater than or equal to MIC-22 and MIC-23	-
MIC-25	Analysis Completed Time	Time when analysis ended	0	Time HH:M M (24h)	MIC-24 and MIC-25 must be greater than or equal to MIC-22 and MIC-23	-
MIC-26	Analyzing Lab	Laboratory that performed the analysis (if different than reporting laboratory)	0	List	List of values: List of all laboratories within the Primacy Agency	-
MIC-27	Person Performing Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
MIC-28	Source Type	This optional field is disabled unless the user selects <i>E.coli</i> for MIC-14	0	List	List of values: Flowing Stream Lake Reservoir GWUDI	Federally conditionally required
MIC-29	Comments	Text input field for additional comments	0	Text	-	-

Group	Description	R/O/ CR	Validations	Additional Designations
Field Results	Additional parameter measure-	0	All required fields must be	-
and	ments made when the sample was		populated for record to be	
Measurements	collected, i.e., in the field.		saved	

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
MIC-30	Parameter	The parameter that was analyzed in the field	R	List	List of values: 1013 – Free Chlorine Residual, 1996 – Temperature 1012 – Total Chlorine Residual, 0100 – Turbidity, 1925 – pH	-
MIC-31	Result	Measured value for the field measurement	R	Numeric 0 – 9999999. 9999999 9 (6,9)	Required to add a Field Result and Measurement Note: the application retains zeros at the end of the decimal if users entered them.	-

MIC-32	Result UOM	Unit of measure for the field measurement	R	List	List of values: Mg/l Fahrenheit Celsius MTU Ph Applicable UOM for parameter selected	-
MIC-33	Method	Analytical method used to measure the field measurement	0	List	List of values: Applicable methods for parameter selected	-
MIC-34	Person Performing Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
MIC-35	Comments	Text field for additional comments	0	Text	-	-

6.12.4 Add a Chemical/Radionuclide Sample to a Job

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "Sample Result" tab, Click "Add," then select "Chem / Radionuclides"

from the dropdown list. (Figure 48)

4) Enter information for the chemicals/radionuclides sample in the Sample Information area of the web form. All fields marked with an asterisk (*) are required. (Figure 51)

🚽 Save 🧃 Save And Add Another 👩 Close	• - Required	+ - Conditionally Require	d f - Federally Required	/ - Federally Conditionally Required
Set Default Values for Sample Information				
Water System : Water System Name Facility : Sampling Point : Sampling Location				
Sample ID ': Collection Date ¹¹ : Collection Time (24/m) ¹ Sample Received Date ¹				
Laboratory ID - Name : Sample Type ¹¹ : Sample Volume(ML) Sample Collector Name				
X1LAB001 - X1 TEST - LAB Routine				
Comment				
Set Default Values for Sample Results Table				
Chem/Rads Results				
🥸 Refresh 🌵 Add 🧩 Remove				
Analyle * Not Detected * Result / Result UOM / Standard Deviation (+/-) Reporting Limit / Reporting Limit UOM * Volume Assayed(ML) Method * Analysis St. Date *	art Analysis Start Time (24-hr)	Analysis Analysis Completed Completed An Date Time (24-hr)	valyzing Lab ID Person Pe Analysis	comments
No items to show.				

Figure 51 - Add a Chemical/Radionuclide Sample

If entering a confirmation sample, the original Sample ID is also required. Up to one hundred (100) samples collected in the water system will be displayed in the list. (Figure 52)

Laboratory ID - Name * :		Sample Type */:	Sampl
JK001 - JKLabs001	•	Confirmation	◄
Comment			
Related Original Sample Collected			
Sample ID * :			
		▼	
Figure 52 - Conf	ìrm	ation Sample	

5) Under "Chemicals/Radionuclides Results" grid, click "Add" to add a chemical or radionuclide result (Figure 51). Note that, when "Add" is clicked, the application performs validations on the information entered for the sample and saves the information if no issues are found. You won't be able to add the first record to the grid if the information entered for the sample doesn't pass all the validations.

- 6) Under "Field Results and Measurements" grid, click "Add" to add a field result and measurement.
- 7) Click "Save" to add the sample result to the Drinking Water Sample Job.
- 8) Click "**Save and Add Another**" to continue adding Chemicals/Radionuclides sample results to the Drinking Water Sample Job. See 6.12.7 below for more on this feature.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System users with Reviewer, Certifier, or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.
- -

Group	Description	R/O/ CR	Validations	Additional Designations
Chemicals/Radionuclides Sample Header	Sample information for Chemicals/Radionuclides analytes	R	All required fields need to be populated for record to be saved	-

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
CHR-1	Water System ID	Water system at which the sample was collected	R	List [ID – Name]	List of Values: Water Systems within the Primacy Agency Display WS ID and Name in dropdown list Primacy Agency Code added by default to the WS ID field	-
CHR-1.1	Water System Name	Name of the water system at which the sample was collected	N/A	Disabled Field	Disabled field Field auto-populated according to selection made in CHR-1	-
CHR-2	Facility	Water system facility at which the sample was collected	R	List [ID – Name]	List of values: Facilities within the water system selected	-
CHR-3	Sampling Point	Sampling point at which the sample was collected	R	List [ID]	List of values: Sampling Points within the facility selected	-
CHR-4	Sampling Location	Location of the sampling point (e.g., address)	0	Text	-	-
CHR-5	Sample ID	ID assigned to the sample	R	Alpha- numeric	-	-
CHR-8	Collection Date	Date on which sample was collected	R	Date MM/DD/ YYYY	CHR-8 cannot be a future date	Federally required
CHR-9	Collection Time	Time when sample was collected	0	Time HH/MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	Federally required
CHR-9.1	Sample Received Date	Date on which lab received the sample	R	Date MM/DD/ YYYY	Collection Date ≤ Sample Received Date ≤ Analysis Start Date	Federally required
CHR-10	Laborator y ID – Name	That laboratory that is reporting the sample and result(s)	R	List	List of values: Laboratories associated with user account For Laboratory Users, default to selected working organization	-

CHR-11	Sample Type	The type of sample collected (e.g., routine)	R	List	List of values: Routine Repeat Triggered Confirmation Special Batch Blanks Field Blanks Performance Evaluation Shipping Blanks Split Blanks Maximum Residence Time Matrix Spike	Federally required
CHR-13	Sample Volume (ML)	The volume of the sample collected in milliliters	0	List	The total number of digits allowed is 9, with a maximum of 7 numbers to the left of the decimal and a maximum of 2 decimal places, i.e. 9999999.99	Federally required
CHR-13.1	Repeat Location	Typically, not used for chemical or radionuclide samples. See above under 6.12.3.2	0	List	List of values: Original Site Downstream Upstream Source Alternative (RTCR) Other (TCR) Display field if MIC-11 (Sample Type) is "Repeat"	-
CHR-13.2	Original Sample ID	The sample for which the repeat/ triggered/ confirmation sample is being collected	R	List	List of values: Show the previous 100 samples collected for the water system. Display field if MIC-11 (Sample Type) is "Repeat" or "Confirmation" or "Triggered"	-

Group	Description	R/O/ CR	Validations	Additional Designations
Chemicals/Radionuclides	Results table	0	All required fields must be	-
Analyte Results	within a sample		populated for record to be saved	

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CHR-14	Analyte	Contaminant that was analyzed	R	List [Code- Name]	List of values: List of all Chemical analytes (add parameters)	Federally required
CHR-15	Not Detected	Indicator for detection/ Non-detection of the contaminant	R	Checkbox	Checked: Not Detected Unchecked: Detected If CHR-15 is unchecked, enable CHR-16 and CHR-17.	Federally required
CHR-16	Result	Measured value	CR	Numeric +/- 0 - 9999999.9 999999999	If CHR-15 is checked (Not Detected), CHR016 is optional, but if valued, must be	Federally conditionally required if CHR-15 'Not

				(6,9)	less than CHR-19). If CHR-15 is unchecked, CHR-16 is required. Display result in bold red if analyte MCL is exceeded Retain zeros at the end of the decimal if users entered them	Detected' is Unchecked
CHR-17	UOM	Unit of measure	CR	List	List of values: mg/L, ug/L degree C LANG, mF/L ng/L NTU, pH units umho/cm pCi/L TON, Color Units, L/mg-M, If CHR-16 is valued, CHR-17 is required.	Required if CHR-15 'Not Detected' is Unchecked
CHR-18	Standard Deviation (+/-)	The counting error reported by the laboratory for an activity measurement	0	Numeric 0 to 99999999. 99 (7,2)		Federally Conditionall y Required if CHR-15 is Detected (checked)
CHR-19	Reporting Limit	The smallest Concentration of the Contaminant that can be reported by the lab for the Analytical method used	0	Numeric +/- 0 - 999999.9 999999999 (6,9)		Federally Required, Required if CHR-15 is Detected (checked)
CHR-20	Reporting Limit UOM	Unit of measure for reporting limit	0	List	List of values: mg/L, ug/L, degree C, LANG, mF/L, ng/L, NTU, pH units, umho/cm, pCi/L, TON, Color Units, if CHR-19 is valued, then CHR-20 required	Federally Required, Required if CHR-15 is Detected (checked)
CHR- 21	Volume Assayed	Portion of the volume that was used in the analysis	0	Number	The total number of digits allowed is 9, with a maximum of 7 numbers to the left of the decimal and a maximum of 2 decimal places, i.e. 999999999 Volume Assayed (CHR-20) must be less than or equal to Sample Volume (CHR-13).	-

GUD AA	36.4.4			T 1 .		
CHR-22	Method	Analytical method used	0	List	List of values: List of methods applicable to analyte selected in CHR-14	Federally Required
CHR-23	Analysis Start Date	Date when Analysis started	0	Date MM/DD/ YYYY	CHR-23 and CHR-24 must be greater than or equal to CHR-8 (collection date) and CHR-9 (collection time)	Federally Required
CHR-24	Analysis Start Time	Time when analysis started	0	Time HH:MM (24h)	CHR-23 and CHR-24 must be greater than or equal to CHR-8 (collection date) and CHR -9 (collection time) When the Time is 00:00:00, the application does not populate the XML tags.	Federally Required
CHR-25	Analysis Complete d Date	Date when analysis ended	0	Date MM/DD/ YYYY	CHR-25 and CHR-26 must be greater than or equal to CHR-23 and CHR-24	-
CHR-26	Analysis Completed Time	Time when analysis ended	0	Time HH:MM (24h)	CHR-25 and CHR-26 must be greater than or equal to CHR-23 and CHR-24 When the Time is 00:00:00, the application does not populate the XML tags.	-
CHR-26.1	Analyzin g Lab	Laboratory that performed the analysis (if different that reporting laboratory)	0	List	List of values: List of all laboratories within the Primacy Agency	-
CHR-26.2	Person Performin g Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
CHR-28	Comment s	Text field for additional comments	0	Text		-

Group	Description	R/O/ CR	Validations	Additional Designations
Field Results and	Additional parameters that could	0	All required fields must	-
Measurements	be recorded when sample is		be populated for record	
	collected/analyzed		to be saved	

Code	Label	Description	R/O/	Format	Validations	Additional
CHR-29	Parameter	Additional parameters analyzed in the sample	R	List	List of values: CHLORINE, Chloramine Color, Free Chlorine Residual Turbidity, Total Chlorine Residual Water Temperature, pH	-
CHR-30	Result	Measured value	R	Numeric 0 – 9999999.99 99999999 (6,9)	Required to add a Field Result and Measurement Note: the application retains zeros at the end of the decimal if users entered them.	-
CHR-31	UOM	Unit of measure	R	List	List of values: Mg/l Fahrenheit Celsius MTU, pH, Applicable UOM for parameter selected Required to add a Field Result and Measurement	-
CHR-32	Method	Analytical method used	0	List	List of values: Applicable methods for parameter selected	-
CHR-33	Person Performin g Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
CHR-34	Comment s	Text field for additional comments	0	Text	-	-

6.12.5 Add a Positive Cryptosporidium Sample to a Job

🧐 Save 🚽 Save And Add Another 🔞 Close	• - Requ	uired + - Conditionally Required	Federally Required Federally Conditionally Required
Set Default Values for Sample Information			
Water System ": Water System Name Facility":	Sampling Point": Sampling Location	n	
X1 💌	v v		
Sample ID : Collection Date 1: Collection Time (24-br)	Sample Received Date		
	emm I		
Laboratory ID - Name	nnie Volume/MI V		
X1LAB001 - X1 TEST - LAB	nper volume(mc) · · · · · · · · · · · · · · · · · · ·		
Command			
Contracts.			
^			
~			
Counto Desulta			
Crypto Results			
Analyte ": Method " Ana	alyzing Lab ID Person Performing Analysis		
Count' Occysts' Per(ML)' In	terference Was 100% of filtered volume examined 7	_	
Colonies	Yes	•)	
Analysis Start Date Analysis Start Time (24-hr) HH:MM			
Analysis Completed Date Analysis Completed Time (24-hr)			
Cryptosporidium Measures			
a Refresh 🌵 Add 💥 Remove			
Measures	Result	Result UOM	

Figure 53 - Add a Positive Cryptosporidium Sample

- 1) Under "Drinking Water Sample Jobs" tab, click on "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under "Sample Result" tab, Click "Add" then select Cryptosporidium from the dropdown list. (Figure 48)
- Enter metadata information for Cryptosporidium sample. All fields marked with an asterisk (*) are required. (Figure 53)
- 5) Under "Crypto Results," enter the required analyte information. (Figure 53)
- 6) Under "**Cryptosporidium Measures**," click "**Add**" to add other sample measures (Figure 53). Note that, when "**Add**" is clicked, the application performs validations on the information entered for the sample and cryptosporidium result above and saves the information if no issues are found. You won't be able to add the first record to the grid if the information entered for the sample doesn't pass all the validations.
- 7) Click "Save" to add the sample result to the Drinking Water Sample Job.
- 8) Click "Save and Add Another" to continue adding cryptosporidium sample results to the Drinking Water Sample Job.

Note: Use the Microbial sample to enter a cryptosporidium 'Absent' result.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/ CR	Validations	Additional Designations
Cryptosporidium Sample Header	Sample information for cryptosporidium analyte	R	All required fields must be populated for record to be saved	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
CRY-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: Water systems within the Primacy Agency, Display WS ID and Name in dropdown list, Primacy Agency Code, added by default to the WS ID field.	Federally required
CRY-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/A	Disabled Field	Disabled field Field auto-populated according to selection made in CRY-1.	Federally required
CRY-2	Facility	Water system facility related to the sample	R	List [ID – Name]	List of values: Facilities within the Water System selected	Federally required
CRY-3	Sampling Point	Sampling points related to the sample	R	List [ID]	List of values: Sampling Points within the facility selected	Federally required
CRY-4	Sampling Location	Location of the sampling point (e.g., address)	0	Text	-	-
CRY-5	Sample ID	ID assigned to the sample	R	Alpha- numeric	-	-
CRY-8	Collection Date	Date on which sample was collected	R	Date MM/DD/ YYYY	Date cannot be a future date	Federally required
CRY-9	Collection Time	Time when sample was collected	0	Time HH/MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	Federally required
CRY-9.1	Sample Received Date	Date on which lab received sample	R	Date MM/DD/ YYYY	Collection Date ≤ Sample Received Date ≤ Analysis Start Date	Federally required
CRY-10	Laboratory ID – Name	Reporting laboratory	R	List	List of values: Laboratories associated with user account For Laboratory Users, default to selected working organization	-

CRY-11	Sample	The type of	R	List	List of values:	Federally
	Туре	sample			Routine, Repeat,	required
		collected (e.g.,			Triggered,	-
		routine)			Confirmation, Special,	
					Batch Blanks, Field	
					Blanks, Performance	
					Evaluation, Shipping	
					Blanks, Split Blanks,	
					Maximum Residence	
					Time, Matrix Spike	
CDI 10	Sample	Sample	0	Number	The total number of	Federally
CRY-13	Volume	volume			digits allowed is 9, with	required
		required for			a maximum of 7	
		analysis			numbers to the left of	
					the decimal and a	
					maximum of 2 decimal	
					places, i.e. 9999999.99	

Group	Description	R/O/ CR	Validations	Additional Designations
Cryptosporidium Analyte Results	Results field for crypto analyte	0	All required field must be populated for record to be saved	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CRY-14	Analyte	Contaminant subject to analysis	R	List	List of values: Cryptosporidium	Federally required
CRY-15	Method	Analytical method used by laboratory	CR	List	List of values: Applicable methods for Cryptosporidium	Federally conditionally required
CRY-15.1	Analyzing Lab	Laboratory that performed the analysis (if different that reporting laboratory)	0	List	List of values: List of all laboratories within the Primacy Agency	-
CRY-15.2	Person Performing Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
CRY-16	Count	Number of oocysts counted	0	Numeri c (15,5)	The total number of digits allowed is 15, with a maximum of 10 numbers to the left of the decimal and a maximum of 5 decimal places, i.e. 99999999999999999 Retain zeros at the end of the decimal if users entered them	Federally conditionally required

CRY-18	Oocysts	Unit used to	0	List	List of values: Colonies	Federally
					Cysts, Calculated Cysts, Observed Most Probable Number Observations Oocysts, Calculated Oocysts, Observed Plaque	required
CRY-19	Per	Volume	0	List	The total number of digits allowed is 9, with a maximum of 7 numbers to the left of the decimal and a maximum of 2 decimal places, i.e. 9999999.99	Federally conditionally required
CRY-20	Interferenc e	Factors potentially interfering with analysis	0	List	List of values: Confluent Growth Turbid Culture – no gas Too Numerous to Count	-
CRY-23	Analysis Start Date	Date when analysis started	0	Date MM/D D/YYY Y	CRY-23 and CRY-24 must be greater than or equal to CRY-8 (collection date) and CRY-9 (collection time) [CRY-23 and CRY- 24] – [CRY-8 and CRY-9] must be less than 30 hours	Federally required
CRY-24	Analysis Start Time	Time when analysis started	0	Time HH:M M (24h)	CRY-23 and CRY-24 must be greater than or equal to CRY-8 (collection date) and CRY -9 (collection time) When the Time is 00:00:00, the application does not populate the XML tags.	Federally required
CRY-25	Analysis Completed Date	Date when analysis ended	0	Date MM/D D/YYY Y	CRY-25 and CRY-26 must be greater than or equal to CRY-23 and CRY-24 [CRY-23 and CRY-24] – [CRY-8 and CRY-9] must be less than 30 hours	-
CRY-26	Analysis Completed Time	Time when analysis ended	0	Time HH:M M (24h)	CRY-25 and CRY-26 must be greater than or equal to CRY-23 and CRY-24 When the Time is 00:00:00, the application does not populate the XML tags.	-
CRY-27	Was 100% of filtered volume examined (Y/N)?	To indicate whether less than 100% of filtered volume was examined	0	List	List of values: Yes No	Federally conditionally required

Group	Description	R/O/CR	Validations	Additional Designations
Other Sample Measures			None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CRY-29	Measures	Additional measures to be reported (under certain conditions) for cryptosporidium samples	R	List	List of values: Percent filtered volume analyzed Number of oocysts Calculated number of oocysts per volume Volume assayed Volume of resuspended concentrate Volume of resuspended conc. processed	-
CRY-30	Result	Measured value	R	Numeric 0 – 999.99 (3,2)	None	-
CRY-31	UOM	Unit of measure	R	List	List of values depends on selection made in CRY-29	-

Group	Description	R/O/CR	Validations	Additional Designations
Field Results and	Additional parameters that	0	All required fields must	-
Measurements	could be recorded when		be populated for record	
	sample is collected/analyzed		to be saved	

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CRY-29	Parameter	Additional parameters analyzed in the sample	R	List	List of values: 1013 – Free Chlorine Residual 1996 – Temperature 1012 – Total Chlorine Residual 0100 – Turbidity 1925 – pH	-
CRY-30	Result	Measured value	R	Numeric 0 – 99999999 .99 (7,2)	Required to add a Field Result and Measurement Note: the application retains zeros at the end of the decimal if users entered them.	-
CRY-31	UOM	Unit of measure	R	List	List of values: Mg/l Fahrenheit Celsius, MTU, pH, Applicable UOM for parameter selected	-

CRY-32	Method	Analytical method used	0	List	List of values: Applicable methods for parameter selected	-
CRY-33	Person Performing Analysis	Lab personnel performing analysis	0	Text	Less than or equal to 100 characters	-
CRY-34	Comments	Text field for additional comments	0	Text	-	-

6.12.6 Add a Composite Sample to a Job

Users are able to add/edit a composite sample to a Job by using the web form in Figure 54.

Composite Sample Results							
🗃 Save 🙆 Close * - Required + - Conditionally Required f - Federally Required f - Federally Conditionally Required							
Composite Sample Results Composite Sample ID *: Composite Date *: Sample Volume(ML) Laboratory ID - Name *: For Radionuclides							
Individual Sample							
Refresh Ad	Sample Type *	Collection Colle Date* (24-1	ection Time hr)	Laboratory Id - Name*	Sampling Location	Sample Volume	
	No items to show.						
Set Default Values for Sample Results Table							
Chem/Rads Results							
😂 Refresh 🍦 Add 💢 Remove							
Analyte* Not Detected Result Result UOM C+1 Reporting Limit UO	g Assayed Met (ML)	Analysis Start Date	Analysis Start Time (24-hr)	Analysis Completed Date	Analysis Completed Time (24-hr) Analyz Lab ID	Comments	
	No items to show.						

Figure 54 - Add a Composite Sample

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "Composite Samples" tab, Click "Add."
- 4) Enter information for the composite sample in the **Composite Sample Results** area at the top of the web form. All fields marked with an asterisk (*) are required. (Figure 54)
- 5) In the **"Individual Sample"** grid, click "**Add**" to add each of the individual samples that were composited (Figure 54). Note that, when "**Add**" is clicked, the application performs validations on the information entered for the composite sample and saves the information if no issues are found. You won't be able to add the first record to the grid if the information entered for the sample doesn't pass all the validations.
- 6) In the "Chem/Rads Results" grid, click "Add" to add a chemical or radionuclide result. (Figure 54)
- 7) Click "Save" to add the composite sample to the Drinking Water Sample Job.

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.

Description

Identifies the composite sample

- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

R/O/

CR

Validations

None

Additional

-

Designations

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CS-1	Composite Sample ID	ID assigned by user to composite sample	R	Alpha- numeric	-	-
CS-2	Composite Date	Date when sample is composited	R	Date MM/DD/ YYYY	-	-
CS-3	Sample Volume	Volume of composited sample	0	Numeric	-	-
CS-4	Laboratory ID	Reporting laboratory	R	List	List of values: Working laboratory for Laboratory Users List of all laboratories within the Primacy Agency for Water System Users	-
CS-5	For Radionuclides	Check if composite sample is for Radionuclides	0	Checkbox	-	-

DATA ELEMENTS

Group

Composite Sample Information

Group	Description	R/O/ CR	Validations	Additional Designations
Individual Sample	Identifies the		If CS-5 is checked, CS-6, CS-7,	-
Information	composite sample		CS-8, and CS-9 must be the same.	

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			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
CS-6	Water System ID	Water system related to the sample	R	List	List of all water systems within the Primacy Agency for Laboratory Users If CS-5 is checked, disable field for any additional rows added to the table	-
CS-7	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	-	-	Populated when CS-6 is selected If CS-5 is checked, disable field for any additional rows added to the table	-
CS-8	Facility	Water system facility related to the sample	R	-	If CS-5 is checked, disable field for any additional rows added to the table. List of all facilities within water system selected in CS- 6	-
CS-9	Sampling Point	Sampling point related to the sample	R	-	If CS-5 is checked, disable field for any additional rows added to the table List of all sampling points within facility selected in CS-8	-
CS-10	Sample ID	ID assigned to the sample that is part of the composite sample	R	Alpha- numeri c	-	-
CS-11	Sample Type	Type of the individual sample collected (e.g., routine)	R	List	List of values: Routine, Repeat, Triggered, Confirmation, Special, Batch Blanks, Field Blanks, Performance Evaluation, Shipping Blanks, Split Blanks, Maximum Residence Time, Matrix Spike	-
CS-12	Collection Date	Date on which sample was collected	R	Date MM/DD/ YYYY	-	-
CS-13	Collection Time	Exact time when the sample was collected	0	Time HH:M M (24)	When the Time is 00:00:00, the application does not populate the XML tags.	-
CS-14	Laboratory ID - Name	Laboratory that conducted the analysis	R	List	-	-

CS-15	Sampling Location	Text to determine the physical location where sample was taken	0	Text	-	-
CS-16	Sample Volume	Volume of the sample collected	0	Numeri c	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Results Information	Table to record results information		None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CS-17	Analyte	Contaminant subject to analysis	R	List [Code- Name]	List of values: List of all Chemical analytes (add parameters)	-
CS-18	Not Detected	Indicator for detection/non detection of contaminants	0	Checkbox	Checked: Not Detected Unchecked: Detected	-

CS- 19	Result	Measured	CR	Numeric 0	Disable CS-19 if CS-18 is	Required if
		value		to	Not Detected (Checked)	CS-18 'Not
				999999.9	Enable CS-19 if CS-18 is	Detected' is
				99999999	Not Detected (Unchecked).	Unchecked
				(6,9)	If enabled, CS-19 is	
					required and must be	
					greater than zero; it may not	
					be zero or less than zero.	
					A result is in bold red if it	
					exceeded the MCL or	
					MRDL or other established	
					level for the	
					analyte	
CS-20	Result	Unit of	CR	List	List of values: mg/L, ug/L	Required if
	UOM	measure			degree C LANG, mF/L	CS-18 'Not
					ng/L NTU, pH units	Detected' is
					umho/cm pCi/L TON,	Unchecked
					Color Units, Disabled if	
					CS-18 is Not Detected	
					(Checked)	
					Enable if CS-18 is Not	
					Detected (Unchecked).	
					If enabled, Result UOM	
				-	(CS-20) is required.	
CS- 21	Standard	Standard	0	Numeric	-	-
	Deviation	deviation		0 to		
	(+/-)	associated		9999999.		
		with the		99 (7,2)		
		analytical				
		method				

CS-22	Reporting Limit	The smallest measured concentration of a sub- stance that can be	0	Numeric 0 to 99999999. 999999999 9 (6,9)	-	-
		reliably measured by using a given analytical method				
CS-23	Reporting Limit UOM	Unit of measure	0	List	List of values: mg/L, ug/L degree C LANG, mF/L ng/L NTU, pH units umho/cm pCi/L TON, Color Units	-
CS-24	Volume Assayed (ML)	Portion of the volume that was subject to analysis	0	Numeric	-	-
CS-25	Method	Scientific method used for analysis	0	List	List of values: List of methods applicable to analyte selected in CS-17	-
CS-26	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YYYY	-	-
CS-27	Analysis Start Time	Time when analysis started	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-
CS-28	Analysis Complete d Date	Date when analysis was completed	0	Date MM/DD/ YYYY	-	-
CS-29	Analysis Complete d Time	Time when analysis was completed	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-
CS-30	Analyzing Lab ID	Laboratory that conducted the analysis	0	List	-	-
CS-31	Comment s	Additional comments	0	Text	-	-

6.12.7 Use "Set Default Values for Sample Information" in Microbiological and Chemicals/Radionuclides Screens

Users can set default values when entering multiple samples in the web forms. Setting default values for sample information prevents repetitive data entry by auto-populating the sample information fields for any additional samples you are reporting, with the same values that you selected for your initial sample results. Note, however, that the following fields have a default applied whether selected in this area or not:

• Sample Type is defaulted to 'Routine' unless you select 'Sample Type' in this area and the

sample type of the current sample is other than 'Routine'

- For a laboratory user, Laboratory ID Name is defaulted to your Working Organization.
- For a water system user, Water System ID and name are defaulted to your Working Organization.



- 1) Check the boxes for which data element values need to be carried over to the next sample to be entered. (Figure 55)
- 2) Enter information for the current sample as needed.
- 3) Click "Save and Add Another."
- 4) A new form will be displayed for the user to enter a new sample record. The application will autopopulate the default values established by the user in Step 1.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/ CR	Validations	Additional Designations
Set Default Values	These data elements allow users to set	0	-	-
for Sample	default values when entering multiple			
Information	samples			

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DV-1	Water System	Water system related to sample	0	Checkbox	-	-
DV-2	Facility	Facility related to sample	0	Checkbox	-	-

DV-3	Sampling Point ID	Sampling point related to sample	0	Checkbox	-	-
DV-4	Laboratory	Laboratory reporting the sample	0	Checkbox	-	-
DV-5	Collection Date	Date when sample was collected	0	Checkbox	-	-
DV-6	Collection Time	Time when sample was collected	0	Checkbox	When the Time is 00:00:00, the application does not populate the XML tags.	-
DV-7	Sample Type	Type of sample (e.g., Routine, Repeat)	0	Checkbox	-	-

6.12.8 Use "Set Default Values" for Sample Results Table (Microbiological)



Figure 56 - Set Default Values for Sample Results Table (Microbiological)

Users can set default values for sample results when entering a Microbiological sample. The results table will be auto populated with the values set. This will help users enter multiple results at once to avoid repetitive data entry actions.

- 1) Populate the fields with values to be added as a group to the results table. (Figure 56)
- 2) Click "Add To Grid."
- 3) The results table will be populated with the values entered in the set default values for the Sample Results Table section (step 1).
- 4) Click "Save and Add Another."
- 5) A new form will be displayed. The values entered in the previous sample will be carried over to the new sample. After entering additional information needed for the new sample (e.g., Sample ID), the user can click the "Add to Grid" to enter the previously selected default result(s) for the new sample.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with

Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.

- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/CR	Validations	Additional Designations
Set Default (Results)	-	-	None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
DV-8	Analyte	Contaminant subject to analysis	0	List [Code- Name]	List of values: List of all microbiological analytes	-
DV-9	A/P	Indicator for analyte presence or absence in the sample	0	List	List of values: Absent Present	-
DV-10	Count	Bacteria count in the sample	0	Numeric (15,5)	The total number of digits allowed is 15, with a maximum of 10 numbers to the left of the decimal and a maximum of 5 decimal places, i.e. 99999999999999999	-
DV-11	Units	Unit used to measure count	0	List	List of values: Colonies, Colony Forming Units Cysts, Calculated Cysts, Observed, Most Probable Number Observations, Oocysts, Calculated Oocysts, Observed Plaque Forming Units, Tubes	-
DV-12	Volume	Volume of the sample collected at the sampling point	0	Numeric	-	-
DV-13	Interference	Factors potentially interfering with analysis	0	List	List of values: Confluent Growth, Turbid Culture – no gas Too Numerous to Count	-
DV-14	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YYYY	-	-

DV-15	Analysis Start Time	Time when analysis started	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-
DV-16	Analysis Completed Date	Date when analysis ended	0	Date MM/DD/ YYYY	-	-
DV-17	Analysis Completed Time	Time when analysis ended	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-
DV-18	Volume Assayed	Volume that was used for analysis	0	Numeric	-	-

6.12.9 Use "Set Default Values" for Sample Results Table (Chemicals/Composites)

Users can set default values for sample results when entering a Chemicals/Radionuclides or a Composite sample. The results table will be auto-populated with the values entered into any of the fields shown in Figure 57. Setting default values will help users enter multiple results at once to avoid repetitive data entry actions.



Figure 58 - Set Default Values for Sample Results (Chem/Radionuclides)

- 1) Populate the fields to be added as a group to the results table. (Figure 58)
- 2) Click "Add To Grid."
- 3) The results table will be populated with the values entered in the set default values for sample results table section.

- 4) Click "Save and Add Another."
- 5) A new form will be displayed. The values entered in the previous sample web form will be carried forward to the new sample. After entering additional information needed for the new sample (e.g., Sample ID), the user can click the "Add to Grid" to enter the previously selected default result(s) for the new sample.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/ CR	Validations	Additional Designations
Set Default (Results)	Data elements that could be used multiple times in the results table	-	-	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
Code DV-19	Label Analyte Groups	-	O	Format List	Validations List of values: List will display Analyte Group Code and Analyte Group Name as follow: ASB-NPDWR –, Asbestos Rule DDBP-NPDWR –, Disinfectants and Disinfection Byproducts Rules, IOC-NPDWR –, Inorganic Contaminants Rule, LCR-NPDWR –, Inorganic Contaminants Rule, LCR-NPDWR –, NO2-NPDWR – Nitrate Rule, NO2-NPDWR – Nitrite Rule, RADR-NPDWR –, Revised Radionuclides Rule, SOC-NPDWR –, Synthetic Organic	-
	1			1	Contaminants Rule .VOC-	

					NPDWR – Volatile Organic Contaminants Rule	
DV-20	Analyte	Contaminant subject to analysis	0	List	List of values: List of all Chemicals/radionuclides analytes List of all analytes included in Analyte Group selected in DV-19 Refer to Analytes List	-
DV-21	Method	Analytical method used by the laboratory	0	List	List of all methods	-
DV-22	Not Detected	Indicator for detection/ non detection of contaminants	0	Checkbox	Checked: Not Detected Unchecked: Detected	-
DV-23	Volume Assayed	Volume of the sample analyzed by the lab	0	Number		-
DV-24	Result	Measured value	0	Numeric 0 99999.9999 (4,4)	-	-
DV-25	Result UOM	Unit of measure	0	List	List of values: mg/L, ug/L degree C LANG, mF/L ng/L NTU, pH units umho/cm pCi/L TON, Color Units	-
DV-26	Reporting Limit	The smallest con- centration (or amount) of analyte, that can be reported by the lab	0	Numeric 0- 9999999.99 (7,2)	-	-
DV-27	Reporting Limit UOM	Unit of measure	0	List	List of values: mg/L, ug/L degree C LANG, mF/L ng/L NTU, pH units umho/cm pCi/L TON, Color Units	-
DV-28	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YYYY	DV-28 must be less than or equal to DV30	-
DV-29	Analysis Start Time	Time when analysis started	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-

DV-30	Analysis Completed Date	Date when analysis was completed	0	Date MM/DD/Y YYY	DV-30 must be greater than or equal to DV-28	-
DV-31	Analysis Completed Time	Time when analysis was completed	0	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	-
DV-32	Analyzing laboratory	Laboratory that conducted the sample analysis	0	List	List of all laboratories within the Primacy Agency	-

me PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration b Maintenance View Job Summary View - 1098 🐹 ample Result Operational Data Job History Validations Attachments Composite Samples								
🧞 Refresh 🛛 Add 🔻 👗 Remove								
Operational Sample Type	WS ID	WS Name	Facility Name	Reporting Period Month(s)	Reporting Period Year			
Turbidity IFE	X1TPWS002	Test PWS X1	TestX1TreatFac001	Oct	2016			
Chlorine Dioxide and Chlorite	X1TPWS002	Test PWS X1	TestX1TreatFac001	Oct	2016			
Ozone Treatment (Bromate)	X1TPWS002	Test PWS X1	TestX1TreatFac001	Mar	2016			
Chlorine and Chloramines Entering DS	X1TPWS002	Test PWS X1	TestX1TreatFac001	Mar	2016			
Chlorine and Chloramines in DS	X1TPWS002	Test PWS X1	TestX1TreatFac001	Mar	2016			
TTHM and HAA5	X1TPWS002	Test PWS X1	TestX1TreatFac001	Q1-Jan-Mar	2016			
Total Organic Carbon	X1TPWS002	Test PWS X1	TestX1TreatFac001	Q3-Jul-Sep	2016			

Figure 59 - Operational Sample Types Table

6.12.10 Access the Operational Sample Types Table

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Click on the "**Operational Data**" tab to view, add, or edit operational data results for an existing Sample Job. (**Error! Reference source not found.**)

6.12.11 Add Operational Sample Types to a Job

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "**Operational Data**" tab, click "**Add**," and then select one of the options from the dropdown menu. (Figure 60)

O afread A	dd 📼 😾 Damaur				
Operatic		WS Name	Facility Name	Reporting Period Month(s)	Reporting Period Year
Turbidity	Turbidity CPE	Test PWS X1	TestX1TreatFac001	Oct	2016
Chlorine	Turbidity IFE	Test PWS X1	TestX1TreatFac001	Oct	2016
Ozone T	Chlorine Dioxide and Chlorite	Test PWS X1	TestX1TreatFac001	Mar	2016
Chlorine Entering	Chlorine and Chloramines Entering DS	Test PWS X1	TestX1TreatFac001	Mar	2016
Chlorine	Chlorine and Chloramines in DS	Test PWS X1	TestX1TreatFac001	Mar	2016
TTHM ar	LCR WQP	Test PWS X1	TestX1TreatFac001	Q1-Jan-Mar	2016
Total Org	Total Organic Carbon	Test PWS X1	TestX1TreatFac001	Q3-Jul-Sep	2016

Figure 60 - Operational Sample Types List

- 4) Enter values in the operational data fields. All fields marked with an asterisk (*) are required. Note that the fields vary depending on which option was selected from the dropdown menu.
- 5) Click "Save" to add the operational data to the Drinking Water Sample Job.
- 6) Click "Close" to return to the Operational Data tab.

CFE									<mark>- 8</mark> ×	
1	Save 🙆 Close				* - Requi	ired + - Conditionally	Required f - Federall	y Required f - Federal	y Conditionally Required	
Ope	Operational Data - Turbidity CFE									
Wat CT	Water System ': Water System Name Facility ': Reporting Period': Monthly Hours Of Operation CT Image: CT Image: CT Image: CT Image: CT Image: CT									
Tur	Turbidity Measurements									
Tota	Total required Total taken 'f: Total <= 95th percentile limit 'f: Percentage									
Has	Has any measurement exceeded maximum turbidity limit? No									
LT2	Toolbox Reporting									
Was	s the CFE turbidity <= 0.	15 NTU in at least 95%	of the measurements of	the month? / Not Repo	rting for LT2 💌					
	Daily CFE Turbidity - Grab	Samples or Continuous	Monitoring							
	dd 🖓		1			0.10		0.5		
	Day	Total Hours Filtering (in Operation)*	Maximum Turbidity *	Minimum Turbidity	Average Turbidity	Total Number of Results	# of Results Exceeding Max NTU	Total Hours Results Were Recorded	Total Hours Results Exceed Max NTU	
					No items to show.					
\bigtriangledown	Daily CFE Turbidity - 4-hou	ur readings								
	dd 🔂									
	Day	12:00 AM or 1st Reading	4:00 AM or 2nd Reading	8:00 AM or 3rd Reading	12:00 PM or 4th Reading	4:00 PM or 5th Reading	8:00 PM or 6th Reading	Raw Turbidity(once per day)	Hours Of Operation	
					No items to show.					
	1					~				

Figure 61 - Turbidity CFE

6.12.12 Add Combined Filter Effluent Turbidity Sample Type to a Job

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under **"Sample Result"** tab, Click **"Add"** then select **Turbidity CFE** from the dropdown list. (Figure 60)
- 4) Enter metadata information for Turbidity CFE. All fields marked with an asterisk (*) are required. (Figure 61)



Figure 62 - Measurements Exceeding Turbidity Limit

- 5) If answer to "Has any measurement exceeded maximum turbidity limit?" is "**Yes**," the user can populate the Measurements Exceeding Turbidity Limit table, which will be displayed on the form. (Figure 62)
- 6) In the "**Grab Samples or Continuous Monitoring**" table, click "**Add**" to add daily measurements. All fields marked with an asterisk (*) are required. (Figure 61)
- 7) In the "**4-Hour Readings**" table, click "Add" to add measurements collected/recorded every 4 hours if needed.
- 8) Click "Save" to add the sample type to the Drinking Water Sample Job.

Note:

- When a CFE record is saved, users will not be able to modify the reporting period.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.

If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/ O/ CR	Validations	Additional Designations
Turbidity CFE Sample Header	Elements to identify the Turbidity CFE record	-	None	-

			R/O			Additional
Code	Label	Description	/CR	Format	Validations	Designations
CFE-1	Water System ID	Water system related to the sample	R	List [ID– Name]	List of Values: water systems within the Primacy Agency, Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-
CFE-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/ A	Disabled Field	Disabled field Field auto-populated according to selection made in CFE-1	-
CFE-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in CFE-1	-
CFE-4	Reporting Period – Month	Month of the calendar year	R	List	List of values: January to December CFE-4 and CFE-5 cannot be in the future Disabled when record is saved	-
CFE-5	Reporting Period Year	Year	R	-	List values: 2013 to current year CFE-4 and CFE-5 cannot be in the future Disabled when record is saved	-
CFE-8	Monthly Hours of Operations	Total number of hours the facility is operating during the month	0	Numeric 0 to 99999 (5,0)	None	-

Group	Description	R/O/CR	Validations	Additional Designations
Turbidity Measurements			None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CFE-9	Total Required	Total Number of CFE Turbidity measurements required	0	Numeric 0 to 99999 (5,0)	None	-
CFE-10	Total Taken	Total number of	R	Numeric	None	Federally

		CFE Turbidity measurements taken during the month		0 to 99999 (5,0)		conditionally required
CFE-11	Total <= 95th percentile limit	Total number of CFE Turbidity measurements taken during the month <= IESWTR_LT 95% levels (0.3 NTU or by filtration type)	R	Numeric 0 to 99999 (5,0)	CFE-11 must be less than or equal to CFE-10	Federally conditionally required
CFE-12	Percentage	Percent of CFE Turbidity measurements taken during the month <= IESWTR_LT 95% level (0.3 NTU or by filtration type)	-	Numeric 0.00 to 999.99 (5,2)	Calculated [CFE-11/CFE- 10]x100	Federally conditionally required
CFE-6	Has any measurement exceeded maximum turbidity limit?	If yes, further elements need to be reported; please refer to CFE-13 through 16	0	List	List of values: Yes No	-
CFE-7	Was the CFE Turbidity <=0.15 NTU in at least 95% of the measurement for the month?	An LT2 toolbox credit-related question for PWS to answer for state primacy agency review and approval	0	List	List of values: Yes No - Not reporting for LT2 -If using the LT2 toolbox option, this field needs a value, but it is optional otherwise; it is federally conditionally required in that situation	Federally conditionally required

Group	Description	R/O/ CR	Validations	Additional Designations
Measurements exceeding the maximum turbidity limit	-	-	If the answer to CFE-6 is "YES," utilities must report the date and value of <at least="" one=""> turbidity measurements taken during the month that exceed 1 NTU or the maximum level set by the State</at>	Federally conditionally required

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CFE- 13	Date	Date the turbidity measurement that exceeded maximum limit	R	Date MM/DD/Y YYY	CFE-13 must be within CFE-4 and CFE-5 (reporting period)	Federally conditionall y required

CFE- 14	Turbidity (NTU)	Measured turbidity of the exceedance in Nephelometric Turbidity Units (NTU)	R	Numeric 0 to 99.999 (5,3)	None	Federally conditionall y required
CFE- 15	Time (HH:MM 24H)	Time the turbidity exceedance measurement was taken	0	Time HH:MM (24h)	None	-
CFE- 16	Duration (0.1 hr)	Duration of the exceedance	0	Numeric - 0 to 999.99 (5,2)	None	-

Group	Description	R/O/CR	Validations	Additional Designations
Daily CFE Turbidity – Grab	Used for reporting daily	-	None	-
Samples or Continuous	results of continuous			
Monitoring	monitoring or grab samples			

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
CFE-17	Total Hours Filtering (in Operation)	Total number of hours (up to 24) that the water system was operating	0	Numeric 0 to 999.99 (5,2)	None	-
CFE-18	Maximum Turbidity	Highest daily turbidity reading	0	Numeric 0 to 99.999 (5,3)	None	-
CFE-19	Minimum Turbidity	Lowest daily turbidity reading	0	Numeric 0 to 99.999 (5,3)	None	-
CFE-20	Average Turbidity	Average of daily turbidity readings	0	Numeric 0 to 99.999 (5,3)	None	-
CFE-21	Grab Sample Reports – Total Number of Results	Total readings in grab sample	0	Numeric 0 to 99999 (5,0)	None	-
CFE-22	Grab Sample Reports - # of Results Exceeding Max NTU	Number of grab sample results exceeding maximum NTU established by state	0	Numeric 0 to 99999 (5,0)	None	-
CFE-23	Continuous Monitoring Report – Total Hours Results Were Recorded	Total number of hours per day (up to 24) that the water system was continuously recording turbidity levels	0	Numeric 0 to 999.99 (5,2)	None	-
CFE-24	Continuous Monitoring Report – Total Hours Results Over Max NTU	Total number of hours during continuous monitoring in which the maximum NTU was exceeded	0	Numeric 0 to 999.99 (5,2)	None	-
Group	Description	R/O/CR	Validations	Additional Designations		
---------------	---	--------	-------------	-------------------------		
Daily CFE – 4	Used for reporting daily results of up to 6	-	None	-		
HR Readings	four- hour turbidity measurements					

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
	12:00 AM or 1 st Reading	First of 6 daily 4- hour readings	0	Numeric 99.999 (5,3)	None	-
	4:00 AM or 2 nd Reading	Second of 6 daily 4-hour readings	0	Numeric 99.999 (5,3)	None	-
	8:00 AM or 3 rd Reading	Third of 6 daily 4- hour reading	0	Numeric 99.999 (5,3)	None	-
	12:00 PM or 4 th Reading	Fourth of 6 daily 4-hour readings	0	Numeric 99.999 (5,3)	None	-
	4:00 PM or 5 th Reading	Fifth of 6 daily 4- hour readings	0	Numeric	None	-
	8:00 PM or 6 th Reading	Sixth of 6 daily 4- hour readings	0	Numeric 99.999 (5,3)	None	-
	Raw Turbidity (once per day)	Daily Measured Turbidity value, before treatment	0	Numeric 99.999 (5,3)	None	-
	Hours of Operation	Total number of hours each day that the water system was in operation	0	Numeric 999.99 (5,2)	None	-

IFE				- - - -
Save 🔇 Close	* - Required	+ - Conditionally Required	f - Federally Required	f - Federally Conditionally Required
Operational Data - Individual Filter Effluent Events(IFE)				^
Water System * : Water System Name Facility * : CT Combined Population Served than Orac facility of the faci	Reporting Period [®] :			
Did you monitor each individual filter effluent continuously and record measurements at least systems with two filters)? ¹ :	every 15 minutes (or combined filter effluent for			
If IFE continuous monitoring was interrupted , was continuous monitoring restored in 14 days or few Agency for required additional data.*	/er (Y/N)?If No, please contact your State or Prima	cy 🗸		
Did your system conduct grab sampling or manual recording every 4 hours while continuous monit	oring equipment was offline?*	•		
Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes a follow-up action status (report cause if known)*:	part?If yes complete the table and indicate requ	ired 🔽		
IIIE Event (1906 A) Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes a If ves complete the table and indicate required followup action status(i.e. Individual Filter Self-6	part at any time in each of three consecutive messessment - IFSA)* :	onths?		
IFE Event Type B) Did over individual filter exceed 2.0 NTU in two concentrative measurements taken 45 minutes a	nort at any time in each of two conceptities more	the 2 If		
yes complete the table and indicate required followup action status(i.e. Comprehensive Perfor IFE Event Type C)	mance Evaluation - CPE)*:			
LT2 Toolbox Reporting				
Are you seeking credit for using toolbox option for IFE performance?	~			
Was IFE turbidity <= 0.15 NTU in at least 95% of the measurements for the month at each filter? */	▼			
Was IFE turbidity > 0.3 NTU in two consecutive readings 15 minutes apart during the month at any filter ? $^{\ast f}$	•			

Figure 63 - Turbidity IFE

6.12.13 Add Turbidity Individual Filter Effluent Events Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "**Operational Data**" tab, click "**Add**," then select "**Turbidity IFE**" from the dropdown list. (Figure 60)
- 4) Enter metadata information for Turbidity IFE. All fields marked with an asterisk (*) are required. (Figure 63)

Iudi Event	Date */	24H)	Turbidity */
Noitomat	to chow		

Figure 64 - Individual Filters Exceeding Trigger

5) If the answer to any of the Event Type Questions (Event A, Event B, Event C) is "**Yes**," users can populate the Individual Filters exceeding Trigger table. (Figure 64)

🗐 Save 🔕 Close					* - Required	+ - Condition	ally Required	f - Federally Req	uired f - Fe
Operational Data - Indi	vidual Filt	er <mark>Effluent</mark> E	Events(IFE)						
Water System* :	Water Syste	m Name	Facility*:		Reporting F	Period* :	-		
Combined Population Served	Less Othan 10,000	Greater or Equal to 10,000					9		
Did you monitor each individe filters)? * :	ual filter efflu	ent continuous	ly and record measure	ements at least e	very 15 minutes (or co	mbined filter effluent	for systems w	ith two	•
If IFE continuous monitoring v required additional data.*	vas interrupte	d, was continu	ous monitoring restore	d in 5 working day	s or fewer?If No, please	e contact your State or	Primacy Agend	sy for	•
Did your system conduct grab	sampling or	manual record	ing every 4 hours while	continuous monit	oring equipment was o	ffline?*			•
Did any individual filter excee	ed 1.0 NTU in	two consecutiv	e measurements take	en 15 minutes ap	art?lf yes, complete the	e table and indicate r	equired follow-	up	H
action status (i.e. filter profile [IFE Event Type A]	e). [IFE Event	Type A] *f :							▼
Did any individual filter excee the filter has been backwas!	ed 0.5 NTU in ned, or other	two consecutiv wise taken offli	ve measurements take ne? If yes, complete th	en 15 minutes ap le table and indic	art at the end of the firs ate required follow-up a	action status(i.e. filte	nuous operatio r profile). [IFE E	n after vent	•
Type B] * : [IFE Event Type B]									H
Did any individual filter excee complete the table and indice [IFE Event Type C]	ed 1.0 NTU in ate required	two consecutiv follow-up actio	ve measurements take n status(i.e. Individual	en 15 minutes ap Filter Self-Assess	art at any time in each sment - IFSA).[IFE Event	of three consecutive Type C] * :	months? If yes	3,	
Did any individual filter excee complete the table and indice [IFE Event Type D]	ed 2.0 NTU in ate required	two consecution follow-up action	ve measurements take n status(i.e. Comprehe	en 15 minutes ap ensive Performan	art at any time in each ce Evaluation - CPE). [II	of two consecutive n FE Event Type D] * :	nonths? If yes		▼

Figure 65 - Turbidity IFE (Population 10,000 or greater)

6) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 61)

Notes:

- If the water system is serving 10,000 people or more, the IFE web form will be updated accordingly by adding an additional IFE Event D (Figure 65), and users can follow the same steps described above to add the sample type to the Job.
- *A brief description of the event type (e.g., event type A) is available if users click the hyperlink included in the event-related question.* (Figure 66).
- When an IFE record is saved, users will not be able to modify the reporting period.



Figure 66 - Event Type A Description

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/CR	Validations	Additional Designations
Turbidity IFE Sample Header	-	-	None	-

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
IF0-1	Water System ID	Water system related to the sample	R	List [ID - Name]	List of Values: Water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field	-

IF0-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer	-	Disabled Field	Disabled field Field auto-populated according to selection made in IF0-1	-
		to the water system				
IF0-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in CFE-1	-
IF0-4	Reporting Period – Month	Month of the calendar year	R	List	List of values: January to December Reporting period cannot be in the future Disabled when record is saved	-
IF0-5	Reporting Period Year	Year	R	List	List values: 2013 to current year Reporting period cannot be in the future Disabled when record is saved	-
IF0-6	Combined Population Served	Population served by the water system	R	Radio button	Two options: Less than 10,000 Greater than or equal to 10,000	-

Group	Description	R/O /CR	Validations	Additional Designations
Turbidity IFE – Questions (<10,000)	Questions about Turbidity IFE applicable to water systems serving a population less than 10,000		Display questions if IF0- 6 is less than 10,000	-

Code	Label	Description	R/O/C R	Form at	Validations	Additional Designations
IF0-9	Q1	See below	R	List	List of values Yes No	Federally required
IF0-10	Q2	See below	CR	List	List of values Yes No N/A Disable IF0-10 if IF0-9 is Yes Required if IF0-9 is No	Federally conditionally required
IF0-11	Q3	See below	CR	List	List of values Yes No Disable IF0-11 if IF0-9 is Yes Required if IF0-9 is No	Federally conditionally required
IF0-12	Q4	See below	R	List	List of values Yes No If IF0-12 is yes, IF0-9 must be yes	Federally required
IF0-13	Q5	See below	R	List	List of values Yes No If IF0-13 is yes, IF0-9 must be yes	Federally required
IF0-14	Q6	See below	R	List	List of values Yes No If IF0- 14 is yes, IF0-9 must be yes	Federally required

- Q1: Did you monitor each individual filter effluent continuously and record measurements at least every 15 minutes (or combined filter effluent for systems with two filters)?
- Q2: If IFE continuous monitoring was interrupted was continuous monitoring restored in 14 days or fewer (Y/N)? If No, please contact your State or Primacy Agency for required additional data.
- Q3: Did your system conduct grab sampling or manual recording every 4 hours while continuous monitoring equipment was offline?
- Q4: Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes apart? If yes complete the table and indicate required follow-up action status (report cause if known). [IFE Event Type 'A']
- Q5: Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of three consecutive months? If yes complete the table and indicate required follow-up action status (i.e. Individual Filter Self-Assessment IFSA). [IFE Event Type 'B']
- Q6: Did any individual filter exceed 2.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of two consecutive months? If yes complete the table and indicate required follow-up action status (i.e. Comprehensive Performance Evaluation CPE). [IFE Event Type 'C']

Group	Description	R/O/ CR	Validations	Additional Designations
Turbidity IFE	Questions about Turbidity IFE applicable	-	Display questions if	-
Questions -	to water systems serving a population		IF0-6 is greater than	
>10,000	greater than or equal to 10,000		or equal to 10,000	

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
IF1-9	Q1	See below	R	List	List of values: Yes No	Federally required
IF1-10	Q2	See below	CR	List	List of values: Yes No Disable IF1-10 if IF1-9 is Yes Required if IF1-9 is No	Federally conditionally required
IF1-11	Q3	See below	CR	List	List of values: Yes No Disable IF1-10 if IF1-9 is Yes Required if IF1-9 is No	Federally conditionally required
IF1-12	Q4	See below	R	List	List of values: Yes No If IF1-12 is Yes, IF1-9 must be Yes	Federally required
IF1-13	Q5	See below	R	List	List of values: Yes No If IF1-13 is Yes, IF1-9 must be Yes	Federally required
IF1-14	Q6	See below	R	List	List of values: Yes No If IF1-14 is Yes, IF1-9 must be Yes	Federally required
IF1-15	Q7	See below	R	List	List of values: Yes No If IF1-15 is Yes, IF1-9 must be Yes	Federally required

- Q1: Did you monitor each individual filter effluent continuously and record measurements at least every 15 minutes (or combined filter effluent for systems with two filters)?
- Q2: If IFE continuous monitoring was interrupted, was continuous monitoring restored in 5 working days or fewer? If No, please contact your State or Primacy Agency for required additional data.
- Q3: Did your system conduct grab sampling or manual recording every 4 hours while continuous monitoring equipment was offline?
- Q4: Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes apart? If yes, complete the table and indicate required follow-up action status (i.e. filter profile). [IFE Event Type 'A']
- Q5: Did any individual filter exceed 0.5 NTU in two consecutive measurements taken 15 minutes apart at the end of the first four hours of continuous operation after the filter has been backwashed, or otherwise taken offline? If yes, complete the table and indicate required follow-up action status (i.e. filter profile). [IFE Event Type 'B']
- Q6: Did any individual filter exceed 1.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of three consecutive months? If yes, complete the table and indicate required follow-up action status (i.e. Individual Filter Self-Assessment IFSA). [IFE Event Type 'C']
- Q7: Did any individual filter exceed 2.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of two consecutive months? If yes complete the table and indicate required follow-up action status (i.e. Comprehensive Performance Evaluation CPE). [IFE Event Type 'D']

Group	Description	R/O/CR	Validations	Additional Designations
Additional Questions	-	-	All required fields must be populated for record to be saved	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
IF0-15	Are you seeking credit for using toolbox option for IFE performance?	An LT2 toolbox credit-related question for PWS to answer for state primacy agency review and approval	0	List	List of values: Yes No	-
IF0-16	Was IFE turbidity <=0.15 NTU in at least 95% of the measurements for the month in each filter?	An LT2 toolbox credit-related question for PWS to answer for state primacy agency review and approval	CR	List	List of values: Yes No Required if IF0- 15 is Yes (Federally required if IF0- 15 is Yes)	Federally conditionally required

IF0-17	Was IFE turbidity >0.3 NTU in two consecutive readings 15 minutes apart during the month at any filter?	An LT2 toolbox credit-related question for PWS to answer for state primacy agency review and approval	CR	List	List of values: Yes No Required if IF0- 15 is Yes (Federally required if IF0- 15 is Yes)	Federally conditionally required
--------	---	--	----	------	--	--

Group	Description	R/O/ CR	Validations	Additional Designations
Individual Filter Effluent (IFE) Event Type (IFE A, B,	-	-	All required fields must be populated for record to be saved	-

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
IF0- 18	Filter Number	Number of the individual filter where the IFE event occurred	R	Alpha- numeric	Federally required if: IF0-12 is Yes IF0-13 is Yes IF0-14 is Yes IF1-12 is Yes IF1-13 is Yes IF1-14 is Yes IF1-15 is Yes	Federally conditionally required
IF0- 19	Individual Event	IFE event type A-D	R	List	List of values: A B C D (If IF0-6 is greater than or equal to 10,000)	-
IF0- 20	Date	Date of the event type A- D	R	Date MM/DD/ YYYY	IF0-19 must be within the reporting period Federally required if: IF0-12 is Yes or IF0-13 is Yes or IF0-14 is Yes or IF1-12 is Yes or IF1- 13 is Yes or IF1-14 is Yes or IF1-15 is Yes	Federally conditionally required
IF0- 21	Time (HH:MM 24H)	Time of the event type A- D	0	HH:MM (24h)	-	-
IF0-22	Turbidity	Value of turbidity measure-ment, in NTU, associated with the event type A- D	Ř	Numeric 0 to 99.999 (5,3)	Federally conditionally required if: IF0-12 is Yes or IF0-13 is Yes or IF0-14 is Yes or IF1-12 is Yes or IF1-13 is Yes or IF1-14 is Yes or IF1-15 is Yes	Federally conditionally required

6.12.14 Add Chlorine Dioxide and Chlorite Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.

- 3) Under the "**Operational Data**" tab, click "**Add**," and then select "**Chlorine Dioxide and Chlorite**" from the dropdown list. (Figure 60)
- 4) Enter metadata information for Chlorine Dioxide and Chlorite. All fields marked with an asterisk (*) are required. (Figure 67)

Chlor	ine Dioxide	and Chlorite														😑 🖻 🛢
Si	ave 🙆 C	lose							* - Re	quired	+ - Conditionally	Required f	- Federally R	Required f-	Federally Cond	litionally Required
Ope	rational E	Data - Chlor	ine Dioxide a	and Chlorite												
Wate	r System '	: Wa	ater System Nar	me Facilit	ty*:	Samplin	g Point "1:	Reporting	Period :	Sam	nple ID [*] :	Reporting	Laboratory ID			
CT																
Also	Reporting f	or CT Values f	or I T2ESWTR (Toolbox reporti	na requiremen	ts)2 No		~								
Chi	orino Diovi	do No Roost	or Chlorination	Chlorino D	iovido Doosta	Chlorination	Chlorita									
Nue	shor of Day	ue - No Doost	ine	Childrine D	IOXIGE - DOUSIG	er Chiormation	Chionie									^
Dio	xide was us	sed	ine													
-	Add															
		Chlorine Dio>	ide - No Booste	er Chlorination	Triggered Ch	lorine Dioxide (Distribution	Violation	Follow-u	p Actions		Ľ	T2 Inactivation	Toolbox Repor	ting	
Daj	y	Result at POE(mg/L) ^{•f}	MRDL exceeded(0.8 mg/L)? *f	If yes,were two consecutive samples exceeded?*f	1st Sample@ First Customer(mg	2nd Sample @ 1st Customer (mg/L) + 6 hours ^{+/}	3rd Sample @ 1st Customer(mg 12 hours*/	Violation Type?*/	Notify State?	Notify Public?	Temperature*	Concentration	Contact Time*/	CT Value ^{+∱}	Ratio Achieved? +	Was TT requirement met for toolbox credit (Y/N)? +
								No item	is to show.							

Figure 67 - Chlorine Dioxide and Chlorite

- 5) If no booster chlorination is used, use the first tab "Chlorine Dioxide No Booster Chlorination." If booster chlorination is used, use the second tab "Chlorine Dioxide – Booster Chlorination."
- 6) The "Chlorite" tab can be used to report daily measures for Chlorite. (Figure 68)

nlorine Dioxide ar	nd Chlorite								
Save 🙆 Clos	e				* - Required	+ - Conditionally Re	quired f - Federally	Required f - Feo	derally Conditionally Req
perational Dat	a - Chlorine Dioxide and	Chlorite							
later System * : T Iso Reporting for (Chlorine Dioxide Total number of S	Water System Name	Facility *:	Sampling Po ents)? No ster Chlorination	int ¹ : Reporting Pe	riod" : Si	ample ID* :	Reporting Laboratory II	D LABORATORY SE	•
otar number of c		of the Productions in	of the month?		ruge (D'S S-Sumple			-	
👍 Add									
-	Chlori	ite		Routine Monthly or Trigger	ed Daily Chlorite Dis	stribution Sample Result	3	Folio	ow-up Actions
Day	Routine Result at POE (mg/L) [*] f	ACL Exceeded? (1.0 ng/L)? ^{*f}	1st Sample @ 1st Customer (mg/L) ^f	2nd Sample @ Avg. 3 Residence Time R Location (mg/l) f L	d Sample @ Max. esidence Time ocation (mg/l) ^f	Avg. of 3 Sample Set f	Avg. exceeded MCL? (1.0 mg/L) ^f	Notify State?	Notify Public?
				No items to	show.				
			Figu	re 68 - Chlorite	e Data Ent	rv Screen			

7) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 61)

Notes:

- When a Chlorine Dioxide/Chlorite web form is saved, users will not be able to modify the reporting period.
- Chlorine Dioxide/Chlorite web forms utilize monthly reporting periods. Submitters should report one monthly web form for each quarterly reporting period to meet the federal chlorite reporting requirements per 40 CFR §141.134.

-

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/CR	Validations	Additional Designations
Chlorine Dioxide and Chlorite Sample Header	-	-	None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
CLC-1	Water System ID	Water system related to the sample	R	List [ID –Name]	List of Values: water systems within the Primacy Agency Display ID and Name in List, Primacy Agency Code added by default to the WS ID field.	-
CLC-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	-	Disabled Field	Disabled field Field auto- populated according to selection made in CLC-1	-
CLC-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in CLC-1	-
CLC-3	Sampling Point	Sampling Point related to the record	R	List	List of values: List of all sampling points within the facility selected in CLC-2	Federally required

CLC-4.0	Sample ID	ID number for the Chlorine Dioxide or Chlorite sample	R	Alpha- numeric		Please enter any value; data element will not be used for compliance determination
CLC-5	Reporting Period – Month	Month of the calendar year	R	List	List of values: January to December Reporting period cannot be in the future Disabled when record is saved	-
CLC-6	Reporting Period Year	Year	R	List	List values: 2013 to current year Reporting period cannot be in the future Disabled when record is saved	-
CLC-7	Reporting for CT Values for LT2ESWTR Toolbox Reporting requirements	An LT2 toolbox credit related for PWS to answer for state primacy agency review and add approval	0	List	List of values: Yes No	-
CLC-7.1	Reporting Laboratory	Name of analytical laboratory performed analysis of any sample results for Chlorine Dioxide & is reporting the results to the state primacy agency	R	List	List of values: List of laboratories associated with the user account	

Group	Description	R/O/CR	Validations	Additional Designations
Chlorine Dioxide – No Booster Chlorination	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CLC-8	Number of Days where Chlorine Dioxide was used	Number of days during the month on which Chlorine Dioxide was used to disinfect water	0	Numeric 0 to 99999 (5,0)	None	-

CLC-9	Result at POE (ma/L)	Value of sample	R	Numeric 0 to	Display result in hold red if MCI	Federally
	(mg/L)	Entry (POE) to the distribution		99.999 (5,3)	(0.8mg/L) is exceeded.	requireu
CLC-10	MRDL exceeded (0.8 mg/L)	Whether the value of the sample exceed the MRDL	R	List	List of values: Yes No Default value to Yes and disabled if CLC- 9 > MCL.	Federally required
CLC-11	If yes, were two consecutive samples exceeded?	Whether two consecutive samples taken at the POE exceeded the MRDL	CR	List	List of values: Yes No Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-12	1 st Sample @First Customer (mg/L)	First triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-13	$2^{nd} Sample @1st Customer (mg/L) + 6 hours$	Second triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-14	3^{rd} Sample @1 st Customer (mg/L) + 12 hours	Third triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-15	Violation Types- Acute Violation?	Whether the MRDL violation was Acute	CR	List	List of values: Yes No Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-16	Violation Types- NonAcute Violation	Whether the MRDL violation was NonAcute	CR	List	List of values: Yes No Required if CLC-10 is Yes (Federally required if CLC- 10 is Yes)	Federally conditionally required
CLC-17	Notify State?	Whether the PWS notified the state about the MRDL violation.	0	List	List of values: Yes No	-
CLC-18	Notify Public?	Whether the PWS notified the public about the MRDL violation	0	List	List of values: Yes No	-
CLC-19	Temperature	Water	CR	Numeric	Required if	Federally

CLC-20	Concentration	temperature for CT calculation Concentration of chlorine dioxide for CT calculation	CR	Numeric	CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes) Required if CLC-7 is Yes (Federally conditionally	conditionally required Federally conditionally required
CLC-21	Contact Time	expressed in mg/L. Time (T, in minutes) concentration is measured for CT calculation	CR	Numeric	required if CLC- 7 is Yes) Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-22	CT Value	Value from table 2.1 in 40 CFR 141 Subpart H. Cryptosporidium inactivation by Chlorine Dioxide and Ozone	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-23	Ratio Achieved	Ratio: of (Product of CLC-21 and CLC 20) to CLC- 22, or calculated CT divided by the CT table value from CLC-22	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	-
CLC-24	Was TT requirement met for toolbox credit (Y/N)?	An LT2 toolbox credit-related question for PWS to answer; for state primacy agency review and approval based on reported chlorine dioxide reporting	CR	List	List of values: Yes No Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	-

Group	Description	R/O/CR	Validations	Additional Designations
Chlorine Dioxide – Booster Chlorination	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CLC-25	Number of Days where Chlorine Dioxide was used	Number of days in the month in which Chlorine Dioxide was used as a disinfectant	0	Numeric 0 to 99999 (5,0)	None	-
CLC-26	Result at POE (mg/L)	Value of the measurement at the Point of Entry (POE) to the distribution system	R	Numeric 0 to 99.999 (5,3)	Display result in bold red if MCL (0.8mg/L) is exceeded.	Federally required
CLC-27	MRDL exceeded (0.8 mg/L)	Whether the value of CLC-26 exceeds the MRDL of 0.8 mg/L	R	List	List of values: Yes N0 Default value to Yes and disabled if CLC- 26 is greater than MCL.	Federally required

CLC-28	If yes, were two consecutive samples exceeded?	Whether two consecutive samples taken at the POE exceeded the MRDL	CR	List	List of values: Yes No Required if CLC-27 is Yes (Federally required if CLC- 27 is Yes)	Federally conditionally required
CLC-29	1 st Sample @First Customer (mg/L)	First triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-27 is Yes (Federally required if CLC- 27 is Yes)	Federally conditionally required
CLC-30	2 nd Sample @1 st Customer (mg/L) + 6 hours	Second triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-27 is Yes (Federally required if CLC- 27 is Yes)	Federally conditionally required
CLC-31	3 rd Sample @1 st Customer (mg/L) + 12 hours	Third triggered Chlorine Dioxide distribution sample	CR	Numeric 0 to 99.999 (5,3)	Required if CLC-27 is Yes (Federally required if CLC- 27 is Yes)	Federally conditionally required
CLC-33	Violation Type	Whether the MRDL violation was acute, non- acute	CR	List	List of values: Yes No No Violation Required if CLC-27 is Yes (Federally required if CLC- 27 is Yes)	Federally conditionally required
CLC-34	Notify State?	Whether the PWS notified the state about the MRDL violation	0	List	List of values: Yes No	-
CLC- 35	Notify	Whether the PWS	0	List	List of values:	-

	Public?	notified the public about the MRDL violation			Yes No	
CLC-36	Temperature	Water temperature for CT calculation for inactivation using chlorine dioxide	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-37	Concentration	Concentration of chlorine dioxide for CT calculation, expressed in mg/L	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-38	Contact Time	Time (T, in minutes) concentration is measured for CT calculation	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-39	CT Value	Value from table 2.1 in 40 CFR 141 Subpart H. Cryptosporidium inactivation by Chlorine Dioxide and Ozone	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	Federally conditionally required
CLC-40.1	Ratio Achieved	Ratio of (Product of CLC-21 and CLC 20) to CLC- 22, or calculated CT divided by the CT table value from the EPA regulation	CR	Numeric	Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	-
CLC-41.1	Was TT requirement met for toolbox credit (Y/N)?	An LT2 toolbox credit-related question for PWS to answer; for state primacy agency review and approval based on reported chlorine dioxide reporting	CR	List	List of values: Yes No Required if CLC-7 is Yes (Federally conditionally required if CLC- 7 is Yes)	-

Group	Description	R/O/CR	Validations	Additional Designations
Chlorite	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CLC-38.1	Total Number of	Total number of samples taken in	R	Numeric 0 to		Federally required

	Samples	the month		99999 (5,0)		
CLC-39.1	Number of MCL Violations for the Month	Total number of samples taken in which the value exceeded the Chlorite MCL of 1.0 mg/L	R	Numeric 0 to 99999 (5,0)		Federally required
CLC-40.2	Monthly Arithmetic Average (DS 3- sample sets)	Average of the distribution system 3- sample sets (routine, monthly, and triggered)	R	Numeric 0 to 99.999 (5,3)		Federally required
CLC-41.2	Laboratory ID	Analyzing laboratory if the reporting lab did not perform the sample analysis for the Chlorite results	0	List	List of values: List of all laboratories within the Primacy Agency	
CLC-42	Routine Result at POE	Value of sample taken at the Point of Entry (POE) to the distribution system.	R	Numeric 0 to 99.999 (5,3)	Display result in bold red if MCL (1.0 mg/L) is exceeded.	Federally required
CLC-43	MCL Exceeded?	Whether the MCL for the routine daily POE sample (CLC-42) exceeded the Chlorite MCL of 1.0 mg/l.	R	List	List of values: Yes No Default value to Yes and disabled if CLC- 42 is greater than MCL	Federally required
CLC-44	1 st Sample @ 1 st Customer (mg/L)	Value of first sample in routine monthly distribution three- sample set or triggered three- sample set	0	Numeric 0 to 99.999 (5,3)	-	Federally required
CLC-45	2 nd Sample @ Avg. Residence Time Location (mg/L)	Value of second sample in routine monthly distribution three- sample set or triggered three- sample set	0	Numeric 0 to 99.999 (5,3)	-	Federally required
CLC-46	3 rd Sample @ Max. Residence Time Location (mg/L)	Value of third sample in routine monthly distribution three- sample set or triggered three- sample set	0	Numeric 0 to 99.999 (5,3)	-	Federally required

CLC-47	Average of 3 Sample Set	Average of the routine or triggered distribution three- sample set.	0	Numeric 0 to 99.999 (5,3)	Calculated value: CLC47=(CLC44 +CLC45+CLC46)/3 Editable field	Federally required
CLC48	Average. exceeded MCL? (1.0 mg/L)	Whether CL-47 was greater than 1.0 mg/l	0	List	List of values: Yes No	Federally required
CLC-49	Notify State?	Whether the PWS notified the State of the Chlorite MCL violation	-	List	List of values: Yes No	-
CLC-50	Notify Public?	Whether the PWS notified the public of the Chlorite MCL violation?	0	List	List of values: Yes No	-

6.12.15 Add Chlorine Chloramines Entering the Distribution System Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under "Operational Data" tab, Click "Add" then select Chlorine Chloramines Entering DS from the dropdown list. (Figure 60)
- 4) Enter metadata information for Chlorine and Chloramines Entering Distribution System. All fields marked with an asterisk (*) are required. (Figure 69, next page)
- 5) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 61)



Figure 69 - Chlorine Chloramines Entering the Distribution System (Unfiltered Water)

Note: The default view of this screen is for unfiltered systems; if the user selects Groundwater or Filtered Water in the Filtering/Source Water field, the form displayed will be updated so that the columns for "pH" through "Achieved Inactivation?" are removed. (Figure 70)

Chlorine Chloramine Entering DS	
🔞 Save 🔇 Close	* - Required + - Conditionally Required f - Federally Required <i>f</i> - Federally Conditionally Required
Operational Data - Chlorine Chloramines: Minimum Disinfectant Residual Entering the Distribution Systemeters and the Statemeter Statemeters and the Statemeters and th	m
Water System*: Water System Name Facility*: Sampling Point*:	Sampling Location Filtering/Water Source *: Reporting Period *f:
CT V	Groundwater 🔽 🔽
Minimum Disinfectant Residual Reg. at Sampling Location Number of Measurement Below Minimum Using Chlorine2+	Sample ID [*]
0.2 Yes	
Add .	
Minimum Residual Measured (mg/l)	Duration < Minimum Residual Date State
Day Operational Status +f Type of Resi	lual Measured ^{+†} (hours) ⁺
No items to sh	W

Figure 70 - Chlorine Chloramines Entering DS - Filtered/Groundwater

Notes:

- When a Chlorine chloramine entering the distribution system record is saved, the user will not be able to modify the Reporting Period and the "Minimum Disinfectant Residual Required at Sampling Location" fields.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role)
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job

Group	Description	R/O/CR	Validations	Additional Designations
Chlorine Chloramines Entering DS Sample Header	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CED-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-

CED-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/ A	Disabled Field	Disabled field Field auto-populated according to selection made in CED-1	-
CED-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the Water System selected in CED-1	-
CED-3	Sampling Point	Sampling point related to the sample	R	List	List of values: All sampling points within the facility selected in CED-2	-
CED-4	Sampling Location	Physical Location where sampling occurred	0	Text		-
CED-5	Filtering/ Water Source	Identifies whether the PWS is using a filtered or Unfiltered surface water source, or a Groundwater source, for the facility about which the residuals are being reported	R	List	List of values: Filtered Surface Water Unfiltered Surface Water Groundwater	-
CED-7	Reporting Period- Month	Month of the calendar year	R	List	List of values: January to December CED-7 and CFE-8 cannot be in the future Disabled when record is saved	Federally required
CED-8	Reporting Period- Year	Year	R	List	List values: 2011 to current year CED-7 and CFE-8 cannot be in the future Disabled when record is saved	Federally required
CED-8.1	Sample ID	ID number of the sample	R	Alpha- numeric		Please enter any alpha- numeric value; this field is not used for compliance determination and will be Removed from a future

						version of CMDP
CED-9	Minimum Dis- infectant Residual Req. at Sampling Location	Minimum disinfectant concentration in mg/l per state requirement	0	Numeric 0 to 99.999 (5,3)	Default value is 0.2. Field enabled. Disabled when record is saved	-
CED-10	Number of Measure ments Below Min.	Number of Measurements less than the state-required Minimum (CED-9)		Numeric 0 to 99999 (5,0)		-
CED-11	Number of Measure ments Required	Number of Measurements that must be taken in the Monitoring period	R	Numeric 0 to 999999 (5,0)		
CED-11.1	Number of Measure ments Taken	Number of Measurements actually taken in the Monitoring period	R	Numeric 0 to 99999 (5,0)		
CED-12	Using Chlorine? (Y/N)	Whether chlorine is being used as a disinfectant.	CR	List	List of values: Yes No Required if CED-5 is Unfiltered Surface Water	-

Group	Description	R/O/CR	Validations	Additional Designations
Measurements Table			None	-
(Unfiltered Surface Water)				

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CED-16	Operation al Status	Indicates if the facility was operation during the day	R	List	List of values: On Off	-
CED-17	Minimum Residual (mg/L)	Minimum Residual Measured at Sampling Location (mg/l)	R	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required
CED-18	Type of Residual Measured	Type of residual measured	R	List	List of values: Free Total Combined Disable if CED-16 is Off	Federally required
CED-19	Duration< Minimum Residual (hours)	Number of hours for which the measured residual is less than minimum	CR	Numeric 0 to 999.99 (5,2)	Required if CED-17 is less than CED-9 (Federally conditionally required if CED-17 is less than CED-9)	Federally conditionally required

		state- required			Disable if CED-16 is Off	
CED-20	Date State Notified	Date state was notified by the PWS that the residual was less than the minimum for more than 4 hours	CR	Date	Required if CED-17 is less than CED-9 (Federally conditionally required if CED-17 is less than CED-9) Disable if CED-16 is Off	Federally conditionally required
CED-21	pH	The daily measurement of pH of dis- infected water	CR	Numeric 0 to 999.9 (4,1)	Required if CED-12 is Yes Disable if CED-16 is Off	Federally conditionally required if chlorine is used
CED-22	Temp- erature	The daily measurement of water temperature in degrees centigrade following each point of disinfection	0	Numeric 0 to 99.9 (3,1)	Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-23	Disinfect. Con- centration (C) in mg/L	The daily residual disinfectant concentration in mg/L	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-24	Effective Dis- infectant Contact Time (T)	The disinfectant contact time (in minutes) used for calculating the CT value	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-25	Required CT (min x mg/L)	An optional field for reporting a state- required CT	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	-
CED-26	CT Achieved (CT calc)	The actual CT value calculated using CED- 23 and CED- 24	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-27	CT99.9	The CT value for 99.9 percent inactivation per 40 CFR 141, Subpart H, Tables 1.1 to 3.1	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required for unfiltered SW systems

CED-28	Sum of all CT calc/CT9 9.9 at first customer	The total inactivation ratio using CED-26 and CED-27	0	Numeric 0 to 99.999 (5,3)	Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-29	Achieved Inactivation	Whether the inactivation ratio calculated in CED-28 is > or = 1.0	0	List	List of values: Yes No Disable if CED-16 is Off	Federally required for unfiltered SW systems
CED-30	Comment	An optional field for the PWS operator	0	Text		

Group	Description	R/O/CR	Validations	Additional Designations
Measurements Table for Filtered Surface Water (SW) or Groundwater (GW)			None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
	Operational	Indicates if	R	List	List of values: On Off	-
CED-31	Status	the facility				
		was				
		operating				
		during the				
		day				
	Minimum	Minimum	R	Numeric	Disable if CED-16 is Off	Federally
CED-32	Residual	Residual		0 to		required
	Measured	Measured at		99.999		
	(mg/L)	Sampling		(5,3)		
		Location				
		(mg/l)				
	Type of	Type of	R	List	List of values:	Federally
CED-33	Residual	residual			Free Total Combined	required
	Measured	measured			Disable if CED-16 is Off	
CED 13	Duration <	Amount of	CR	Numeric	Required if CED-32 is	Federally
	Minimum	time, in		0 to	less than CED-9	conditionally
	Residual	hours, that		999.99	(Federally conditionally	required
	(hours)	the measured		(5,2)	required if CED-32 is less	
		residual			than CED-9)	
		(CED-32)			Disable if CED-31 is Off	
		was less than				
		the minimum				
		required				

CED 14	Date State Notified	Date state was notified that the measured residual (CED-32) was less than the minimum required for more than 4 hours	CR	Date	Required if CED-13 is more than (Federally conditionally required if CED-32 is less than CED-9) Disable if CED-31 is Off	Federally conditionally required
CED-15	Comment	An optional comment field	0	Text	-	-

6.12.16 Add Chlorine Chloramines in the Distribution System Sample Type

Chlorine and Chloramines in DS			
😼 Save 🔇 Close			
Operational Data - Distribution System Maximum/Minimum	n Residual Disinfectant Leve	I	
Residual Reporting Type* : Water System *f :	Water System Name	Facility *f:	Reporting Period *f:
MRDL VI X1			v v v
MRDL Measurements			
Number of MRDL Number of MRDL	Monthly		
MRDL Violation? Measurements Required Measurements	Average 1		
No			

Figure 71 - Chlorine Chloramines in the Distribution System (MRDL)

3 Save 😮 Close	
Operational Data - Distribution System Maximum/Minimum Residual Disinfectant Level	
Residual Reporting Type*: Water System *f : Water System Name Facility *f : Reporting Period *f : MRDL and DS RDC X1 V V V V	•
MRDL Measurements	
Number of MRDL Number of MRDL Monthly MRDL Violation?1 Measurements Required Measurements 1 Average 1 No Image: Comparison of the second s	
Minimum DS RDC Measurements	
Number of Minimum RDC Number of Minimum RDC Number of Measurements Meeting % Meeting Minimum DS Previous Month % Meeting Measurements Required Measurements 1 Requirement 1 Requirement 1 Requirement 1	

Figure 72 – Chlorine Chloramines in the Distribution System with Minimum DS RDC

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under "**Operational Data**" tab, Click "**Add**" then select "**Chlorine Chloramines in DS**" from the dropdown list. (Figure 60)
- 4) Enter metadata information for Chlorine and Chloramines Entering Distribution System. All

fields marked with an asterisk (*) are required. (Figure 72)

5) Click "Save" to add the sample type to the Drinking Water Sample Job.

Notes:

- *If reporting period month is an end of a calendar quarter (March, June, September, or* December) the Quarterly RAA field will be displayed on the form for the user to populate.
- When a Chlorine chloramines in the distribution system record is saved, user will not be able to modify the Reporting Period field. If a Reporting Period is entered by error, the record must be deleted and a new record must be created.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role)
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with -Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job

Group	Description	R/O/CR	Validations
Chlorine Chloramines in DS	-	-	None

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
CID-0.1	Residual Reporting Type	Users have to select the type of residual summary they are reporting	R	List [ID] -MRDL - MRDL and DS RDC	MRDL is selected by default. Depending on the value selected from dropdown list, fields on the screen will be hidden or displayed	
CID-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	Federally required

DATA ELEMENTS

Sample Header

Additional

Designations

CID-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/ A	Disabled Field	Disabled field Field auto-populated according to selection made in CID-1	Federally required
CID-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in CID-1.1	Federally required
CID-4	Reporting Period – Month	Month of the calendar year	R	List	List of values: January to December CID-4 and CFE-5 cannot be in the future Disabled when record is saved	Federally required
CID-5	Reporting Period Year	Year	R	List	List values: 2013 to current year CFE-4 and CFE-5 cannot be in the future Disabled when record is saved	Federally required
CID-6	Quarterly RAA	Quarterly running annual average for MRDL	0	Numeric 0 to 99.999 (5,3)	Display if CID-4 is March, June, September or December	Federally required
CID-7	MRDL Violation ?	Whether there was a violation for distribution system MRDL of 4.0 mg/L	0	List	List of values: Yes No	Federally required
CID-8	Number of MRDL Measure- ments	Number of Maximum Residual Dis- infectant Level measurements taken in the month	0	Numeric 0 to 99999 (5,0)	-	Federally required
CID-8.1	Number of MRDL Measure- ments Required	Number of Maximum Residual Disinfectant Level Measurements Required in the month	0	Numeric 0 to 99999 (5,0)	-	
CID-9	Monthly Average	Average of detected DS Residual Measurements for the month	0	Numeric 0 to 99.999 (5,3)	-	Federally required
CID-10	Number of Measure- ment	Number of DS residual Measurements	0	Numeric 0 to 99999	CID-10 must be less than or equal to CID-13	Federally required

	Meeting Min DS Residual Require- ment	with a Detected residual		(5,0)		
CID-11	% Meeting DS Residual Require- ment	Percent of current month's DS Residual Measurements with a detected residual	0	Numeric 0 to 999.999 (6,3)	Calculated. Equal to Percent(CID-10/CID- 13)	Federally required
CID-12	Previous Month % Meeting DS Residual Require- ment	Percent of Previous month's DS Residual Measurements with a Detected residual	0	Numeric 0 to 999.999 (6,3)	-	Federally required
CID-13	Number of Minimum RDC Measure- ments	Number of Minimum Residual Disinfectant Concentration Measurements taken during The Monitoring period	0	Numeric 0 to 99999 (5,0)		Federally required
CID-13.1	Number of Minimum RDC Measure- ments Required	Number of Minimum Residual Disinfectant Concentration Measurements required during The Monitoring period	0	Numeric 0 to 99999 (5,0)		

6.12.17 Add Lead and Copper Water Quality Parameters Sample Type

- 1) Under "Drinking Water Sample Jobs" tab, click on "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under "**Operational Data**" tab, Click "**Add**" then select "**LCR WQP**" from the dropdown list. (Figure 60)
- Enter metadata information for Lead and Copper WQP. All fields marked with an asterisk (*) are required. (Figure 73)
- 5) Users can either enter distribution tap samples or entry point samples using the tables provided. (Figure 73)
- 6) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 61)

													😑 🕹 🗡
🔞 Sa	ve 🔇 Close	в					* - Required	+ - Condition	nally Required	f - Federally	Required	f - Federally Cond	itionally Required
Oper	ational Dat	a - LCR Wat	er Quality Pa	arameters									^
Wate X100	der System*: Water System Name Reporting Period "f: 0000012 X1 ADDITION TEST WS 00 V												
Distr	Distribution Tap Samples												
ф.	Add 🔀 Rem	iove											
	Collection Date "I	Collection Time	Facility	Sampling Point ¹	Analyte *f	Result *f	Units of Measure [*] f	Analyzing Laboratory (if not reporting Lab)	Lab Sample ID*	Analysis Date f	Method	Collected By	Comments
	No items to show.												
													000
Entr	Point Sam	ples											
	Add 💢 Rem	nove											
	Collection Date "f	Collection Time	Facility	Sampling Point ¹	Analyte *f	Result *f	Units of Measure [*] f	Analyzing Laboratory (if not reporting Lab)	Lab Sample ID*	Analysis Date 1	Method	Collected By	Comments
		0				1	No items to show.						

Figure 73 - Lead and Copper Water Quality Parameters

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role)
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job

-

Notes:

- When a Lead and Copper WQP record is saved, users will not be able to modify the reporting period.

Group	Description	R/O/CR	Validations	Additional Designations
LCR – WQP Sample Header			None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LCR-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-
LCR-2	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	NA	Disabled Field	Disabled field Field auto-populated according to selection made in LCR-1	-
LCR-4	Reporting Period – Month	Month of the calendar year	R	List	List of values: January to December LCR-4 and LCR-5 cannot be in the future Disabled when record is saved	Federally required
LCR-5	Reporting Period Year	Year	R		List values: 2013 to current year CFE-4 and CFE-5 cannot be in the future Disabled when record is saved	Federally required

Group	Description	R/O/CR	Validations	Additional Designations
Distribution Tap Samples			None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LCR-6	Collection Date	Date when sample was collected	R	Date MM/DD /YYYY	LCR-6 must be within LCR-4 and LCR-5 (reporting period)	Federally required
LCR-7	Collection Time	Time when sample was collected	R	Time Should it be R since federally required? HH:MM (24h)	When the Time is 00:00:00, the Application does not populate the XML tags.	Federally required
LCR-8.1	Facility ID	Facility related and sampling point related to facility	0	List	List of values: List of all facilities in water system selected in LCR-1	Federally required
LCR-8.2	Sampling	ID number	0	List	List of values:	Federally

	Point ID	of the Sampling Point			All sampling points in Facility selected in LCR- 8.1	required
LCR-9	Analyte/ Parameter Code and Name	Analyte or parameter that was subject to Parameter Code and Name	R	List	List of values: 1925 – pH 1064 - Conductivity 1996 - Temperature 1927 - Alkalinity Total 1044 - Orthophosphate 1049 – Silica 1019 - 1919 - Calcium	Federally required
LCR-10	Result	Result measured	R	Numeric		Federally required
LCR-11	Units of Measure	Unit of measure	R	List	List of values: MG/L uG/L pH Unit Degree Celsius uMHO/cm	Federally required
LCR-12	Analyzing Lab ID (if not reporting lab)	Laboratory that performed the analysis (if different than the reporting laboratory)	0	List	List of values: Laboratories within the Primacy Agency	-
LCR-13	Lab Sample ID	Assigned ID	R	Alpha- numeric	-	-
LCR-14	Analysis Date	Date when Analysis occurred	0	Date MM/DD /YYYY	LCR-14 must be greater than or equal to LCR-6 (collection date)	Federally required
LCR-15	Method	Analytical method used	0	List	List of values: Methods applicable to Analyte/Parameter selected in LCR-9	Federally required
LCR-16	Collected By	Individual or entity that collected the sample	0	Text	-	-
LUK-1/	Comments			Text	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Entry Point Samples	-		None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
LCR-18	Collection Date	Date when sample was collected	R	Date MM/DD/ YYYY	LCR-18 must be within LCR-4 and LCR-5 (reporting period)	Federally required
LCR-19	Collection Time	Time when sample was collected	R	Time HH:MM (24h)	When the Time is 00:00:00, the application does not populate the XML tags.	Federally required
LCR-20	Facility ID - Sampling Point ID	Facility related and sampling point	R	List	List of values: List of all facilities in water system selected in	Federally required

		related to facility			LCR-1	
LCR-21	Analyte/ Parameter Code and Name	Analyte or Parameter that was subject to analysis	R	List	List of values: 1925 – pH, 1064 – Conductivity, 1996 – Temperature, 1927 – Alkalinity Total, 1044 - Orthophosphate, 1049 – Silica, 1019 – Calcium, 1919 - Calcium	Federally required
LCR-22	Result	Result measured	R	Numeric (8,4)	-	Federally required
LCR-23	Units of Measure	Unit of measure	R	List	List of values: MG/L uG/L pH Unit Degree Celsius uMHO/cm	Federally required
LCR-24	Analyzing Lab ID (if not reporting lab)	Laboratory that performed the analysis (if different than the reporting lab)	0	List	List of values: Laboratories within the Primacy Agency	-
LCR-25	Lab Sample ID	Assigned ID	0	Alpha- numeric	-	-
LCR-26	Analysis Date	Date when analysis occurred	0	Date MM/DD /YYYY	LCR-26 must be greater than or equal to LCR-18 (collection date)	Federally required
LCR-27	Method	Analytical method used	0	List	List of values: Methods applicable to Analyte/Parameter selected in LCR-21	Federally required
LCR-28	Collected By	Individual or entity That Collected the sample	0	Text		-
LCR-29	Comments		0	Text		-

6.12.18 Add Total Organic Carbon Operational Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "**Operational Data**" tab, Click "**Add**," and then select "**Total Organic Carbon**" from the dropdown list. (Figure 60)
- 4) Enter metadata information for Total Organic Carbon. All fields marked with an asterisk (*) are required. (Figure 74)
- 5) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 61)

🗐 Save 🔇 Close			* - Required	+ - Conditio	onally Required	f - Federally Requi	red f - Federally Cond	itionally Required
Operational Data - Total Organic	Carbon							
Water System *f: Water System	m Name Facility	y "f:	Sampling Point "f:		Reporting Period	* f :	Sample ID*:	
X10000222 X1 ADDITIO	N TEST WS 022	~		4		▼ ▼		
RAA of Monthly TOC Removal Ratios f	RAA for	r Alternative Compliance Criteria	# of Paired Samples /Quarter f		Laboratory ID *			
					X1LAB001 - X1 T	est-Lab 💌		
State Calculates RAAs for DBP Precursors (Y/N)?*		Yes	▼					
Is the system in compliance with the or enhanced softening percent remov 141.135(b) for the last 4 quarters?	enhanced coagulatior ral requirements in 40) CFR Yes	▼					
Month 1 Arithmetic Average % Reduction of TOC	Month : % Red	2 Arithmetic Average uction of TOC	Month 3 Arithmetic Ave % Reduction of TOC	rage	i.			
								3
🌵 Add 💥 Remove								
	Paired Samples S		Step1			St	ep2	
Date *f Raw Water Chec Raw	k Raw Water Alkalinity *	Tinished Required Actu Vater TOC TOC Removal% / Rem	al TOC noval % ^f Ratio ^f	Alt Comp.(1-6)	VL Ratio Requision Requision Requision Requision Reputation Reputa	Actual TOC Removal % f	Removal Ratio ^f (Y/N) ^f	Comments
			No items to show.					
I		Figure 74	- Total Org	ganic Ca	irbon			

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Note:

- When a TOC record is saved, users will not be able to modify the reporting period.

Group	Description	R/O/C R	Validations	Additional Designations
Total Organic Carbon	-	-	None	-

			R/O/	Format		Additional
Code	Label	Description	CR		Validations	Designations
TOC-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: Water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-
TOC-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	NA	Disabled Field	Disabled field Field auto- populated according to selection made in TOC-1	-
TOC-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in TOC-1	-
TOC-6	Laboratory ID	Laboratory reporting the data; assumed to be the laboratory that performed the analysis	0	List	List of values: List of all laboratories available to the user For Laboratory Users, default to selected working organization	-
TOC-4	Reporting Period	Quarter for which the monthly values are reported to the state primacy agency	R	List	List of values: Q1- Jan – Mar Q2- Apr – Jun Q3- Jul – Sep Q4- Oct – Dec Disabled when record is saved	-
TOC-5	Reporting Period – Year	Year of the reporting period	R	List	List of values: 2013 to current year TOC-4 and TOC-5 cannot be in the future Disabled when record is saved	
TOC-5.1	Sample ID	ID number of the sample analysis	R	Alpha- numeric	-	-
TOC-12	Monthly Arithmetic Average % Reduction of TOC	Average of the percent reduction for each paired TOC sample	-	Numeric 0 to 999.99 (5,2)	Monthly average is recorded for the month and reported for the quarter. Federally	Federally Conditionally required

					conditionally required if the state chooses NOT to perform the calculation	
TOC-7	State Calculates RAAs for DBP Precursors (Y/N)?	Whether the State Calculates the RAA for the PWS	R	List	List of values: Yes No	-
TOC-8	RAA of Monthly TOC Removal Ratios.	Running Annual Average based on the last 12 Monthly Removal ratios	-	Numeric 0 to 999.99 (5,2)	-	Federally Conditionally required
TOC-9	RAA for Alternative Compliance Criteria	Running Annual average for The Alternative Compliance criterion (1-6)	-	Numeric 0 to 999.99 (5,2)	-	Federally Conditionally required
TOC-10	# of Paired	Number of paired TOC Samples Collected during the last quarter	-	Numeric 0 to 999.99 (5,0)	-	Federally required
TOC-11	Is the system in com- pliance with the enhanced coagulation or enhanced softening percent removal requirements in 40 CFR 141.135(b) for the last 4 quarters?	Whether the PWS is in compliance with the Disinfection Byproducts (DB) rule requirements for DBP precursors	-	List	List of values: Yes No	Federally required
TOC-11.1	Month 1 Arithmetic Average % Reduction of TOC	Calculated TOC percent removal for the first month of the reporting period	0	Numeric (5,2)	-	-
TOC-11.2	Month 2 Arithmetic Average % Reduction of TOC	Calculated TOC percent removal for the second month of the reporting period	0	Numeric (5,2)	-	-
TOC-11.3	Month 3 Arithmetic Average % Reduction of TOC	Calculated TOC percent removal for the third month of the reporting period	0	Numeric (5,2)	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Results Table	-	-	None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
TOC-13	Date	Collection date	R	Date MM/DD/ YYYY	Cannot be a future date. Date must be within reporting period.	Federally required
Paired Sar	nple		-			
TOC-15	Raw Water TOC	Value of TOC in mg/L, before treatment	R	Numeric 0 to 999.99 (5,2)	-	Federally required
TOC-16	Check Raw<=2.0	Whether the raw water TOC measurement was <=2.0	R	Numeric 0 to 999.99 (5,2)	-	Federally required
TOC-17	Raw Water Alkalinity	Value of alkalinity in mg/L, before treatment	0	Numeric 0 to 999.99 (5,2)	-	-
TOC-18	Finished Water TOC	Treated water TOC, in mg/L	R	Numeric 0 to 999.99 (5,2)	-	Federally required
Step 1						
TOC-19	Required TOC Removal %	Step 1	0	Numeric 0 to 999.999 (6,3)	-	Federally conditionally required
ТОС- 20	Actual TOC Removal %	Step 1	0	Numeric 0 to 999.999 (6,3)	-	Federally conditionally required
TOC-21	Removal Ratio	Step 1	0	Numeric	Calculated by CMDP: = TOC-20/TOC-19	Federally conditionally required
Alternativ	e Compliance (Criteria				
TOC-22	Alt. Comp. (1- 6)	Alternative Compliance Criterion (ACC) 1 through 6	0	Numeric 0 to 999 (3,0)	-	Federally conditionally required
TOC-23	Alt. Ratio Assigned	Alternative Compliance Criterion ratio assigned	0	Numeric 0 to 999.99 (5,2)	-	Federally conditionally required
Step 2						
TOC-24	Required. TOC Removal (%)	Step 2	0	Numeric	-	Federally conditionally required

TOC-25	Actual TOC Removal %	-	0	Numeric	-	Federally conditionally required
TOC-26	Removal Ratio	Step 2	0	Numeric	Calculated by CMDP: = TOC-25/TOC-24	Federally conditionall y required
TOC-27	Step 2 Removal Achieved? (Y/N)		0	List	List of values: Yes No	Federally conditionall y required
TOC-28	Comments		0	Text	-	-

zone Treatment(B	romate) se		_			* - Required	+ - Conditiona	ally Required	f - Federally F	Required f-	Federally Condi	tionally Requ
perational Da	ta - Ozone Tre	atment										
Vator System* :	Water S	vstem Name	Facility *		Sampl	ing Doint *[-	R	eporting Period	f:	Reporting Labo	ratory ID	
(10000011	X1 ADD	ITION TEST WS	001			ing Point 4.	~	~	~	X1LAB001 - X1	Test - Lab	-
Iso Reporting for 0	CT Values for LT2ES	SWTR (Toolbox re	eporting requirement	nts)?	No	~						
iromate Resul	lts											
👍 Add 🛛 👗 Re	move											
Date "f	Analyzing Laboratory (if not reporting Lab)	Sample ID*	Not Detected *	Result f	Result UOM /	Reporting Limit	Reporting Limit	Method f	Analysis Start Date f	Analysis Start Time [¶]	Analysis Completed Date f	Analysis Completed Time f
zone Toolbox	Option											
💠 Add												
Day	_	Tempera (centigra	ature ide) ^f	_	Concentration /		Conta	ict f	_	CT Value	<i>(</i>	_
					No	items to show.						

Figure 75 - Ozone Treatment (Bromate)

6.12.19 Add Ozone Treatment (Bromate) Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under "**Operational Data**" tab, click "**Add**," and then select **Ozone Treatment (Bromate)** from the dropdown list. (Figure 60)
- 4) Enter metadata information for Ozone Treatment (Bromate). All fields marked with an asterisk (*) are required. (Figure 75)
- 5) Use the Bromate Results table to enter results and the Ozone Toolbox Option if the answer to the Toolbox Reporting Requirement is "**Yes**."
- 6) Click "Save" to add the sample type to the Drinking Water Sample Job. (Figure 75)

Notes:

- If the selected reporting period month is the end of a calendar quarter (March, June, September, or December), Quarterly Bromate RAA, and Number of Samples Taken will automatically be displayed on the form. - User will not be able to modify the reporting period once the Ozone Treatment (Bromate) record is saved.

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier, or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

Group	Description	R/O/CR	Validations	Additional Designations
Ozone Treatment (Bromate) Sample Header	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
OTB-1	Water System ID	Water system related to the sample	R	List [ID – Name]	List of Values: Water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-
OTB-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/ A	Disabled Field	Disabled field Field auto-populated according to selection made in OTB-1	-
OTB-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected in OTB-1	-
OTB-3	Sampling Point	Sampling point related to the sample	R	List	List of values: List of all sampling points within the facility selected in OTB-2	Federally required

OTB-5	Reporting Period- Month	Month of the calendar year	R	List	List of values: January to December OTB-5 and OTB-6 cannot be in the future Disabled when record is saved	Federally required
OTB-6	Reporting Period- Year	Year	R	List	List values: 2013 to current year OTB-5 and OTB-6 cannot be in the future Disabled when record is saved	Federally required
OTB-7	Also Reporting for CT Values for LT2ESWT R (Toolbox Reporting requiremen ts)?	An LT2 toolbox credit- Related question for PWS to answer for State Primacy Agency review and approval	0	List	List of values: Yes No	
OTB-8	Quarterly Bromate RAA	Running Annual average for the current quarter	0	Numeric	Display if OTB-5 is March, June, September, December	Federally required
OTB-9	Total Number of Samples Taken		0	Numeric	Display if OTB-5 is March or June or September or December	Federally required
OTB-9.1	Reporting Laboratory ID	State- Assigned Laboratory ID of the Reporting Laboratory (assume to be the analytical Laboratory Unless Otherwise noted by the submitter).			List of values: Laboratories associated with the user account	

Group	Description	R/O/C R	Validations	Additional Designations
Bromate Results	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
OTB-10	Date	Date sample was collected	R	Date MM/DD/ YYYY	OTB-10 must be within OTB- 5 and OTB- 6 (reporting period)	Federally required
OTB-11	Laboratory	Laboratory that performed	0	List	List of values: List of laboratories within the Primacy Agency	-
		the sample analysis				
----------	---------------------------	---	----	------------------------------------	---	--
OTB-12	Sample ID	Assigned ID	0	Alpha- numeric	-	-
OTB-13	Not Detected	Whether the analyte was detected or not detected	R	Checkbo x	Not Detected if checked	-
OTB-14	Result	Value of the sample result	CR	Numeric 0 to 99.999 (5,3)	Disable if OTB-13 is checked (not detected)	Federally required
OTB-15	UOM	Unit of measure	CR	List	List of values: mg/L ug/L degree C LANG mF/L ng/L NTU pH units umho/cm pCi/L TON Color Units Disable if OTB-13 is checked (not detected)	Federally conditionally required
OTB-16	Reporting Limit	The smallest measured concentration of a substance that can be reliably measured by using a given analytical method	CR	Numeric 0 to 99.999 (5,3)	Disable if OTB-13 is checked (not detected)	Federally conditionally required
OTB-17	Reporting Limit UOM	Unit of measure for reporting limit	CR	List	List of values: mg/L ug/L degree C LANG mF/L ng/L NTU pH units umho/cm pCi/L TON Color Units Required if OTB-13 is not checked Disable if OTB-13 is checked (not detected)	Federally conditionally required
OTB-18	Method	Analytical method used	0	List	List of values: List of methods applicable to Bromate	Federally required
OTB-19	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YYY Y	OTB-19 must be greater than or equal to OTB-10	Federally required
OTB-19.1	Analysis Start Time	Date when analysis started	0	Time HH:MM (24h)	OTB-20 and OTB-21 must be greater than or equal to OTB-19 and OTB-19.1. When the Time is 00:00:00, the application does not populate the XML tags.	-

OTB-20	Analysis Completed Date	Date when analysis ended	0	Date MM/DD/ YYYY	OTB-20 and OTB-21 must be greater than or equal to OTB-19 and OTB-19.1	-
OTB-21	Analysis Completed Time	Date when analysis ended	0	Time HH:MM (24h)	OTB-20 and OTB-21 must be greater than or equal to OTB-19 and OTB-19.1. When the Time is 00:00:00, the application does not populate the XML tags.	-

				Additional
Group	Description	R/O/CR	Validations	Designations
Ozone Toolbox Option	-	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
OTB-22	Temperature	Water temperature for CT calculation	0	Numeric 0 to 99.9 (3,1)	None	-
OTB-23	Concentration	concentration of chlorine dioxide for CT calculation expressed in mg/L.	0	Numeric 0 to 99.999 (5,3)	None	-
OTB-24	Contact Time	Time (T, in minutes) concentration is measured for CT calculation	0	Numeric 0 to 99.999 (5,3)	None	-
OTB-25	CT Value	Value from table 2.1 in 40 CFR 141 Subpart H. Cryptosporidium inactivation by Chlorine Dioxide and Ozone	0	Numeric 0 to 99.999 (5,3)	None	-

6.12.20 Add TTHM and HAA5 Sample Type

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Under the "**Operational Data**" tab, click "**Add**," and then select "**TTHM and HAA5**" from the dropdown list. (Figure 60)
- 4) Enter metadata information for TTHM and HAA5. All fields marked with an asterisk (*) are required. (Figure 76)
- 5) Use the TTHM table to enter TTHM results and the HAA5 table to enter HAA5 results.
- 6) Click "**Save**" to add the sample type to the Drinking Water Sample Job. (Figure 61)

TTHM And HAA5	
Save 📀 Close * - Required + - Conditionally Required f - Federally Required f - Federally Conditionally	onally Required
Operational Data -TTHM and HAA5	^
Water System Name Facility *: Reporting Period *1: Reporting Laboratory ID	
X10000227 🗴 X1 ADDITION TEST WS	
ттнм	
Number of TTHM Samples Taken f	
📥 Add 💥 Remove	
All Was All All All All All All All All All Al	nalyzin
Sample Sample Sample Sample Result Result Locatio Location LARA Method Report Yourne Analysis Start Analysis Start Analysis Cate Computer Start Completed (in Computer Start Completed Completed (in Completed Completed Completed (in Completed Completed Completed (in Completed Completed Completed Completed (in Completed Completed Completed Completed Completed (in Completed Completed Completed Completed (in Completed Completed Completed Completed Completed Completed Completed (in Completed	aborati Sample f not Collecto
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No items to show.	
HAAS	
Number of HAA5 Samples Taken	
🚔 Add 🎽 Remove	
	nalyzin
Sample Sample Sample Received Sample Result Result Locato RAA Method Report Volume Analysis Start Analysis Start Analysis Start Analysis Completed (in Completed (in Completed Completed (in Completed (in Completed Completed (in Completed	aborati Sample f not Collecto
Date1 Point 1 ID 1 1 UOM7 RAA1 UOM 1 violated 1 Limit 1 UOM 7 (ML)1 Date1 Time1 Date1 Time1 Time1 Time1 ref	eportini Name ab)
No items to show.	
Figure 76 - TTHM and HAA5	•

AUTHORIZATIONS

- If Job Status is "Draft with Preparer": Only users associated with an organization type laboratory or water system can add/edit/remove a sample to/from a Job (no restriction by role).
- If Job Status is "Draft with Reviewer": Only Laboratory or Water System Users with Reviewer, Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Draft with Certifier": Only Laboratory or Water System Users with Certifier or Administrator Roles can add/edit/remove a sample to/from a Job.
- If Job Status is "Submitted" or "Accepted by State": Users cannot add/edit/remove a sample to/from a Job.

DATA ELEMENTS

6.12.20.1

Group	Description	R/O/ CR	Validations	Additional Designations
TTHM HAA5 Sample Header	Information that defines the sample collected	-	None	-

G 1	T 1 1	D	R/O		X7.1'1 '	Additional
Code	Label	Description	/CK	Format	Validations	Designations
1111-1	Water System ID	Water system related to the sample	R	List [ID –Name]	List of Values: Water systems within the Primacy Agency Display ID and Name in List Primacy Agency Code added by default to the WS ID field.	-
TTH-1.1	Water System Name	Name of the water system; the name can be the formal, legal, or common name most generally used to refer to the water system	N/ A	Disabled Field	Disabled field Field auto-populated according to selection made in TTH-1	-
TTH-2	Facility	Water system facility related to the sample	R	List	List of values: List of all facilities within the water system selected TTH-1	-
TTH-3	Sampling Point	Sampling point related to the sample	R	List	List of values: List of all sampling points within the facility selected in TTH-2	Federally required
TTH-5	Reporting Period – Quarter	Calendar quarter to determine the reporting period	R	List	List of values: Q1 – Jan- Mar Q2 – Apr- Jun Q3 – Jul- Sep Q4 – Oct – Dec Disabled when record is saved	Federally required
TTH-6	Reporting Period – Year	Year	R	List	List values: 2013 to current year. Disabled when record is saved	Federally required
TTH-6.1	Reporting Laboratory ID	Reporting entity	R	List	List of values: List of all laboratories available to the user	-

Group	Description	R/O/CR	Validations	Additional Designations
TTHM Results	Results table to have all the results	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
TTH-7	Number of TTHM Samples Taken	-	0	Numeric 0 to 999999 (5,0)	-	Federally required
TTH-8	TTHM Locationa 1 RAA	TTHM locational running annual average	0	Numeric 0 to 99.999 (5,3)	-	Federally required

TTH-9.1	Was LRAA MCL violated?	Whether the TTHM locational running annual average MCL was violated at the Sampling Point	0	List	List of values: Yes No	Federally required
TTH-11	Date	Date when sample was collected	R	Date MM/DD/ YYYY	TTH-11 must be within TTH-5 and TTH-6 (reporting period)	Federally required
TTH-11.1	Sample Received Date	Date on which lab received sample	R	Date MM/DD/ YYYY	Date ≤ Sample Received Date ≤ Analysis Start Date	Federally required
TTH-12	Analyzing Laboratory (if not Reporting Lab)	Laboratory that performed the analysis (if different from reporting lab)	0	List	List of values: List of all laboratories within the Primacy Agency	-
TTH-13	Sample ID	Assigned ID	0	Alpha- numeric	-	-
TTH-14	Not Detected	Indicator to determine if contaminant was detected	R	List	List of values (online form): true false List of values (Excel template): YesNo Not detected if true/Yes	Federally required
TTH-15	Result	Measure value	CR	Numeric 0 to 99.999 (5,3)	Disable if TTH-14 is true/Yes (not detected) (Federally conditionally required if analyte detected: TTH-14 is not true/Yes)	Federally conditionally required
TTH-16	Result UOM	Unit of measure	CR	List	List of values: MG/L UG/L NG/L Disable if TTH-14 is true/Yes (not detected) (Federally conditionally required if analyte detected: TTH-14 is not true/Yes)	Federally conditionally required
TTH-17	Reporting Limit	The smallest measured concentration of a substance that can be reliably measured by using a given analytical method	CR	Numeric 0 to 99.999 (5,3)	Disable if TTH-14 is true/Yes (not detected) (Federally conditionally required if analyte detected: TTH-14 is not true/Yes)	Federally conditionally required
TTH-18	Reporting Limit UOM	Unit of measure	CR	List	List of values: MG/L UG/L NG/L Disable if TTH-14 is true/Yes	Federally conditionally required

					(not detected) (Federally conditionally required if analyte detected: TTH-14 is not true/Yes)	
TTH-19	Method	Analytical method used	0	List	List of Values, List of Methods applicable to TTHM	Federally required
TTH-20	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YYYY	TTH-20 must be greater than or equal to TTH-11	Federally required
TTH-21	Analysis Complete Date	Date when analysis ended	0	Date MM/DD/ YYYY	TTH-21 must be greater than or equal to TTH-20	Federally required
TTH-22	Analysis Complete Time	Time when analysis ended	0	Time HH:MM (24h)	-	Federally required
TTH-23	Sample Collector Name	Name of the Person who collected the sample	0	Alpha- numeric		

Group	Description	R/O/CR	Validations	Additional Designations
HAA5 Results	-	-	None	-

Cada	Label	Description	R/O/	Format	Validations	Additional
TTH-10	Number of HAA5 Samples	-	0	Numeric 0 to 99999	-	Federally required
TTH-11.1	HAA5 Locationa 1RAA	Locational running annual average for HAA5	0	(5,0) Numeric 0 to 99.999 (5,3)	-	Federally required
TH-12.1	Was LRAA MCL violated?	Whether the locational RAA for HAA5 was violated	0	List	List of values: Yes No	Federally required
TTH-23	Date	Date when sample was collected	R	Date MM/DD/ YYYY	TTH-23 must be within TTH-5 and TTH-6 (reporting period)	Federally required
TTH-23.1	Sample Received Date	Date lab received sample	R	Date MM/DD/ YYYY	$\begin{array}{l} \text{Date} \leq \text{Sample} \\ \text{Received Date} \leq \\ \text{Analysis Start Date} \end{array}$	Federally required
TTH-24	Analyzing Laboratory (if not Reporting Lab)	Laboratory that performed the analysis (if different from reporting lab)	0	List	List of values: List of all laboratories within the Primacy Agency	-
TTH-25	Sample	Assigned ID	0	Alpha-	-	-

	ID			numeric		
TTH-26	Not Detected	Indicator to determine if contaminant was detected	R	List	List of values (online form): true false List of values (Excel template): Yes No Not detected if true/Yes	Federally required
TTH-27	Result	Measured value	CR	Numeric 0 to 99.999 (5,3)	Disable if TTH-26 is true/Yes (not detected) (Federally condition- ally required if analyte detected: TTH-26 is not true/Yes)	Federally conditionally required
TTH-28	Result UOM	Unit of measure	CR	List	List of values: MG/L UG/L NG/L Disable true/Yes (not detected) (Federally condition-ally required if analyte detected: TTH-26 is not true/Yes)	Federally conditionally required
TTH-29	Reporting Limit	The smallest measured concentration of a substance that can be reliably measured by using a given analytical method	CR	Numeric 0 to 99.999 (5,3)	Disable if TTH-26 true/Yes (not detected) (Federally conditionally required if analyte detected: TTH-26 is not true/Yes)	Federally conditionally required
TTH-30	Reporting Limit UOM	Unit of measure	CR	List	List of values: MG/L UG/L NG/L Disable if TTH-26 is true/Yes (not detected) (Federally condition- ally required if analyte detected: TTH-26 is not true/Yes)	Federally conditionally required
TTH-31	Method	Analytical method used	0	List	List of Values, List of Methods applicable to TTHM	Federally required
TTH-32	Analysis Start Date	Date when analysis started	0	Date MM/DD/ YY YY	TTH-32 must be greater than or equal to TTH-23 (Collection date) and before or equal to TTH-33 (Analysis Complete Date)	Federally required
TTH-33	Analysis Complete Date	Date when analysis ended	0	Date MM/DD/ YY YY	TTH-33 must be greater than or equal to TTH-23 (Collection date) and greater than or equal to TTH-32 (Analysis Start Date)	Federally required
ITH-34	Analysis	Time when	0	Time	1	Federally

	Complete Time	analysis ended		HH:MM (24h)	required
TTH-23	Sample Collector Name	Name of the Person who collected the sample	0	Alpha- numeric	

6.13 JOB HISTORY

The Job History Sub Tab shows any modifications made by a user during the Sample Job workflow and to the samples included in the Job. Information recorded and shown here includes the Rejection Reason.

Job History will be recorded only after a change in Job Status to "Draft with Reviewer." Changes made by a Preparer to his or her draft Sample Job are not recorded.

1) Select the "**Drinking Water Sample Jobs**" tab. The "**Job Maintenance View**" tab will appear. (Figure 77)

ob Maintenar	ice View										
earch Job	5										
Job ID	Created B	y Sta	itus	From	To		File Name	S	earch Re	eset	
orinking Wa	ter Sample Jobs										
2 Refresh	🜵 Create New Job	Send to Reviewer	Send to Certifier	Certify and Subm	nit to State 🛛 😹	Reject 🐹 Remov	e 📕 Download	d Samples			
Job ID	 Sample Category 	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Reviewed On	Certifier	Certified O
8336	Microbial	Otman Prime te	st	X1	Submitted	Mohan Manthena	12/27/2017	Mohan Manthena	12/27/2017	Mohan Manthena	12/27/2017
8333		SBI-112-MC_00	1	X1	Draft with Preparer	Mohan Manthena	12/27/2017				
8332		jobs		X1	Draft with Preparer	Mohan Manthena	12/27/2017				
8321	Microbial	New Job using files	mysamplesx1t	X1	Submitted	Mohan Manthena	12/21/2017	Mohan Manthena	12/21/2017	Mohan Manthena	12/21/2017
-	Missekist	New Job using	mucompleav1t	V1	Submitted	Mohan Manthena	12/21/2017	Mohan Manthena	12/21/2017	Mohan Manthena	12/21/2017



Home PWS Profiles Lab	oratory Profiles Drinking	Water Sample Jobs S	earch Individual Samples	System Administration			
Job Maintenance View Job Summary View - 8321 🎉							
Sample Result Operational Data Job History Validations Attachments Composite Samples							
🍣 Refresh 🛛 Add 🔻 💥 R	temove						
Category	WSID	WS Name	Facility Name	Sampling Point	Sample ID	Sample Type	Collection Date
Microbial	X10010044	ANDOVER PLAZA	ENTRY POINT	3	Dtest1221-3	Routine	11/20/2017
			Figure 78 - Sa	imple Result			

2) Select a Job from the "Job Maintenance View" (Figure 77) to view Sample Result Job details in a new tab (Figure 78).

Job Maintenance View Job Summary View -8321 💢							
am	ple Result Operational	Data Job History Validations	Attachments Cor	nposite Samples			
2	Action	Audit Category	Audit Key	Latest Modification	Updated Date & Time	Updated By	Comments
	Record Updated	Job certified and submitted to State	jobld=8321		2017-12-21 22:40:35.0	x1testlabadmin	
		Inh conthe Codifier	labld=0224		2017-12-21 22:40:16:0	vtloctlabadmin	

Figure 79 - Job History (All Users)

3) Click the "Job History" tab to view the history details of the Job selected (Figure 79).

6.13.1 Authorizations

Only Laboratory and Water System Users (no role restrictions).

Note:

- The system will start recording history when the Job Status changes from "Draft with Preparer" to "Draft with Reviewer."

6.13.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Job History	List of modifications made by a user during the Sample Job workflow and to	-	None	View only
	the samples included in the Job			

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
JOH-1	Action	Element to identify the type of change	-	-	List of values: Record Updated	-
JOH-2	Audit Category	Category of the audit	_	-	List of values: • Job sent to reviewer • Job sent to certifier • Job Rejected • Job certified and sent to state • Chem/Radionuc lides • Microbial	-
ЈОН-3	Audit Key		-	-	Data elements to identify the sample separated by a comma jobid wsid facilityName sampleID sampleCategory collectionDate labSampleCd analyteName	-

JOH-4	Last Modi- fication	Details about data modified, including the data field name, the old value of the field, and the new value of the field	-	-	[name of field modified] OldValue: NewValue:	-
JOH-5	Updated Date & Time	The date on which the record was modified				
JOH-6	Updated By	The name of the user who updated the record				
JOH-7	comments	The text entered as a rejection reason.	-	-	-	-

6.14 VALIDATIONS

The Validations Tab includes the results of any validation checks made during the process of submitting an XML file or when using web forms. Some of the data fields in each data entry screen are federally required or federally conditionally required. *These fields are not required to contain valid values in order to save and submit samples within a Job*. However, any records with missing values for federally required or federally conditionally required fields will be considered validation errors and will appear in the Validations Tab.

The Validations Tab includes three different tables:

Top Table - Federal Reporting Validation Results: This table contains results of validations checked against fields entered via the web form or the XML upload processes that are federally required or federally conditionally required to see if there is a value (Figure 80). If those fields are left blank, they will be listed as errors in this table. Any errors displayed in this

table, however, will not prevent a Laboratory or Water System User from certifying and submitting a Job to State.

Middle Table - XML Submittal Validation Summary: This table contains a summary count of all sample records found in an XML file (Figure 80). Based on this summary count, the user will be able to identify the number of samples that contain no errors and the number that contain errors. Errors used for the count are: 1) invalid (either not permitted or not valid compared to stored reference data for the field) data entries for federally required, federally conditionally required, or software required

fields; 2) missing values for software required fields for each sample; and 3) business rule validation errors in the XML file. This table is only relevant for Jobs that were created using the XML File Upload method or LIMS method of reporting. To be included in any Sample Job that is certified and submitted to a state primacy agency, any

sample records with errors need to be corrected either a) locally and re-uploaded to CMDP using XML file upload (or LIMS) or b) by adding web forms to the existing Sample Job that contain the corrected sample records.

Federal Reporting Validation Results						
Category	Sample Identifier	Validation Category	Error Description			
Microbial	jobid=8914, wsid=x10190211, facilityName=DISTRIBUTION SYSTEM, sampleCategory=Microbial, collectionDate=08/01 /2017, labSampleCd=test0802-001, analyteName=3014 - E. Coli	Federally Required or Conditionally Required	Missing Data for Fields [Volume Assayed, Method Analysis Start Date, analysisStartTime]			
Microbial	jobid=6814, wsid=X10180211, facilityName=DISTRIBUTION SYSTEM, sampleCategory=Microbial, collectionDate=08/01 /2017, labSampleCd=test0802-001	Federally Required or Conditionally Required	Missing Data for Fields [sampleVolume]			

Figure 80 - Federal Reporting Validation Results table

Bottom Table - XML Submittal Validation Error Details: This table contains details of the errors found in the XML Submittal Validation Summary (Figure 81). Users will be able to access the details by selecting a row from this table. Any samples with errors need to be corrected and re-uploaded to CMDP using XML file upload (or LIMS). Errors displayed in this table include invalid data entries (permitted values not respected) and missing software required fields for each sample. To be included in any Sample Job that is certified and submitted to a state primacy agency, any sample records with errors need to be corrected either a) locally and re-uploaded to CMDP using XML file upload (or LIMS) or b) by adding web forms to the existing Sample Job that contain the corrected sample records.

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Select a Job from the **Drinking Water Sample Jobs** list to view Job details in a new tab.
- 3) Click the "Validations" tab to view the validation error details of the Job selected. (Figure 80)
- 4) If any Federally Required fields or Federally Conditionally Required fields are missing from the sample record, you will be able to open the corresponding sample that has the missing values.

XML Submittal Validation Summary					
Category	Total	Without Errors	With Errors		
Microbial	6	4	2		
Chem/Radionuclides	0	0	0		
Cryptosporidium	0	0	0		
Operational	0	0	0		

Figure 81 - Validations Table for XML Submittal

5) LIMS and Templates submissions validations are shown in Figure 80:

AML Submittal validation Error Details						
Category	Validation Category	Sample Identifier	Error Description			
Microbial	Critical	<pre>""""""""""""""""""""""""""""""""""""</pre>	{"facSamplingPointId":"Invalid Facility Sampling Point Id.","wsId":"Invalid Water System Id.","facilityId":"Invalid Facility Id."}			
Microbial	Critical	{"sampleCategory":"Microbial","facilityName":"Test1","sam. 08-02"}	{"facSamplingPointId":"Invalid Facility Sampling Point Id.","facilityId":"Invalid Facility Id."}			

Figure 82 - Validations Table for XML Submittal Error Details

- a. Use the XML Submittal Validation Summary to evaluate the number of samples that have errors in them (Figure 81).
- b. This table will not be used in cases where a Job was created using the UI and samples were added using the web forms.
- c. To view the details about any errors flagged in the XML Submittal Validation, click the appropriate row, and details will be displayed in the XML Submittal Validation Error Details (Figure 82)

If samples in a Job are being modified by users, the Validations tab will be refreshed according to the latest modification. Any fixed items will be removed from the list (Validation passed).

6.14.1 Authorizations

All users (no role restrictions).

6.14.2 Data Elements

Group	Description	R/O/ CR	Validations	Additional Designations
Federal Reporting	Any missing federally required fields from	-	-	-
Validation Results	samples within a Job will be displayed in this			
	table			

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
VAL-0	Category	Category of the sample Microbiological, Cryptosporidium, etc.	-	-	List of values: Microbiological Chemicals/Radionuclides Cryptosporidium CFE Turbidity IFE Turbidity LCR WQP Chlorine Dioxide Chlorine Chloramines in DS Chlorine Chloramines entering DS	-

					Total Organic Carbon Ozone Treatment (Bromate) TTHM and HAA5	
VAL-1	Sample ID	Elements to identify the sample; user will use those elements to locate the sample	-	-	Data elements to identify the sample separated by a "," e.g., Jobid=123, wsid=TX0000001, facilityName=test, sampleID=001	-
VAL-2	Validation Category	Category of the validation	-	-	Federally Required Field Federally Conditionally Required Field	-
VAL-3	Error Description	Details about missing or invalid data	-	-	Missing Data Element + List of data elements missing separated by a "," e.g., Missing Data Element [Analysis Start Date, Analysis End Date]	-

Note:- The following data elements will only be used for XML file upload.

Group	Description	R/O/CR	Validations	Additional Designations
XML Submittal Validation Summary	A summary table that counts samples with errors and without errors	-	-	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
VAL-4	Category	Category of the sample (Microbiological, Cryptosporidium, etc.)	-	-	List of values: Microbiological Chemicals/Radionuclides Cryptosporidium CFE Turbidity IFE Turbidity LCR WQP Chlorine Dioxide Chlorine Chloramines in DS Chlorine Chloramines entering DS Total Organic Carbon Ozone Treatment (Bromate) TTHM and HAA5	-
VAL-5	Total	Total number of samples found in the XML file	-	Numeric	Count number of samples in XML file used for file upload	-
VAL-6	With Errors	Total number of samples that contain errors	-	Numeric	Count number of samples that have errors: invalid data entered or missing required fields.	-

VAL-7	Without	Total number of	-	Numeric	Count number of samples	-
	Errors	samples that do			that do not have errors	
		not contain errors				

Group	Description	R/O/CR	Validations	Additional Designations
XML Submittal Validation Error Details	Table to provide details about errors	N/A	-	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
VAL-8	Category	Provides the category of the sample Microbiological , Cryptosporidium , etc.	_	-	List of values: Microbiological Chemicals/Radionuclides Cryptosporidium CFE Turbidity IFE Turbidity LCR WQP Chlorine Dioxide Chlorine Chloramines in DS Chlorine Chloramines entering DS Total Organic Carbon Ozone Treatment (Bromate) TTHM and HAA5	-
VAL-9	Validation Category	Critical	-	-	-	-
VAL-10	Sample Identifier	Elements to identify the sample in the XML file that contains the error	-	-	Elements include: wsID, jobId, stateAssignedFacID, sampleCategory, sampleCd, collectionDate	-
VAL-11	Error Description	Further description to determine the error	-	-	-	-

6.14.3 CMDP Validation Matrix

The following tables describe the different validations available in CMDP using all reporting methods. You will find a definition of each validation type below.

	Data Validation Error Appears in CMDP Validation Report (by Validation Type)							
CMDP Reporting Method	Schema (Field Names or Data Types)	Softw Requi Field (Miss Value	are ired ing	Business	Rule	Reference Data		Federally Required
Web Form via CMDP UI	Not Applicable – validation error appears in web form	Not Appli valida error a in wel	Not ApplicableNblicable –– validation–dationerror appearserr appearsin web forminveb form––		Not Applicabl – validation error appears in web form	e	Yes – for null values only	
XML via CMDP LIMS (Web Service)	No. XML file is rejected and errors appear in web service response	Yes		Yes		Yes		Yes – for null values only
	Data Validati	Data Validation Error Appears in CMDP Validation Report (by Valid					idation Type)	
CMDP Reporting Method	Schema (Field Names or Data Types)	Softw Requi Field Value	are ired (Missing e)	Business Rule		Rule Reference Data		Federally Required
XML via CMDP UI (Manual)	No. Schema in the XML file must watch the CMDP schema, or the file will be rejected and the error will appear in the user interface	Yes		Yes		Yes		Yes – for null values only
	Data Validatio	on Erro	r Results fo	or XML Fil	e, by Va	alidation Type	1	
Schema (Field Names or Data Types)	Software Required Fie (Missing Val	eld ue)	Business	s Rule Refer		ence Data		Federally Required
Entire file is rejected, and no Sample Job ID number is created	Sample Job II number is cre but no records saved	D ated, s are	Sample Job ID S number is created, n d, records with errors r are rejected, a records r without errors are v		b ID Sample Job ID created, number is created, ith errors records with errors ed, are rejected, records rors are without errors are		S n a n	ample Job ID umber is created nd records are ccepted with ull value errors

Table 3 - CMDP Validation Matrix

Schema

If the user is using LIMS for XML upload, the XML schema must be valid for the upload to be successful.

Software Required Field



Figure 83 - Sample Information (Partial) from Microbiological Template

As an example, if a user is using the Excel Templates to upload samples into CMDP, if any required fields from the Sample Information section are left blank, the sample will not be created, and the critical error will be displayed in the Validations tab as part of the 2nd and 3rd tables (XML Submittal Validation Summary and XML Validation Submittal Validation Details). A Job will still be created and will contain any valid samples. (Figure 83)

Compliance Monitoring Data Portal		Hello obouaz	zzaoui (ORG: <i>TX-El Paso State Lab</i> 12)	🖸 Logout
Home PWS Profiles Laboratory Profiles Dri	nking Water Sample Jobs Search Individu	al Samples System Administration		
Job Maintenance View 🛛 Job - 444 💥				
Sample Result Operational Data Job History	Validations Attachments			
Choose a file to upload		Upload Clear		
File Name	Description	Date Added	Added By	

Figure 84 - Job Attachments

Business Rule

As an example, consider the following business rule: The total Sample Volume of a sample must be greater than or equal to the Volume Assayed. If this validation fails, a record will not be created, and an error will be displayed as part of tables 1 and 2 (XML Submittal Validation Summary and XML Submittal Validation Details).

Reference Data

As an example, if a user enters a Water System ID in the MS Excel Template that does not exist as reference data in the CMDP database, the record will be rejected. Those records that have valid reference data will be created.

Federally Required

If any of these elements are missing from an Excel Template, for example, those errors will be displayed in the 1st table in the Validations tab (Federally Reporting Validations Results).

6.15 ATTACHMENTS

To upload attachments

- 1) Under the "Drinking Water Sample Jobs" tab, click the "Job Maintenance View" tab.
- 2) Create a new Job or select a Job from the Jobs search list to view Job details in a new tab.
- 3) Click the "Attachments" tab to upload any attachments related to the selected Job. (Error! Reference source not found.)
- 4) Provide a description of the file to be uploaded in the textbox.
- 5) Click "Choose a file to upload," select a file, and click "Open." Then click "Upload."

To remove attachments:

- 1) From the attachments grid, select an attachment(s) by clicking on the check box(es).
- 2) Click "Remove" to remove selected records from the attachments grid.

To download an attachment

1) Click "**Download File**" to download the selected attachment(s).

6.15.1 Authorizations

- Only users (all roles) associated with a laboratory (private or state) or add/remove attachments to a Job
- All users (no role restrictions) should be able to download attachments.

6.15.2 Data Elements

Group	Description	R/O/ CR	Validations	Additional Designations
Add Attachments	Allows user to add a file attachment to a Job	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
DWJ-27	File Name	File name with extension	R	Text	-	-
DWJ-28	Description	Text describing attachment	0	Text	-	-

Group	Description	R/O/CR	Validations	Additional Designations
Attachments List	List of all files attached to the Job	-	None	-

G 1			R/O/	-		Additional
Code	Label	Description	CR	Format	Validations	Designations
DWJ-29	File Name	File name plus extension	-	-	-	-
DWJ-30	Description	Text describing attachment	-	-	-	-
DWJ-31	Date Added	Date when the file was	-	-	System	-
		attached to the Job			generated	
DWJ-32	Added By	User who added the	-	-	Autopopulat	-
		attachment			ed (User ID)	

7 SEARCH INDIVIDUAL SAMPLES

This system module allows users to search samples across Jobs and locate an individual sample without opening a Job. This will allow the user to search samples by different criteria (by water system, collection period, etc.). Note, however, you cannot change a sample or result in this module.

7.1 SEARCH SAMPLES

Home PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples									
Search Samples Search Operational Data									
🧐 Search 🕜 Reset									
Search Criteria — Job ID		Job Status	▼						
Water System ID	LA	Water System Name							
Facility		Sample ID							
Collection From		Collection To							
Sample Type		Sample Category	▼						
Analyte	v	Method	~						
Analysis Start Date From		Analysis Start Date To							
Laboratory Name	▼								

Figure 85 - Search Samples (Microbiological/Chemicals/Radionuclides/Cryptosporidium)

Users can search samples (Microbiological/Chemicals/Radionuclides/Cryptosporidium) by using the search feature provided in the "Search Individual Samples" Module.

- 1) Click the "Search Individual Samples" tab. (Figure 85)
- 2) Click the "Search Samples" tab.
- 3) Enter one or more of the search criteria and click the "**Search**" button to narrow down the search results. The default search criteria is the first two letters of the Water System ID
- 4) Click on a Sample Results row to view the details of the sample and its result(s). Click **Close** at the top of the sample form to return to the list of sample results.
- 5) To reset search parameters/filters, click the "**Reset**" button. Note that selecting the "**Reset**" button resets the search criteria to the default search criteria (the first two letters of the Water System ID) and clears the grid under **Sample Results**. To run another search, go back to step 3 above.

Note:

- Note that any sample opened from this section of the application will reference the Job ID and Job Status.

7.1.1 Authorizations

- Users (all roles) associated with a laboratory, water system, or state laboratory should be

able to search all samples within their organization

- Users associated with a state will be able to search samples (Submitted Jobs only).

7.1.2 Data Elements

Group	Description	R/O/C R	Validations	Additional Designations
Sample Results Search Criteria	-	-	None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
SIS-1	Job ID	Unique ID assigned to the Job	0	Freeform	-	-
SIS-2	Job Status	Status of the Job	0	List	List of values: Validation in Progress Draft with Preparer Draft with Reviewer Draft with Certifier Submitted Accepted by State Validation Failed	-
SIS-3	Water System	Water system related to the sample	0	List [WS ID – WS Name] The default is the first two letters of the Water System ID	List of values: List of all water systems user has access to	-
SIS-4	Facility	Water system facility related to the sample	0	List [WSF ID – WSF Name]	List of values: List of all facilities in water system selected in SIS-3	-
SIS-5	Collection Date From	Start date for the date range when sample collection occurred	0	Date MM/DD/Y YYY	-	-
SIS-6	Collection Date To	End date for the date range when sample collection occurred	0	Date MM/DD/Y YYY	-	-
SIS-7	Sample ID	ID assigned to the sample	0	Freeform	-	-
SIS-8	Sample Type	Type of sample (e.g., routine)	0	List	List of values: Routine Repeat Triggered	-

					Confirmation Special Batch Blanks Field Blanks Performance Evaluation Shipping Blanks Split Blanks Maximum Residence Time Matrix Spike	
SIS-9	Sample Category	Category of the sample (e.g., microbiological)	0	List	List of values: Microbiological Chemicals/ Radionuclides Cryptosporidium	-
SIS-10	Analyte	Analytes related to the sample	0	List	List of values: List of analytes	-
SIS-10.1	Method	Analytical method used	0	List	List of values: List of methods applicable to analyte selected in SIS- 10	-
SIS-10.2	Analysis Start Date From	The earliest date from which to search for Analysis Start Date within a date range. The search will show results for samples with Analysis Start Dates on or after the Analysis From Date.	0	Date MM/DD/ YYYY		
SIS-10.3	Analysis Start Date To	The latest date to search for an Analysis Start Date within a date range. The search will show results for samples with Analysis Start Dates on or before the Analysis To Date.	0	Date MM/DD/ YYYY		
SIS-11	Laboratory ID	ID of the reporting laboratory	0	List	List of values: List of all laboratories user has access to	-

Group	Description	R/O/CR	Validations	Additional Designations
Sample Results Table	List of the search results	-	None	-

			R/O/			Additional
Code	Label	Description	CR	Format	Validations	Designations
SIS-12	Job ID	Unique ID assigned to the Job	-	Read-only	None	-
SIS-13	Job Status	Status of the Job	-	Read-only	None	-
SIS-14	Water System ID	Federal ID of the water system	-	Read-only	None	-
SIS-15	Water System Name	Name of the water system related to the sample	-	Read-only	None	-
SIS-16	Facility	Water system facility within the water system	-	Read-only	None	-
SIS-17	Sample ID	ID assigned to the sample	-	Read-only	None	-
SIS-18	Sample Type	Type of sample (e.g., routine)	-	Read-only	None	-
SIS-19	Collection Date	Date when sample was collected	-	Read- only	None	-
SIS-20	Sample Category	Category of the sample record (e.g., microbiological)	-	Read-only	None	-
SIS-21	Analyte	Analytes related the sample	-	Read-only	None	-
SIS-22	Laboratory	Reporting laboratory	-	Read-only	None	-

7.2 SEARCH OPERATIONAL DATA

Users can search samples (Microbiological/Chemicals/Radionuclides/Cryptosporidium) by using the search feature provided in the "Search Individual Samples" Module.

٢	Compliance Monitoring Dat	a Portal				(OR	Hello Otman Boua G: CT-ANALYTIC LABOR	zzaoui(Private Lab CMDP Administrator) CATORY SERVICES, INC.)
Home	PWS Profiles Laboratory Pro	iles VDrinking Water Sample Jobs	Search Individual Sa	mples System Administrat	ion			
Searc	ch Samples Search Operational Da	ita						
80 5	Search 🧭 Reset							
Sear	ch Operational Data							
Job IE	Job Sta	tus Water System ID	Water	er System Name	Facility	Repor	ing Period	Operational Sample Type
		▼ CT	▼			▼	▼	~
Job II	D Water System	NID Water System Name	Facility	Job Status		Reporting Period Month(s)	Reporting Period Year	Operational Sample Type
				No items to show.				

Figure 86 - Search Operational Sample Types

- 1) Click the "Search Individual Samples" tab. (Figure 86)
- 2) Click the "**Operational Data**" tab.
- 3) Enter one or more of the search criteria and click the "Search" button to narrow down the

search results.

4) Click on a row in the grid to view the details of an operational data record. Click Close

at the top of the form to return to the list of records.

5) To reset search parameters/filters, click the "**Reset**" button. Note that selecting the "**Reset**" button resets the search criteria to the default search criteria (the first two letters of the Water System ID) and clears the grid. To run another search, go back to step 3 above.

7.2.1 Authorizations

- Users (all roles) associated with a laboratory, water system, or state laboratory should be able to search all samples within their organization.
- Users associated with a state will be able to search samples (data restrictions apply).

7.2.2 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Operational Sample Type	Data elements used to search for an	-	None	-
Search Criteria	Operational Sample Type record			

Code	Label	Description	R/O /CR	Format	Validations	Additional Designations
SIS-23	Water System ID	Water System ID	0	List [WS ID– Name]	List of values: List of all water systems user has access to	-
SIS-23.1	Water System Name	Water System Name corresponding to ID entered	-	Read- Only Text	-	-
SIS-24	Facility	Facility related to the sample	0	List [WSF ID – WSF Name]	List of values: List of all Water System facilities within the water system selected in SIS-23	-
SIS-24.1	Job ID	ID assigned to the Job	0	Numeri c	-	-
SIS-25	Job Status	Status of the Job (e.g., Draft with Preparer)	0	List	List of values: Validation in Progress Draft with Preparer Draft with Reviewer Draft with Certifier Submitted Accepted by State Validation Failed	-
SIS-26	Monitoring Period Month(s)	Month(s) of monitoring period	0	List	List of values: January to December Q1, Q2, Q3, Q4	-

SIS-27	Monitoring Period - Year	Year of the monitoring period	0	List	List of values: 2011 to current year	-
SIS-28	Operation al Sample Type	Category of the operational sample (e.g., CFE Turbidity)	0	List	CFE Turbidity IFE Turbidity Chlorine Dioxide, Chlorine Chloramine entering DS Chlorine Chloramine in DS LCR WQP Total Organic Carbon TTHM and HAA5 Ozone Treatment (Bromate)	-

Group	Description	R/O/CR	Validations	Additional Designations
Operational Sample Types Results Table	Table where search results are displayed	-	None	-

Code	Label	Description	R/O/ CR	Format	Validations	Additional Designations
SIS-29	Job ID	ID assigned to the Job	-	-	-	-
SIS-30	Water System	Water system ID related to the sample	-	-	-	-
SIS-31	Water System Name	Water System Name corresponding to the ID entered	-	-	-	-
SIS-32	Facility	Facility related to the sample	-	-	-	-
SIS-33	Job Status	Status of the Job (e.g., Draft with Preparer)	-	-	-	-
SIS-34	Reporting Period Month(s)	Month(s) of the monitoring period	-	-	-	-
SIS-35	Reporting Period Year	Year of the monitoring period	-	-	-	-
SIS-36	Operational Sample Type	Category of the operational sample (e.g., CFE Turbidity)	-	-	-	-

8 SYSTEM ADMINISTRATION

This system module, accessible to System Administrators, allows State CMDP Administrators to manage Change Requests. Additional System Administration functionality may become available in future versions of CMDP.

8.1 **MANAGE RECEIVED PROFILE CHANGE REQUESTS**

State CMDP Administrators can either accept or reject Profile Change Requests submitted by laboratories or water systems.



8.1.1 **Process Definition**

Figure 87 - Profile Change Request Process

Above depicts the Profile Change Request Process (Figure 87).

Profile Change Requests are created and submitted by either Water System Administrators (for Water System Profile Change Requests) or Laboratory System Administrators (for Laboratory Profile Change Requests). The State CMDP Administrator should review the Profile Change Request and determine whether the changes need to be made in his or her compliance system (e.g., SDWIS State).

A Profile Change Request can be in one of the following status categories:

- **Pending**: A pending Profile Change Request is a request created by the Water System Administrator or the Laboratory Administrator that needs to be processed by the State CMDP Administrator.
- Accepted: An accepted Profile Change Request is a request that has been received and accepted by the State CMDP Administrator.
- Rejected: A rejected Profile Change Request is a request that has been received and rejected by the State CMDP Administrator.

ystem Administration Manager	ment								
avigation Pane	Change Requ	uest							_ 0
Change Request Manage	Change Re	equest							
Change Request	a Refresh								
	ID	Profile ID*	Profile Modules*	Action*	Description	Created By	Created On	Status	
	344	X1LAB001	Laboratory Contacts	Edit	Change the lab POC to Brianna Knoppow.	Trang Le	05/01/2017	Accepted	
	362	X1LAB001	Laboratory Contacts	Add	Add Trang Le as lab contact	Brianna Knoppow	05/07/2017	Pending	
	346	X1LAB001	Basic Information	Add	Add Michael Plastino as contact	Brianna Knoppow	05/03/2017	Pending	
	345	X1LAB001	Laboratory Certifications	Add	Add the new Method Code 118 for AUTOMATED ELECTRODE (FLUORIDE)	Trang Le	05/01/2017	Pending	
	343	X1LAB001	Laboratory Contacts	Add	Add Deric Teasley as a contact	Brianna Knoppow	05/01/2017	Pending	
	322	X1LAB001	Basic Information	Edit	Include address. 1212 Constitution Ave,	Brianna Knoppow	04/25/2017	Accepted	
	323	X1LAB001	Basic Information	Add		Trang Le	04/26/2017	Accepted	
	324	X1LAB001	Basic Information	Edit	This is the test.	Trang Le	04/26/2017	Rejected	
	325	X1LAB001	Laboratory Certifications	Add	test2	Trang Le	04/26/2017	Pending	
	302	X1LAB001	Laboratory Contacts	Add	Add lab contact Emily Emerson as POC. 202-222-2222.	Brianna Knoppow	04/17/2017	Pending	

Figure 88 - Manage Profile Change Requests

- 6) Click the "System Administration" tab.
- 7) Click "Change Request" on the left Navigation Pane to view the Change Requests.
- 8) Double-click on a Change Request result to update the status (e.g., Pending, Accepted, or Rejected).

Notes:

- Only State Administrator Profiles are authorized to update Change Requests. PWS Profiles and Lab Profiles are not authorized to view the "System Administration" tab.
- Once a Profile Change Request is received by the CMDP State Administrator, it is important to modify the data in the state's compliance system (e.g., SDWIS State) according to the information provided in the request. Once that step is performed, the CMDP State Administrator can accept the request and the corresponding submitter will see the status of their request updated to Accepted..

8.1.2 Authorizations

- Only CMDP State Administrators will have access to manage Profile Change Requests.

8.1.3 Data Elements

Group	Description	R/O/CR	Validations	Additional Designations
Water System or Laboratory Change	Elements related to Laboratory or Water System Profile Change		None	
Request	Requests			

Code	Label	Description	R/O/ CR	Format	Validation s	Additional Designations
SYS-1	ID	Unique ID assigned to the Change Request	-	Read-only	-	-
SYS-2	Profile ID	ID of the entity related to the Change Request	-	Read-only	-	-
SYS-3	Profile Modules	Section of the Profile related to the Change Request	-	Read-only List of values for PWS Profiles: Basic Information, Other Contacts, Facilities, Sampling Points List of Values for Lab Profiles: Basic Information, Other Contacts, Certifications		-
SYS-4	Action	Action related to the Change Request	-	Read-only	-	-
SYS-5	Descripti on	Comment field related to the Change Request	-	Read-only	-	-
SYS-6	Created By	User who created the Change Request	-	Read-only	-	-
SYS-7	Created On	Date on which the Change Request was created	-	Read-only	-	-
SYS-8	Status	Status of the Change Request	R	List	List of values: Pending, Accepted, Rejected	-

Appendix: Running Release Notes

CMDP 1.27 - CY21R2 Production Release Notes

Enhancements and fixes made to CMDP in release 1.27 in the CMDP Production environment are listed below.

Note:

- Excel template users, please refer to the sections on Fixes and Known Issues below for specific details on updates to the CMDP templates and to Appendix A for information on the version numbers for the templates.
- This release does not contain a new DSE version release. The current version of the DSE is 1.23.

Enhancements

Method/Analyte Pairing

- Added one Method/Analyte Pairings to the database and the Sample Results template. See Appendix B. Users can now use these additional Method/Analyte Pairings when reporting sample results and searching for individual samples:
 - On the Search Individual Samples feature when searching for samples, users should be able to view and filter results by selecting the new Method/Analyte pairings.
 - When entering a sample result through the Sample Result Template, users should be able to view and select the new Method/Analyte pairings.
 - When entering a sample result through the Sample Result Web Form, users should be able to view and select the new Method/Analyte pairings.

User Interface

- Modified the read-only feature so that text can still be selected.
 - While viewing data in Read-Only mode (either by role or job status):
 - Full capability to select text in Google Chrome
 - Microsoft Edge requires user to double-click on text to select
 - Due to a bug in Mozilla Firefox, text selection does not work
 - Text cannot be selected using Internet Explorer

Templates

- Change the LCR WQP template to allow for more than 31 Entry Point or Distribution System results to be entered and submitted to CMDP.
 - CMDP previously allowed over 31 results, but the template was limited to 31.
- Freeze Panes were removed from both the Sample and Operational Data templates.

Fixes

User Interface

- Fixed and issue where vertical scroll bars were not always visible, prohibiting the user from seeing all results entered.
- Fixed and issue where a Individual Sample Search would not display the Sample Type if it was a Cryptosporidium sample.

Sample Migration to SDWIS State

• Fixed an issue where the XML file generated for cryptosporidium data was not properly formatted, preventing successful cryptosporidium data migration into SDWIS State.

Template

• Fixed an issue where the XML file generated by the Samples template was not including the template version and date in the comments at the top of the XML file.

Known Issues

- If a microbial sample contains results for 3100 (Coliform (TCR) and 3001 (Heterotrophic Bacteria (HPC or SPC)) the sample will not successfully migrate into SDWIS State
 - In order to successfully migrate 3001 results into SDWIS State, the sample must not contain a result for 3100.

Data Synchronization Engine (DSE)

Fixes

• No new release.

Enhancements

• No new release.

Known Issues

• No new release.

Appendix A – Microsoft Excel Template Version Information

The version number for the Sample Results template that corresponds with this release is v2.039, dated February 10, 2021. The version number for the Sample Results template is found on the upper right of the Microbiological sheet, Rows 1-3/Columns U-W as shown below in Figure 1.

The version number for the Operational Data template that corresponds with this release is v2.0.26, dated February 11, 2021. The version number for the Operational Data Template is found on the upper right of the CFE Turbidity sheet, Rows 1-3/Columns U-W as shown below in Figure 2.

Figure 1 – Sample Results Template Versioning Information

Microbiological Samples							Version:		2.039		
								Last Updated February 1 * - Indicates Required Field		February 10, 2021 Field	
											Ē
ist)											
Repeat Location	Original Sample ID [*]	Original Reporting Lab.ID	Original Collection Date	Comment	Sample Collector Name	Analyte ^{•f} [Code - Name]	A/P* ^f	Count	Units*	Volume (ML) *	Ir

Figure 2 – Operational Data Template Versioning Information

dity				Version:	2.0.26
				*- Indicates Required Field	- corroly 10,20051
	Generate XML				

Appendix B. – Method/Analyte Pairing Updates

The following Method/Analyte pairings were added or restored to the CMDP Production database and were added to the Sample Results template as part of this release. The version number for the Sample Results template is v2.039, dated February 10, 2021.

Method	Method Name	Analyte	Analyte Name	Analyte
Code		Code		Туре
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2110	2,4,5-TP	CHEMICAL
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2105	2,4-D	CHEMICAL
				WATER
2320B	TITRIMETRIC	1928	ALKALINITY, BICARBONATE	QUALITY
				WATER
2320B	TITRIMETRIC	1929	ALKALINITY, CARBONATE	QUALITY
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2031	DALAPON	CHEMICAL
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2041	DINOSEB	CHEMICAL
			HETEROTROPHIC BACTERIA	
9215E	SIMPLATE	3001	(HPC OR SPC)	ORGANISM
	PESTICIDES, CARBAMATES,			ORGANIC
531.1	HPLC, POSTCOL	2024	METHIOCARB	CHEMICAL
				ORGANIC
531.2	531.2	2024	METHIOCARB	CHEMICAL
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2326	PENTACHLOROPHENOL	CHEMICAL
	ACIDS, CHLORINATED, GC,			ORGANIC
515.4	ELCAPDET	2040	PICLORAM	CHEMICAL
	TOTAL DISSOLVED SOLIDS DRIED		RESIDUE, TOTAL,	WATER
2540C	AT 180 DEG C	1057	FILTERABLE	QUALITY

The version number for the Sample Results template is found on the upper right of the Microbiological sheet, Row 1/Column U-W as shown below in Figure 2.

Figure 2 – Sample Results Template Versioning Information

Microbiological Samples							Version:		2.039		
								Last Updated February 10, 2 - Indicates Required Field		Field	Ľ
ist)											
Repeat Location	Original Sample ID ⁺	Original Reporting Lab.ID	Original Collection Date	Comment	Sample Collector Name	Analyte* ^f [Code - Name]	A/P* ^f	Count	Units*	Volume (ML) *	Ir