Compliance Monitoring Data Portal (CMDP)

South Carolina Department of Health and Environmental Control

Healthy People. Healthy Communities.

CMDP Overview

- The CMDP is a web-based data reporting system …purpose is to enable laboratories and public water systems to **electronically report compliance sample results**

Why CMDP?

- Improve efficiency
- Reduce errors
- Ensure complete entries
- Decrease reporting burden
- Reduction of overall costs
- Improved customer service
- Improve compliance decision making
- **Ensuring the safety of drinking water across the State with improved analysis and timely notifications**

CMDP – Data Upload – How?

- 3 options to upload data
  - Excel CMDP Sample Template – produces an XML file to upload
  - Sample Data Entry Webform
  - Web Services – LIMS systems “talks” directly to CMDP Web Services

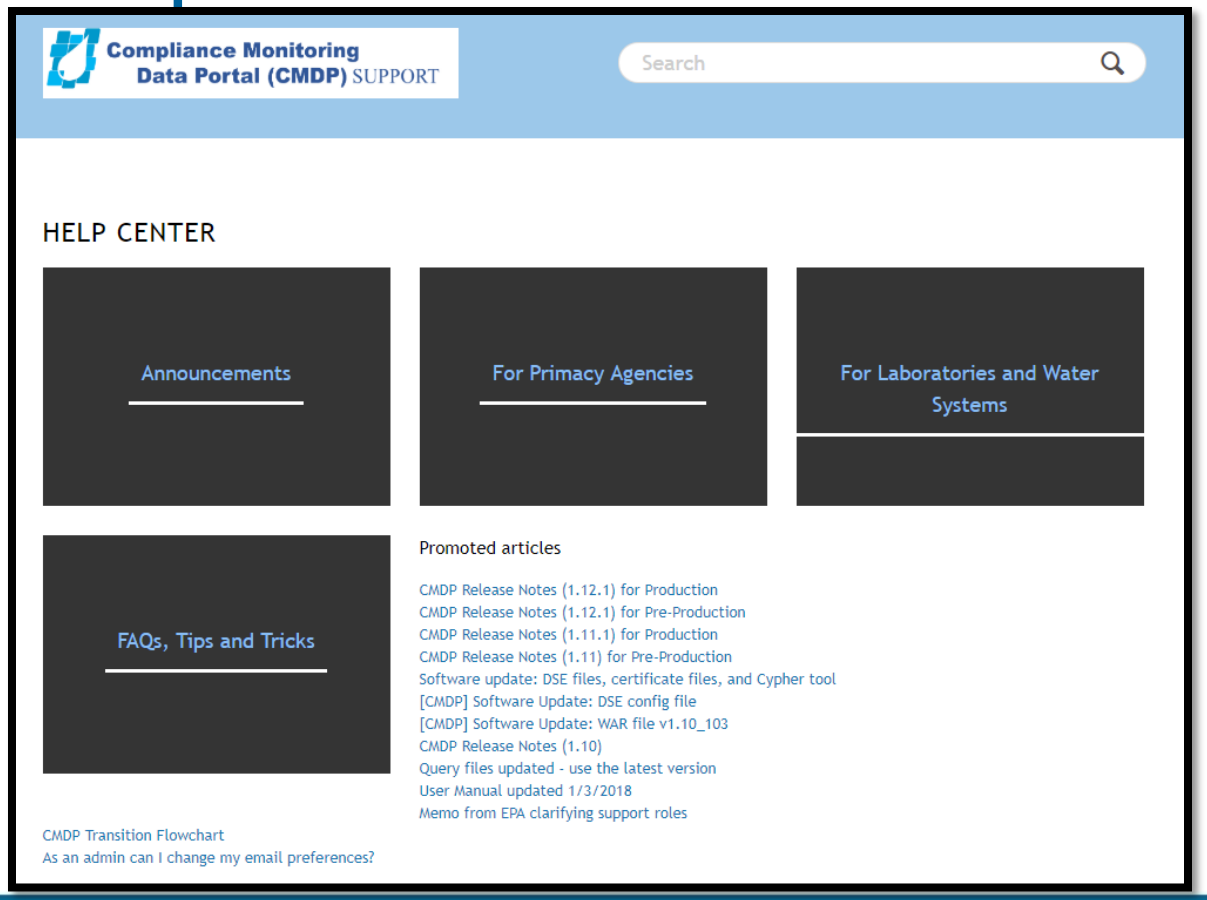
What's an XML file?


```xml
<?xml version="1.0" encoding="UTF-8" standalone="true"?>
- <SDWIS:MDBPSummaries xmlns:SDWIS="http://www.epa.gov/sdwis">
  - <SDWIS:MDBPSummaryDetails>
      <SDWIS:RecordID>1</SDWIS:RecordID>
      <SDWIS:SummaryTypeCode>MRDL</SDWIS:SummaryTypeCode>
      <SDWIS:PWSIdentifier>SC2310001</SDWIS:PWSIdentifier>
      <SDWIS:PWSFacilityIdentifier>DS23-1</SDWIS:PWSFacilityIdentifier>
      <SDWIS:AnalyteCode>0999</SDWIS:AnalyteCode>
      <SDWIS:MonitoringPeriodBeginDate>2020-09-01</SDWIS:MonitoringPeriodBeginDate>
      <SDWIS:MonitoringPeriodEndDate>2020-09-30</SDWIS:MonitoringPeriodEndDate>
      <SDWIS:ReportedDate>2020-10-06</SDWIS:ReportedDate>
      <SDWIS:SamplesRequiredQuantity>180</SDWIS:SamplesRequiredQuantity>
      <SDWIS:SamplesCollectedQuantity>185</SDWIS:SamplesCollectedQuantity>
      <SDWIS:LevelComplianceIndicator>N</SDWIS:LevelComplianceIndicator>
    - <SDWIS:MonitoringPeriodAverage>
        <SDWIS:MeasurementValue>2.35</SDWIS:MeasurementValue>
        <SDWIS:MeasurementUnit>MG/L</SDWIS:MeasurementUnit>
      </SDWIS:MonitoringPeriodAverage>
  </SDWIS:MDBPSummaryDetails>
</SDWIS:MDBPSummaries>
```

What type of data does DHEC want to receive from our water systems and labs?

- Microbiological:
  - Total coliform and its associated Total Chlorine Residual Reading
  - E. coli
- Operational parameters:
  - Chlorine Chloramine in Distribution System (MRDL)

CMDP Support at https://cmdp.zendesk.com/hc/en-us



For Labs and Water Systems

Getting Started with CMDP

- Introduction to the CMDP (video 1)
- CMDP Role Registration User Guide
- System Requirements and Qualifications for Laboratories and Water Systems
- CMDP Support Primacy Agency Points of Contact
- CMDP User Registration (video 10)

Using CMDP for Labs & Public Water Systems (PWS)

- CMDP User Manual v 1.4.1
- Creating and Submitting a Water System Profile Change Request
- Entering PWS and Lab Profiles (video 3)
- Using Data Entry Screens to Enter Microbial, Chem, and Rad, Samples (video 4)
- Using Data Entry Screens to enter Composite Samples (video 5)
- Using Data Entry Screens to enter Operational Data (video 6)

See all 9 articles

Technical Documentation

- Sample Result XSD
- EXCEL Templates (download here)
- CMDP Web Services Sampling XML Schema Definitions
- CMDP Web Services Inventory and Lab Data Dictionary
- CMDP Inventory and Laboratory JSON Structure

Using CMDP with Your Laboratory Information Management System

- CMDP - LIMS Interface Control Document

For Labs and Water Systems

Using CMDP For Labs & Public Water Systems (PWS)

Instructions and training videos for using CMDP as an administrator, submitter, and certifier representing water systems and laboratories.

- CMDP User Manual v 1.4.1
- Creating and Submitting a Water System Profile Change Request
- Entering PWS and Lab Profiles (video 3)
- Using Data Entry Screens to Enter Microbial, Chem, and Rad, Samples (video 4)
- Using Data Entry Screens to enter Composite Samples (video 5)
- Using Data Entry Screens to enter Operational Data (video 6)
- Searching Samples (video 7)
- Manually Uploading Files Using CMDP Templates (video 8)
- Submission Workflow (submitting jobs to primacy agencies) (video 9)

Anticipated End Users:

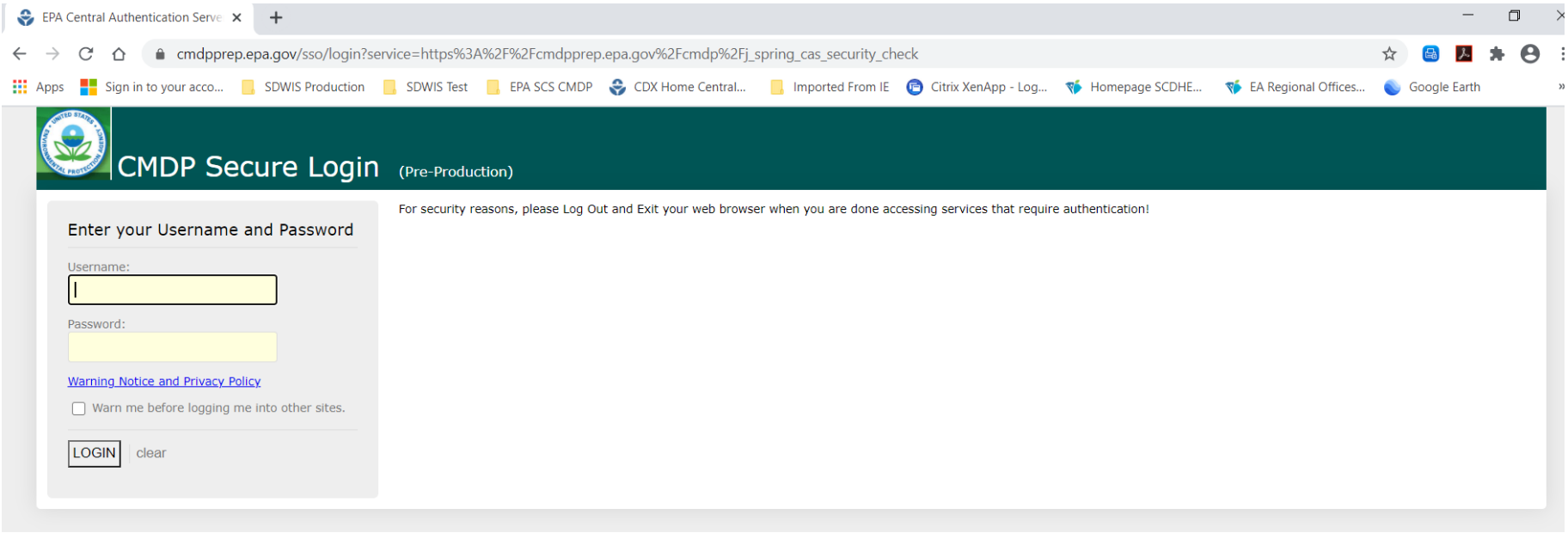
- Public Water Systems –reporting monthly bacteriological results and monthly distribution residuals
- Microbiological Labs Certified in South Carolina reporting monthly bacteriological results

Access to SC CMDP

- Email fullerma@dhec.sc.gov
- You will receive an email inviting you to complete registration with EPA's Shared CROMERR Services for Test
- Once approved, log in to CMDP Test Environment and begin testing
- If testing proves successful and accurate, graduate to EPA's Shared CROMERR Services for Production

Reporting Monthly Residual in Distribution

https://cmdpprep.epa.gov/sso/login?service=https%3A%2F%2Fcmdpprep.epa.gov%2Fcmdp%2Fj_spring_cas_security_check



Log In – Notice “Hello” & Organization

Change Working Organization
SC - South Carolina

Templates
Download

Change Working Organization
SC - 40201 - SC DHEC BEHS A...

Templates
Download

Templates
Download
Sample Results
Operational Data

Hello Mary Fuller(State CMDP Administrator)
(ORG: *SC-South Carolina*)

Sample Results Template

Version: 2.035
Last Updated June 29, 2020
* - Indicates Required Field

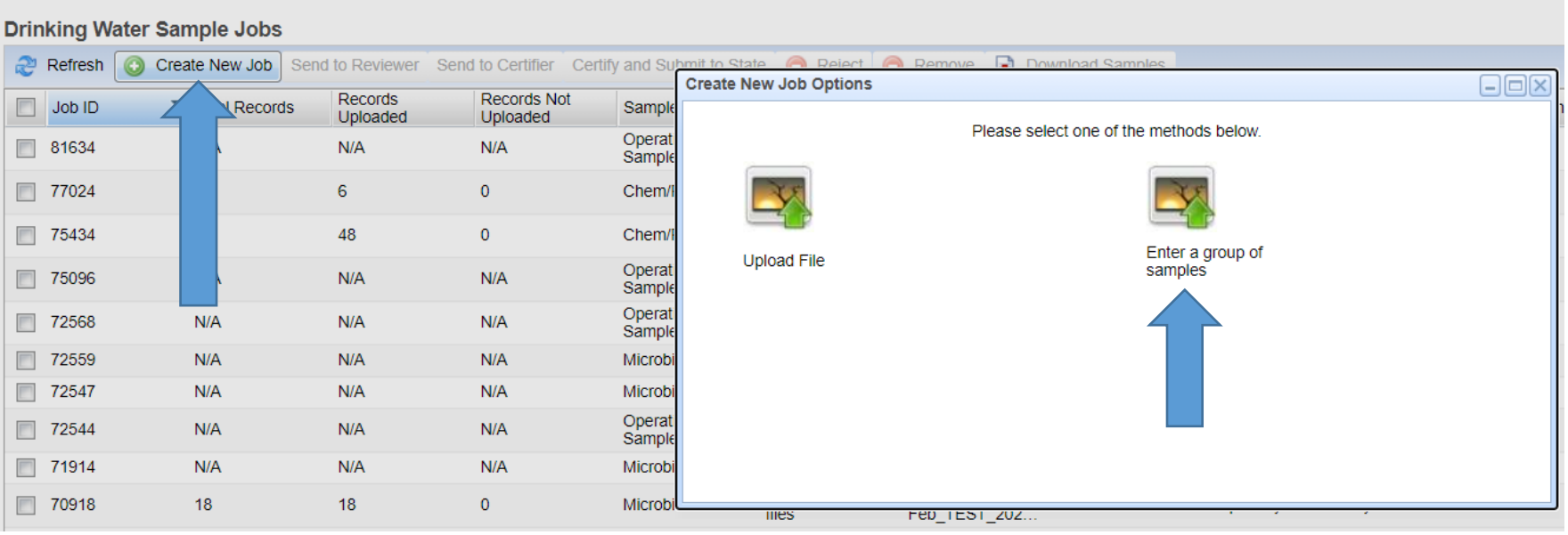
Operational Data Template

Version: 2.0.21
Last Updated December 30, 2019
* - Indicates Required Field

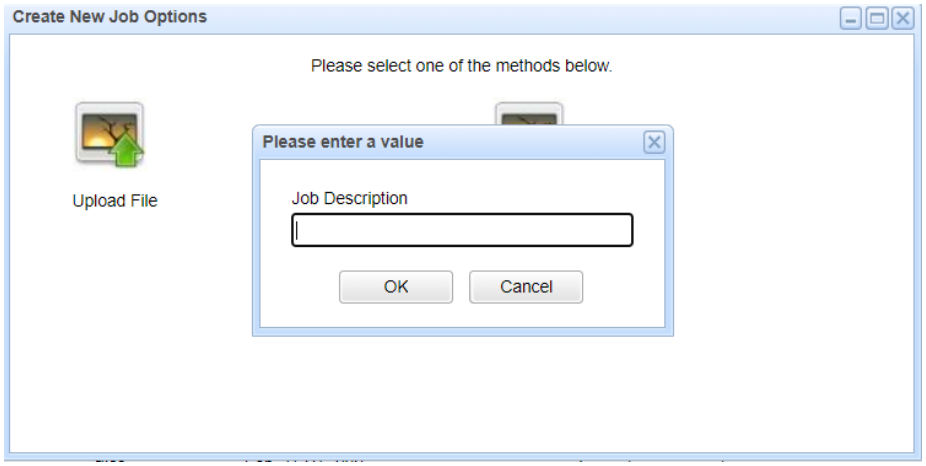
“Enable Editing” – “Enable Content”

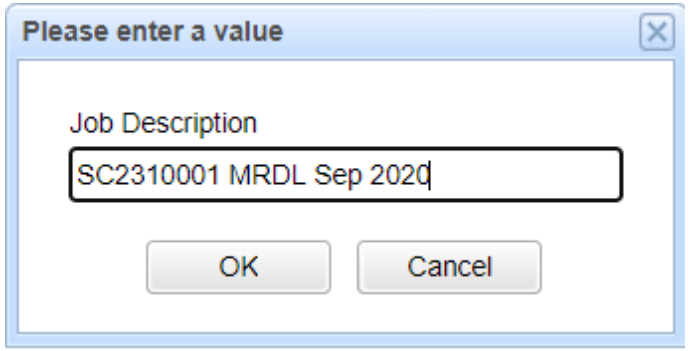
Select Drinking Water Sample Jobs

Create New Job – Enter a group of samples

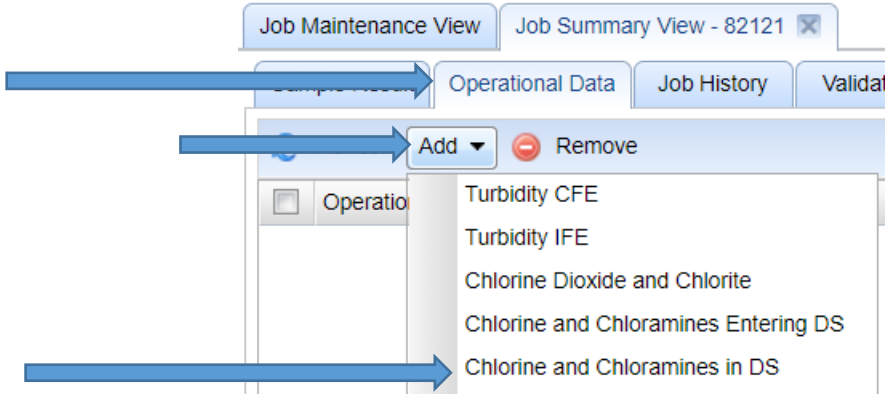


Enter a Value for Job Description

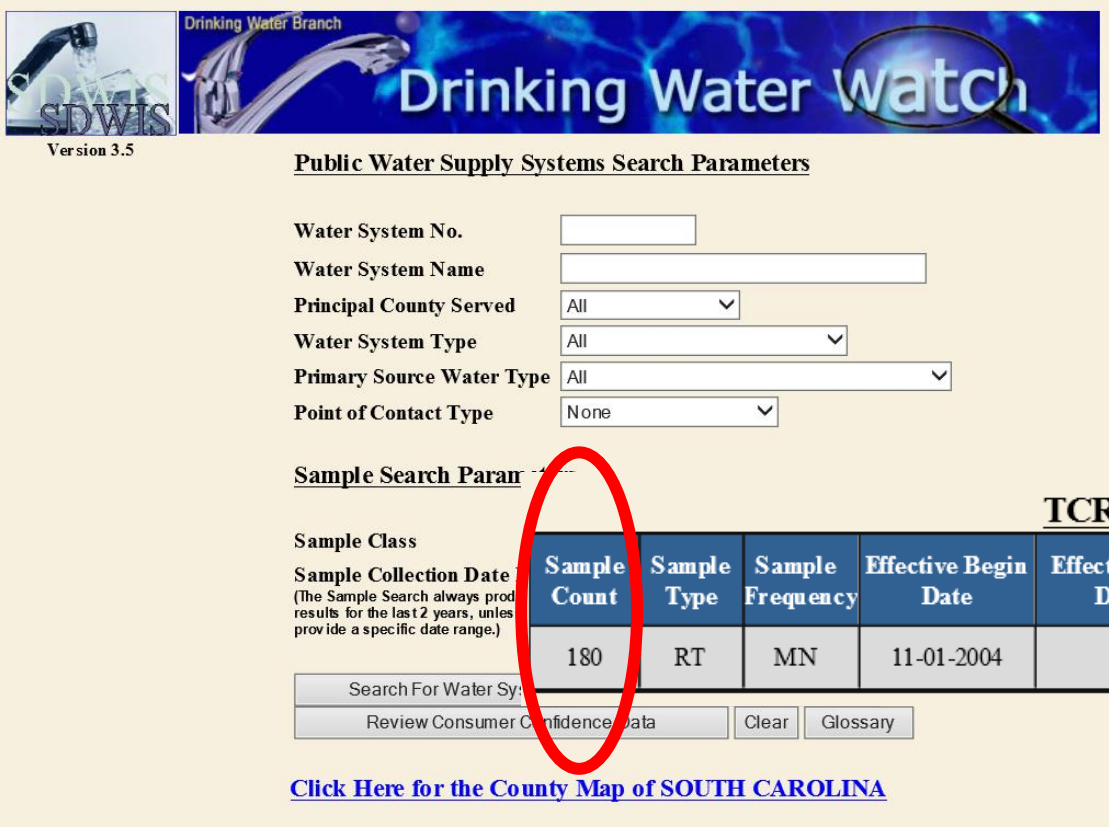




Here we go!!



Drinking Water Watch (DWW) = Your Friend and Ally



TCR Schedules

Sample Count	Sample Type	Sample Frequency	Effective Begin Date	Effective End Date	Seasonal Start MM/DD	Seasonal End MM/DD	Analyte Code	Analyte Name
180	RT	MN	11-01-2004		1/1	12/31	3100	COLIFORM (TCR)

Through DWW you can confirm the # of monthly bacteriological samples required and that requirement is the # of monthly total chlorine residual measurements

Enter Required Data noted by * and red font

Save Close

Operational Data - Distribution System Maximum/Minimum Residual Disinfectant Level

Residual Reporting Type* :	Water System *f :	Water System Name	Facility *f :
MRDL	SC2310001	GREENVILLE WATER (2310001)	DS23-1 - 10286 - DISTRIBUTION

MRDL Measurements

MRDL Violation? f	Number of MRDL Measurements Required	Number of MRDL Measurements f	Monthly Average f
No	180	185	2.35

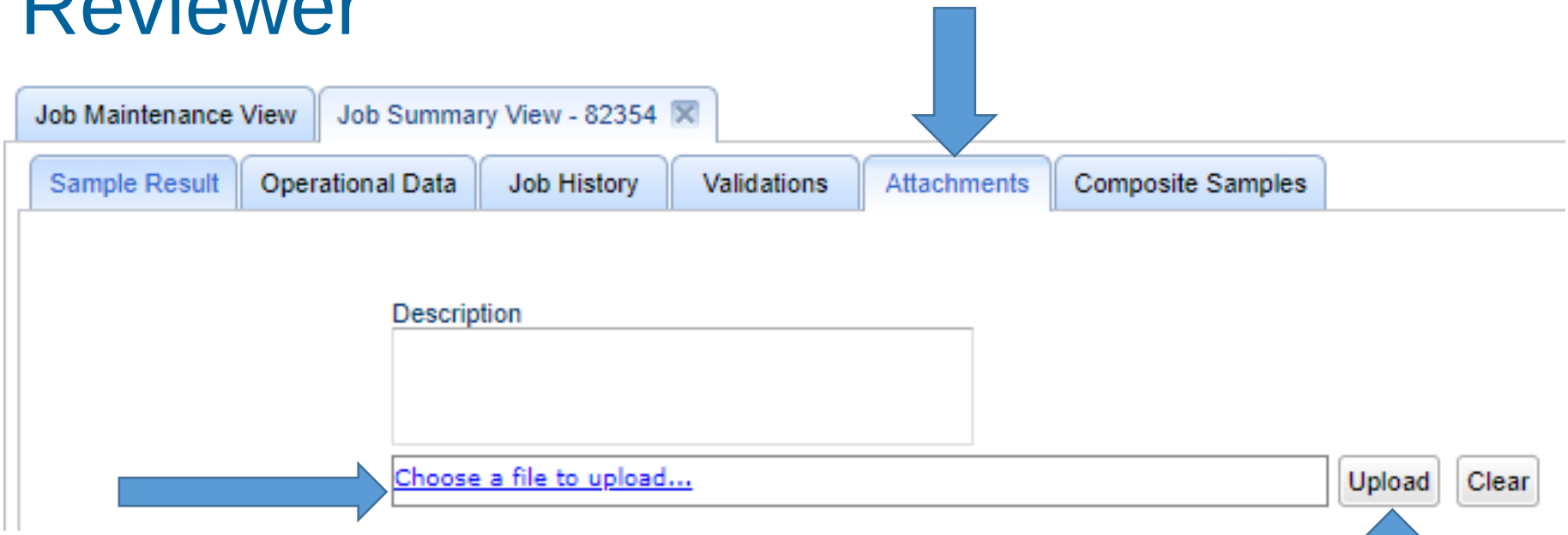
* - Required + - Conditionally Required f - Federally Required *f* - Federally Conditionally Required

Reporting Period *f :		Quarterly RAA f
Sep	2020	

*Water System
*Facility
*Reporting Period
MRDL Violation will prefill "No"
Number of MRDL Measurements Required
Number of MRDL Measurements
Monthly Average

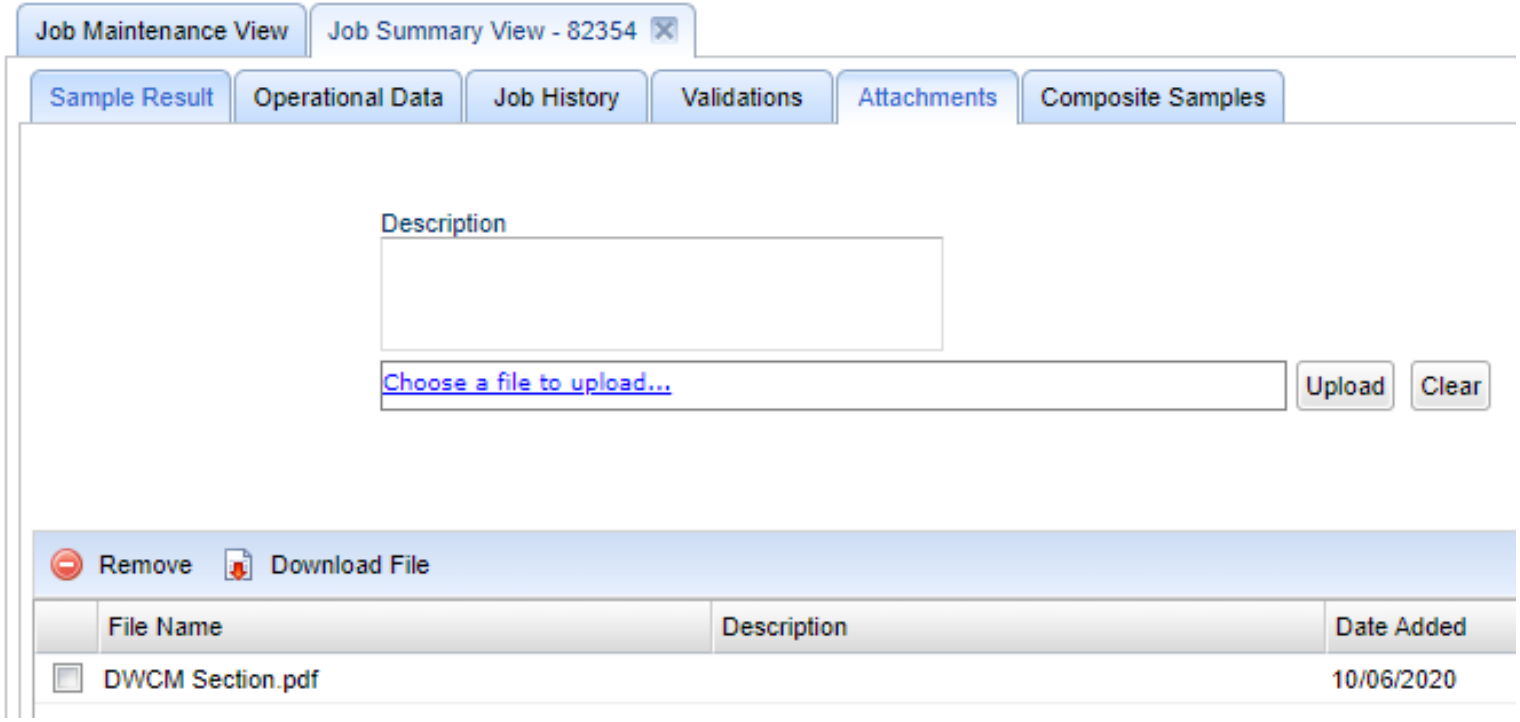
→ Save

Submitting an Attachment? – Create Job – Attach File BEFORE Submitting to Reviewer



Attachment format = Excel or PDF

Attachments can be removed and/or downloaded



Back to Home – check My Work in Progress

My Work In Progress

Job Id	File Name	Description	Created By	Created On	Status
82163		SC2310001 MRDL Sep 2020	Mary Fuller	10/05/2020	Draft with Preparer

Note Job ID assigned (*in this example, 82163, represents an earlier job*). **This Job ID is useful if problems arise with the submission and we need to investigate.**

Click on Job – Job Summary View Opens – Click on Validations

Job Maintenance View | Job Summary View - 82354

Sample Result | Operational Data | Job History | Validations | [illegible]site Samples

Federal Reporting Validation Results

Category	Sample Identifier	Validation Category	Error Description
Chlorine and Chloramines in DS	jobId=82354, wsId=SC2310001, facilityName=DISTRIBUTION, sampleType=Chlorine and Chloramines in DS, jobId=82354, wsId=SC2310001, facilityName=DISTRIBUTION, sampleType=Chlorine and Chloramines in DS, mntrgPeriodMonthValue=Sep, mntrgPeriodYear=2020	Federally Required or Conditionally Required	Missing Data for Fields [Quarterly Running Annual Average]

Error Description = Missing Data for Fields (Quarterly Running Annual Average) which is a type of Validation Category Federally Required or Conditionally Required. This file will upload. The missing RAA will be calculated by SDWIS State software after uploading. Close Summary View.

Drinking Water Sample Jobs – Select job and proceed with Review-Certify-Certify/Submit to State

Drinking Water Sample Jobs

Refresh | Create New Job | Send to Reviewer | Send to Certifier

Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category
82354	N/A	N/A	N/A	Operational Samples
81634	N/A	N/A	N/A	Operational Samples
77024	6	6	0	Chem/Radi...
75434	48	48	0	Chem/Radi...
75096	N/A	N/A	N/A	Operational Samples

Web entries will not “count” total records or records upload. Only XML data submitted will show a “count”.

Select your job – Send to Reviewer

Drinking Water Sample Jobs

Refresh | Create New Job | Send to Reviewer | Certify and Submit to State | Reject | Remove

Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status
82354	N/A	N/A	N/A	Operational Samples	SC2310001 MRDL Sep 2020		SC	Draft with Preparer

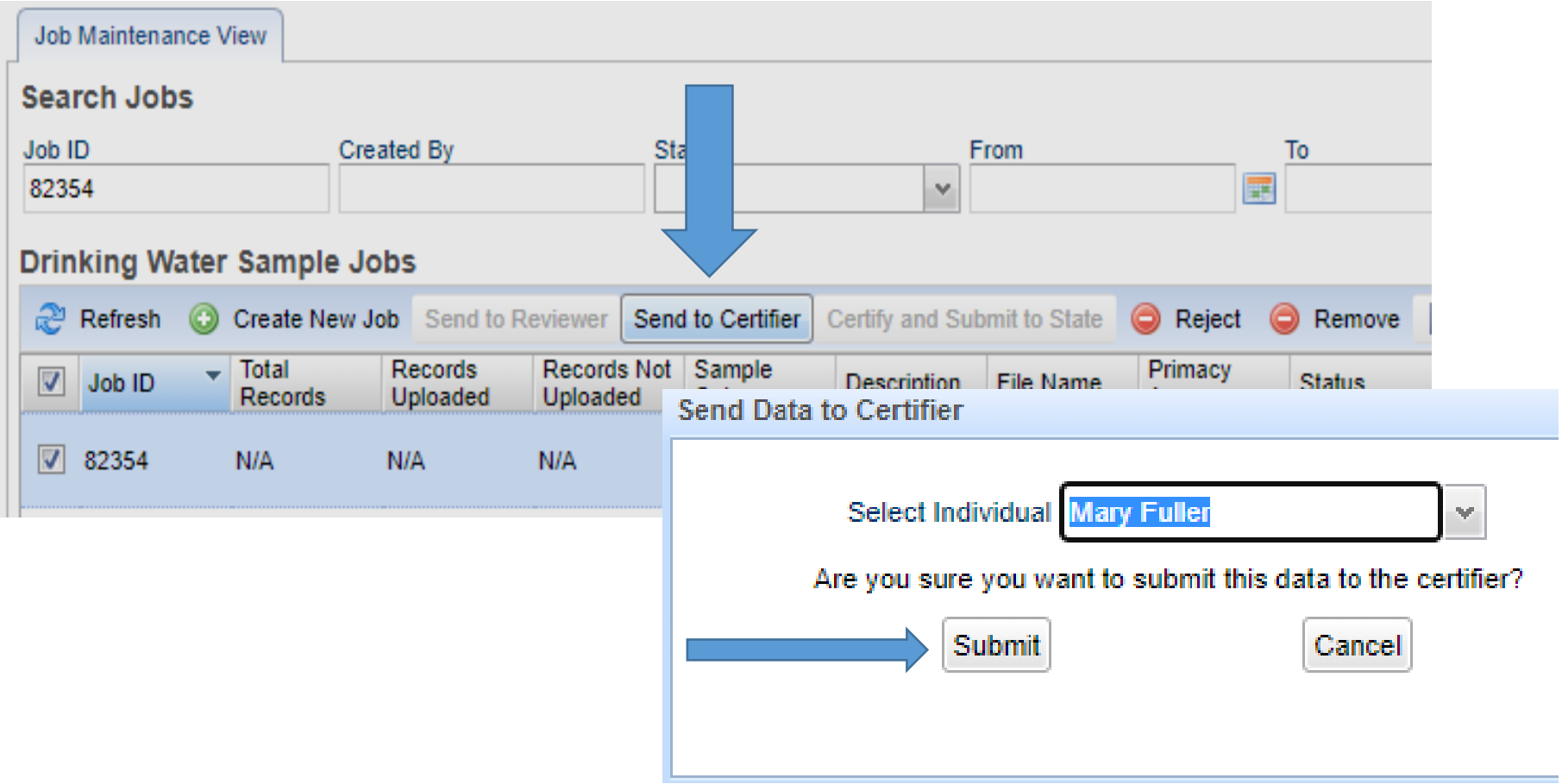
Send Data to Reviewer

Select Individual: Mary Fuller

Are you sure you want to submit this data for review?

Submit | Cancel

Send to Certifier



Send to Certify and Submit to State

Job Maintenance View

Search Jobs

Job ID	Created By	Status	From	To
82354				

Drinking Water Sample Jobs

Refresh | Create New Job | Send to Reviewer | Send to Certifier | Certify and Submit to State | Reject | Remove

Job ID	Total Records	Records Uploaded	Records Not Uploaded	Sample Category	Description	File Name	Primacy Agency	Status
82354	N/A	N/A	N/A	Operational Samples	SC2310001 MRDL Sep 2020		SC	Draft with Certifier

This final Certify and Submit to State requires a password and agreement to the conditions of submitting an electronic file.

Question

Job Id: 82354

Submission Context: Download Sample XML

Attachments

File Name	Description	Date Added	Added By
DWCM Section.pdf		10/06/2020	Mary Fuller

☑ I certify, under penalty of law that the information provided in this document is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Please ensure that you have reviewed all selected jobs before submitting. You will not be able to update the selected jobs after submitting them to the state.

Submit

DHEC's view of Job ID 82354

Dashboards

State Dashboards

Submission Received

Job Id	Organization	Description	Status	Sample Category	Certified By	Certified On	Attachments
82354	40201	SC2310001 MRDL Sep 2020	Submitted	Operational Samples	Mary Fuller	10/06/2020	DWCM Section.pdf
81634	40201	test op mrdl ds w attach					
80614	SC2310001	New Job using files					
77434	SC2310001	New Job using files					
77203	40004	New Job using files					
77199	40004	New Job using files					
77128	SC2310001	New Job using files					

Submissions (to State)

Job Id	File Name	Certified By	Certified On	Status
82354		Mary Fuller	10/06/2020	Accepted by State
81634		Mary Fuller	09/25/2020	Accepted by State
77024	CEG file_2020082...	Mary Fuller	08/25/2020	Accepted by State
75434	mysamples_...	Wendi Smith	08/18/2020	Accepted by State
75096		Mary Fuller	08/17/2020	Accepted by State
72568		Mary Fuller	07/30/2020	Accepted by State

Job 82354 starts as status "Submitted" and eventually moves to status "Accepted by State"

DSE – XML Upload – SDWIS State

Water System No.	WSF State Asgn ID	Monitoring Period Name	M/R Comp?	Level Comp?	Monitoring Per Avg
SC2310001	DS23-1	2020M09	YES	N	2.3500

Water System No.	WSF State Asgn ID	Monitoring Period Name	M/R Comp?	Level Comp?	Monitoring Per Avg
SC2310001	DS23-1	2020M09	YES	Y	2.3500

Date Reported: 10/06/2020

Number of Samples Required: 180

Number of Samples Taken: 185

M/R Complied ?: Yes

Monitoring Period Average: 2.3500 mg/L

Running Annual Average: 2 mg/L

SDWIS State software calculates the Running Annual Average

South Carolina Department of Health and Environmental Control
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CONTACT US

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