California Integrated Water Quality System (CIWQS)

Water Board User's Guide

(Chiroma Frime)	Wednesday, August 24, 2005
Welcome to CO	lifornia
Home	California Integrated Water Quality System (CIWQS)
Board Business	
Laws/Regulations	User ID:
<u>News/Media Info</u>	Password:
Regional Boards	Login Dischargers Register Here
Water Education	Forget your password? <u>Reset your password here.</u>
Water Quality	
Water Rights Water Boards	© 2005 State of California. <u>Conditions of Use</u> <u>Privacy Policy</u> This system is for official use only. Unauthorized use is prohibited.
State Water Resources Control Board 1001 I Street Sacramento, CA 95814 P.O. Box 100 Sacramento, CA 95812 (916) 341-5250 fax (916) 341-5252 <u>Contact Us</u>	

March 2006

CIWQS Help Center

If you encounter any difficulties with the CIWQS program, or have any questions regarding its function, please contact the CIWQS Help Center:

E-mail: ciwqshelp@waterboards.ca.gov

phone: 1-866-76-CIWQS

The CIWQS Help Center is a function of the CA administration.

California Integrated Water Quality System (CIWQS)

Water Board User's Guide

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Preface

The California Integrated Water Quality System (CIWQS) is a new computer system designed for the State and Regional Water Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities. CIWQS also includes an electronic Self-Monitoring Report (eSMR) tool for submission of monitoring reports via the Internet Web site. CIWQS is part of an overall effort to integrate several disparate legacy systems, compile water quality data, standardize permits, automate processes, and make data more accessible to Water Board staff, Dischargers, the public, and the US Environmental Protection Agency.

Initially, CIWQS will focus on supporting the National Pollutant Discharge Elimination System (NPDES) program and its requirements to submit monitoring reports for individual NPDES permit holders. The Internet-based eSMR tool is being deployed in a phased approach and became available to Dischargers operating within certain Water Boards in July 2005.

The purpose of this guide is to provide step-by-step instructions for performing tasks in CIWQS. This manual does not attempt to dictate or set policy for either the State or Regional Water Boards. New editions or amendments to this manual will be published as needed with future software updates.

The CIWQS Users Guide

This manual documents how to use CIWQS to report permit information and manage user accounts. It walks you through the entire process of submitting electronic Self-Monitoring Reports (eSMRs) step-by-step and provides information on where to find additional information if needed. This section is designed to introduce you to the *CIWQS User's Guide* so you can use it to find information quickly and effectively.

How This Manual Is Organized

This manual is divided into six parts. Each part represents a group of related tasks or actions that can be performed in CIWQS.

Part I – CIWQS Administration

This part describes how to register and log into the system. It provides an introduction to the CIWQS Modules and navigation within the CIWQS site. Part 1 also provides information on viewing and changing your personal information.

Part II – Data Entry: Places, Parties, and Regulatory Measures

This part provides step-by-step instructions for working with the *Places*, *Parties*, and *Regulatory Measures* Modules.

Part III – Data Entry: The eSMR

Part III offers step-by-step instructions on how to create and submit data for eSMRs and gives detailed information on how to upload data to CIWQS using both the Electronic Data Format (EDF) and the CIWQS Data Format (CDF).

Part IV – Enforcement

This part covers the three Modules related to enforcement: the *Create/Maintain Violations* Module, the *Create/Maintain Inspections* Module, and the *Create/Maintain Invoices* Module. It also revisits the *Regulatory Measures* Module and includes an overview and explanation of the Enforcement tab.

Part V – GeoWBS

This part covers the Geographic Information System (GIS)-based applications that work in concert with the CIWQS system. These features exist both within and outside the CIWQS Web-based interface. Information covered includes an introduction to the Geo Waterbody System (GeoWBS), the GeoWBS Navigator (accessed through the *Map It!* Module), the GeoWBS Online Editor, and the GeoWBS Desktop Editor (an ESRI ArcGIS-based application).

Part VI – System Administration

This part covers the CIWQS *System Administration* Module and takes a closer look at some of the other CIWQS features. Instructions are provided for how to create and maintain Users, and the *IDEF* Module is introduced and explained.

Appendixes

Appendix A provides information on the Error Checks used to produced the Error Check Reports for electronic Self-Monitoring Reports (eSMRs). Appendix B contains data tables listing the various CIWQS security functions. Appendix C provides information about and directions for the CIWQS Data Format (CDF) that is not covered in Chapter 4.

Conventions Used In This Guide

Throughout this guide, the icons and boxes shown below are used to highlight warnings, tips and additional information.

Icons and Alerts

Various icons are used throughout the manual to highlight warnings or information of note.



Warning: Notifies you when there is the potential for error or data loss. Indicates that special care should be taken.



Cross Reference: Indicates where additional information about a particular topic can be found in another section of the manual.



Tip/Note: Provides additional tips or points of interest.



Stop before proceeding: Indicates where special care should be taken to avoid errors or data loss.

Sidebars

Sidebars

In addition to the icons used throughout this guide, you will also notice material placed in shaded boxes. This material offers background information, an expanded discussion or a deeper insight about the topic being discussed.

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CIWQS Water Board User's Guide

Part I

CIWQS Administration

1 User Registration and Login2 Personal Information Module

1

User Registration and Login

This chapter addresses the following topics:

- How to register
- How to log into CIWQS
- How to navigate in CIWQS
- CIWQS Main Menu and Modules

1.1 User Registration

Before you can enter or use CIWQS, you must first register as a User. As a member of a State or Regional Water Board, you must be registered by a CIWQS System Administrator. You will not be able to self-register. To register as a CIWQS User, contact your local CIWQS System Administrator.

Registration provides you with a User ID, password, and access to information for the Facilities within your Region (if you belong to a Regional Water Board) or for all registered Facilities (if you are a member of the State Water Board).

CIWQS is a secure system accessed through a login screen where a User enters his or her unique User ID and password. Passwords should be protected to prevent unauthorized individuals from accessing sensitive information. Each User must register individually to obtain a User ID and password.

If you attempt to register for CIWQS through the login page (by clicking the "Register Here" button), you will be presented with the *New User* page (Figure 1.1).

Selecting the radio button next to the "I am a member of a California EPA Water Board" option and clicking the "Next" button will result in the following message:

"Please contact your CIWQS system administrator to register."

Click the "Cancel" button to return to the CIWQS login page.

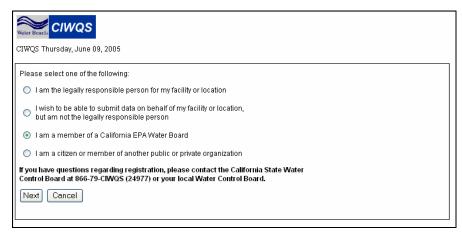


Figure 1.1 New User Page

When your registration is complete, you will receive a verification e-mail with a User ID and password. You will then be able to log into CIWQS at <u>http://ciwqs.waterboards.ca.gov</u>.

1.2 Login and the CIWQS Interface

The following sections provide information on how to enter and navigate through the CIWQS interface.

1.2.1 How to Log into CIWQS

CIWQS can be accessed through the State Water Resources Control Board's Web site at <u>http://ciwqs.waterboards.ca.gov</u> (Figure 1.2).

(California Hidne)	Wednesday, August 24, 2005
Welcome to CC	alifornia
Home	California Integrated Water Quality System (CIWQS)
Board Business	
Laws/Regulations	User ID:
News/Media Info	Password:
Regional Boards	Login Dischargers Register Here
Water Education	Forget your password? Reset your password here.
Water Quality	
Water Rights	

Figure 1.2 CIWQS Login Page

This page allows you to authenticate your identity by entering your User ID and password. This step is required to access all system functions. Each User is provided a unique User ID and password by the System Administrator. If you do not yet have a password, you must first register to become a new User.



If you have problems logging in, check your User ID and password information and make sure that the Caps Lock on your keyboard is off. User IDs and passwords are casesensitive. If you continue to have problems, contact your local System Administrator.

Forgotten Password

If you have forgotten your password, click the "Reset your password here" link on the *CIWQS Login* page. This will take you to the *Reset Password* page (Figure 1.3).

Water Boards
CIWQS Thursday, August 25, 2005 Please enteryour CIWQS User ID and click the Get Password button:
CIWQS User ID:+ Get Password Cancel

Figure 1.3 Reset Password Page

Type in your User ID and click "Get Password". You will receive an email message with your password information. Click "Cancel" to exit this page and return to the *CIWQS Login* page.

CIWQS Main Menu

Once you have successfully logged into CIWQS, you will arrive at the CIWQS Main Menu (Figure 1.4).

	Menu Help Log ou Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out
Main Menu	
 Submit/Review a Self Monitoring Repi 	ort (SMR)
Run Reports	
 View/Change My Personal Information 	1
Create/Maintain Places	
Create/Maintain Parties	
Create/Maintain Regulatory Measures	
Create/Maintain Violations	
Create/Maintain Inspections	
Create/Maintain Invoices	
GeoWBS Online Editor	
 Map It! 	
 Administer System 	
 <u>SSO</u> 	

Figure 1.4 CIWQS Main Menu (for a System Administrator)

1.2.2 CIWQS Main Menu: Introducing the Modules

The CIWQS Main Menu serves as the centerpiece of the system, providing access to key functions. It is the first page you see when you initially log into CIWQS and whenever you select the "Menu" hyperlink at the top of the page. The Main Menu is designed to be "action-oriented" and to provide easy access to the tasks you will need to perform.

The options visible on the Main Menu reflect the organization of the database that supports the CIWQS site. The database and, by extension, the Main Menu are organized into Modules, or groups of tasks. Each Module allows you to perform certain functions within the system.

You will have access to the following Modules:

<u>Submit/Review a Self Monitoring Report (SMR)</u> This Module allows a Legally Responsible Person (LRP) or an authorized consultant to submit an electronic Self-Monitoring report (eSMR).

<u>Run Reports</u>. This Module contains links to the CIWQS reporting options.

<u>View/Change My Personal Information</u>. This Module allows you to access your system profile, change your password, and request additional changes to your User profile.

<u>Create/Maintain Places</u>. This module allows you to manage information about Facilities and other Places.

<u>Create/Maintain Parties</u>. This Module allows you to manage information about Agencies and other Parties (organizations and people).

<u>Create/Maintain Regulatory Measures</u>. This Module allows you to create and maintain information on Regulatory Measures such as Permit Orders, Enforcement Orders, and Enforcement Actions.

<u>Create/Maintain Violations</u>. This Module allows you to create and maintain information about Permit and Order Violations.

<u>Create/Maintain Inspections</u>. This Module allows you to manage information about Inspections.

<u>Create/Maintain Invoices</u>. This Module allows you to track Invoices and payments against Invoices.

<u>GeoWBS Editor Module</u>. This Module provides access to the GeoWBS Online Editor, where information regarding water body attainment status can be recorded. <u>Map It!</u> This link provides access to the GeoWBS Navigator. The Navigator allows you to view geographic data for California and print related reports.

<u>Administer System</u> Only System Administrators will have access to this Module.

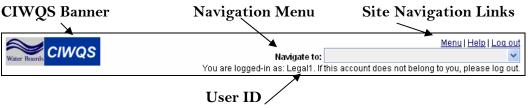
<u>SSO</u> This Module opens a new instance of CIWQS in a new window.

1.2.3 CIWQS Navigation

The CIWQS interface contains several standard features to aid in navigation.

CIWQS Header

The CIWQS header is present on every page of the CIWQS site (Figure 1.5). It is designed to aid in site navigation and provide links to the CIWQS Main Menu and CIWQS Help.





CIWQS Banner

- Shows the CIWQS logo along with the Water Boards' logo.
- Links Users back to the CIWQS Main Menu.

Navigation drop-down Menu

- Allows you to select one of the Modules.
- Selecting a Module automatically takes you to the first page of that Module.

Site Navigation Links

- Menu. Returns you to the Main Menu from any page in the system
- Help. Opens a PDF version of this guide in a new window.
- Log out. Logs you out of CIWQS and returns you to the login page.

User ID

• Tells you what User ID was used to log into the system.

Pop-up Windows in CIWQS

CIWQS uses pop-up windows in several of the Modules. A pop-up link (triggered by selecting a function or a Web address hyperlink) opens a new window in your browser using a program called JavaScript. It is possible that your Web browser has disabled JavaScript. If this is the case, you might have problems viewing the pop-up windows and their content.

Most browsers will alert you with an error message if JavaScript is disabled. If you have problems viewing pop-ups, re-enable JavaScript on your computer or contact your help desk to find out how to view pop-up windows on your computer.

Personal Information Module

This chapter addresses the following topics:

- How to change your password
- How to change your personal information
- How to add a related Facility
- How to make additional changes

2.1 The Personal Information Module

The *View/Change My Personal Information* Module serves four functions. It allows you to:

- 1. Change your CIWQS password
- 2. Request the addition of a related Facility
- 3. Request additional changes (such as the addition of a related Party or changes to your User ID)

Changes made to your password result in immediate updates to the information stored in the system. All other changes, such as the addition of a related Party or Facility, are made by System Administrators after a request has been submitted and reviewed.

To access this Module, select the *View/Change My Personal Information* Module from the Main Menu after logging into CIWQS. You will be presented with the *View/Change My Personal Information* page (Figure 2.1). When you open the page, it will show the information currently stored in the system.

Wester Boards CIWQS				<u>Menu Help Log out</u>
Water Boards	You are logged-	Navigate to:	this account does	not belong to you, please log out.
View Change Baroon		in do. denio. ii	ino account acco	not belong to you, piedde log out.
View Change Person	armonnauon			
User ID:	demo			
Change Password	1			
My Name:	5			
Prefix:	Mr. 🗸			
First Name:	Demo			
Middle Name:				
Last Name:	Demo			
Suffix:	~			
My Address:				
Street Number:				
Street Name:				
Apt.:				
City:				
State:	California 🗸 🗸			
Zip Code:				
My Phone Number:				
My Fax Number:				
My Email Address:	aravind.elango@tetrate			
My Related Parties (Organiz				
My Related Parties (Organiz	Name	Туре	How Related	
Lahontan Regional Water Q	uality Control Board, Victorville Office	Organization	Is Employed By	
My Related Facilities:				
Name	Address	How	Related	
3M AUTO WRECKERS	1726 SMITH, SAN JOSE, CA 95112	is onsite mar	nager for	
FOURMILE HILL DRILLING	GLASS MOUNTAIN, WEED, CA 96094	Pending-is or	nsite manager for	
Request Another Fac	cility			
Request Another Ch	ange			
Save Changes				
]

Figure 2.1 View/Change My Personal Information Page

2.1.1 Changing Your Password

At the top of the page is your User ID. Directly below this is the "Change Password" button. Clicking this button takes you to the *Change User Password* page (Figure 2.2).

Water Board CIWQS	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out.
Change User Password	
Username: ciwqs	
New Password: *:]
Confirm New Password:*:]
Save Cancel	

Figure 2.2 Change User Password Page

To change your password, type a new password into the *New Password* field and verify your new password by retyping it into the *Confirm New Password* field.

Choosing a Password

The password you choose must conform to the rules set by the system. The password must have at least 7 characters (and no more than 16), and must contain a combination of lowercase letters, uppercase letters, and numbers. All of these elements must be present in the password. For example, "a2Hlkj4" is acceptable, but "aBcDeFg" and "1234567" are not acceptable. Typing a password that does not meet these rules and clicking the "Next" button will result in a registration error.

Click "Save" to save this information and return to the *View/Change My Personal Information* page. Click "Cancel" to return to the *View/Change My Personal Information* page without changing your password.

2.1.2 Changing Your Personal Information

The editable fields on the *View/Change My Personal Information* page contain your personal information. This information includes

- Name information (only certain Users have the ability to change name information)
- Address information (street number, street name, apartment, city, state, ZIP code)
- Phone number
- Fax number
- E-mail address

To change any of the information, simply type in your corrections and click the "Save Changes" button at the bottom of the page.

The "Save Changes" button saves only changes related to your personal information. New password information is saved through the *Change User Password* page.

2.2 Related Facilities and Parties

The *View/Change My Personal Information* page also shows your related Parties (Organizations and People) and related Places (Facilities). This information is displayed in the tables at the bottom of the page.

The table entitled "My Related Parties (Organizations and People)" lists the name, type, and your relationship with ("How Related") each Organization or Person to which you are related.

The table entitled "My Related Facilities" lists the facilities for which you are a case manager.

The *How Related* field indicates your relationship with the Party or Place.

2.2.1 How to Add a Related Facility

To request the addition of a related Facility, click the "Request Another Facility" button at the bottom of the page. You will be taken to the *Request Another Facility* search page (Figure 2.3).

	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out.
CIWQS Wednesday, May 11, 2005	
Request Another Facility:	
I'd like to request access to data for the following f	acility:
Next	

Figure 2.3 Request Another Facility Search Page

Type in the name (or part of the name) of the Facility you wish to add and click the "Next" button. The search field is not case-sensitive.

If the Facility name you entered matches one or more Facilities registered in CIWQS, you will be prompted to select the correct Facility on the *Request Related Facility* page (Figure 2.4).

CIWQS Frid	You are logged-in as: demo. If this account does not belong ay, June 10, 2005 other Facility:	Menu Help Log out
	Facility Name	Address
0	FOURMILE HILL DRILLING	
0	FOURMILE HILL GEOTHERMAL	
0	FOURMILE HILL GEOTHERMAL PROJE	
Select		
None of the Above		

Figure 2.4 Request Related Facility Page

Be sure to check the spelling of the Facility you wish to add. If you have difficulty finding the appropriate Facility, use a lessspecific keyword search or check with your Water Board to make sure that the Facility is registered.

If the Facility you wish to add appears in the list, select the radio button next to the correct Facility and click the "Select" button. Your request is sent to the System Administrator, and you are returned to the *View/Change My Personal Information* page. The Facility you requested appears in the table with the word "Pending" in the *How Related* field along with a suggested relationship (Figure 2.5). A System Administrator notifies you when the Facility has been associated with your record.

My Related Facilities:			
Name	Address	How Related	
3M AUTO WRECKERS	1726 SMITH, SAN JOSE, CA 95112	is onsite manager for	
FOURMILE HILL DRILLING	GLASS MOUNTAIN, WEED, CA 96094	Pending-is onsite manager for	

Figure 2.5 My Related Facilities Table Showing Pending Relationship

If the Facility you wish to add does not appear in the list, or if no Facilities matched your search, you can click the "Back" button on your Web browser to return to the *Request Another Facility* page and type in another Facility name.

If you select "None of the Above" you will be asked to check for the correct spelling of the Facility and directed back to the Main Menu (Figure 2.6).

Witer Buards CIWQS	Menu Help Log out Navigate to: ✓ You are logged-in as: test1. If this account does not belong to you, please log out.
CIWQS Monday, April 25, 2005	
Request Another Facility:	
Request Failed!	
Please confirm the registered name and spelling	of the facility name with your executive officer. Click <u>here</u> when done.

Figure 2.6 Request Another Facility: Request Failed

2.2.2 Requesting Additional Changes

All other changes to your personal profile, such as the following, must be made by a System Administrator:

• Requesting the addition of a Related Party

- Changing your User ID
- Changing your relationship to or with a related Facility or Party

You can request a change by sending an e-mail message to your System Administrator. Clicking the "Request Additional Change" button will launch your default e-mail program and create a new message addressed to the System Administrator. Be sure to add an appropriate subject line to your message.

A CIWQS System Administrator reads and reviews your e-mail message requesting a change. Your requested changes will be made, or the Administrator will contact you with additional questions regarding your e-mail message.

The CIWQS Administrator notifies you once the changes have been made.

CIWQS Water Board User's Guide

Part II

Data Entry: Places, Parties and Regulatory Measures

3 Places Module
4 Parties Module
5 Regulatory Measures Module
6 Reports Module

3 Places Module

This chapter addresses the following topics:

- An introduction to the Places Module
- A survey of Place types
- Searching for an existing Place
- Creating a new Place

3.1 Introduction to the Places Module

The *Create/Maintain Places* Module allows new Places to be created, allows existing Place data to be modified, and offers Place-centric access to other system Modules. This Module is where Discharge Points and Facilities are created and managed.

The *Create/Maintain Places* Module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu at the top of each page.

3.1.1 Types of Places

The *Create/Maintain Places* Module can be used to create records for many types of physical locations and geographic areas. The attributes and related information collected for a Place may be different for each type. Where appropriate, variations in data entry requirements are discussed.

Place types fall into four general categories:

- 1. Discharge Points
- 2. EPA Water Types
- 3. Management Geographic Areas
- 4. Physical Sites

The EPA Water Types, Management Geographic Areas, and Physical Sites categories are further broken down to provide a more precise description of a Place. Table 3.1 gives some examples of the Place type hierarchy.

kér

Additional Place types can be added by a CIWQS System Administrator.

Dlaca Trma	Subcategories		
Place Type	Level 1	Level 2	
	Bay/Estuary		
EPA Water Type	Coastal		
	Wetland		
	Management Area	District	
Management	Management Mea	Region	
Geographic Area	Groundwater		
Ocographic mea	Lake		
	Reservoir		
	Discharge Source	Facility	
	Monitoring Area	Effluent Monitoring	
		Point	
	Non-point Source		
Physical Site	Point Source	Industrial	
		Military Facility	
	Tank		
	Waste Management	Landfill	
	Unit	Landin	

Table 3.1 Place Type Hierarchy



As shown in Table 3.1, a Facility is one type of Place under the Physical Site category "Discharge Source."

3.1.2 Searching for a Place

Selecting the *Create/Maintain Places* Module from the Main Menu takes you to the *Place Search* page (Figure 3.1), where you can create a new Place or search for an existing Place. This page is used by several CIWQS Modules to search for Places and is representative of the types of search pages found throughout the CIWQS Modules.

To search for an existing Place, input criteria into the search fields. Table 3.2 lists these fields and describes how they can be used to search for related Places.

Water Boards CIWQS	Navigate to: You are logged-in as: tetratech. If this account does not belong	Menu Help Log out v to you, please log out.
Place Search		
Enter any search criteria	and click "Search".	
ldentifier:	Identifier Type: Any	
Place Name:		
Place Type:	Any	
Physical Address:		
City:	Zip: County:	
Regional Water Board:	~	
Latitude:	deg min sec. OR decimal degrees	
Longitude:	deg. min. sec. OR decimal degrees	
Related Party Name:	All	
Search Create I	New Place	

Figure 3.1 Place Search Page

After you click the "Search" button, a table appears below the search box showing the first 100 Place records that matched **all** the search terms you entered (Figure 3.2).

Merry Renth Menu Help Log out Navigate to: Image: Search						
Enter any search criteria	n and clic	k "Search".				
ldentifier:		Identifier Type: Any	~			
Place Name:	Pittsbur	g				
Place Type:	Any		✓			
Physical Address:						
City:		Zip: County:				
Regional Water Board:		~				
Latitude:		deg. min. sec. OR	decimal degrees			
Longitude:		deg min sec. OR	decimal degrees			
Related Party Name:		All	~			
Search Create	New Pla	ce				
Court Double					1.10	
Search Results: Place Name		Agency	Physical Address	Latitude/Longitude	Previous 1-10 c Regional Water Board	of 18 <u>Vext 8</u> Identifier
BNSF-Pittsburg Siding Ex	xpansio	BNSF Railroad Company	Willow Pass PITTSBURG, CA	38"0'30" N 121"46'34" W	55	
City of Pittsburg - Storm V	Natr	CONTRA COSTA CLEAN WATER PROG	65 Civic PITTSBURG, CA		2	2 071538M09
Fort Knox Pittsburg, LLC		Fort Knox Pittsburg, LLC	3825 Shopping Heights PITTSBURG, CA		2	2 07S0134
GBF/PITTSBURG LANDF	ILL	TRC COMPANIES INC.	JAMES DONOLAN & SOMMERSVILLE ANTIOCH, CA		58	58070301002
WC CO - PITTSBURG PL	LANT	KEMWATER NORTH AMERICA	LOVERIDGE ROAD PITTSBURG, CA 94565		2	2 071132001
PITTSBURG ANTIOCH H	IWY	Pittsburg,City OF	FROM ARCY LN TO COLUMBIA ST PITTSBURG, CA 94565		2	2 07C317417
PITTSBURG LAND DISP	<u>OSAL</u>	GENERAL CHEM/ALLIED CORP.	NORTHEND OF NICHOLS ROAD PITTSBURG, CA 94565		2	2 071001N02
Pittsburg Marina, City of		PITTSBURG, CITY OF	PITTSBURG, CA		2	2 071180001
Pittsburg Plumbing		Pittsburg Plumbing	441 10th PITTSBURG, CA 94565		2	2 07-0478
PITTSBURG POWER PL	ANT	SOUTHERN ENERGY CALIFORNIA	696 10TH PITTSBURG, CA 94565		2	2 071030001

Figure 3.2 Results of a Place Search

Table 3.2 Place Search Fields

Field Name	Description
Identifier	Enter the Place Identifier in the text box. A complete identifier must be entered (e.g., "123" will not locate "1234" or "8123").
Identifier Type	This field allows you to filter down to a specific identifier type. The default is "Any," which will search all types. Note that all possible identifier types will be available, across all Place types. Selecting an identifier type that is incompatible with the selected Place type will result in records not being located.
Place Name	You can enter a full or partial Place name here. The search is not case-sensitive (e.g., "ac" would find "Acme" and "Trace").
Physical Address	This field is used to search for the physical address (if defined). The system searches the number, direction, street, street type, and the suite/apartment of the address. The search is not case-sensitive (e.g., "Bradford" would find both "Bradford Way" and "North Bradford Street").
City	This field is used to search for the Place location (if defined). The search is not case-sensitive (e.g., "spring" would find both "Springfield" and "Springdale City").
ZIP	This field searches ZIP code (if defined). Only the first 5 digits need to be entered. If only 5 digits are entered, any ZIP code + 4 with those first 5 digits will be located.
County	This field searches County (if defined). The search is not case-sensitive (e.g., "rang" would find "Orange County").
Regional Water Board	Selection of a Regional Board searches for Places located within the selected Water Board.
Latitude	This field searches for the Place location as specified by its latitude (if defined). Values can be entered for degrees/ minutes/seconds or decimal degrees. Must be an exact match.
Longitude	This field searches for the Place location as specified by its longitude (if defined). Values can be entered for degrees/minutes /seconds or decimal degrees. Must be an exact match.
Related Party Name	This field allows you to search for Places related to a specified Party. A full or partial Party name can be entered. The search is not case-sensitive. This field can be used, for example, to locate a Facility by the agency, the operator, or a specific contact person.
Related Party Relationship	This field allows you to limit the search to Places with a specific relationship to the entered Party. The default is "All."

Using the Places Search Engine

The CIWQS Place search engine is based on an AND search. This means that it will look for Places that match **all** of your search criteria. For example, entering "San Francisco" in the *Name* field and "EPA Water Type ->Bay/Estuary" in the *Place Type* field will find "San Francisco Bay" but not "San Francisco" or "Monterey Bay" because these do not match all the criteria that you entered.

Table 3.3 lists the fields included in the results table and describes each.

Field Name	Description
Place Name	Shows the name of the Place as a hyperlink. Clicking this link opens the record of the Place in the Place Editor.
Agency	If this is a Facility or other Place that has an "agency", this field displays the agency name (related party with the relationship/role of agency). If no agency is defined for the Place or multiple agencies exist, nothing is displayed.
Physical Address	This field displays the Place's physical address, if one has been defined.
Latitude/ Longitude	This field displays the Place's latitude and longitude, if defined, in degrees/minutes/ seconds.
Regional Water Board	This field displays the number of the Water Board that has primary responsibility for regulation of the place.
Identifier	If the Place has been assigned an identifier that has been flagged as "primary," it will be displayed here. If not, nothing will be shown.

Table 3.3 Results Table

If the Place record you were searching for appears in the Results table, you can access its record by clicking its name. If the Place of interest does not appear, you can enter new search criteria and click the "Search" button again to refresh the page.

LP

If you have trouble finding an existing Place, try using fewer (or less stringent) search criteria. This will broaden your search.

3.2 The Place Editor

The Place Editor allows you to create a new Place or to modify the record for an existing Place. This page can be accessed by clicking the "Create New Place" button on the *Place Search* page or by clicking the name of a Place (in the *Place Name* field) in the results table when searching for an existing Place record.

There are seven tabs on the *Place Editor* page, and each tab records various types of Place information:

- General Information Tab
- SIC/NAICS Tab
- Related Parties Tab
- Related Places Tab
- Related Violations Tab
- Regulatory Measures Tab
- Additional Information Tab

Although individual tabs show different information, each has a common page header. The header shows the Place name, Regional Board, and Agency.

As information is saved in the Place Editor, the header information automatically refreshes to display updated information.

3.2.1 General Information Tab

The General Information tab is the first page you see when you open the record for a Place or create a new Place record. The General Information tab captures basic information about the Place, including identifiers, name, and location information (Figure 3.3).

When you are creating a new Place, the General Information tab will be the only tab available for data entry until all required fields on the tab are filled out and the record has been saved. Saving the record activates the remaining tabs.

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The "Save" button is activated only when new information has been added or removed. By default, it is inactive when the Place Editor is first opened.

Menu Help Log out Water Rearch Mavigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.					
	Acton Plaza Shopping Center		Regional	Board: 4	
Agency:					
	NAICS Related Parties Related Place	es Related Violations Regulatory Measu	ures Addn. Info		
Save	8 8	<u>н н</u>	н		
System ID:	207052				
Place Name:*	Acton Plaza Shopping Center			View History	
Place Type:*	Physical Site -> Discharge Source ->	- Fosility			
	Thysical Site -> Discharge Source ->				
Place Description:		<u>^</u>			
		×			
Program(s):	NON15				
Physical Address					
Street Number:	3807		SI	treet Direction:	~
Street Name:	Sierra		s	Street Type: 🗸 🗸 Suite/Apt:	
City:	*OTON				_
cny.	ACTON		S	state:* CA 🔽 Zip: 93510	
County:	Los Angeles 🛛 👻				
Regional Board:	Region 4 - Los Angeles 🛛 👻]			
Latitude:	deg. min.	sec. OR decimal degrees			
Longitude:	deg. min.	sec. OR decimal degrees			
Scale:	*				
Source/Method:		*			
Accuracy:	~				
Datum:	~				
Reference Point:	~				
ldentifiers					
Type*	Identifier*	Comment	Start Date*	End Date	
	4A191149001		06/20/2005		<u>delete</u>
~		~	10/04/2005		
		~			

Figure 3.3 General Information Tab

Place Information

Basic information about a Place is captured in the fields in the upper part of the General Information tab (Figure 3.4). These fields include *System ID*, *Place Name*, *Place Type*, *Place Description*, and *Program(s)*. Both the *System ID* and *Program(s)* fields are read-only and are updated as necessary by the system. All required fields must be entered before the new record can be saved.

System ID:	207052		
Place Name:*	Acton Plaza Shopping Center		View History
Place Type:*	Physical Site -> Discharge Source -> Facility	*	
Place Description:			
Program(s):	 NON15		

Figure 3.4 Basic Place Information Fields



The Place name and type are the only fields required before a Place record can be saved.

The first piece of information to be captured for a new Place is its name. After the Place Name is entered, select a Place Type from the drop-down menu. Optionally, you can add a brief description of the Place in the *Place Description* text field.

The *Program* field displays a list of the programs related to the Place. Programs are linked to a Place through the *Regulatory Measure* Module.

8

See Chapter 5 for more information on Regulatory Measures.

At this point, the "Save" button is activated and you can click it to save the record.

Required Fields

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

In some instances, however, indicated fields are required only if you enter data into one field out of a group of several. For example, entering data into the *Street Direction* field on the General Information Tab requires you to then fill out information for the indicated *Address* fields. These fields are not required if you refrain from entering data into any of the fields.

Once the Place record has been saved, a System ID is generated and displayed at the top of the tab. The "View History" button is also activated. Clicking this button opens a new window to display the history of changes made to the Place name.



See Chapter 1 for more information on pop-up windows in CIWQS.

Place Address

The next set of information to be captured for a Place is its physical address. These fields can be found in the center of the tab (Figure 3.5).



Not all Places will have a physical address.

Physical Address		
Street Number:	3807	Street Direction:
Street Name:	Sierra	Street Type: Suite/Apt:
City:	ACTON	State:* CA 💙 Zip: 93510
County:	Los Angeles 💌	

Figure 3.5 Place Address Fields

Table 3.4 lists the address fields and gives an example of how they should be entered.

Table 3.4 Place Address Fields

Field Name	How to enter data for the address 1313 North Mockingbird Lane, San Jose, CA, 95116
Address Type	Select the appropriate address type from the drop-down menu.
Street Number	Enter "1313" into the field.
Street Direction	Select "North" from the drop-down menu.
Street Name	Enter "Mockingbird" into the field.
Street Type	Select "Lane" from the drop-down menu.
Suite/Apt Mail	Enter suite/apartment. information, if applicable (this
Stop	field remains blank for this address).
City	Enter "San Jose" into the field.
State	Select "CA" from the drop-down menu.
ZIP	Enter "95116" into the first of the two text fields. (Format should be 99999 in the first box and 9999 in the second. Only the first five digits are required.)
County	Select "Santa Clara" from the drop-down menu.
Foreign Postal Code	Enter a foreign postal code, if applicable (this field remains blank for this address).

Additional Place Information

Additional information about a Place is captured in the lower part of the form (Figure 3.6). Table 3.5 lists these fields and describes each.

Recording Latitude and Longitude in CIWQS

You can enter latitude and longitude coordinates in the form of degrees/minutes/seconds or decimal degrees. If you enter decimal degrees, the system converts to degrees/minutes/ seconds when the user tabs out of the decimal degrees field. If you enter degrees, minutes, or seconds, the system will convert to decimal degrees when you tab out of one of these fields.

Regional Board:	Region 4 - Los Angeles 🔹
Latitude:	deg. min. sec. OR decimal degrees
Longitude:	deg. min. sec. OR decimal degrees
Scale:	
Source/Method:	✓
Accuracy:	✓
Datum:	✓
Reference Point:	▼



Table 3.5 Additional Place Information Fields

Field Name	Description
Regional Board	Select the number of the Regional Board that has primary responsibility for regulation of the Place from the drop-down menu. If you are affiliated with a Regional Water Board, this field will default to the number of the Regional Water Board with which you are affiliated.
Latitude and Longitude	Enter the Place's geographic coordinates in degrees/minutes/seconds (including tenths) and/or decimal degrees (see sidebar above for additional information about this field). The Reference Point is used to indicate to what point this coordinate refers (see below).
Scale	Select the appropriate scale from the drop-down menu.
Source/Method	Select the source of the geographic data from the drop- down menu (e.g., GPS).
Datum	Select the datum for the geographic data from the drop- down menu (e.g., NAD83).
Accuracy	Select the accuracy level for the geographic data from the drop-down menu (e.g., 5 meters)
Reference Point	Select the reference point to which the latitude/longitude refers from the drop-down menu (e.g., spatial).

Identifiers

An identifier field can be found on most pages of the CIWQS interface. This generic field provides a way to attach unique numbers (or a combination of numbers and letters) to an entity. Within each Module, the list of identifier types is filtered to reflect options that are suitable for the entity (e.g., Place, Party, Violation, Regulatory Measure).

To add an identifier to the Place record, select an Identifier Type from the drop-down menu (Figure 3.7). Input the Identifier and the start date (the date the Identifier became or becomes active). The (\blacksquare) symbol next to the date field opens a calendar from which you can select a date, which is then automatically entered into the *Status Date* field. Optionally, you can enter text in the *Comments* field and enter an end date.

Identifiers	Identifiers									
Type*	Identifier*	Comment	Start Date*	End Date						
WDID 🛩	4A191149001		06/20/2005		<u>delete</u>					
~		<	10/04/2005							

Figure 3.7 Place Identifiers

Clicking the "delete" hyperlink at the end of a row will remove an associated identifier from the Place record.

STOP

When you have entered or updated new information in the General Information Tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

3.2.2 SIC/NAICS Tab

The SIC/NAICS Tab allows you to record the Standard Industrial Classification (SIC) codes and North American Industrial Classification System (NAICS) codes for a Place (Figure 3.8).

Menu Help Log out Navigate to: Image: City of the second secon							
Place							
Place Name: Acton Plaza Shopping Center		Regional Board: 4					
Agency:							
General Info SIC/NAICS Related Parties Related Places Relate	d Violations Regulatory Measures Addn. Info						
Save							
SIC Codes							
Link SIC to This Facility							
Primary	Code	Description	Active?				
NAICS Codes							
Link NAICS to This Facility							
Primary	Code	Description	Active?				

Figure 3.8 SIC/NAICS Tab



Typically, this tab is used only for a Place with "Facility" as its Place type.

To link a SIC or NAICS code to a Place, click the appropriate button ("Link SIC to This Facility" or "Link NAICS to This Facility"). Doing so opens the code selection pages (Figures 3.9 and 3.10) in new windows.

Cancel Please clic	ck <u>her</u>	re for the official web site for the SIC code set.					
	SIC Codes						
Co	ode	Description					
32	291	Abrasive Products	Link				
63	321	Accident and Health Insurance	Link				
87	721	Accounting, Auditing, and Bookkeeping Services	Link				
28	891	Adhesives and Sealants	Link				

Figure 3.9 SIC Code Selection Page

Cancel Please click <u>here</u> for the official web site for the NAICS code set.							
	NAICS Codes						
	Code	Description					
	42241	General Line Grocery Wholesalers	Link				
	32791	Abrasive Product Manufacturing	Link				
	32552	Adhesive Manufacturing	Link				
	92411	Administration of Air and Water Resource and Solid Waste Management Programs	Link				

Figure 3.10 NAICS Code Selection Page

To select a code, click the "Link" hyperlink in the appropriate row. This adds the selected code and returns you to the SIC/NAICS tab (Figure 3.11). Clicking the "Cancel" button returns you to the SIC/NAICS tab without adding a code.

Water Beans CIWQS Navigate to: Vou are logged-in as: tetratech. If this account does not belong to you, please log out.							
Place							
Place Name: Acton Plaza Shop	oing Center	Regional Board: 4					
Agency: General Info SIC/NAICS Related P	arties Related Places Related	Violations Regulatory Measures Addn. Info					
Save							
SIC Codes							
Link SIC to This Facility							
Primary	Code	Description	Active?				
0	9611	Administration of General Economic Programs		<u>Unlink</u>			
0	82	Educational services		<u>Unlink</u>			
NAICS Codes Link NAICS to This Facility							
Primary	Code	Description	Active?				
0	92311	Administration of Education Programs		<u>Unlink</u>			
0	61171	Educational Support Services (pt)	>	<u>Unlink</u>			

Figure 3.11 Place with SIC/NAICS Codes Added

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No cross-checking is performed by the system to ensure that the SIC and NAICS codes match. Once codes have been linked to the Place, the *Code* and *Description* fields display the selected SIC and/or NAICS information on the SIC/NAICS Tab. You have the option of selecting a primary code of either type by clicking the radio button in the appropriate table row.

The *Active?* field indicates whether the code is currently applicable to the Place. When there is a green check mark in the box, the code is marked as "Active." When the box is empty, the code is "Inactive."

To remove a code from the table, click the "Unlink" hyperlink in the appropriate table row. This unlinks the code from the Place but does not delete the code from the system.



STOP

For more information on SIC/NAICS codes, visit the U.S. Department of Labor OSHA Web site at http://www.osha.gov/oshstats/naics-manual.html.

When you have entered or updated new information in the SIC/NAICS tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

3.2.3 Related Parties Tab

The Related Parties tab allows you to link Parties (People and Organizations) to the current Place (Figure 3.12). This is how relationships such as agencies/owners, operators, and program-specific contacts are specified.

Water Boards CIWQS	You are I	Navigate to:	t does not bel	<u>Menu Help </u> ong to you, please	~			
Place								
Place Name: Acton Plaza	Shopping Center			Regional	Board: 4			
Agency:								
General Info SIC/NAICS Rel	ated Parties Related Plac	es Related Violations Regulatory	Measures A	ddn. Info				
Save Show Inactive Rel	ationships							
Related Organizations								
Link an Organization]							
Organization Name *	Role	Relationship *	Comment	Start	Date *	End Date		
Acton Plaza Mgmt, LLC	Owner	~	<	11/13/1990			<u>Unlink</u>	
Related Persons								
					~	5 10 (
Person Name *		Role/Relationship *	Comm	ent	Start Date *	End Date		
Related Persons at Organizati	Related Persons at Organization							
Link Person at an Organization								
Person Na	me *	Role/Relationship *		Comment	Start Date *	End Date		
Anthony An Facility Contact: Ac	ton Plaza Mgmt, LLC 💌	Contact	~	~	06/17/2005		Unlink	

Figure 3.12 Related Parties Tab

See Chapter 4 for more information on Parties.

When the Related Parties tab is viewed, the default is for only the active relationships (relationships with a start date of today's date or earlier and an end date later than today's date) to be displayed. If you wish to see inactive relationships, select the box with the label "Show Inactive Relationships" next to the "Save" button at the top of the tab.

There are three options for linking Parties to the record:

- Link an Organization
- Link a Person
- Link a Related Person at an Organization (establishes roles)

Link an Organization

Clicking the "Link an Organization" button launches the *Party Search* page with the *Organization* checkbox pre-selected (the *Person* checkbox is clear). Enter the appropriate search criteria and click the "Search" button. When you have found the Organization you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Organizations Table (Figure 3.13).

LP

To be linked to the current record, a Party must be predefined using the Create/Maintain Parties Module.

Related Organizations								
Organization Name *	Role/Relationship *	Comment	Start Date *	End Date				
Acton Plaza Mgmt, LLC	Owner 💌	~	11/13/1990		<u>Unlink</u>			

Figure 3.13 Linking an Organization

Additional information about the relationship with the linked Organization can be captured in the displayed fields. The *Role/Relationship* and *Start Date* fields are required for all linked Organizations.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Place and the linked Organization. The values available in the list change depending on the current Place type. The start date indicates the date the relationship became (becomes) effective. Optionally, comments can be added to the *Comments* field and an *End Date* for the relationship can be established. The "Unlink" hyperlink removes the link to the Organization (the relationship between the Organization and the current Place) but does not delete the record for that Organization.

Link a Person

Clicking the "Link a Person" button launches the *Party Search* page with the *Person* checkbox pre-selected (the *Organization* checkbox is clear). Enter the appropriate search criteria and click the "Search" button. When you have found the Person you wish to link, click the "Select" hyperlink at the end of the corresponding row. This creates a new row in the Related Persons table (Figure 3.14).

Related Persons					
Person Name *	Role/Relationship *	Comment	Start Date *	End Date	
<u>John Perry</u>	Inspector	~	10/04/2005		<u>Unlink</u>

Figure 3.14 Linking a Person

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Depending on your level of access, you might also be able to create a new record for a Person and then link the new Party record to the current record.

Additional information about the relationship with the linked Person can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked Persons.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Place and the linked Person. The values available in the list change depending on the current Place type. The start date indicates the date the relationship became (becomes) effective.

Optionally, comments can be added to the *Comments* field and an *End Date* for the relationship can be established. The "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.

Link a Related Person at an Organization

This button allows a Place to be linked to an affiliated Person. An affiliated Person is a person who has been linked to an Organization with a specific role/relationship.

An Example of Affiliation

John Smith (a Person) is an accountant for Company B (an Organization). John Smith is also a consultant for Companies A, B, and C (Organizations). In this example, John Smith has four affiliations: he has a role/relationship with Company B of "accountant" and a role/relationship with Companies A, B, and C of "consultant."

In this example, John Smith would be linked to Company B twice – once as an accountant and once as a consultant. He could be linked to Companies A and C once – as a consultant.

A Person who has been affiliated in this way (they have been linked/associated with an Organization) can be linked to a Place.

Clicking the "Link Person at an Organization" button launches the *Party Search* page with the Person checkbox pre-selected (the Organization checkbox is clear). Enter the appropriate search criteria and click the "Search" button. When you have found the Person you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Persons at Organization table (Figure 3.15). Table 3.6 describes the fields in this table.

Related Persons at Organization								
Link Person at an Organization Person Name ' Role:Relationship ' Comment Start Date ' End Date								
Anthony An Facility Contact: Acton Plaza Mgmt, LLC 💌	Contact		06/17/2005		<u>Unlink</u>			

Figure 3.15 Linking a Person at an Organization

Table 3.6 Related Persons at Organization Table

Field Name	Description
Person Name	This field displays the name of the Person who was just
r er son manie	selected using the <i>Party Search</i> page.
Role at	Select a role/relationship from the drop-down menu to
Organization	establish the connection between the current Place and
Organization	the selected Party.
Comment	Use this optional field to input comments about the
Comment	relationship.
Start Date	Enter the date the role/relationship became/becomes
Start Date	effective.
End Date	Enter the date the role/relationship becomes/became
Enu Date	inactive.

Within this table, select the appropriate values from the *Party Name* and *Role/Relationship* drop-down menus. Enter the date the relationship became effective in the *Start Date* field.

Optionally, enter comments in the *Comments* field and an end date for the relationship.



The "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.



When you have entered or updated new information in the Related Parties Tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

3.2.4 Related Places Tab

The Related Places tab allows you to link Places to the current record (Figure 3.16). This tab can be used to link Discharge Points to Discharge Facilities, or to associate other types of Places. When the Related Places tab is viewed, the default is for only the active relationships (relationships with a Start Date of today's date or earlier and an End Date later than today's date) to be displayed. If you wish to see inactive relationships, select the box with the label "Show Inactive Relationships" (in line with the "Save" button at the top of the tab).

Clicking the "Link a Place" button launches the *Place Search* page. Enter the appropriate search criteria and click the "Search" button. When you have found the Place you wish to link, click the "Select" hyperlink at the end of the corresponding row. This creates a new row in the Related Places Table.

	You are logged-in	Navigate to: n as: tetratech. If this account does r	Menu Help Log out v not belong to you, please log out.					
Place								
Place Name: Acton Pla	aza Shopping Center		Regional Board: 4					
General Info SIC/INAICS Related Places Related Violations Regulatory Measures Addn. Info Save Link a Place Link a Discharge Point Show Only Discharge Points Show Inactive Relationships								
Place Name*	Role/Re	elationship*	Start Date*	End Date				
<u>001</u>	Discharging	*	10/04/2005		<u>Unlink</u>			
1111 Sunflower Ave	adjacent to	*	10/04/2005		Unlink			

Figure 3.16 Related Places Tab

Additional information about the relationship with the linked Place can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked Places.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Place and the linked Place. The start date indicates the date the relationship became (becomes) effective.

To link a Discharge Point to a Place (typically a Facility), click the "Link a Discharge Point" button at the top of the tab. Clicking this button launches the *Place Search* page. In this case, only Places of type "Discharge Point" can be searched for or added. Enter the appropriate search criteria and click the "Search" button. When you have found the Discharge Point you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Places Table.

Enter the appropriate data for the Discharge Point in the table fields, and click the "Save" button to update the record.

To view only related Discharge Points, select the "Show Only Discharge Points" checkbox at the top of the tab.



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When you have entered or updated new information in the Related Places Tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

3.2.5 Related Violations Tab

The Related Violations tab displays all Violations related to the Place (Figure 3.17). It is not possible to add Violations to a Place using this tab. Violations must be created and assigned through the *Create/Maintain Violations Module*.

Menu Help Log out Water Boards Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out. Place								
Place Name: Agency:	Acton Plaz	a Shopping Ce	nter			F	Regional Board:	4
		elated Parties	Related Places	Related Violations	Regulatory Measures	Addn. Info		
Violation ID			[Description			Status	
209514	Overdue 3Q9	97 DMR.					Violation	
209519	Overdue 4Q9	98 DMR.					Violation	
209515	Overdue 4Q9	97 DMR.					Violation	
<u>209590</u>	Overdue 2Q0	02 DMR.					Violation	
<u>209584</u>	Overdue 4Q(00 DMR.					Violation	

Figure 3.17 Related Violations Tab

See Chapter 9 for more information on the Violations Editor.

Clicking the hyperlink in the *Violation ID* field opens the record for the selected Violation in the Violations Editor.

3.2.6 Regulatory Measures Tab

The Regulatory Measures tab displays all Regulatory Measures related to the Party (Figure 3.18). It is not possible to add Regulatory Measures to a Party using this tab. Regulatory Measures must be created and assigned using the *Create/Maintain Regulatory Measures* Module.

Mater Reards CIWQS	Menu Help Navigate to: ou are logged-in as: tetratech. If this account does not belong to you, pleas	*	
Place Name: Acton Plaza Shopping Center	Regiona	al Board: 4	
Agency:			
General Info SIC/NAICS Related Parties Relat	ed Places Related Violations Regulatory Measures Addn. Info		
Show only Enforcement Actions			
Title	Regulatory Measure	Order Number	Effective Dates
Enforcement - 4A191149001	Notice of Violation	UNKNOWN	11/15/2002 -
SWIM Order Number - 93-022	Individual Waste Discharge Requirements	93-022	04/05/1993 -

Figure 3.18 Regulatory Measures Tab

8

See Chapter 5 for more information on the Regulatory Measure Editor.

Clicking the hyperlink in the *Title* field opens the record for the selected Regulatory Measure in the Regulatory Measure Editor.

3.2.7 Additional Information Tab

The Additional Information tab is designed to capture any relevant information that the other tabs do not address. Additional information is recorded by documenting various attributes that apply to a particular Place type.

Because this page is used in several of the CIWQS Modules, it has been formatted to accept a wide range of data and information (Figure 3.19). The attributes that can be specified for a given Place are listed in the attribute table.

king the second secon

Contact the CIWQS Administrator if you wish to have an additional Place attribute added to the Additional Information tab.

When the Additional Information tab is viewed, the default is for only the active attributes (relationships with a Start Date of today's date or earlier and an End Date later than today's date) to be displayed. If you wish to see the inactive attributes, select the box with the label "Show Inactive" next to the "Save" button at the top of the tab.

Water Boarris CIWQS		You	Navigate to:		lp Log out v ase log out.		
Place							
Place Name: Acton Plaza Shop	ping	Center		Reg	ional Board: 4		
Agency:							
General Info SIC/NAICS Related	Partie	s Related	Places Regulatory Measures Addn. Info				
Mult=Y allows multiple values with ov							
Mult=N allows multiple values with n	o over	lapping effe	ective dates.				
Save Show Inactive	_		1				
Attribute	Mult	Туре	Value*	Unit Of Measure	Start Date (mm/dd/yyyy)*	End Date (mm/dd/yyyy)	
APPROVED_CNTY_REG_PROG	N	character	~				add another
CAFO_SUBTYPE	N	text					add another
CAFO_TYPE	Ν	text	·				add another
Cataloging Unit	N	text					add another
COMMENTS	N	text					add another
End Point Desc	N	text					add another
Hydrologic Unit	N	text					add another
ONSITE	Ν	character	~				add another
POPULATION	Ν	number					add another
QUALITY_ASSURANCE	Ν	character	~				add another
Start Point Desc	Ν	text					add another
Test Place Attr3, REQD, MULT*	Y	text					add another
Test Place Attribute	N	text					add another
Test Place Attribute22	N	text					add another
Test Place AttrMM/DD/YYYY	Ν	date					add another
Water Body Type	Ν	number					add another
* - Indicates required.							

Figure 3.19 Additional Information Tab

All attributes allow multiple values to be entered by clicking the "add another" hyperlink at the end of the row. Only Attributes with a value of "Y" in the *Mult* field allow entries with overlapping start and end dates.

The fields of the Attribute Table are described in Table 3.7.

 Table 3.7 Attribute Table Fields

Field	Description
	This field displays an attribute that can be recorded for
Attribute	the Place. Required attributes have an asterisk (*) prefix.
Attribute	This indicates that you are required to enter values for
	the Value and Start Date fields.
	Enter or select the value associated with the attribute.
Value	Depending on the attribute, this field might be displayed
value	as a text field or as a drop-down menu. If the field is a
	text field, no data validation takes place.
	Enter the date the attribute was first used/was first true
Start Date	about the Facility/was first measured/was first
	reported/etc.
End Date	Enter the date the attribute was last used/was last true
Enu Date	about the Facility/etc.



When you have entered or updated new information in the Additional Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

4 Parties Module

This chapter addresses the following topics:

- An Introduction to the Parties Module
- Searching for an Existing Party
- Creating a New Party

4.1 Introduction to the Parties Module

Parties are People and Organizations that own, operate, provide services to, receive services from, and otherwise have interest in a Facility or other Place. Parties also encompass "Agencies," which are the owners and operators of Facilities. This Module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

4.1.1 Searching for a Party

Selecting the *Create/Maintain Parties* Module from the Main Menu takes you to the *Party Search* page (Figure 4.1), where you can decide to create a new Party or search for an existing Party. This page is used in several CIWQS Modules to search for Parties and is representative of the types of search pages found throughout the CIWQS Modules.

Water Boards CIWQS	Menu Help Log out Navigate to: View You are logged-in as: tetratech. If this account does not belong to you, please log out.
Party Search	
Enter any search criteria and click "Search".	
Party ID:	
Party Type: Person 🗹 Organization	
Name:	
Mailing Address:	
City:	
Work Phone:	
Search Create New Party	

Figure 4.1 Party Search Page

To search for an existing Party, input criteria into the search fields. Table 4.1 lists these fields and describes how they can be used to search for related Parties.

Field Name	Description
Party ID	Enter a Party ID to search for a Party record.
Person Checkbox	If selected, (default) records for People are
	included in the search.
Organization	If selected, (default) records for Organizations
Checkbox	are included in the search.
	This field searches for the name of an
Name	Organization or the last name of a Person.
Ivanie	The search does not require wildcards and is
	not case-sensitive.
	This field searches for the primary address of a
	Person or Organization. The system searches
Mailing Address	for the Number, Street, Suite/Apartment, and
_	Line 2 fields of the address. The search does
	not require wildcards and is not case-sensitive.
	This field is used to search for the Party
Cita	location (as specified in the primary address).
City	Wildcards are not required, and the search is
	not case-sensitive.
	This field is used to search for the Party
Work Phone	telephone number (if specified). Numbers
	should be entered in the format 999-999-9999.

Table 4.1 Party Search Fields

Using the CIWQS Search Engine

The CIWQS Party search engine is based on an AND search. This means that it will look for places that match all of your search criteria. For example, if you enter "Smith" in the Name field and "Houston" in the City field, the system will search for all Party records that satisfy both criteria. This search will not produce the record for John Smith of Baltimore or Ken Thomas from Houston because neither record satisfies both search requirements.

In addition, wildcards (placeholder symbols such as "%" or "*") are not required for these searches and the searches are not casesensitive. This means that entering "brad" in the Mailing Address field will find "1 Bradford Way" and "1300 Balbrader Street." After you click the "Search" button, a table appears below the search box showing the first 100 Party records that matched **all** the search terms you entered (Figure 4.2). Table 4.2 describes the information displayed in the Results table.

Water Boards	CIWQS		avigate to: etratech. If this ac	Menu Help Log out
Party Se	earch			
Enter any s	search criteria and click "Search".			
Party ID:				
Party Type	Person 🗹 Organization			
Name:	Acton			
Mailing Ad	dress:			
City:				
Work Phor	ie:			
New Se	earch Create New Party			
Search Res	sults:			Previous 1-5 of 5 💌 Next
Party ID	Name	Туре	Work Phone	Mailing Address
2651	Acton 19, LLC	Organization		, California, USA
2652	Acton Faith Bible Church	Organization		PO Box 398 , Acton, California, 93510, USA
2653	Acton Plaza Mgmt, LLC	Organization		, California, USA
21232	Highpointe Acton LLC	Organization		24361 El Toro Rd Ste 100 , Laguna Woods, California, 92637, USA
23278	Jason Auto Parts, Acton Coper	Organization		, California, USA

Figure 4.2 Results of a Party Search

Field Name	Description
Party ID	This field displays the Party ID.
	This field displays the name of the Person or
Name	Organization as a hyperlink. Clicking on this link
	opens the record for that Party in the Party Editor.
Туре	This field indicates whether the Party is a Person or
туре	Organization.
Work Phone	This field shows the Party's work phone number (if
work r none	specified).
	This field shows the primary mailing address of the
Mailing Address	Person or Organization. If the Party has more than
	one mailing address, no address is shown.

Table 4.2 Results Table

If the Party record you were searching for appears in the Results table, you can access its record by clicking its name. If the Party of interest does not appear, you can enter new search criteria and click the "Search" button again to refresh the page.



If you have trouble finding an existing Party, try using fewer (or less stringent) search criteria. This will broaden your search.

4.2 The Party Editor

The Party Editor page allows you to either enter data for a new Party or to modify the record for an existing Party. This page can be accessed by clicking the "Create New Party" button on the *Party Search* page or by clicking the Name hyperlink in the results table when searching for an existing Party.

There are six tabs on the Party Editor page, and each tab captures a related set of information about a Party:

- General Information Tab
- Related Parties Tab
- Related Places Tab
- Related Violations Tab
- Regulatory Measures Tab
- Additional Information Tab

Although individual tabs show different information, each has a common page header. The header shows the Party name, status, type, and Party ID for reference.



As information is saved in the Party Editor, the header fields automatically refresh to display updated information.

4.2.1 General Information Tab

The General Information tab is the first page you see when you open the record for a Party or create a new Party record. The General Information tab captures basic information about the Party, including identifiers, name, and location information (Figure 4.3).

When you are creating a new Party, the General Information tab is the only tab available for data entry until all required fields on the tab are filled out and the record has been saved (as in Figure 4.3). Saving the record activates the remaining tabs.

Water Boards CIWQS		igate to: Version of the second secon
Party		
Party Name:	St	atus:
Туре:	Pa	arty ID:
General Info Related Parties Re	elated Places Related Violations Reg	gulatory Measures (Addn. Info
Save		
Party Type:		
Organization Organization N	ame:*	Classification:*
		✓
	Name: * Middle Name:	Last Name:* Suffix:
Addresses		
Address Type: 🗸 🗸	Street Direction:	Street Name: Street Type:
Suite/Apt/Mail Stop:	City:	State: 🔽 Zip:
Country:		🗸 Foreign Postal Code:
	Address	9999
Identifiers		
Type *	Identifier * Comment	Start Date ' End Date

Figure 4.3 General Information Tab

Party Type and Status

Basic information about a Party is captured in the fields in the upper part of the form. These fields include Party type (and related information) and status. All required fields must be entered before a record can be saved.



The Party Type and Status fields are the only fields required before a Party record can be saved.

The first piece of information captured for a new Party is its type (Figure 4.4). A Party can be classified as either a Person or an Organization. Select the radio button next to the appropriate Party type at the top of the tab.

Save				
Party Type:				
🔘 Organizatio	on Organization Name:*		Classification:*	
				~
O Person	Prefix:* First Name: *	Middle Name:	Last Name:*	Suffix:
	~			~

Figure 4.4 Selecting the Party Type

If you select "Organization," input an Organization name in the field provided and select a Classification from the drop-down menu.

If you select "Person" as your Party type, select a prefix from the dropdown menu and enter a first name and last name in the fields provided. You also have the option to enter a middle name and suffix.

Required Fields

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

In some instances, however, indicated fields are required only if you enter data into one field out of a group of several. For example, entering data into the *Street Direction* field on the General Information tab requires you to then fill out information for the indicated *Address* fields. These fields are not required if you do not enter data into any of the fields.



Once a Party record has been saved, only the selected Party Type is displayed. You will no longer have the option to change the Party Type (Figure 4.3).

The next piece of Party information to be recorded is the Party Status (Figure 4.5). The *Status Date* field defaults to today's date when the record is created. This date can be changed if desired.

Status: * Active 🔽 Status Date: * 05/05/2005 💷 🛛 View Status History 👘 View Name History	tatus: * Active 💙 Status Date: * 05/05/2005 🛛 🎫	View Status History	View Name History
--	---	---------------------	-------------------

Figure 4.5 Status Fields

The (**IIII**) symbol next to the date field opens a calendar from which you can select a date, which is automatically entered into the *Status Date* field.

Once you have entered the required information for the Party, click the "Save" button. If you are creating a new Party, clicking the "Save" button after entering the Party Type information creates the new record and gives you access to the remaining tabs in the Party Editor.

Status and Name History Buttons

There are two buttons to the right of the *Status* fields. The "View Status History" button opens a new window to show a table with the history of

the Party status (Figure 4.6). The "View Name History" button shows a similar history of any changes made to the Party name (Figure 4.7).

	Status Histor	у
Value	Effective Date	End Date
nactive	2005-03-29	2005-03-29
Active	2005-03-29	2005-03-29
Active	2005-03-28	2005-03-28
Inactive	2005-02-15	2005-02-15
Active	2005-01-21	2005-01-21
Inactive	2005-01-21	2005-01-21
Active	2005-01-21	2005-01-21

Figure 4.6 Party Status History Table

		Name Histo	
l Date	End Date	Effective	Value
		2005-02-11	COMPANY
11	2005-02-11	2005-01-21	COMPANY
11	2005-02-11	2005-02-11	COMPANY1

Figure 4.7 Party Name History Table

Address Information

The Party address fields allow you to capture information for one or more addresses for the Party (Figure 4.8). Table 4.3 lists the address fields and gives an example of how they should be entered.

Addresses	
Address Type: Mailing 🐱	
Street Number: 12885 Street Direction:	Street Name: alcosta blvd, s Street Type: 💌
Suite/Apt/Mail Stop: City: san ramon	State: California 💙 Zip:
Country: USA 🗸	Foreign Postal Code: Delete this Address
Address Type: 🗸 🗸	
Street Number: Street Direction: 🗸 🗸	Street Name: Street Type: 💌
Suite/Apt/Mail Stop: City:	State: 🔽 Zip:
Country:	Foreign Postal Code:

Figure 4.8 Party Address Fields

Field Name	How to enter data for the address 1313 North Mockingbird Lane, San Jose, CA, 95116
Address Type	Select the appropriate address type from the drop-down menu.
Street Number	Enter "1313" into the field.
Street Direction	Select "North" from the drop-down menu.
Street Name	Enter "Mockingbird" into the field.
Street Type	Select "Lane" from the drop-down menu.
Suite/Apt Mail	Enter suite/apartment. information, if applicable (this
Stop	field remains blank for this address).
City	Enter "San Jose" into the field.
State	Select "CA" from the drop-down menu.
ZIP	Enter "95116" into the first of the two text fields. (Format should be 99999 in the first box and 9999 in the second. Only the first five digits are required.)
Country	Select "USA" from the drop-down menu.
Foreign Postal	Enter a foreign postal code, if applicable (this field
Code	remains blank for this address).

Table 4.3 Place Address Fields

Click the "Delete this Address" button to delete an address from the Party record. Once a new address has been entered and saved, a new blank row is inserted into the table (as in Figure 4.8).

Contact Information

The contact information fields allow you to enter electronic address information for the Party (Figure 4.9). Options include "Cellular", "Email", "Emergency Phone", "Fax", "Pager", "Phone and Fax", "Telephone", "Website", "Work Email", and "Work Phone". All numbers and addresses should be entered in a valid format. The "delete" hyperlink deletes the selected row from the Party record.

Contact Information * Telephone and fax numbers should be stored in this format: 999-999-9999				
Туре *	Number/Address			
Phone and Fax 🛛 👻	925-687-6700	<u>delete</u>		
×				

Figure 4.9 Contact Information Fields

As with the address table, a new blank row is inserted into the table as new contacts are entered and saved.

Identifiers

An identifier field can be found on most pages of the CIWQS interface. This generic field provides a way to attach unique numbers (or a combination of numbers and letters) to an entity. Within each Module, the list of identifier types is filtered to reflect options that are suitable for the entity (e.g., Place, Party, Violation, Regulatory Measures).

To add an identifier to the Party record, select an *Identifier Type* from the drop-down menu (Figure 4.10). Input the identifier and the start date (the date the identifier becomes effective or active). Optionally, you can enter text in the *Comments* field and enter an end date.

Identifiers					
Type *	Identifier *	Comment	Start Date *	End Date	
order number 💌	123456	< >	06/20/2005		<u>delete</u>
×		< >			

Figure 4.10 Party Identifiers



The system does not perform any data validation to make sure that the identifier is appropriate for the Party.



When you have entered or updated new information in the General Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

4.2.2 Related Parties Tab

The Related Parties tab allows you to link Parties to the current record (Figure 4.11). This is the means by which organizational structures (e.g., parent companies, subsidiaries, suppliers, employers, employees) are created.

When the Related Parties tab is viewed, the default is for only the active relationships (relationships with a start date of today's date or earlier and an end date later than today's date) to be displayed. If you wish to see inactive relationships, select the box with the label "Show Inactive Relationships" next to the "Save" button at the top of the tab.

Water Boants CIWQS	You a	Navigate to: e logged-in as: tetratech. If thi	is account does no		Help Log out			
Party								_
Party Name: BLAC	KSMITH HOMES			Status:	Active			
	nization			Party ID:	4747			
General Info Related P	arties Related Places Relate	ed Violations Regulatory Mea	asures Addn. Info					
Save 🔲 Show Inacti	ve Relationships							
Related Organizations								
Link an Organizatio	on							
	ation Name *	Role/Relatio	nship *	Comme	ent	Start Date *	End Da	ate
Related Persons								
Link a Person								
Person Name *	Role/Rela	tionship *	Comment	Start	Date *	End Da	ite	
mike temps	Legal representative	٠	~	10/20/1999				<u>Unlink</u>
			~					
time burke	Facility Contact	*	~	10/20/1999				<u>Unlink</u>
Related Persons at Orga	nization							
	<u> </u>							
Link Person at a								
	ole/Relationship *	Person Na			Comment	Start Date *	End Date	
BLACKSMITH HOMES	supervised by 🔽 BILL CLAIR	E Legal representative: Coa	chella Redevelopm	ent Agency 🔽	<u>^</u>	10/04/2005		Unlink
					~			

Figure 4.11 Related Parties Tab

There are three options for linking Parties to the record:

- Link an Organization
- Link a Person
- Link a Related Person at an Organization (establishes roles)

Linking People to a Party Record

Within the CIWQS system, a Person cannot be linked to another Person. When this tab is used to define relationships between Parties and the Party being defined is a Person, the "Link a Person" button and the associated table are disabled.

Party-to-Party relationships are limited in order for the relationships to be more clearly defined. The possible options for linking People and Organizations are demonstrated in the table below:

	Person	Organization	Person at Organization
Person	No	Yes	No
Organization	Yes	Yes	No
Person at Organization	No	No	Yes

E &

Link an Organization

Clicking the "Link an Organization" button launches the *Party Search* page with the *Party Type* field set to "Organization". Enter the appropriate search criteria and click the "Search" button. When you have found the Organization you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Organizations table (Figure 4.12).

To be linked to the current record, a Party must be pre-defined using the *Create/Maintain Parties* Module.

Related Organizations					
Link an Organization					
Organization Name *	Role/Relationship *	Comment	Start Date *	End Date	
DICKSON TESTING COMPANY	bound by a Memorandum of Understanding 💌	<	06/13/2005		<u>Unlink</u>

Figure 4.12 Linking an Organization

Additional information about the relationship with the linked Organization can be captured in the displayed fields. The *Role/Relationship* and *Start Date* fields are required for all linked Organizations.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Party and the linked Organization. The values available in the list change depending on the current Party Type. The Start Date indicates the date the relationship between the Parties became (becomes) effective.

Optionally, comments can be added to the *Comments* field and an *End Date* for the relationship can be established. The "Unlink" hyperlink removes the link to the Organization but does not delete the record for that Organization.

STOP

When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Link a Person

Clicking this button launches the *Party Search* page with the *Party Type* field set to "Person". Enter the appropriate search criteria and click the "Search" button. When you have found the Person you wish to link, click

the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Persons table (Figure 4.13).

Related Persons					
Link a Person					
Person Name *	Role/Relationship *	Comment	Start Date *	End Date	
Responsible Person	Is a Contractor Of 💌	< >	06/13/2005		<u>Unlink</u>

Figure 4.13 Linking a Person



Depending on your level of access, you might also be able to create a new record for a Person and then link the new Party record to the current record.

Additional information about the relationship with the linked Person can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked Persons.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Party (an Organization) and the linked Person. The start date indicates the date the relationship between the Parties became (becomes) effective.

Optionally, comments can be added to the *Comments* field and an end date for the relationship can be established. The "Unlink" hyperlink will remove the link to the Person but will not delete the record for that Person.

STOP

When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Link a Related Person at an Organization

This button allows you to link an affiliated Person to another affiliated Person or to an Organization. An affiliated person is a person who has been linked to an Organization with a specific role/relationship.

Clicking the "Link a Person at an Organization" button launches the *Party Search* page with the *Party Type* field set to "Person". As described above, enter the appropriate search criteria and click the "Search" button. When you have found the person you wish to link, click the "Select" hyperlink at the end of the corresponding row. This creates a new row in the Related Person at Organization table (Figure 4.14). Table 4.4 describes the options that can be selected in the table.

Related Persons at Organiz						
Current Party *	Role/Relationship *	Person Name *	Comment	Start Date *	End Date	
WHITESTONE PRODUCTS	managed by 👻	STEVEN BROWN Enforcement Contact: PICO RANCH 💌	< >	06/13/2005		<u>Unlink</u>

Figure 4.14 Linking a Person at an Organization

Table 4.4 Related Person at Organization Table

Field Name	Description
Current Party (role at Organization)	This field displays the name of the Party (Person or Organization) as defined on the General Information tab. This is not the Party that was just selected using the <i>Party Search</i> page. If the current Party is a Person, a drop-down menu is included in the Current Party field listing all the Organizations to which this Person has already been linked and the Person's role in the Organization. Select the appropriate Organization/role from the drop- down menu if necessary.
Role/Relationship	Select the role/relationship between the Current Party and the Party selected through the <i>Party Search</i> page from the drop-down menu.
Person Name (role at Organization)	This field displays the name of the Party selected through the <i>Party Search</i> page and a drop-down menu of all relationships this person has at his or her linked Organizations. Select the appropriate role from the drop-down menu.

An Example of Affiliation

John Smith (a Person) is an accountant for Company B (an Organization). John Smith is also a consultant for Companies A, B, and C (Organizations). In this example, John Smith has four affiliations: he has a role/relationship with Company B of "accountant" and a role/relationship with Companies A, B, and C of "consultant."

In this example, John Smith would be linked to Company B twice — once as an accountant and once as a consultant. He would be linked to Companies A and C once — as a consultant.

Select the appropriate values within the *Current Party, Role/Relationship*, and *Person Name* columns. Enter the date the relationship became effective in the *Start Date* field.

Optionally, enter comments in the *Comments* field and an end date for the relationship.

The "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.



When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

4.2.3 Related Places Tab

The Related Places tab allows you to link Places to the current record (Figure 4.15). Typically, this tab is used to link a Person or an Organization to a Facility.

	Navigate to: ou are logged-in as: tetratech. If this	account does not b	Menu Help Log ou v elong to you, please log ou		
rty					
rty Name: BLACKSMITH HOMES		Statu	s: Active		
pe: Organization		Party	ID: 4747		
eneral Info Related Parties Related Places F	elated Violations Regulatory Mea	sures Addn. Info			
Save Link a Place 🔲 Show Inactive Re	lationships				
Place Name*	Role/Relationshi	p*	Start Date*	End Date	
ANDREWS AT HIDDENBROOKE	Owner	~	10/20/1999		<u>Unlink</u>
Indicates required.					

Figure 4.15 Related Places Tab

When the Related Places tab is viewed, the default is for only the active relationships (relationships with a start date of today's date or earlier and an end date later than today's date) to be displayed. If you wish to see inactive relationships, select the box with the label "Show Inactive Relationships" next to the "Save" button at the top of the tab.

Clicking the "Link a Place" button launches the *Place Search* page. Enter the appropriate search criteria and click the "Search" button. When you have found the Place you wish to link, click the "Link" hyperlink at the end of the corresponding row. This creates a new row in the Related Places Table (as shown in Figure 4.15).

Additional information about the relationship with the linked Place can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked Places.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Place and the linked Place. The start date indicates the date the relationship became (becomes) effective.

STOP

When you have entered or updated new information in the Related Places tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

4.2.4 Related Violations Tab

The Related Violations tab displays all Violations related to the Party (Figure 4.16). It is not possible to add Violations to a Party using this tab. Violations must be created and assigned through the *Create/Maintain Violations Module*.

Water Resards C/	WQS	You are logged-in a	Navigate to: s: tetratech. If this accou		l <u>enu Help Loq out</u> Vou, please log out.
Party Name:	BLACKSMITH HOMES			Status:	Active
Туре:	Organization			Party ID:	4747
General Info	Related Parties Related Places	Related Violations	Regulatory Measures	Addn. Info	
Violation ID		Descrip	tion		Status
<u>139417</u>	Failed to submit a technical rep	ort by 8/31/99.			Violation
135651	Inadequate sediment controls				Violation

Figure 4.16 Related Violations Tab

```
e
```

See Chapter 9 for more information on the Violations Editor.

Clicking the hyperlink in the *Violation ID* field opens the record for the selected Violation in the Violations Editor.

4.2.5 Regulatory Measures Tab

The Regulatory Measures tab displays all Regulatory Measures related to the Party (Figure 4.17). It is not possible to add Regulatory Measures to a Party using this tab. Regulatory Measures must be created and assigned using the *Create/Maintain Regulatory Measures* Module.

Water Reards CIWQS You are logge	Navigate to: ed-in as: tetratech. If this account does not belor	Menu Help Log out	
Party Name: BLACKSMITH HOMES	Status:	Active	
Type: Organization	Party ID:	4747	
General Info Related Parties Related Places Related Viola	ations Regulatory Measures Addn. Info		
Show only Enforcement Actions			
Title	Regulatory Measure	Order Number	Effective Dates
2 48C311907	Enrollee	99-08DWQ	10/20/1999 -
Enforcement - 2 48C311907	Notice to Comply	UNKNOWN	01/19/2000 -
Enforcement - 2 48C311907	Notice of Violation	UNKNOWN	11/16/1999 -
Enforcement - 2 48C311907	13268 Letter	UNKNOWN	07/26/1999 -

Figure 4.17 Regulatory Measures Tab



See Chapter 5 for more information on the Regulatory Measure Editor.

Clicking the hyperlink in the *Title* field opens the record for the selected Regulatory Measure in the Regulatory Measure Editor.

4.2.6 Additional Information Tab

The Additional Information tab is designed to capture any relevant information that the other tabs do not address. Additional information is recorded by documenting various attributes that apply to a particular Place Type.

Because this page is used in several of the CIWQS Modules, it has been formatted to accept a wide range of data and information (Figure 4.18). The attributes that can be specified for a given Party are listed in the Attribute table.

Water Boards CIWQS		You are	logged-in :	Navigate to: as: tetratech. If this account		enu Help Log out vou, please log out.	
Party							
Party Name: BLACKSMITH	HOMES				Status:	Active	
Type: Organization					Party ID:	4747	
General Info Related Parties	Related Place	s Regula	atory Measu	ires Addn. Info			
Mult=Y allows multiple values wit Mult=N allows multiple values wi							
Save Show Inactive							
			Value*	Unit Of Measure	Start Date		

Figure 4.18 Additional Information tab

∎₽₽

Contact the CIWQS System Administrator if you wish to have an additional Party attribute added to the Additional Information tab.

When the Additional Information tab is viewed, the default is for only the active attributes (relationships with a Start Date of today's date or earlier and an End Date later than today's date) to be displayed. If you wish to see the inactive attributes, select the box with the label "Show Inactive" next to the "Save" button at the top of the tab.

All attributes allow multiple values to be entered by clicking the "add another" hyperlink at the end of the row. Only attributes with a value of "Y" in the *Mult* field allow entries with overlapping start and end dates.

The editable fields of the Attribute table are described in Table 4.5.

Field	Description
	This field displays an attribute that can be recorded for
Attribute	the Party. Required attributes have an asterisk (*)
munduc	prefix. This indicates that you are required to enter
	values for the <i>Value</i> and <i>Start Date</i> fields.
	Enter or select the value associated with the attribute.
Value	Depending on the attribute, this field may be displayed
value	as a text field or as a drop-down menu. If the field is a
	text field, no data validation takes place.
	Enter the date the attribute was first used/was first
Start Date	true about the Facility/was first measured/was fist
	reported/etc.
End Date	Enter the date the attribute was last used/was last true
Lifu Date	about the Facility/etc.

Table 4.5 Attribute Table Fields



When you have entered or updated new information in the Additional Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Regulatory Measures

This chapter addresses the following topics:

- Overview of Regulatory Measures
- How to Search for a Regulatory Measure
- How to Create and Edit Regulatory Measures

5.1 Introduction

The *Regulatory Measures* Module is where the specifications for eSMR reports are input and activated. The *Regulatory Measures* Module can be accessed from the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

Further information regarding the standardization of NPDES permits for data entry can be found in the procedures document "Coding California NPDES Permits for California Integrated Water Quality System (CIWQS)".

5.1.1 Searching for a Regulatory Measure

Selecting the *Create/Maintain Regulatory Measures* Module from the CIWQS Main Menu brings you to the *Regulatory Measure Search* page (Figure 5.1). This page is used by several CIWQS Modules to search for Regulatory measures and is representative of the types of search pages found throughout the CIWQS Modules.

From this page, you can use the search fields to find an existing Regulatory Measure or click the "Create New Regulatory Measure" button to create a new record. The search fields and a description of each are listed in table 5.1.

 \square

Water Boards CIWQS			igate to: ratech. If this account o	Menu Help Log out
Regulatory Meas	sure Search			
Enter search criteria	and click 'Search'.			
Number/Identifier:				
Identifier Type:	Any	*		
Regulatory Measure:	Any		*	
Water Board:	Any			*
Facility Name:				
Related Party Name:				
Program:	Any	*		
Search (Create New Regulatory	Measure		

Figure 5.1 Regulatory Measure Search Page

Table 5.1 Regulatory Measure Search Fields

Field Name	Description
Number/Identifier	Enter an identifier for the Regulatory Measure.
	This search engine cannot be used for indirect
	searches (e.g., you cannot search for a Regulatory
	Measure by a Place or Party Identifier).
Identifier Type	Select an identifier type from the drop-down menu.
Regulatory Measure	Select the type of Regulatory Measure from the
	drop-down menu.
Water Board	Select the number of the associated Water Board
	from the drop-down menu.
Facility Name	Enter the full or partial name of a Facility. The
	search is not case-sensitive.
Related Party Name	Enter the full or partial name of a Party (either an
	organization or last name) that is related to the
	targeted Regulatory Measure. The search is not
	case-sensitive.
Program	Select the related program from the drop-down
	menu.

Enter the appropriate criteria and click the "Search" button to initiate a search. The first 100 Regulatory Measures that match your search criteria (and that you have access to) are displayed in the results table (Figure 5.2).

Table 5.2 identifies the fields in the search results table and describes any related functions.

	Vavigate to tetratech.	: If this account does no		enu Help Loq out vou, please log out.			
Regulatory measure Search							
Click 'New Search' to initiate a new search with new criteria.							
Number/dentifier:							
Identifier Type: NPDES Number							
Regulatory Measure: Any	*						
Water Board: Any		~					
Facility Name:							
Related Party Name:							
Program: Any							
New Search Create New Regulatory Measure	-						
Your query has been limited to 100 results. You may add additional sea	irch criteria	to further target your s	earch resulf	ts.			n
Search Results:					Previou		140/4 10
Title	Program	Regulatory Mea	nsure	Number/Identifier	Facility	Effective Dates	Action
ADMINISTRATIVE CIVIL LIABILITY		NPDES Permits		CA0048194		- 09/20/2007	<u>Delete</u>
CONTINENTAL MARITIME OF SAN DIEGO INC. INDUSTRIAL PERMIT	NPDES	NPDES Permits		CA0109142	CONTINENTAL MARITIME SHIPYARD	11/13/2002 - 11/13/2007	<u>Delete</u>
DEWATERING, IRVINE, DENITRIFICATION FACILITY	NPDES	NPDES Permits		CA8000390	DEWATERING, IRVINE, DENITRIFICAT	12/03/2002 - 12/01/2007	<u>Delete</u>
DISCHARGES FROM AQUACULTURE AND AQUARIUMS		General Waste Disch Requirements	iarge	CAG993003		01/16/2003 - 09/23/2007	<u>Delete</u>
GENERAL GROUNDWATER CLEANUP PERMIT		General Waste Disch Requirements	large	CAG918001		07/16/2002 - 01/01/2007	<u>Delete</u>
General Order for Dewatering & Other Low Threat Discharges to Surface Waters (Fo		General Waste Disch Requirements	large	CAG995001		06/16/2000 - 06/16/2005	<u>Delete</u>

Figure 5.2 Search Results for Regulatory Measures

Table 5.2 Regulatory Measure Search Result Table

Field Name	Description
Title	This field displays the title of the Regulatory
	Measure as a hyperlink. Clicking this link opens
	the Regulatory Measure Editor.
Program	This field displays a comma-delimited list of
	programs associated with the Regulatory
	Measure.
Regulatory Measure	This field shows the Regulatory Measure type
	(e.g., "NPDES permit" or "ACL").
Number/Identifier	This field shows the identifier that matches the
	one entered, if one was entered. If no identifier
	was used in the search, or if multiple matches are
	found, the Order Number is displayed for Orders
	and the primary identifier is shown for other
	types of Regulatory Measures.
Facility	This field displays a comma-delimited list of
	associated Facilities.
Effective Dates	This field shows the effective start and
	expiration dates of the Regulatory Measure
	(MM/DD/YYYY format).

If the Regulatory Measure you are searching for appears in the Results table, you can access its record by clicking its Title. If the Regulatory Measure of interest does not appear, click the "New Search" button to refresh the page and clear the previous search.

Using the CIWQS Search Engine

The CIWQS search engine is based on an AND search. This means that it will look for places that match **all** of your search criteria. For example, you can select Water Board "1" and Regulatory Measure type "NPDES Permit" and the system will search for all Regulatory Measures that are both NPDES Permits and associated with Water Board 1. This search will not find records for NPDES Permits found outside of Water Board 1 or Regulatory Measures from Water Board 1 that are not NPDES Permits.

In addition, wildcards (place holder symbols such as "%", or "*") are not required for these searches, and the searches are not casesensitive. This means that entering "cap" in the Facility field will find "Capitol City Plant" and "Hardcap Stoneworks".

If the Regulatory Measure you are searching for appears in the Results table, you can access its record by clicking its Title. If the Regulatory Measure of interest does not appear, click the "New Search" button to refresh the page and clear the previous search.

Access Privileges

You will only be able to search for Regulatory Measures to which you have been granted access. If you are at a Regional Water Board, you will have access to all Regulatory Measures for which your Water Board has responsibility for all enrollees (Facilities) in the Regulatory Measures. In the case of Regulatory Measures that cross Water Board Regions, your User profile must indicate that you have access to data from all of the related regions. This functionality is designed to ensure that a User from one Regional Water Board does not have access to Regulatory Measures for another Water Board.

If you have trouble finding an existing Regulatory measure, try using fewer (or less stringent) search criteria. This broadens your search.

To delete the Regulatory Measure, click the "Delete" hyperlink in the *Action* column. You are prompted to verify that you wish to delete the record. Click "OK" to delete the record, or click "Cancel" to cancel the operation without deleting the record.



Only users with "Update" or "Super" access to this function will be able to delete Regulatory measures. Contact a System Administrator if you have questions regarding this feature.

LP

Only Regulatory Measures with no associated Places or Parties can be deleted.

5.1.2 Creating a New Regulatory Measure

When you create a new Regulatory Measure, you have the option of starting from scratch or copying from another (previously defined) Regulatory Measure. You may want to use the second option, for example, when you are entering a Regulatory Measure that replaces another (e.g., modification or renewal) or when a "template" Regulatory Measure has been created that is used as a model for other Regulatory Measures.

Information from previously established Regulatory Measures can be brought forward into new Regulatory Measures when a new record is created or when specifying Requirements for established Regulatory Measures.

To create a new Regulatory Measure, click the "Create New Regulatory Measure" button on the *Regulatory Measure Search* page. When a new Regulatory Measure is created, you are first asked, "Will the new regulatory measure amend, extend, or replace an existing regulatory measure?" (Figure 5.3).

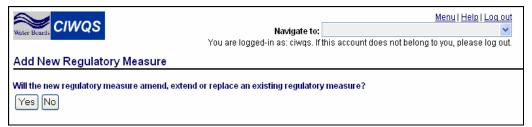


Figure 5.3 Prompt when Creating a new Regulatory Measure

If you wish to create a new Regulatory Measure from scratch, click "No". This brings you directly to the Regulatory Measure Editor (see Section 5.2).

If you elect to create a new Regulatory Measure that is based on a previous Regulatory Measure, click the "Yes" button. You are directed to the *Regulatory Measure Search* page from which you can search for and select the Regulatory Measure from which you would like to pull information.

Enter the appropriate search criteria and click the "Search" button. The Results table for this search is slightly different than the one described above (Figure 5.4).

Use the drop-down menu in the *Relationship* column to indicate how the new Regulatory Measure relates to the existing Regulatory Measure.

You are	Navigate e logged-in as: dem	Menu Heis tec to. If this account does not belong to you, pleas	*					
Regulatory Measure Search								
Click 'New Search' to initiate a new search with new crite Namber Identifier:	ria.							
Regulatory Measure: Any	V							
Water Board: Central Coast Regional Water Quali	ty Control Board	v						
Facility Name:								
Related Party Name:								
Program: Jay	~							
New Search Cancel								
Your query has been limited to 100 results. You may add ad	iditional search crite	ria to further target your search results.						
Search Results:						Previous 1-10 of 100	~	Next 1
Search Results: Title	Program	Regulatory Measure	Order Number Primary Identifier	Facility	Effective Dates	Previous 1-10 of 100 Relationship	_	_
Title	Program	Regidatory Measure NPDES permits		Facility	Effective Dates 09/20/2002 - 09/20/2007			Activ
TRIE ADMINISTRATIVE CIVIL, LIABILITY	Program Nonsubchapter 15			Facility BETTENCOURT DARY	09/20/2002 -	Relationship		Activ
THE ADMINISTRATIVE CIVIL LUBILITY BETTENCOURT DAIRY	Nonsubchapter	NPDES permits Individual Waste Dricharpe			09/20/2002 - 09/20/2007	Relationship Adopt a measure that replaces an existing one	*	Acti-
THE ADMINISTRATIVE CIVIL LUBILITY BETTENCOURT DAIRY CHATEAU MARGENE WINERY	Nonsubchapter 15 Nonsubchapter	NPDES permits Individual Waste Discharge Requirements Individual Waste Discharge		BETTENCOURT DAIRY CHATEAU MARGENE	09/20/2002 - 09/20/2007 05/31/2002 -	Relationship Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one	*	Activ Cost Cost
TEH ADMINISTRATIVE CARL LARBUTY BETTENCOURT DARRY CHATEAU MARGENE WINERY CLOSED, ABANDORED OR RIACTIVE LANDFILLS	Nonsubchapter 15 Nonsubchapter 15	NPDES permits Indhidual Waste Discharpe Requirements Indhidual Waste Discharpe Requirements		BETTENCOURT DAIRY CHATEAU MARGENE	09/20/2002 - 09/20/2007 - 05/21/2002 - 05/06/2002 -	Petativentap Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one	x x	Activ Cost Cost Cost
TEH ADMINISTRATIVE CIVIL LIABULTY BETTENCOURT DARRY CHATEAU MARGENE WHERRY CLOSED, ABANDONED OR HANCTIVE LIANDFILLS DESCHARGES FROM AQUACULTURE AND AQUARITME	Nonsubchapter 15 Nonsubchapter 15 Subchapter 15	NPDES permits Individual Waste Discharpe Requirements Individual Waste Discharpe Requirements General Waste Discharpe Requirements		BETTENCOURT DAIRY CHATEAU MARGENE	08/20/2002 - 09/20/2007 05/31/2002 - 05/06/2003 - 02/06/2003 - 02/06/2004 - 09/23/2002 -	Relativestig Adopt a measure that replaces an exciting one Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one	K K K	Acto Cos Cos Cos Cos
THE ADMINISTRATIVE CARL LARBUTY ADMINISTRATIVE CARL LARBUTY ADMINISTRATIVE CARL LARBUTY ADMINISTRATIVE AND ADMINISTRATIVE ADMINISTR	Nonsubchapter 15 Nonsubchapter 15 Subchapter 15 NPDES Nonsubchapter	NPDES permits Individual Vivide Discharge Regularments Openari Vivide Discharge Regularments Openari Vivide Discharge Regularments Individual Vivide Discharge Regularments Individual Vivide Discharge		BETTENCOURT DARY CHATEAU MARGENE WINERY FARM SUPPLY-PASO	09/20/2002 - 09/20/2007 09/31/2002 - 05/09/2002 - 05/09/2002 - 02/06/2003 - 02/06/2004 - 09/23/2002 - 09/23/2007	Relationship Adopt a measure that replaces an ensiting one Adopt a measure that replaces an existing one	C C C C	
TEH ADMINISTRATIVE CARL LARBUTY BETTENCOURT DARRY CHATEAU MARGENE WHERY CLOSED, ABANDONED OR HACTIVE LANDFILLS DEICHARGES FROM AGUNCULTURE AND AGUNRIUMS FARM SUPPLY - PAGO ROBLES FARM SUPPLY - PAGO ROBLES	Nonsutichapter 15 Nonsutichapter 15 Subchapter 15 Nonsutichapter 15 Nonsutichapter	NPDES permits Individual Wasts Discharge Regurments Individual Wasts Discharge Regurements General Wasts Discharge Regurements Individual Wasts Discharge Regurements Individual Wasts Discharge Regurements		BETTENCOURT DARY CHATEAU MARGENE WRIERY FARM SUPPLY-PASO ROBLES FARM SUPPLY-PASO	09/20/2002 - 09/20/2002 - 09/20/2007 05/09/2002 - 05/09/2003 - 02/06/2004 - 09/23/2007 09/23/2007 05/21/2002 -	Relativestig Adopt a measure that replaces an existing one Adopt a measure that replaces an existing one	K K K K K K	Activ Cost Cost Cost Cost Cost Cost
	Nonsubchapter 15 Nonsubchapter 15 Subchapter 15 Nonsubchapter 15 Nonsubchapter 15 Nonsubchapter	NPDES permits Individual Waste Discharps Requirments Individual Waste Discharps Requerements General Waste Discharps Requirements Orderal Waste Discharps Requerements Individual Waste Discharps Requerements Requerements		BETTENCOURT DARY CHATEAU MARGENE WRIERY FARM SUPPLY-PASO ROBLES FARM SUPPLY-PASO	09/20/2002 - 09/20/2002 - 09/20/2007 - 05/01/2002 - 05/01/2002 - 02/06/2004 - 09/23/2002 - 05/31/2002 - 05/31/2002 - 02/06/2004 -	Relationship Adopt a measure that replaces an existing one	K K K K K K	Next I Activ Cost Cost Cost Cost Cost Cost Cost

Figure 5.4 Regulatory Measure Search Results

Click the "Copy" hyperlink to select the Regulatory Measure as the source of information for the new Regulatory Measure.

All data, with the exception of identifiers, inspections, and tasks are copied. Identifiers, inspections and tasks need to be re-entered, as appropriate.

You will be asked whether you wish to copy all requirements from the source Regulatory Measure (Figure 5.5). If you do not wish to at this point, you may copy them one monitoring location at a time via the Requirements tab within the Regulatory Measure Editor (as discussed in Section 5.2.5).

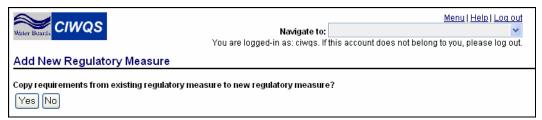


Figure 5.5 Choose whether you wish to copy Requirements

Selecting "Yes" copies all requirements from the source Regulatory Measure and brings you to the Regulatory Measure Editor. Selecting "No" brings you to the Regulatory Measure Editor without copying the requirements.

5.2 The Regulatory Measure Editor

Once you have chosen a Regulatory Measure to edit or elected to create a new Regulatory Measure, you are directed to the Regulatory Measure Editor.

There are 10 tabs on the Regulatory Measure Editor page, and each tab captures related sets of information about a Regulatory Measure.

- General Information Tab
- Related Parties Tab
- Related Places Tab
- Monitoring Locations Tab
- Requirements Tab
- Inspections Tab
- Tasks Tab
- Documents Tab
- Additional Information Tab
- Attachments Tab



For Regulatory Measures of an "Enforcement" type, an Enforcement tab also appears within the Regulatory Measure Editor. See Chapter 12 for more information on the Enforcement tab.

While individual tabs show different information, each has a common page header. The header shows the Regulatory Measure title, Order number, status, effective dates, and the number of the related Water Board.

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As information is saved within the Regulatory Measure Editor, the header information automatically refreshes to display any updated information.

5.2.1 General Information Tab

The General Information tab is the first page you see when you open the record for a Regulatory Measure or create a new Regulatory Measure (Figure 5.6). The General Information tab captures basic information including title, description, Order number, and identifiers.

Water Buards CIWQS		You are logged	Navigate to: -in as: demo. If this acci	Me ount does not belong to y	ou, please log out.	
	re Regulatory Mea	sure	Efi	fective Dates: 06/13/2	005 -	
Measure: Order Number:			101	ater Board:		
Status: Active	1		~~~	ater Board.		
	arties Related	Places Monitoring Locati	ons Requirements Ir	spections Tasks Doc	uments Addn. Info Atta	chments
Save			<u>, , , , , , , , , , , , , , , , , , , </u>	A		
Title:*	New Regulato	ry Measure				
Description:			~			
Regulatory Measure:*	NPDES perm	its	*	Order N	umber:	
Status:*	Active	~		Individua	al / General:* Individua	l 💌
Status Date:*	06/13/2005	(MM/DD/YYYY)	View Status	History		
SLIC	ogram*	Sub-Progra	Program Classificat			
Identifier T	ype*	Identifier*	Comment	Start Date*	End Date	Action
NPDES Number		123456	<u>^</u>	06/13/2005		Unlink
	*			(MM/DD/1111)	(MM/DD/1111)	
Dates						
Date Type*			Action			
Effective Date	06/13/2005	(MM/DD/////)	Unlink			
~		(MM/DD/1111)				
Related Regulatory Me	asures					
	ber/Identifier	Relation	nship/Reason*	Action		
48192594001-1 1		Enforcing		Unlink		
				~		
Link a Regula	tory Measure			i		

Figure 5.6 General Information Tab

When you are creating a new Regulatory Measure, the General Information tab is the only one available for data entry until all required fields on the tab are filled out and the record has been saved. Saving the record activates the remaining tabs.

Required Fields

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

In some instances, however, indicated fields are only required if you enter data into one field out of a group of several. For example, no value is required in the Relationship/Reason field at the bottom of the form unless a Regulatory Measure is linked to the current record. The Title, Regulatory Measure (type), Status, Status Date, Order Number, Permit Type (Individual/General), Identifier Type, Identifier (value), Date Type and Date fields are required before a Regulatory Measure can be saved.

The "Save" button is only activated once new information has been added or removed from the tab. By default, it is inactive when the Regulatory Measure Editor is first opened.

Regulatory Measure Information

Basic information about a Regulatory Measure is captured in the fields in the upper part of the General Information tab (Figure 5.7). These fields include *Title*, *Description*, *Regulatory Measure* type, *Order Number*, *Status*, Permit Type (*Individual/General*) and *Status Date*.

Save			
Title:*	New Regulatory Measure]	
Description:	<u>^</u>		
	×		
Regulatory Measure:*	NPDES permits	Order Number:	
Status:*	Active	Individual / General:*	Individual 🛩
Status Date:*	06/13/2005 (MM/DD/YYY) IIII View St	atus History	

Figure 5.7 Basic Regulatory Measure Information

Table 5.3 describes the basic information fields and their requirements.

Next to the *Status Date* field is the "View Status History" button. Clicking this button opens a new window to display the history of changes made to the status of the Regulatory Measure (Figure 5.8).

Water Boards CIWQS	Naviga You are logged-in as: de Status History	ite to: mo. If this account does not be	Menu Help Log out
	Value	As of Date	
	Under Development	06/14/2005	
	Active	06/15/2005	
		·	4





See Chapter 1 for more information on pop-up windows in CIWQS.

Field Name	Description	Required
Title	Enter the name or a brief description of the Regulatory Measure.	Y
Description	Enter a description of the Regulatory Measure.	Ν
Regulatory Measure (type)	Select the type of Regulatory Measure (e.g., ACL, NPDES Permit) from the drop-down menu.	Y
Order Number	Enter the number for the Order. This field is only enabled for Regulatory Measures of certain types (e.g., NPDES Permits).	Y
Status	Select the Status from the drop-down menu.	Y
Status Date	Enter the date the current status became effective in the format (MM/DD/YYYY). Selecting the (IIII) symbol next to the date field opens a calendar from which you can select a date that is automatically entered into the <i>Status Date</i> field.	Y
Individual/ General	Indicate whether the Regulatory Measure (if type "Order) is an Individual or General permit. This selection is important because it controls how the system behaves when multiple Facilities are assigned (enrolled) to an Order.	Y

Table 5.3 Basic Information Fields

Regulatory Programs

The next section of the tab captures information about the program under which the Regulatory Measure is issued (Figure 5.9). To indicate the related regulatory program, select a value from the *Program* drop-down menu (required). This refreshes the *Sub-Program* (only enabled for certain Programs) and *Program Classification* fields to display default options (if relevant values exist). Change the values in these fields as appropriate.

Regulatory Programs						
Program*	Sub-Program	Program Classification	Action			
NPDES			<u>Unlink</u>			
	~	~				

Figure 5.9 Regulatory Programs Fields

Once the record has been saved, the Action field displays an "Unlink" hyperlink. Click this link to unlink the program from the Regulatory Measure and delete the row from the table.

A new, blank row is added to the Regulatory Programs table when the record is saved.

Identifiers

An identifier field can be found on most pages of the CIWQS interface. This generic field provides a way to attach unique numbers (or a combination of numbers and letters) to an entity. Within each module, the list of identifier types is filtered to reflect options that are suitable for the entity (Place, Party, Violation, Regulatory Measure, etc.).

To add an identifier to the record, select an *Identifier Typ*e from the dropdown menu (Figure 5.10). Input the Identifier and the Start Date (the date the identifier became or becomes active). Optionally, you can enter text in the *Comments* field and enter an End Date.

Identifier Type*	Identifier*	Comment	Start Date*	End Date	Action
NPDES Number	123456	~ ~	06/13/2005		<u>Unlink</u>
			(MM/DD/YYYY)	(MM/DD/1111)	

Figure 5.10 Identifier Fields

Once the record has been saved, the Action field displays an "Unlink" hyperlink. Click this link to unlink the Identifier for the Regulatory Measure and delete the row from the table.

Dates

The *Dates* fields allow you to add one or more related dates to a record (Figure 5.11). At least one date must be entered for a Regulatory Measure before the record can be saved. Select a Date Type from the drop-down menu. Next, enter the related Date in the format (MM/DD/YYYY).

Dates							
Date Type*	Date*	Action					
Effective Date	05/09/2005 (MM/DD/YYYY)	<u>Unlink</u>					
×	(MM/DD/////)						

Figure 5.11 Date Fields

Once the record has been saved, the Action field displays an "Unlink" hyperlink. Click this link to unlink the date for the Regulatory Measure and delete the row from the table.



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When you have entered or updated new information in the General Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Related Regulatory Measures

The last group of fields on the General Information tab represents those that allow you to link a related Regulatory Measure to the current record.

For more information on related Regulatory Measures, see section 5.3.2.

To link a Regulatory Measure, click the "Link a Regulatory Measure" button. This launches the *Regulatory Measure Search* page. Enter the appropriate search criteria for the Regulatory Measure you would like to link and click the "Search" button.

Click the "link" hyperlink at the end of the row in the Search Results table to link the selected Regulatory Measure to the current record. The selected Regulatory Measure appears in the table at the bottom of the General Information tab (Figure 5.12). Select a *Relationship/Reason* from the drop-down menu to indicate how the linked record is related to the current record.

Related Regulator Title	y measures Number/Identifier	Relationship/Reason*	Action
4B192594001-1	1	Enforcing	<u>Unlink</u>
		▼	
Link a Re	egulatory Measure		

Figure 5.12 Related Regulatory Measure Fields

Once the record has been saved, the Action field displays an "Unlink" hyperlink. Click this link to unlink the Regulatory Measure and delete the row from the table.

When information has been entered in all of the required fields, click the "Save" button to save the record. Once the record has been saved, the

header information at the top of the page is refreshed and the remaining tabs are available for data entry.



When you have entered or updated new information in the General Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.2.2 Related Parties Tab

The Related Parties tab allows you to link Parties (People and Organizations) to the Regulatory Measure (Figure 5.13).



See Chapter 4 for more information on Parties.

When the Related Parties tab is first opened, the default is for only the active relationships to be displayed (relationships with a Start Date with today's date or earlier and an End Date later than today's date). If you wish to see inactive relationships instead, select the box next to the "Save" button at the top of the tab with the label "Show Inactive Relationships".



Each Party can be associated either with one of the linked Facilities (see section 5.2.3) or the Regulatory Measure.

Water Buards CIWQS	;	You are logged	Navigate to: -in as: ciwqs. If th	iis account does no	<u>Menu Help</u> t belong to you, pleas	~			
Regulatory Meas	ure								
Regulatory Nev Measure:	w Regula	tory Measure		Effective Dates	: 05/09/2005 -				
Order Number: 123	3456			Water Board:					
Status: Acti	ive								
General Info Related	Parties	Related Places Monitoring Locati	ons Requireme	nts Inspections	Fasks Documents	Addn. Info	Attachmen	ts	
Save 🗌 Show Ina	ictive Rela	tionships							
Related Organizations									
Link an Organiza	ation)							
Organization*		Relationship*		Comment	Start Date*		E	nd Date	
Test One Company		Discharger 💌			05/09/2005				<u>Jnlink</u>
Related Persons at Or	rganizatio	n							
Link a Persor	n at an O	rganization							
Person*		Role at Organization*	Rela	tionship*	Comment	Star	t Date*	End Date	
Responsible Officer	Is Empl	oyed By: Test One Company 💌	Project/Liability	Responsibility 🗸	~	05/09/20	05		Unlink

Figure 5.13 Related Parties Tab

There are two options for linking Parties to the record:

- Link an Organization
- Link a Related Person at an Organization (establishes roles)

Link an Organization

Clicking the "Link an Organization" button launches the *Party Search* page with the *Organization* checkbox pre-selected (the Person checkbox will be clear). Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Regulatory Measure without linking an Organization.

When you have found the Organization you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Organizations table (Figure 5.14).

Related Organizations					
Organization*	Relationship*	Comment	Start Date*	End Date	
<u>3M COMPANY</u>	Overseeing		06/13/2005		<u>Unlink</u>
Lahontan Regional Water Quality Control Board	Inspector 💌	<	06/14/2005		<u>Unlink</u>

Figure 5.14 Linked Organization Table



A Party must be pre-defined via the *Create/Maintain Parties* Module to be linked to the current record.

Information about the relationship with the linked Organization can be captured in the displayed fields. Choose a value from the *Relationship* drop-down menu to establish the relationship between the current Regulatory Measure and the linked Organization. Enter a *Start Date* to indicate the date the relationship became (becomes) effective.

Optionally, comments can be added to the *Comments* field, and an End Date for the relationship can be entered. Click the "Unlink" hyperlink to remove the link to the Organization. This does not delete the record for that Organization.



When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Link a Related Person at an Organization

Clicking the "Link a Related Person at an Organization" button allows you to link an affiliated Person to the Regulatory Measure. An affiliated Person is a Person who has already been linked to an Organization (via the *Create/Maintain Parties Module*) with a specific role/relationship.

Clicking the "Link a Related Person at an Organization" button launches the *Party Search* page with the Person checkbox pre-selected (the Organization checkbox will be clear). Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Regulatory Measure without linking a Person.

When you have found the person you wish to link, click the "Select" hyperlink at the end of the corresponding row. This creates a new row in the Related Persons at Organization table (Figure 5.15).

Related Persons at Organization							
Person*	Role at Organization*	Relationship*	Comment	Start Date*	End Date		
<u>Cynthia Brown</u>	Inspector: Lahontan Regional Water Quality Control Board 💌	Inspector 💌	<	06/14/2005		<u>Unlink</u>	
LOUIS SMITH	Legal representative: US CELLULOSE 💌	User	<	06/14/2005		<u>Unlink</u>	

Figure 5.15 Related Persons at Organization Table

Within this table, select the appropriate values from the *Role at Organization* (establishes the relationship between the linked Person and his or her affiliated Organization) and *Relationship* (establishes the connection between the Regulatory measure and the Person) drop-down menus. Enter the date the relationship became (becomes) effective in the *Start Date* field.

Optionally, enter comments in the *Comments* field and an *End Date* for the relationship. Clicking the "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.



When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.2.3 Related Places Tab

The Related Places tab allows you to link Places (enrolled Facilities, for example) to the current record (Figure 5.16).

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See Chapter 3 for more information on Places.

When the Related Places tab is viewed, the default is for only the active relationships (relationships with a Start Date of today's date or earlier and an End Date later than today's date) to be displayed. If you wish to see inactive relationships instead, select the box with the label "Show Inactive Relationships" next to the "Save" button at the top of the tab.

Water Boards CIW	QS	Navigate You are logged-in as: demo		elip Log out ease log out.	
Regulatory M	easure				
Regulatory Measure:	New Regulatory Meas	ure	Effective Dates: 06/13/2005 -		
Order Number:	987654		Water Board:		
	Active lated Parties Related P a Place Show Ir	Places (Monitoring Locations) (Requir	ements Inspections Tasks Document	s Addn. Info Attachments	
Plac	ce Name*	Role/Relationship*	Start Date*	End Date	
<u>002</u>		Discharging 🗸	06/13/2005		<u>Unlink</u>
<u>005</u>		Discharging 🗸	06/13/2005		Unlink
<u>007</u>		Discharging 🔽	06/13/2005		<u>Unlink</u>
<u>3M Pharmaceutic</u>	als	Discharging 🔽	06/13/2005		<u>Unlink</u>

Figure 5.16 Related Places Tab



For the purpose of associating Discharge Points to a Regulatory Measure (see section 5.2.4), you only need to link the related Facility. All Discharge Points related to linked Facilities are accessible (via the Monitoring Locations tab) without explicitly linking them to the Regulatory Measure.

Clicking the "Link a Place" button launches the *Place Search* page. Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Regulatory Measure without linking a Place.

When you have found the Place you wish to link, click the "Select" hyperlink at the end of the corresponding row. This creates a new row in the Related Places table.

Within this table, select the appropriate values from the *Role/Relationship* field. This establishes the reason for the link between the Place and the

Regulatory Measure. Enter the date the relationship became (becomes) effective in the *Start Date* field.

Optionally, enter an End Date for the relationship. Clicking the "Unlink" hyperlink removes the link to the Place but will not delete the record for that Place.



When you have entered or updated new information in the Related Places tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.2.4 Monitoring Locations Tab

The Monitoring Locations tab allows you to collect information about Monitoring Locations as defined within a Regulatory Measure (Figure 5.17). Monitoring Locations are the basic element on which many requirements are placed and for which raw and pre-calculated data are reported.

Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out. Regulatory Measure								
Regulatory New Re Measure:	gulatory Measure			Effective Dates:	06/13/20	105 -		
Order Number: 987654				Water Board:				
Status: Active								
General Info Related Par	ties Related Places Mor	itoring Lo	ations Requirements	Inspections T:	asks Docu	ments Add	dn. Info Attachments	
Create a New Monitoring Location								
Facility	Туре	ID	Name	Description	Latitude	Longitude	Associated Discharge Points	
3M Pharmaceuticals	effluent monitoring	M002	Effluent location				007	delete
3M Pharmaceuticals	influent monitoring	M001	water intake pipe				002	delete

Figure 5.17 Monitoring Locations Tab

Monitoring Locations are linked to Discharge Points (Places). All Discharge Points associated with linked Facilities (via the Related Places tab) are accessible through this tab without having to link each Discharge Point individually.

Unlike Discharge Points, Monitoring Locations are specific to a Facility and are specific to a Regulatory Measure. Discharge Points are only specific to a Facility.

To add a new Monitoring Location, click the "Create a new Monitoring Location" button. This opens the *Add Monitoring Location* page within the Monitoring Locations tab (Figure 5.18).

Here, you can enter data into the fields to create a record for a new Monitoring Location associated with the current Regulatory Measure. Table 5.4 describes the fields on the *Add Monitoring Location* page.

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Water Buarls C/W	(QS	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out.
Regulatory N	leasure	
Regulatory Measure:	New Regulatory Measur	e Effective Dates: 05/09/2005 -
Order Number:	123456	Water Board:
Status:	Active	
General Info Re	elated Parties Related Pla	ces) Monitoring Locations Requirements Inspections Tasks Documents Addn. Info Attachments
Add Monitoring L Save Cance		
Facility*:		v
Identifier*:		
Type*:		
Waterbody:		
Name*:		
Description:		
Latitude:		degminsecORdecimal degrees
Longitude:		degminsecORdecimal degrees
Scale:		✓
Source/Method:		▼
Accuracy:		
Datum:		▼
Place a check ne	et to all discharge points a	ssocitated with this monitoring location.
A	ssociated	Discharge Point ID
* - Indicates requ	ired	

Figure 5.18 Add Monitoring Location Page

Table 5.4 Add Monitoring Location Fields

Field Name	Description
Facility	Select the name of the associated Facility from the drop-
Гаспич	down menu.
Identifier	Enter the number (or string of alphanumeric characters)
Identifier	assigned to the Monitoring Location.
Туре	Select the type of Monitoring Location (e.g., influent,
турс	receiving waters).
	If the Monitoring Location Type is "receiving water," this
Waterbody	is a required field. This field is optional for other
water boury	Monitoring Location types. All Places of type "waterbody"
	(or equivalent) are available.
Name	Enter a brief name for the Monitoring Location.
Description	Enter a description of the Monitoring Location.
Latitude	Enter the latitude for the Monitoring Location in
Latitude	degrees/minutes/seconds or decimal degrees.
Longitude	Enter the longitude for the Monitoring Location in
Longitude	degrees/minutes/seconds or decimal degrees.
Scale	Select the geographic scale from the drop-down menu.
Source/Method	Select the source of the geographic data from the drop-
Source/ Method	down menu (e.g., GPS).
Accuracy	Select the accuracy level for the geographic data from the
Accuracy	drop-down menu (e.g., 5 meters).
Datum	Select the datum for the geographic data from the drop-
Datum	down menu (e.g., NAD83).

Recording Latitude and Longitude in CIWQS

Latitude and Longitude coordinates can be entered in the form of degrees/minutes/seconds or decimal degrees. If the user enters decimal degrees, the system converts to degrees/minutes/ seconds when the user tabs out of the decimal degrees field. If the user enters degrees, minutes, or seconds, the system converts to decimal degrees when the user tabs out of one of these fields.

When creating a new record, keep in mind that:

- 1. Each Monitoring Location is linked to a single Facility. The Monitoring Location can be linked to any Facility that has been related to the Regulatory Measure via the Related Places tab.
- 2. Each Monitoring Location is related to at least one Place within an associated Facility (e.g., Discharge Point).

When a Monitoring Location is linked to a Facility, the table at the bottom of the page refreshes to show all Discharge Points related to that facility.

Select the Discharge Point(s) you would like to associate with the Monitoring Location by selecting the checkbox in the appropriate row(s) (Figure 5.19).

Place a check next to all discharge points associtated with this monitoring location.					
Associated	Discharge Point ID				
	200924: 001				
	200944: 002				
	200945: 003				
	200951:005				
	200953: 007				

Figure 5.19 Associated Discharge Points

To save the information recorded for the Monitoring Location, click the "Save Monitoring Location" at the top of the page. To return to the Regulatory Measure Editor without creating a new Monitoring Location, click the "Cancel" button.



When you have entered or updated new information in the Monitoring Requirements tab, be sure to click the "Save" button at the top of the tab to avoid loss of data. The Monitoring Location you have created is listed on the Monitoring Location tab within the table (Figure 5.20). The table lists the information recorded on the Add Monitoring Location page. The fields are read-only. Click on the name of the Monitoring Location to open the *Add Monitoring Location* page and edit the record.

Menu Help Lea out Menu Help Lea out Navigate to: ✓ You are logged-in as: demo. If this account does not belong to you, please log out.									
Regulatory N	leasure								
Regulatory Measure:	New Reg	ulatory Measure			Effective Dates:	06/13/20	005 -		
Order Number:	987654				Water Board:				
Status:	Active								
General Info Re	elated Partie	s Related Places	Monitoring Lo	cations Requirements	Inspections T	asks Docu	uments Ad	dn. Info Attachments	
Create a New Monitoring Location									
Facility	·	Туре	ID	Name	Description	Latitude	Longitude	Associated Discharge Points	
3M Pharmaceutic	als	effluent monitoring	M002	Effluent location				007	<u>delete</u>
3M Pharmaceutic	a la la	nfluent monitorina	M001	water intake pipe				002	delete

Figure 5.20 Defined Monitoring Locations

Click the "delete" hyperlink within the appropriate row of the table to delete the Monitoring Location.

Only Monitoring Locations that have no associated requirements can be deleted.

5.2.5 Requirements Tab

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The Requirements tab allows you to create narrative and numeric/limit requirements (including monitoring and sampling) and to link these requirements to reporting schedules.

From this tab it is possible to:

- Add Narrative Requirements
- Add Numeric Requirements
- Set Reporting Schedules
- Copy Requirements from another Order
- Activate a Regulatory Measure to eSMR
- Delete previously established Requirements

These actions are performed using the various buttons at the top of the tab. A list of Requirements that have already been established for the Regulatory Measure are shown in the Requirements table (Figure 5.21).

Water I	Buarts CIWQS		Menu Helip Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.				
_	ulatory measure ulatory New Regulati	orv Measure	Effective Dates: 06/13/2005 -				
	sure:						
	er Number: 987654		Water Board:				
Stati Gen		Related Pla	ces Monitoring Locations Requirements Inspections Tasks Documents Addn. Info Attachments				
Apply Filter Monitoring Location: ANY Type: Add Narrative Requirement Set Reporting Schedules Copy Requirements From Order							
	ESMR Activation	Delete Sel	ected	_			
	Monitoring Location	Туре	Requirement	-			
		Narrative	Temperature Difference Between Intake and Discharge (Deg. C): (Final requirement effective null - null)[All year] PCS Parameter code : 61577	edit	<u>delete</u>		
	3M Pharmaceuticals / Mercury, Total: (Final requirement effective null - null)[January February March May June August September November December] PCS edit delete Parameter code : 71900						
	MPharmaceuticals / Narrative Lead, Total: (Interim requirement effective 2005-05-05-2006-06-06)[All year] PCS Parameter code : 01051						
	3M Pharmaceuticals / Numeric Volatile Suspended Solids (VSS)<10.0, Limit Basis: Not Limited, Sampling Frequency: 1 / Week, Sampling Type: Grab. (All Year) PCS Parameter edit delete code: 00535						
	3M Pharmaceuticals / Numeric Bicarbonate Ion (as HCO3)<10.0, Limit Basis: Not Limited, Sampling Frequency: 1 / Week, Sampling Type: Grab. [All Year] PCS Parameter code : edit delete 00440						

Figure 5.21 Requirements Tab

The Requirements table displays all Requirements linked to the Regulatory Measure. You can select multiple Requirements by selecting the checkboxes preceding each row. Requirements can be edited by clicking the "edit" link or deleted by clicking the "delete" hyperlink.

Each Regulatory Measure can have many related Requirements. The fields at the top of the tab allow you to filter the related Requirements to find the Requirement you wish to edit or change (Figure 5.22).

Apply Filter	
Monitoring Location:	ANY 💌
Туре:	ANY 🗸

Figure 5.22 Requirements Filter Fields

Select a *Monitoring Location* from the drop-down menu to filter Requirements based on a Monitoring Location. Select a Requirement type from the *Type* drop-down menu to filter Requirements by this characteristic. Click the "Apply Filter" button to find the Monitoring Locations that match your search criteria.

Types of Requirements

There are three basic types of Requirements:

Narrative

- Numeric (including limits and monitoring requirements)
- Reporting

Narrative Requirements are text-based, and most are created for the entire Regulatory Measure or Facility. In some cases, however, a Narrative Requirement may be written for a specific Monitoring Location or for multiple monitoring locations.

Limit and Monitoring Requirements are closely related and so can be entered on a single form. These Requirements require the creation of Numeric Requirements. Limit/Monitoring Requirements are typically associated with a specific Monitoring Location.

Reporting Requirements are used by the system to determine what reports are due.

Create a Narrative Requirement

To create a Narrative Requirement, click the "Add Narrative Requirement" button below the filter fields. This opens the *Add Narrative Requirement* page (Figure 5.23). This page allows you to enter information for a specific requirement.

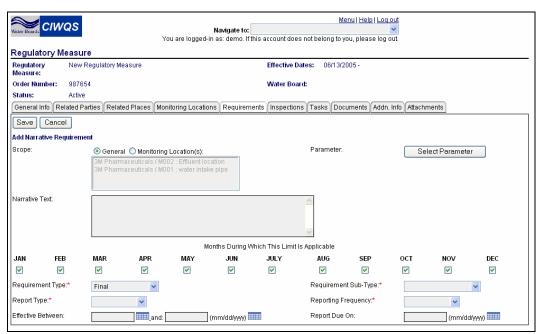


Figure 5.23 Add Narrative Requirement Page

To create a Narrative Requirement, you must:

1. Determine the scope of the Requirement

- 2. Indicate the Parameter to which to Requirement applies
- 3. Provide a description of the Requirement
- 4. Establish Reporting Requirements (applicable sampling months, Report type, Report frequency, due dates)
- 5. Indicate Effective Dates
- 6. Select the Requirement Type

These steps are covered in detail below.

Scope

Indicate whether the Requirement applies to the entire Regulatory Measure ("General") or whether the Requirement applies to a single Monitoring Location by selecting the appropriate *Scope* radio button.

If multiple Facilities are assigned to this Regulatory Measure and "General" is selected (default), the Requirement is applied to all Monitoring Locations and all Facilities.

If "Monitoring Location" is selected, the Scope list-box is enabled and lists all Monitoring Locations defined within this Regulatory Measure. Each Monitoring Location is displayed with the information "Facility Name/Monitoring Location ID: Monitoring Location Name".

Select one or more (by holding down the "Ctrl" key while making your selections) Monitoring Locations from the list.

Selection of a Monitoring Location implies selection of a Facility, as each Monitoring Location is assigned to one and only one Facility.

Parameter

The *Parameter* field lists the Parameter associated with the Requirement. This field is read-only and is populated with the information selected using the Parameter Search.

To assign a Parameter to a Narrative Requirement, click the "Parameter" button. This launches the *Parameter Search* page (Figure 5.24).

The *Parameter Search* page was created to simplify the entry of Parameters, which often have synonyms and complex spellings. By searching, you do not have to type "official" parameter lists or scroll through a long list.

Water Boards CIWQ	s	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out
Parameter Search Enter search criteria	and click 'Search'.	
Identifier	Value	
Parameter Name		
STORET Number		
CAS Number		
PCS Number		
Search Cance	Parameter Reference List	

Figure 5.24 Parameter Search Page

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Table 5.5 describes the search field requirements.

Clicking the "Parameter Reference List" hyperlink within the search area opens a new window with a list of Parameter names and their synonyms.

When you have entered the appropriate search terms, click the "Search" button.

You must enter search criteria into at least one field to search for Parameters.

Field Name	Description
Parameter Name	Enter all or part of the name of a Parameter or one
	of its synonyms (not including fraction and
	measurement type). No wildcards are required.
	The system searches for any parameter or synonym
	that contains the text. If the match is made on a
	synonym, the synonym is shown in the results table.
STORET Number	Enter in the STORET number of the Parameter.
	The entire number must be entered.
CAS Number	Enter in the CAS number of the Parameter. The
	entire number must be entered.
PCS Number	Enter in the PCS number of the Parameter. The
	entire number must be entered.

 Table 5.5 Parameter Search Fields

The results table lists the Parameters that meet your search criteria (Figure 5.25). To select a Parameter to add to the Narrative Requirement, click the "Select" hyperlink. This returns you to the *Add Narrative Requirement* page, and the selected Parameter is listed in the *Parameter* field.

Water Boards CIWQS	You are logge	Navigate t d-in as: ciwqs	to: . If this account do	es not belong	<u>Menu Help </u> to you, please	~
Parameter Search Click 'New Search' to initiate a ne	ew search with new criteria.					
Identifier	Value					
Parameter Name tempera	ature					
STORET Number						
CAS Number						
PCS Number						
New Search Cancel	Parameter Reference List					
Searching Result: 6 of 6				Previo	us 1-6 of 6	🖌 Next
Para	neter	Synonym	STORET Number	CAS Number	PCS Number	Action
Temperature Difference Betweer) Intake and Discharge (Deg. C)	Degrees C, Degrees F			61577	<u>Select</u>
Temperature Difference Betweer	Intake and Discharge (Deg. F)	Degrees C, Degrees F			61576	<u>Select</u>
Temperature Difference Betweer	Degrees C, Degrees F			00016	<u>Select</u>	
Temperature Difference Betweer	n Sample and Upstream (Deg. F)	Degrees C, Degrees F			00018	<u>Select</u>
Temperature, Deg. Centigrade		Degrees C, Degrees F			00010	<u>Select</u>
Temperature, Deg. Fahrenheit		Degrees C, Degrees F			00011	<u>Select</u>

Figure 5.25 Parameter Search Results

Click the "Cancel" button to return to the Regulatory Measure Module without adding (or changing) a Parameter.

Narrative Text

Once a Parameter has been selected, add the narrative text of the Requirement in the *Narrative Text* field.

Applicable Months

Use the *Applicable Months* checkboxes to indicate the months for which this requirement is applicable. These 12 checkboxes are, by default, selected. If selected, this indicates that this Requirement is applicable during that month.

Remaining Fields

Table 5.6 lists the remaining fields on this page and describes each one.

When you have entered all of the information for the Narrative Requirement, click the "Save" button at the top of the tab to save your information. Click the "Cancel" button to return to the Requirements tab without saving the Narrative Requirement.

Applicable Months

Examples of sampling month combinations:

Sample once per year, report in the next monthly report; Jan = Yes, Feb = Yes, March = Yes,..., Dec = Yes (the sample may be taken in any month)

Sample in February and report on the next monthly report; Jan = No, Feb = Yes, March = No,..., Dec = No

Sample in any summer (June, July, August) month and report on the next monthly report; Jan = No, Feb = No,..., May = No, June = Yes, July = Yes, Aug = Yes, Sept = No,...

Field Name	Description
Requirement Type	Select the type of Requirement from the
Requirement Type	drop-down menu.
Requirement Sub-Type	Select the Requirement Sub-Type from the
Requirement Sub Type	drop-down menu (if applicable).
	Select the report type on which this
Report Type	Requirement will appear. Choices include:
	SMR, Supplemental Report, One-time, etc.
	Select the report (monthly report, quarterly
	report, semi-annual report, or annual
Poporting Frequency	report) on which this Requirement is to be
Reporting Frequency	reported. This field is only enabled if a
	repeating report type (such as "SMR") is
	selected.
	Enter the dates the Requirement is
	effective. By default, the fields are left
Effective Between	blank. This indicates that the Requirement
	is effective for the entire lifetime of the
	Regulatory Measure.
	Enter the specific date on which the report
Popert Due On	is due. This field is enabled only if a one-
Report Due On	time report type (such as "Supplemental" or
	"One-Time") is selected.

Table 5.6 Additional Narrative Requirement Fields

Floating Reports

A floating report (selected via the *Reporting Frequency* field) is used for limits in which the sample can be taken at a time of the Discharger's choosing (within certain restrictions). In these cases, the Discharger is asked to submit the results of the sample on the next monthly report. Selecting *floating* indicates that the Discharger may sample in any month marked with a "Y" in "Allowed Sampling Months."

On each month's report, the Discharger has the option of reporting the sample values (or pre-calculated result) in support of this requirement. The error checker will **not** identify missing values in this case, since it is not a non-compliance event (potential violation) until the year has ended. Only then will the compliance checker determine if the Discharger has a non-reporting violation (i.e., if no sample results were reported in support of the requirement in a twelve-month period).

Create a Numeric Requirement

To add a Limit/Monitoring Requirement, click the "Add Numeric Requirement" button. This opens the *Add Numeric Requirements* page (Figure 5.26).

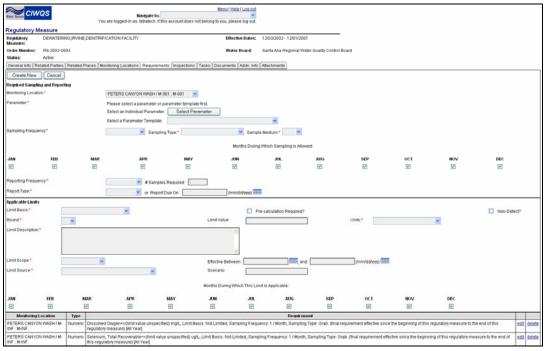


Figure 5.26 Add Numeric Requirements Page

The *Add Numeric Requirements* page is divided into three sections: Required Sampling and Reporting, Applicable Limits, and the Numeric Requirements table. The first two sections allow you to capture information for a new Numeric Requirement. The Requirements table lists the Numeric Requirements that have already been established for the Regulatory Measure.

Click the "Cancel" button at any time to return to the Requirements tab without creating a new Numeric Requirement.

To create a Numeric Requirement, you must:

- 1. Indicate the Parameter to which to Requirement applies
- 2. Indicate the related Monitoring Requirement
- 3. Indicate the sampling type, frequency, and medium as well as applicable sampling months
- 4. Establish Reporting Requirements (number of samples per Report, reporting frequency)
- 5. Define applicable limits (if appropriate)

These steps are covered in detail below.

Required Sampling and Reporting

First, select a single Parameter to associate with the Requirement or, alternatively, select a Parameter Template. Selecting a Parameter Template automatically generates a set of related Numeric Requirements for the selected Monitoring Location.

If you wish to select an individual Parameter, click the "Select Parameter" button. This launches the *Parameter Search* page (described above). Use the search fields to find the appropriate Parameter and click the "Select" hyperlink to associate the Parameter with the Requirement.

Click the "Cancel" button to return to the Numeric Requirement without adding a Parameter.

The Parameter shown is the base Parameter (e.g., Copper) plus the Parameter fraction (e.g., Dissolved) plus the measurement type (*concentration* or *quantity*).

To select a Parameter Template, select the appropriate Template from the drop-down menu.

Next, select the related Monitoring Location from the *Monitoring Location* drop-down menu. Selection of a Monitoring Location implies selection of a Facility, as each Monitoring Location is assigned to only one Facility.

Once the Monitoring Location and an associated Parameter (or Parameter Template) have been established, data can be captured in the remaining fields of the Required Sampling and Reporting section.

Table 5.7 lists the remaining fields in this section and gives a description of each.

Field Name	Description				
Parameter	Select the Parameter Template from the drop-down				
Template	menu.				
Sampling	Select a value from the drop-down menu to indicate				
Frequency	the frequency with which samples must be taken.				
Sampling Type	Select a value from the drop-down menu to indicate				
Samping Type	the type of sample required.				
Sampling	Select a value from the drop-down menu to indicate				
Medium	the sampling medium required.				
	For Requirements in which the discharger samples				
	less often than once/month (e.g., once/year), but				
Sampling	needs to report the results on the next monthly				
Months Allowed	report, these 12 fields can be used to indicate the				
	months in which a sample may be taken (see sidebar				
	below).				
	Select a value to indicate the report (monthly report,				
Reporting	quarterly report, semi-annual report, annual report, or				
Frequency	floating report) that this Requirement is to be				
	reported on from the drop-down menu.				
# Samples	Enter the number of samples required per period (as				
Required	selected in the sampling frequency field).				
Report Type	Select the report type on which this Requirement will				
Report Type	appear from the drop-down menu.				
	Enter the date on which the report is due. This field				
Report Due On	is only enabled if a one-time report type (such as				
	"Supplemental" or "One-Time") is selected.				

Table 5.7 Required Sampling and Reporting Fields

Applicable Limits

Once you have filled in the fields in the Required Sampling and Reporting section, move down to the Applicable Limits section. Table 5.8 lists the fields in this section and provides a description for each one.

Field Name	Description
Limit Basis	Indicate the mechanism by which sample data is aggregated
	(e.g., monthly minimum) from the drop-down menu.
Pre-calculation	Indicate whether pre-calculation of the value is required by
Required?	selecting the checkbox.
Non-Detect	Indicate whether a sample was detected.
Bound	<, <=, >, or >=. If this is a "sample only" requirement, the
	bound may be left blank.
Limit Value	Enter the numeric limit. If this is a "sample only"
	requirement, the limit may be left blank. For more complex
	requirements (e.g., those that are pH-dependent), text may be
	entered into this field.
Units	Enter the units for the limit. The selected units must be
	appropriate for the parameter/measurement type.
Limit	This field allows you to enter additional information to
Description	further define the limit value. In some cases, this may
	replace a limit value. For example, if the limit is pH or
	temperature dependent, the limit description can be used to
	state this and to provide the values or provide a pointer to a
	table of values.
Limit Scope	Select the limit scope (final or interim) from the drop-down
	menu.
Effective Dates	Indicate the dates the requirement is effective. By default,
	these fields are left blank. This means that the requirement
	is effective for the entire lifetime of the Regulatory Measure.
Limit Source	Indicate the regulatory citation (e.g., "Basin Plan" for the
	Requirement.
Scenario	Indicate the scenario for the Requirement.
Applicable	Indicate the months for which this requirement is applied.
Months	

Table 5.8 Fields in the Applicable Limits Section

Pre-Calculation Required

Some limit bases allow the system to calculate a summary result based on raw data. In other cases, the system is unable to perform the calculations or the system is unable to interpret external factors (e.g., the system cannot evaluate "if there were 15 or more days with rainfall"). For these situations, pre-calculation by the Discharger is required. This field will automatically fill based on the selected limit basis. If the limit basis required pre-calculation, this field is checked and becomes Read Only. If the limit basis allows system-calculation, this field is left unchecked. However, the user may elect to check this if there are external factors which indicate that pre-calculation will be necessary. When you have finished entering data for the Numeric Requirement, click the "Create New" button at the top of the page. This saves your information and displays the Requirement (or set of Requirements) in the Numeric Requirements table at the bottom of the page. Requirements are sorted by Parameter. The text shown is the "Requirement text".

Click the Requirements tab to return to the Requirements table (as shown in Figure 5.21). The new Requirement(s) are displayed in the table.

Set a Reporting Schedule

The *Set Reporting Schedule* page allows you to define the date that each type of report is due (monthly/floating, quarterly, semi-annually, and annually).



Reporting Schedules cannot be set unless the Regulatory Measure meets all of the requirements for eSMR activation. These requirements are discussed in section 5.3.

Click the "Back to Requirements" button at any time to return to the Requirements tab.

To set a Reporting Schedule, click the "Set a Reporting Schedule" button. This opens the *Set Reporting Schedule* page (Figure 5.27).

Water Buards		Navigat ou are logged-in as: der	Menu Help Log out te to: mo. If this account does not belong to you, please log out.	
Regulatory M	leasure			
Regulatory Measure:	SWIM Order Number - 02-005	Effective Dates:	07/19/2002 - 07/01/2007	
Order Number:	R8-2002-0005	Water Board:	Santa Ana Regional Water Quality Control Board	
Status:	Active			
	nd Preview Report Schedule Reports are due 45 days from a are due 45 days from the firs inorts are due 45 days from the	end of sampling period t day of January and eve first day of January eve lay of January and every	ry 3 months thereafter. ry 6 months thereafter.	

Figure 5.27 Set Reporting Schedule Page

Adjust the four values as necessary. Click the "Save and Preview Report Schedule" button to view a table of reports in the results table below the reporting schedule fields (Figure 5.28).

Water Buards	QS		Naviga You are logged-in as: de		<u>Menu Help Log </u> count does not belong to you, please log c
Regulatory Me	easure				
Regulatory Measure:	SWIM Order N	umber - 02-005	Effective Dates:	07/19/2003	2 - 07/01/2007
Order Number:	R8-2002-0005		Water Board:	Santa Ana	Regional Water Quality Control Board
Status:	Active				
Set Reporting Sch	oduloe				
	id Preview Rep	ort Schedule	Back to Re	quirements	
•					_
Monthly/Floating R	eports are due [45 days fr	om end of sampling period	l (end of mon	th)
Quarterly Reports a	are due 45	days from the	first day of January and eve	ery 3 months	thereafter.
Semi-Annual Repo	orts are due 45	davs from	the first day of January eve	rv 6 months t	hereafter.
				1.1 months t	horooffor
Annual Reports are	e due 45	days from the fir	st day of January and every	12 months t	hereafter.
Annual Reports are	e due 45	days from the fir	st day of January and every	12 months t	hereafter.
Annual Reports are	e due (45	days from the fir			hereafter.
Annual Reports are		days from the fir Type	st day of January and every Period	12 months to Due Date	hereafter.
· · · ·	e	,			hereafter.
Name Monthly report for A	e ugust 2002	Type Monthly	Period	Due Date 10/15/2002	hereafter.
Name Monthly report for Si Monthly report for Si	e ugust 2002 eptember 2002	Type Monthly	Period 08/01/2002 - 08/31/2002	Due Date 10/15/2002 11/14/2002	hereafter.
Name Monthly report for Ai Monthly report for Si Monthly report for O	e ugust 2002 eptember 2002 ctober 2002	Type Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002	Due Date 10/15/2002 11/14/2002 12/15/2002	hereafter.
Name	e ugust 2002 eptember 2002 ctober 2002 ovember 2002	Type Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003	hereafter.
Name Monthly report for A Monthly report for S Monthly report for O Monthly report for N	e ugust 2002 eptember 2002 ctober 2002 ovember 2002 ecember 2002	Type Monthly Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002 11/01/2002 - 11/30/2002	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003 02/14/2003	hereafter.
Name Monthly report for A Monthly report for S Monthly report for O Monthly report for N Monthly report for D	e ugust 2002 eptember 2002 ctober 2002 ovember 2002 ecember 2002 anuary 2003	Type Monthly Monthly Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002 11/01/2002 - 11/30/2002 12/01/2002 - 12/31/2002	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003 02/14/2003 03/17/2003	hereafter.
Name Monthly report for Ar Monthly report for S Monthly report for O Monthly report for N Monthly report for Ja	e ugust 2002 eptember 2002 ctober 2002 ecember 2002 ecember 2002 anuary 2003 ebruary 2003	Type Monthly Monthly Monthly Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002 11/01/2002 - 11/30/2002 12/01/2002 - 12/31/2002 01/01/2003 - 01/31/2003	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003 02/14/2003 03/17/2003 04/14/2003	hereafter.
Name Monthly report for Ai Monthly report for Si Monthly report for O Monthly report for D Monthly report for Ja Monthly report for For	e ugust 2002 eptember 2002 ovember 2002 ecember 2002 anuary 2003 ebruary 2003 arch 2003	Type Monthly Monthly Monthly Monthly Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002 11/01/2002 - 11/30/2002 12/01/2002 - 12/31/2002 01/01/2003 - 01/31/2003 02/01/2003 - 02/28/2003	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003 02/14/2003 03/17/2003 04/14/2003 05/15/2003	hereafter.
Name Monthly report for Ai Monthly report for Si Monthly report for O Monthly report for D Monthly report for Ja Monthly report for Fo Monthly report for Fo	e ugust 2002 eptember 2002 ovember 2002 ecember 2002 ecember 2002 anuary 2003 ebruary 2003 arch 2003	Type Monthly Monthly Monthly Monthly Monthly Monthly Monthly	Period 08/01/2002 - 08/31/2002 09/01/2002 - 09/30/2002 10/01/2002 - 10/31/2002 11/01/2002 - 11/30/2002 12/01/2002 - 12/31/2002 01/01/2003 - 01/31/2003 02/01/2003 - 02/28/2003 03/01/2003 - 03/31/2003	Due Date 10/15/2002 11/14/2002 12/15/2002 01/14/2003 02/14/2003 03/17/2003 05/15/2003 06/14/2003	hereafter.

Figure 5.28 Reports Table

Only those reports for which there are requirements are displayed. For example, if there are no requirements in this Regulatory Measure on a semi-annual schedule, the "Semi-Annual Reports are due…" statement does not appear on this tab.

Copy a Requirement from an Order

Click the "Copy Requirements from Order" button to copy Requirements from another Regulatory Measure and Monitoring Location to the current Regulatory Measure/Monitoring Location. You can use this function to copy Requirements from a "template" Regulatory Measure or from another Regulatory Measure with a similar Monitoring Location.

To copy a Requirement from another Order, click the "Copy Requirements from Order" button on the Requirements tab. This launches the *Regulatory Measure Search* page (described above). Enter the appropriate search criteria and click the "Search" button. When you have found the appropriate Regulatory Measure, click the "Select" hyperlink in the appropriate row. This opens the *Select Requirement Source* page (Figure 5.29).

From this page, select the Requirement Type(s), Source Monitoring Location, and Target Monitoring Location (defaults to the Monitoring Location selected, if any, on the Requirements tab). You can select multiple values from a list box by holding down the Ctrl key while selecting values.



The list of source Monitoring Locations is the list of Monitoring Locations in the source Regulatory Measure.

Water Boards CIW	QS	Menu Help Log out Navigate to: Vou are logged-in as: demo. If this account does not belong to you, please log out.	
Regulatory M	easure		
Regulatory Measure:	New Regulatory Measure	Effective Dates: 06/13/2005 -	
Order Number:	987654	Water Board:	
Status:	Active		
Copy these types Narrative Numeric From this monitor	equirements to copy and click * of requirements: ing location (in source order):	Copy to Order'.	
	location (in target order):		
	g:Effluent location g:water intake pipe r Cancel		

Figure 5.29 Select Requirement Source Page

Click the "Copy to Order" button to import the Requirement information and return to the Requirements tab or click the "Cancel" button to return to the Requirements tab without importing the information.

If Requirements were imported, they are now displayed on the Requirements tab and can be edited or deleted as required (as described above).

eSMR Activation

eSMR Activation is covered in section 5.3 below.

Delete Selected

As mentioned above, Requirements can be deleted by clicking the "delete" hyperlink at the end of each row. Requirements can also be deleted by selecting them (selecting the checkbox at the beginning of the row) and then clicking the "Delete Selected" button.

5.2.6 Inspections Tab

The Inspections tab allows you to schedule Inspections for the Regulatory Measure. This tab is available for both non-activated and activated Regulatory Measures. In this way, Inspections can be scheduled while the Regulatory Measure is being developed or after it has been activated. Inspections can be listed with or without due dates or assigned staff. Staff and dates can later be assigned using this tab or through the *Create/Maintain Inspections* Module.

\square

See Chapter 10 for more information on the *Create/Maintain Inspections* Module.

Clicking the "Add New Inspection" button creates a new row in the Inspection Table for the purposes of creating a planned Inspection (Figure 5.30).

Regulatory Measure	
Regulatory ADMINISTRATIVE CIVIL LIABILITY Effective Dates: - 09/20/2007 Measure:	
Order Number: 02-0103 Water Board: Central Coast Regional Water Quality Control Board	
Status: Active Regulatory Measure ID: 131190	
General Info Related Parties Related Places Monitoring Locations Requirements Inspections Tasks Documents Addn. Info Attachn	ients
Save Add New Inspection	
Inspection Dates Comments	
Facility:* Planned Start Date:*	~
Type:* Planned End Date:*	
Status.* Status Date:*	
Assigned Staff:* Inspection Performed:	<u>×</u>
Facility:* Planned Start Date:* 02/01/2003	~
Type:* B Type compliance inspection VI Planned End Date:* 02/28/2003	open performed inspection
Status:* Performed Adequately V Status Date:* 06/20/2005	open penonneu inspection
Assigned Staff:* Inspection Performed:	~

Figure 5.30 Inspections Tab

Table 5.9 lists the fields within this table and provides a description of each one.

When you have entered data for a new Inspection or have added information to an existing Inspection, click the "Save" button at the top of the tab.

Click the "remove planned inspection" hyperlink to delete the scheduled Inspection. If there is a linked performed Inspection, the record cannot be deleted.

Click the "create performed Inspection" hyperlink to create a performed Inspection for the scheduled Inspection via the *Create/Maintain Inspection*

Module. If a performed Inspection already exists, the hyperlink reads "open performed inspection".

Field Name	Description
	If this Regulatory Measure has multiple Facilities
Facility	enrolled, select the Facility from the drop-down menu. If
,	only one Facility is enrolled, this field auto-populates.
Tumo	Select the Type of Inspection (e.g., Type A Compliance
Туре	Inspection) from the drop-down menu.
Status	Select the status of the Inspection (e.g., planned, in
Status	progress, completed) from the drop-down menu.
	Select the name of the staff member with lead
	responsibility for this Inspection. This may change
	depending on the status of the Inspection. This field does
Assigned Staff	not auto-populate based on Tasks. The values in the
C	drop-down menu are derived from the list of People
	linked to the Regulatory Measure via the Related Parties
	tab.
Planned Start	Enter the planned start date for the Inspection.
Date	Enter the planned start date for the hispection.
Planned End	Enter the planned end date for the Inspection.
Date	Enter the planned end date for the inspection.
Status Date	Enter the date the status became (becomes) effective.
Inspection	Select the checkbox to indicate that the Inspection has
Performed	been performed.
Comments	Enter comments (up to 2000 characters) pertaining to the
Comments	Inspection.

Table 5.9 Create a New Inspection Field.



When you have entered or updated new information in the Inspections tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.2.7 Tasks Tab

The Tasks tab allows you to assign a task, or event, to a Regulatory Measure (Figure 5.31). The controls at the top of the tab allow you to:

- Create a new Task
- Create a Template Task
- Save new tasks to the Regulatory Measure

Water Boards CIW	QS	You ar		gate to: atech. If this account	<u>Menu Help </u> t does not belong to you, please	~		
Regulatory M	easure							
Regulatory Measure:	ADMINISTRATIVE CIVIL	LIABILITY			Effective Date:	: 09/20/2004 - 09/20/200	7	
Order Number:	02-0103				Water Board:	Central Coast Regional Control Board	I Water Quality	
Status:	Active : This Regulatory Measure are currently r		s been ESMR activ	ated. Changes to this	s Regulatory			
General Info Re	lated Parties Related P	laces Monit	oring Locations 🕞	equirements Inspe	ections Tasks Documents A	ddn. Info Attachments		
Save Add	d New Task 🛛 🔽	Add Te	mplate Task)				
ID Task Type	* Task Name	Status*	Milestone?	Assigned To	Planned Start Date	Planned End Date	Actual Start Date	Actual End Date

Figure 5.31 Tasks Tab

To create a new Task, click the "Add New Task" button. This adds a new row to the Task table (Figure 5.32).

		lavigate to: tetratech. If this account doe:	Menu Help Los s not belong to you, please log	~					
Regulatory M	easure								
Regulatory Measure:	ADMINISTRATIVE CIVIL LIABILITY			Effective Dates:	09/20/2004 - 09/20/2007				
Order Number:	02-0103			Water Board:	Central Coast Regional Wa Board	ter Quality Control			
Status:	Active : This Regulatory Measure has been ESMR a not allowed.	tivated. Changes to this Rep	gulatory Measure are currently						
General Info Re	lated Parties Related Places Monitoring Locations	Requirements Inspection	s Tasks Documents Addr	Info Attachments)				
Save Add	i New Task 🛛 🔽 Add Template Task								
ID	Task Type*	Task Name	Status*	Milestone? Assign	ed To Planned Start Date	Planned End Date	Actual Start Date	Actual End Date	\square
	×		×	~					

Figure 5.32 Add a New Task

To add a template Task, select the type of template you wish to use from the drop-down menu at the top of the tab and click the "Add Template tab" button. This adds a row for the template task with the values of the Task Type drop-down menu filtered to reflect the selected template type (Figure 5.33).

Regulator	tory Measure	le tec ech. If this account does not b	Menu i Helo i Los out elong to you, please log out.	Effect	ive Dates:	09/20/2004 - 09/20/20	0.7				
Measure Order Nu Status:				owed.		Central Coast Regions	al Water Quality Contro	ol Doard			
Save	Add New Task Add Template Task							1			_
ID .	Task Type*	Task Name	Status*	Milestone?	Assigned To	Planned Start Date	Planned End Date	Actual Start Date	Actual End D	hate	+
	Constant Investigation Permit Application Processing Permit Application Processing -> Application Assigned to Staff Permit Application Processing -> Application Compute Permit Application Processing -> Application Reviewed Permit Application Processing -> Application Reviewed	NPDES 34-25-6	Performed Adequately		~	10/03/2005	10/03/2005	10/04/2005	10/04/2005	histor	y delete
	Permit Application Processing -> Board Meeting Schedulde Permit Application Processing -> Osignosition Permit Application Processing -> Osignosition Permit Application Processing -> Public Notice Permit Application Processing -> Public Notice Permit Application Processing -> Public Notice WCR Review WCR Review		@ 2005 State of Califor	nia. <u>Condito</u>	ns of Use Pri	wacy Policy					

Figure 5.33 Adding a Template Task

Table 5.10 lists the fields on this tab and gives a description of each.



When you have entered or updated new information in the Tasks tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Field Name	Description
ID	This field will auto-populate once the record is saved.
Task Type	Select the Task Type from the drop-down menu.
Task Name	Enter the name of the Task.
Status	Select the Status of the Task from the drop-down
Status	menu.
Milestone?	Indicate whether there is a Milestone related to this
willestone:	Task.
Assigned To	Select the staff member assigned to this Task.
Planned Start Date	Enter the Planned Start Date of the Task.
Planned End Date	Enter the Planned End Date of the Task.
Actual Start Date	Enter the Actual Start Date of the Task.
Actual End Date	Enter the Actual End Date of the Task.

Table 5.10 Fields on the Tasks Tab

Click the "history" hyperlink to open a new window with the Task history displayed in a table (Figure 5.34).

Water Boards CIWQ	You an	Navigate to: e logged-in as: demo. If this account doe	Menu Help Log out Menu Help Log out s not belong to you, please log out.
Field	History Value	Changed By	Date/Time
Status	active	Demo Demo	06/15/2005

Figure 5.34 Task History Table

Click the "delete" hyperlink to delete the Task from the Regulatory Measure record.

5.2.8 Documents Tab

The Documents tab allows you to identify external documents (in hard copy format) that are related to a Regulatory Measure. For example, files located in your office may be related to the Regulatory Measure that are unavailable as electronic documents. This tab provides a way to indicate available, related Documents that cannot be uploaded via the Attachments tab.

Documents that have already been linked to the Regulatory Measure are listed in the table at the bottom of the page (Figure 5.35).

To associate a Document with a Regulatory Measure, click the "Add a Document" button. This launches the *Add Document* page where you can fill in fields required to create a new record for an associated Document (Figure 5.36).

Water Buards CIW		Navigate to: You are logged-in as: demo. If thi	<u>Menu Help </u> s account does not belong to you, please	~		
Regulatory M Regulatory Measure:	New Regulatory	Measure	Effective Dates: 06/13/2005 -			
Order Number:	987654		Water Board:			
Status:	Active					
General Info Re	lated Parties Re	lated Places Monitoring Locations Requiremen	ts Inspections Tasks Documents A	ddn. Info Atta	chments	
Add a Docu	ment	ri ri		n		
Document Number Document Name/Description			Document Location	Status	Status Date	
456		Task Order	Office B12	Draft	06/14/2005	delete

Figure 5.35 Document Tab

Witer Buarls CIWQS	Menu Help Log out Navigate to: V You are logged-in as: ciwqs. If this account does not belong to you, please log out.					
Regulatory Measure						
Regulatory 1234 Measure:	Effective Dates: -					
Order Number: 1234	Water Board:					
Status:						
General Info Related Parties R	elated Places Monitoring Locations Requirements Inspections Tasks Documents Addn. Info Attachments					
Save Cancel						
Document Number: *	Document Number: *					
Document Name/Description: *						
Document Location: *						
Status: *						

Figure 5.36 Add a Document Page

Table 5.11 provides the description of each field on the Document page.

Table 5.11 Document Fields

Field Name	Description		
Document Number	Enter a reference number for the Document. As a free- entry field, any numbering system can be used. Typically, this would be the file number.		
Document	Provide a description of the Document or the		
Name/Description	Document title.		
Document Location	Enter where the Document is located.		
Status	Indicate the Status of the Document (e.g., under review, approved) from the drop-down menu.		
Status Date	Select the last date that the document's status was changed.		



When you have entered or updated new information in the Documents tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Click the Document number or Document name/description to open the *Add Document* page and edit the record for a Document.

5.2.9 Additional Information Tab

The Additional Information tab is designed to capture any relevant information that the other tabs do not address. Additional information is recorded by documenting various attributes that apply to a particular Regulatory Measure type.

As this page is used in several of the CIWQS Modules, it has been formatted to accept a wide range of data and information (Figure 5.37). The attributes that can be specified for a given Regulatory Measure type are listed in the attribute table.

Regulatory New Regulatory Measure:	Regulatory New Regulatory Measure Effective Dates: 06/13/2005 -						
Measure: Order Number: 987654			Water Board:				
Status: Active							
General Info Related Parties Rel	ated P	laces Mor	nitoring Locations Requirements Inspections Tasks Docum	nents Addn. Info	Attachments		
Mult=Y allows multiple values with overlapping effective dates. Mult=N allows multiple values with no overlapping effective dates.							
Attribute	Mult	Туре	Value*	Unit Of Measure	Start Date (mm/dd/yyyy)*	End Date (mm/dd/yyyy)	
301 H	N	character	~				add another
Baseline Flow	N	number		MGD			add another
Complexity	N	character	×				add another
Construction Funded?	N	character	~				add another
Construction Required?	N	character	~				add another
Design Flow	N	number		MGD			add another
Drdege '& Fill	N	number					add another
Fee Code	N	text					add another
Final Limit	N	character	~				add another
Industrial Class	N	text	▼				add another

Figure 5.37 Additional Information Tab

When the Additional Information tab is viewed, the default is for only the active attributes (relationships with a Start Date of today's date or earlier and an End Date later than today's date) to be displayed. If you wish to see the inactive attributes instead, select the box with the label "Show Inactive" next to the "Save" button at the top of the tab.

Contact the CIWQS Administrator if you wish to have an additional Regulatory Measure attribute added to the Additional Information tab.

All attributes allow multiple values to be entered by clicking the "add another" hyperlink at the end of the row. Only Attributes with a value of "Y" in the *Mult* field allow entries with overlapping start and end dates.

The fields of the Attribute Table are described in Table 5.12.

Ľ&≫

Field	Description		
Attribute	Displays an attribute that can be recorded for the Regulatory		
	Measure. Required attributes are prefixed with an asterisk		
	(*). This indicates that you are required to enter values for		
	the <i>Value</i> and <i>Start Date</i> fields.		
Value	Enter or select the value associated with the attribute.		
	Depending on the attribute, this field may be displayed as a		
	text field or as a drop-down list box. If the field is a text		
	field, no data validation takes place.		
Start Date	Enter the date the attribute was first used/was first true		
	about the Regulatory Measure/was first measured/was first		
	reported/etc.		
End Date	Enter the date the attribute was last used/was last true about		
	the facility/etc.		

Table 5.12 Attribute Table Fields



When you have entered or updated new information in the Additional Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.2.10 Attachments Tab

The Attachments tab allows you to attach any relevant file (e.g., word processing, graphics, photo, spreadsheet, etc.) to the Regulatory Measure.



Upon retrieval, the list of files is sorted by file name. A particular file name can only be used once per Regulatory Measure.

To upload a new file, select the "Browse" button. A new page opens where you can select the file you want to upload (Figure 5.38).

Choose file		? ×
Look jn:	: 🍘 My Documents 💽 🗢 🖻 🖽 🗸	
History Desktop My Documents My Computer	Corel User Files Email My Music My Pictures My Shapes Projects	
	File <u>n</u> ame:	<u>O</u> pen
My Network P	Files of type: All Files (*.*)	Cancel

Figure 5.38 Browsing for an Attachment

Once you have located the appropriate file, select the file and click the "Open" button. The Choose File window closes, and the name and file path of the selected file appears in the text field next to the "Browse" button. Enter a description of the file in the *File Description* field. Click the "Upload File" button. The new Attachment will show up in the table at the bottom of the Attachment page (Figure 5.39).

CIW	os.				<u>Menu Hel</u>	p Log out
Water Boards	43	You are logg	Naviga ed-in as: tetrate	te to: ech. If this account does	not belong to you, plea	se log out.
Regulatory M	easure					-
Regulatory Measure:	ADMINISTRATIVE C	IVIL LIABILITY			Effective Dates:	09/20/2004 - 09/20/2007
Order Number:	02-0103				Water Board:	Central Coast Regional Water Quality Control Board
Status:		tory Measure has been are currently not allow		l. Changes to this		
General Info	elated Parties Relate	ed Places Monitoring L	ocations Rec	uirements Inspections	Tasks Documents	Addn. Info Attachments
To add a docume	ent select the file and	l click Upload.				
Note: the upload process may take a few minutes depending on the speed of your internet connection and the size of the file. Do not attempt to click the "Refresh" or "Submit" buttons during the upload process.						
	File *	File Desci	ription			
	Browse Upload File					
File Name	File Description		Status			
D6aChapter 10.0	<u>ioc</u>	10/04/2005 - 11:27:07	OK <u>delete</u>]		

Figure 5.39 Attachments Tab

The *Document Status* field will display "OK" if the file passes the CIWQS virus scanner. It will display "Unavailable" if the virus scanner detects that it may contain a virus and the link to the file will be inactivated. Unavailable files cannot be opened from the File Attachments tab.

An attachment can be removed by clicking the "delete" hyperlink at the end of each row. Clicking on the file name downloads the associated file using your browser's standard download capabilities.

STOP

When you have entered or updated new information in the Attachments tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

5.3 Activation to eSMR

Activation is the process by which authorized Water Board Staff create legally binding reports which are made available through the eSMR Module. Until a Regulatory Measure is activated, the Requirements within the Regulatory Measure are not considered effective and no SMRs can be submitted for the Regulatory Measure.

Simply entering an issuance or effective date does not activate the Regulatory Measure in the system.

Before a Regulatory Measure can be activated, the following requirements must be met:

- The Regulatory Measure must contain an Effective Date and an Expiration Date
- The Regulatory Measure must be linked to one or more Facilities
- The Regulatory Measure must have one or more Requirements with a Reporting Type of "SMR". One or more of these Requirements should have a sampling frequency of a type other than "continuous" or "per discharge"
- None of the Requirements should contain a sampling frequency of "once only"
- All of the mandatory (marked with asterisks) on screen controls and on the *Add Numeric Requirement* and *Add Narrative Requirement* pages should contain appropriate values
- All Regulatory Measures with Requirements with a reporting frequency type "floating" should also have at least one Requirement with a reporting frequency of type "monthly" with a matching time period (in other words, the floating Requirement should be partnered with a monthly reporting Requirement)
- The Regulatory Measure must contain one or more related (linked) Parties representing one of the Waterboards and they should have the role/relationship of "regulating"
- The Regulatory Measure should have set reporting schedules

5.3.1 Activation

To activate a Regulatory Measure, click the "ESMR Activation" button on the Requirements tab (Figure 5.40).

Water Danis CIWO		Navigate to: You are logged-in as: demo. If this	Memui Hetip i Los sud		
Regulatory Me	easure				
Regulatory Measure:	SWIM Order Number - 02-005	Effective Dates:	07/19/2002 - 07/01/2007		
Order Number:	R8-2002-0005	Water Board:	Santa Ana Regional Water Quality Control Board		
Status:	Active				
General Info Related Parties Related Places Monitoring Locations Requirements Inspections Tasks Documents Addn. Info Attachments					
ApplyFilter					
Monitoring Locati	ion: ANY	×			
Type: ANY V					
Add Nerrative Requirement Add Numeric Requirement Set Reporting Schedules Copy Requirements From Order					

Figure 5.40 Requirements Tab

This opens the *eSMR Activation* page (Figure 5.41) which shows all of the reports that are related to the Regulatory Measure.

Water Buards CIW	QS		Navigat You are logged-in as: den		unt does not	Menu Help Log out v belong to you, please log out.	
Regulatory M Regulatory Measure:	easure SWIM Order Nur	mber - 02-005	Effective Dates:	07/19/2002 -	07/01/2007		
Order Number:	R8-2002-0005		Water Board:	Santa Ana R	egional Wate	r Quality Control Board	
Status:	Active						
Order Activation Activate Orde Effective Date: Expiration Date:	er Deacti	vate Order	Back to Requirem	ents		2002-07-19 2007-07-01	
Reports due							
Nar	ne	Туре	Period	Due Date			
Monthly report for	August 2002	Monthly	08/01/2002 - 08/31/2002	10/15/2002			
Monthly report for	September 2002	Monthly	09/01/2002 - 09/30/2002	11/14/2002			
Monthly report for	October 2002	Monthly	10/01/2002 - 10/31/2002	12/15/2002			
Monthly report for	November 2002	Monthly	11/01/2002 - 11/30/2002	01/14/2003			
Monthly report for	December 2002	Monthly	12/01/2002 - 12/31/2002	02/14/2003			
Monthly report for	January 2003	Monthly	01/01/2003 - 01/31/2003	03/17/2003			
Monthly report for	February 2003	Monthly	02/01/2003 - 02/28/2003	04/14/2003			

Figure 5.41 ESMR Activation Page

Click the "Activate Order" button to activate the Regulatory Measure. If one or more of the requirements listed above are not met, an error message is displayed at the top of the tab.

When a Regulatory Measure is activated, the system runs each reporting schedule (as described in section 5.2.5) and generates a "report due" record for each report due between the effective start date and effective end date (expiration) of the Regulatory Measure. These Reports are made available in the *eSMR* Module for data entry and submission.

See Chapter 7 for more information on the *eSMR* Module.

5.3.2 Deactivation

To deactivate a Regulatory Measure, click the "Deactivate Order" button on the *ESMR Activation* page.

5.3.3 Expiration of Regulatory Measures

In some cases, a Regulatory Measure may expire without being renewed or replaced. When this occurs, outstanding Reports (Future and In Progress Reports) and Requirements remain in effect – even though the Regulatory Measure itself has expired. A "Report due" record is

generated for each Regulatory Measure that remains activated but has expired for 60 days after the established End Date.

"Due report" records that have already been created will not be recreated. This process continues until the Regulatory Measure is manually deactivated. The system does not automatically de-activate Regulatory Measures. In this case, any reports that have not yet been started (Past Due or Future) are removed from the queue. Submitted and In Progress reports remain in the system.

Activation of a Regulatory Measure automatically activates requirements of related (or child) Regulatory Measures. See section 5.4.1 below for more information on related Regulatory Measures.

5.4 Replace and Supersede Requirements

In some cases, the Requirements in a Regulatory Measure replace, permanently or temporarily, the Requirements of another. For example, a Permit Order may contain a set of Requirements. An Enforcement Order may then add additional Requirements and replace Requirements.

Suppose we have a Permit Order with three requirements (A, B, and C).

Permit Order

- Requirement A
- Requirement B
- Requirement C

Due to non-compliance, an Enforcement Order is issued that adds two new requirements (D, E) and replaces requirement B.

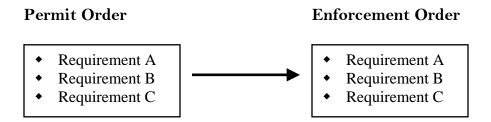
Enforcement Order

- Replace Requirement B
- New Requirement D
- New Requirement E

The Enforcement Order is in effect for a period of three months (May 1, 2005 to July 31, 2005).

In order to make the new (D, E) and updated (B) requirement available to the *Submit a Monitoring Report* and *Compliance Check* Modules, the

Enforcement Order must be *activated*. In addition, the system needs to know that the original requirement B has been superseded. To do this, the Enforcement Order actually needs to contain **all** of the Permit Order requirements (A, C), the new Enforcement Order Requirements (D, E), the original requirement B, and the updated requirement B. To do this, the requirements from the Permit Order need to be copied into the Enforcement Order.



Next, the old Requirement B needs to have its effective dates updated:

Enforcement Order

- Requirement A
- Requirement B (end April 30)
- Requirement C

Next, the new Requirement B needs to be added, with the appropriate effective dates:

Enforcement Order

- Requirement A
- Requirement B (end April 30)
- Requirement C
- Updated Requirement B (5/31 7/31)

If, after the enforcement period ends, the original requirement B returns, we can add that in as well:

Enforcement Order

- Requirement A
- Requirement B (end April 30)
- Requirement C
- Updated Requirement B (5/31 7/31)
- Original Requirement B (start 8/1)

Alternatively, another Permit Order could be created which re-instates the old requirement B.

The new (D, E) requirements can be added:

Enforcement Order

- Requirement A
- Requirement B (end April 30)
- Requirement C
- Updated Requirement B (5/31 7/31)
- Original Requirement B (start 8/1)
- Requirement D
- Requirement E

Finally, you need to *de-activate* the original Permit Order and *activate* the new Enforcement Order. Once this happens, eSMR stops using the original requirement B on April 30, uses the revised requirement B between May 1 and July 31, and reverts to the original requirement on August 1.



The original Permit Order has not been changed and can be viewed for historic purposes.

The Enforcement Order should be linked to the Permit Order for reference. To assist users, particularly Dischargers, a common Order Number scheme should be devised.

5.4.1 Linking Regulatory Measures

Regulatory Measures can be linked via the *Related Regulatory Measures* functionality on the General Information tab. You can link together regulatory measures to create new regulatory measures. For example, suppose you have a Permit Order with three requirements (A, B, and C).

Permit Order

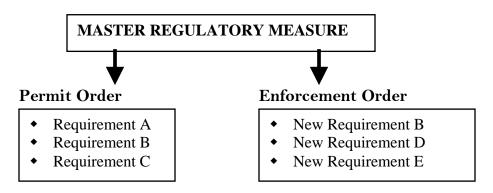
- Requirement A
- Requirement B
- Requirement C

This Permit Order is later amended to add two new requirements (D, E) and to replace requirement B. A *new* regulatory measure is created that describes D, E, and the new B:

New Permit Order

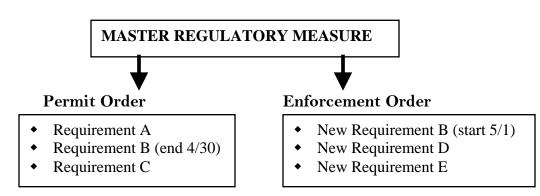
- Replace Requirement B
- New Requirement D
- New Requirement E

Instead of using the copying functionality described in Section 5.2.5 to support this functionality (essentially creating a new regulatory measure with requirements A, new B, C, D, and E), the two regulatory measures can be tied together. To do this, a "master" regulatory measure is created and the two Permit Orders are linked to it as children:



The relationship indicates that these are both "children" of the "Master" regulatory measure.

You also need to indicate that the old requirement B is no longer used. If this is not done, both the old requirement B and the new requirement B will be assumed to be in effect. To accomplish this, the original permit order needs to be opened and the end date for the old requirement B needs to be changed/set. The following depicts the final setup:



Note: The choice to use the approach described in Sections 0 vs. the approached described here (Section 0) will depend on circumstance.

Activation of a Regulatory Measure automatically activates any "child" regulatory measures. Therefore, when the "Master Regulatory Measure" is activated, the two children are activated (or re-activated) as well. The "Master Regulatory Measure" is the one listed in the *eSMR* Module. However, the requirements of the children are inherited as being part of the master.



Manual activation of a child may create duplicate SMRs or SMR requirements.

6 Reports Module

This chapter addresses the following topics:

• Reports available through the Reports Module

6.1 Introduction

Clicking on the Run Reports Module opens the *Report List* page (Figure 6.1).



Figure 6.1 Report List Page

The system lists all reports available to you. Clicking on a report hyperlink launches the report.

6.2 Enforcement Actions by Region/Program/Action

Clicking on the hyperlink for the "Enforcement Actions by Region/Program/Action" opens the report entry page of the same name (Figure 6.2).

Click the "Cancel" button to return to the main Reports page without running the report.

Water Boards CIWQS	Menu Help Log out Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.	
Run Reports		
To run the report "Enforcement Action Run Report Cancel	ns by Region/Program/Action" you must specify the following:	

Figure 6.2 Enforcement Actions by Region/Program/Action Report Entry Page

Click the "Run Report" button to run the report.

r P

The Enforcement Actions report will open in a new window. This window may not open properly if pop-up windows are disabled on your browser.



See Chapter 1 for more information on pop-up windows.

	ENFORCEMENT ACTIONS ISSUED BY REGION																	
ISSUED	ветw	EEN 0	1/01/2	005	AN	ID 02/0	1/2008	ì,	AND	STAT	US IS	S An	y Sta	tus	*	F	Refres	h
RB OFFICE	ACL	<u>ACLC</u>	<u>CA0</u>	<u>CD0</u>	MMP	MMPC	NOV	NSNC	<u>NTC</u>	RAG	<u>ROT</u>	<u>RTF</u>	<u>SEL</u>	<u>SETCO</u>	<u>tso</u>	<u>UNK</u>	VER	<u>TOTAL</u>
1	1	0	0	2	0	1	2	0	0	0	0	0	0	0	0	0	1	<u>Z</u>
2	0	0	0	0	0	2	5	0	1	0	0	0	1	0	0	0	1	<u>10</u>
3	1	5	3	0	2	2	<u>54</u>	0	0	0	0	0	<u>122</u>	0	0	0	<u>23</u>	212
4	0	4	0	0	0	5	39	0	30	0	0	4	<u>14</u>	1	1	<u>12</u>	<u>10</u>	<u>120</u>
<u>5F</u>	0	1	2	0	0	0	<u>61</u>	0	0	0	1	0	<u>19</u>	0	0	4	35	<u>123</u>
<u>5R</u>	0	1	0	1	0	1	<u>28</u>	0	0	1	1	0	2	0	0	5	<u>29</u>	<u>69</u>
<u>55</u>	3	Z	Z	5	0	0	<u>80</u>	<u>12</u>	0	0	0	0	<u>28</u>	0	1	2	<u>21</u>	<u>166</u>
<u>6A</u>	0	1	1	0	0	0	2	0	0	0	0	0	<u>12</u>	0	0	1	<u>18</u>	<u>35</u>
<u>6B</u>	0	0	0	0	0	0	2	0	0	0	0	0	Z	0	0	1	<u>53</u>	<u>63</u>
Z	0	4	0	0	0	2	37	0	<u>38</u>	0	0	0	<u>59</u>	0	0	0	0	<u>140</u>
<u>8</u>	8	<u>10</u>	0	0	0	<u>6</u>	<u>15</u>	<u>11</u>	1	0	0	0	<u>13</u>	0	0	0	<u>12</u>	<u>76</u>
<u>9</u>	1	<u>6</u>	<u>13</u>	0	1	2	<u>69</u>	0	<u>1</u>	0	0	0	<u>13</u>	<u>1</u>	0	<u>42</u>	<u>6</u>	<u>155</u>
STATEWIDE	<u>14</u>	<u>39</u>	<u>26</u>	8	<u>3</u>	<u>21</u>	<u>394</u>	23	<u>71</u>	<u>1</u>	2	4	<u>290</u>	2	2	<u>67</u>	<u>209</u>	<u>1176</u>
ENFORCEMENT ACTION LOOKUP: NOV = Notice of Violation SEL = Staff Enforcement Letter ACLC = Administrative Civil Liability Order NOV = Notice of Stormwater Noncompliance SEL = Staff Enforcement Letter CAD = Clean-up and Abatement Order NSNC = Notice to Comply SETCO = Settlement - Court Order CDO = Cease and Desist Order RAG = Formal Referral to Attorney General UNK = Unknown MMP = Mandatory Minimum Penalty - Order ROT = Referral to Other Agency VER = Oral Communication																		

Figure 6.3 Enforcement Actions Issued by Region

The Enforcement Actions report displays all Enforcement Actions of a selected status and date range for each of the California Regional Water Boards. Each column of the table represents a specific type of Enforcement Action. Each row of the table represents a Regional Water Board.

kæd

Each action type acronym is defined at the bottom of the table.

The fields at the top of the report allow you to filter your results by date and Enforcement Action status. Use the *Issued Between* fields to enter the dates between which you wish to search. Use the *Status* drop-down menu to narrow the type of Enforcement Actions displayed within the table. When you have entered new criteria into the filter fields, click the "Refresh" button to reload the table.

6.2.1 Enforcement Action Sub-Reports

The Enforcement Actions report contains many hyperlinks. Clicking on one of the links at the top of the table (i.e., ACL, ACLC, CAO, CDO, etc.) brings you to a sub-report that shows Enforcement Actions for a specific type of Action issued, listed by region and program (Figure 6.4). The program type acronyms are defined at the bottom of the sub-report.

ENFORCEMENT ACTION "Administrative Civil Liability Order (ACL)" ISSUED BY REGION AND PROGRAM Return to Overall Report									
ISSUED BETWEEN	01/01/2005	AND 02/01/2006	, AND STATU	s IS Active	*	Refresh			
RB OFFICE	<u>CONSTW</u>	<u>INDSTW</u>	MNSTW1	<u>NON15</u>	<u>SUB 15</u>	<u>TOTAL</u>			
1	0	0	0	1	0	1			
3	0	0	1	0	0	1			
55	0	0	0	1	1	2			
8	1	Z	0	0	0	<u>8</u>			
9	1	0	0	0	0	1			
STATEWIDE	<u>2</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>13</u>			
PROGRAM TYPE LOOKUP: Image: Construction Stormwater MNSTW1 = Municipal Storm Water SUB15 = Subchapter 15 INDSTW = Industrial Stormwater Phase I NON15 = Nonsubchapter 15									

Figure 6.4 Enforcement Action "Administrative Civil Liability Order (ACL)" Issued by Region and Program Sub-report

Clicking on a link for one of the Regional Boards (from the main Enforcement Action report) brings you to a sub-report that shows types of Enforcement Actions by the various programs operating within the Regional Board (Figure 6.5). Here, both the program and Enforcement Action type acronyms are defined at the bottom of the table.

ENFORCEMENT ACTIONS ISSUED BY PROGRAM FOR REGION "1" Return to Overall Report									
ISSUED BETWEEN 01/01/2005	AND	02/01/2006	, AND STAT	US IS Any St	tatus	Refresh			
PROGRAM	<u>ACL</u>	<u>CD0</u>	MMPC	NOV	VER	<u>TOTAL</u>			
INDSTW	0	1	0	0	0	1			
NON 15	1	0	0	2	0	<u>3</u>			
NPDES	0	1	1	0	1	3			
PTPRG	0	0	0	0	1	1			
STATEWIDE	<u>1</u>	<u>2</u>	<u>1</u>	2	<u>2</u>	<u>8</u>			
ENFORCEMENT ACTION LOOKUP: ACL = Administrative Civil Liability Order CDO = Cease and Desist Order	MMPC = Mandatory Minimum Penalty - VER = Oral Communication Complaint NOV = Notice of Violation								
PROGRAM TYPE LOOKUP: INDSTW = Industrial Stormwater NON15 = Nonsubchapter 15		E S = NPDES L G = Pretreatm	nent program						

Figure 6.5 Enforcement Actions Issued by Program for Region "1" Sub-report

Each of the numerical values in the overall report and sub-reports mentioned above is also displayed as a hyperlink. Clicking on any of these links brings you to a report that shows all of the Facilities that have Enforcement Actions of the particular type selected. For example, clicking on the value displayed for ACLC Enforcement Actions for Region 7 displays the report shown in Figure 6.6.

FACILITIES WITH ENFORCEMENT ACTION "Administrative Civil Liability Complaint (ACLC)" FOR REGION "7" Return to Overall Report									
ISSUED BETWEEN 01/	01/2005	AND 02/01/2	006 ,,	AND STAT	US IS Any	Status	Pi Ri	efresh	
FACILITY NAME	ADDRES	<u>s city</u>	COUNTY	REGION	PROGRAM	ACTION	ACTION DATE	STATUS	
DEMETER INDUSTRIES, LL	C null	IMPERIAL	Imperial	7	NPS	ACLC	05/20/2005	Active	
KATHIE A. BUDD	null	IMPERIAL	Imperial	7	NPS	ACLC	05/20/2005	Active	
PAUL & DAN CAMERON	null	BRAWLEY	Imperial	7	NPS	ACLC	05/20/2005	Active	
ZORA SINGH SANGHA	null	IMPERIAL	Imperial	7	NPS	ACLC	05/20/2005	Active	
ENFORCEMENT ACTION LOOKUP: ACLC = Administrative Civil Liability Complaint									
PROGRAM TYPE LOOKUP NPS = Non Point Source									

Figure 6.6 Facilities with Enforcement Action "Administrative Civil Liability Complaint (ACLC)" for Region 7 report

Clicking any of the column headers will sort the table by the selected criteria. For example, clicking the "Program" hyperlink will sort the table alphabetically by program type.

Enforcement Action and Program type acronyms are defined at the bottom of the table.

Clicking the "Return to Overall Report" hyperlink from any of the subreports will return you to the main Enforcement Action report.

The filter fields at the top of the sub-reports work the same way as for the main report.

6.1.2 Violation Report

Clicking on the hyperlink for the "Violation Report" opens the report entry page of the same name (Figure 6.7).

Water Boarnis CIWQS	Menu Help Loa out Navigate to: Vou are logged-in as: tetratech. If this account does not belong to you, please log out.
Run Reports	
To run the report "Violation Report" you mu	ist specify the following:
Run Report Cancel	

Figure 6.7 Violation Report Entry Page

Click the "Cancel" button to return to the main Reports page without running the report.

Clicking the "Run Report" button will open a new window that will allow you to set the parameters and output options for the Violation report.

Water Boards CIW	You are logged-in as: tetratech		Menu Help Log out v loes not belong to you, please log out.
Region:	Region 1 - North Coast Image: Coast Region 2 - San Francisco Bay Image: Coast Region 3 - Central Coast Image: Coast Region 4 - Los Angeles Image: Coast	County:	Alameda ♠ Alpine Amador Colusa ♥
Violation Type:	All	Identifier:	
Status:	All		
Place:	Clear Place Select Place 0	r Responsible	Party: Clear Party Select Party
Program:	All	Staff:	All
Occured during:	Start date(MM/DD/YYYY)	End date	(MM/DD/YYYY)
Run Report]		

Figure 6.7 Violation Report Entry Page

Table 6.1 lists the available fields and their description.

Table 6.1 Violation Report Selection Fields

Field Name	Description
Regional Board	Select the number of the Regional Board that has primary responsibility for regulation of the Place from the drop-down menu. If you are affiliated with a Regional Water Board, this field will default to the number of the Regional Water Board with which you are affiliated.
Latitude and Longitude	Enter the Place's geographic coordinates in degrees/minutes/seconds (including tenths) and/or decimal degrees (see sidebar above for additional information about this field). The Reference Point is used to indicate to what point this coordinate refers (see below).
Scale	Select the appropriate scale from the drop-down menu.
Source/Method	Select the source of the geographic data from the drop- down menu (e.g., GPS).
Datum	Select the datum for the geographic data from the drop- down menu (e.g., NAD83).
Accuracy	Select the accuracy level for the geographic data from the drop-down menu (e.g., 5 meters)
Reference Point	Select the reference point to which the latitude/longitude refers from the drop-down menu (e.g., spatial).

CIWQS Water Board User's Guide

Part III

Data Entry: The eSMR

7 eSMR Module8 Uploading Data to CIWQS

7 eSMR Module

This chapter addresses the following topics:

- Introduction to eSMRs
- How to find and select a Report
- The Report Builder tabs
- Submitting an eSMR

7.1 Introduction

The *Submit/Review a Self-Monitoring Report (eSMR)* Module provides a vehicle for submitting periodic eSMRs, as specified by Regulatory Measures (e.g., Orders). All Dischargers are allowed to create and edit eSMRs for Facilities for which they are registered. A higher level of access is required for certification and submission (i.e., Legally Responsible People).

Regional Water Board staff can access eSMRs for all Facilities operating in their region. State Water Board staff can access data for all Facilities.

This module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

7.2 Selecting a Self Monitoring Report

Before data can be entered in a given report the relevant Facility, Order and Report must be selected. Selecting the *Submit/Review a Self Monitoring Report (SMR)* Module from the Main Menu brings you to the *Select Facility* page (Figure 7.1) if multiple Facilities have standing Orders or the *Select Order* page if only one Facility has an Order in place.

7.2.1 Select Facility Page

Selecting the Facility (a Place with "Facility" as its type) for which the Report will be submitted is the first step in submitting an eSMR. Select

the *Submit/Review a Self Monitoring Report (SMR)* Module from the CIWQS Main Menu to view the *Select Facility* page (Figure 7.1). The table on the *Select Facility* page displays the Facilities with which you are associated.

Water Boards CIWQS	You are logged-in as:	avigate to: tetratech. If this account does	elp Loq ou v ase log out
Filter by Name:	Filter		
Select the facility for which you are Facility		port Previou Responsible Agency Name	
DEWATERING, INLAND FEEDER	SAN BERNARDINO COUNTY, CA		
EL CENTRO GENERATING 04-086	485 E. VILLA ROAD EL CENTRO, CA 92243		
EL CENTRO MWWVTP 04-004	2255 LA BRUCHERIE RD EL CENTRO, CA 92243		
IMP COMM COLLEGE WTP 04-084	380 EAST ATEN RD IMPERIAL, CA 92251		
KENT SEATECH CORPORATION	P O BOX 757 MECCA, CA 92254		
PARKER DAM PWRPLNT	PO BOX 878 HWY 95 PARKER DAM, CA 92267		
SEELEY CWD WWTP 02-126	1898 WEST MAIN ST SEELEY, CA 92273		
US NAVAL AIR FACILITY 01-001	1605 3RDSTREET, BLDG 120 EL CENTRO, CA 92243		

Figure 7.1 Select Facility page

Table 7.1 describes the table columns.

Table 7.1 Fields on the Select Facility page

Field Name	Description
Facility	Identifies the name of the Facility. Clicking on the name
	brings you to the Select Order page for the selected
	Facility.
Facility Physical	Indicates the physical address of the Facility, if one is
Address	available.
Responsible	If a Facility has an associated Party with the
Agency Name	role/relationship of "agency", the name of the Agency is
	displayed here. Nothing is shown if more than one Party
	has the role/relationship of "agency".
Case Worker	Shows the name of the Water Board Staff member
Name	assigned as the primary contact/case worker for this
	facility if one has been designated. Nothing is shown if
	more than one staff member is assigned as a case worker.

If you would like to filter the list of Facilities displayed in the table, enter all or part of the appropriate Facility name in the *Filter by Name* field at the top of the page and click the "Filter" button.

Click the Facility name hyperlink to open the *Select Order* page for that Facility and view all Orders related to the Facility (Figure 7.2).

Water Boards C/W	VQS ing Rep		Navigate to: u are logged-in as: tetratech. If this acc	Menu Help Log out v ount does not belong to you, please log out.
Select the order			nis Self Monitoring Report	
Order Number	Program	Effective Dates		
R7-2001-0001	NPDES	03/14/2001 - 03/14/2006	View all Requirements for this Order	

Figure 7.2 Select Order Page

7.2.2 Select Order Page

The table on the *Select Order* page shows all Orders related to the selected Facility. The radio buttons above the table allow you to view all Orders (by selecting the "Show All" radio button) or only those Orders that are effective (by selecting the "Show Effective" radio button). Table 7.2 lists the Order table fields and describes each one.

Table 7.2 Fields on the Select Order Page

Field Name	Description
Order Number	This field indicates the number of the Order.
	Clicking on the Order number brings you to the
	Report Selection page.
Program	This field indicates the regulatory program related
-	to the Order. If there are multiple associated
	programs, they are all shown.
Effective Dates	This field indicates the dates for which the Order
	is in effect (start and end dates).
View All Requirements	This field provides a link to the <i>View All</i>
for this Order	Requirements page. See description below.

View All Requirements Window

The "View All Requirements for this Order" hyperlink opens the *View All Requirements* page in a new window. This page shows a listing, across all Reports (monthly, quarterly, semi-annual, annual), of all narrative, limit/monitoring, and reporting Requirements for the Order (Figure 7.3).

The Requirements table indicates the Monitoring Location, type and details of the Requirement and is sorted first by Monitoring Location and then by Requirement type. Any Requirement that is associated with multiple Monitoring Locations is listed once for each Monitoring Location.

Close Window		
Facility: STP NO 5,CHINO		
Order Number: 1234		
Monitoring Location	Туре	Requirement
	Narrative	Mercury, Dissolved: General Narrative Req (Final requirement effective null - null)[All year]
STP NO 5,CHINO / 1234 : M001 sTP NO 5,CHINO / 1234 : M002	Narrative	Narrative for M001 and M002 (Final requirement effective null - null)[All year]
STP NO 5,CHINO / 1234 : M001	Numeric	Copper, Dissolved>=100.0* kg/day, Limit Basis: Average Monthly (AMEL), Sampling Frequency: 1 / Week, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] Copper RawData
STP NO 5,CHINO / 1234 : M001	Numeric	Magnesium, Dissolved>=(limit value unspecified)* kg/day, Limit Basis: Average Monthly (AMEL), Sampling Frequency: 1 / Week, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] Magnesium PreCalc

Figure 3.3 View All Requirements Page

Click the "Close Window" hyperlink to close the window.

7.2.3 Select Reports Page

Selecting an Order Number from the table on the *Select Order* page (by clicking on the Order number hyperlink) brings you to the *Select Reports* page (Figure 7.4). This page lists all Reports assigned to this Order and shows the status for each Report.

Self Monit	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out. Self Monitoring Report (SMR) Select Report									
	submit a report, select it from	m the list below. To chang	je the list of reports, (check the status	types and/or enter	start and end dates.				
	Show reports that me	et these criteria								
 ✓ In-Progra ✓ Past Dur ✓ Future - Show Report 	Show reports that meet these criteria Status: Submitted - report was already submitted to water board In-Progress - report has been edited but not submitted Past Due - report deadline has passed and report has not been submitted Future - report due date is in the future Show Report Due Between: 05/16/2005 Refresh List Show Calendar Year									
Due Date	Report Name	Reporting Period	Status	Date Submitted	Archived Reports	Submission Withdrawal				
11/14/2005	Quarterly report for Q3 2005	07/01/2005 - 09/30/2005	In-Progress							
05/15/2006	Quarterly report for Q1 2006	01/01/2006 - 03/31/2006	In-Progress							
08/14/2005	Quarterly report for Q2 2005	04/01/2005 - 06/30/2005	Submitted Past Due	06/06/2005	Download Report	Withdraw Report				
02/14/2006	Quarterly report for Q4 2005	10/01/2005 - 12/31/2005	Future							

Figure 7.4 Select Reports Page

Filtering Reports

The Reports available for the selected Order can be filtered using the fields at the top of the page. Reports can be filtered based on their status (Submitted, In-Progress, Past Due, or Future) or by their due dates.

Click the "Refresh List" to refresh the table and view only those Reports that match the search criteria. Click the "Show Calendar Year" button to show only those Reports with due dates within the current calendar year.

Reports are first sorted by status (In Progress, Past Due, Due, Submitted) and then chronologically by due date.

Table 7.3 lists the fields shown in the Reports table and provides a description of each.

Field Name	Description
Due Date	Shows the due date for the report in
	MM/DD/YYYY format. Clicking on this link
	opens the Report Builder for the selected Report.
	Submitted Reports are opened in read-only mode.
Report Name	Displays the name of the Report using the following
	format: report type + reporting frequency (if
	repeating) + specific month or date (e.g., "monthly
	monitoring for January, 2004" or "Compliance
	Report for March 15, 2005").
Reporting Period	Shows the reporting period for the Report in
	MM/DD/YYYY-MM/DD/YYYY format.
Status	Displays the status of the Report.
Date Submitted	For Submitted Reports, the Submitted date is
	displayed.
Archived Reports	Provides a link to PDF files of Submitted Reports.
Submission	Click the link in this column to withdraw a Report.
Withdrawal	

Table 7.3 Reports Table Fields and Descriptions

You will have access to Reports that are Past Due, Future or Submitted. For In Progress Reports, the following rules apply:

1. If a Discharger started the In Progress report, the report can be opened and edited by any authorized User from that Facility. A Water Board User cannot open the report until the report has been submitted. 2. If a Water Board User started the In Progress report, only Water Board Users with access to that Facility can open (and edit, if authorized) the report until the report has been submitted.

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A Water Board User cannot open an In-Progress Report that has been initiated by a Discharger until it has been submitted.

Report status types are described in Table 7.4.

Table 7.4 Report status and accessibility

Report Status	Description
Past Due	The due date is prior to today
Future	The due date is today or later
	The report has been started, but not submitted
In Progress	(report status defaults to "In Progress" when it is
	first opened)
Submitted	The report has been submitted and has been
Sublittee	locked against further updates

Submitted Reports

All information from Reports that have been submitted (see section 7.3.10 below) is saved in a PDF file. Click the "Download Report" hyperlink in the *Archived Reports* field to open a window containing a PDF version of the Report.

Withdrawing a Report

Click the "Withdraw Report" hyperlink in the *Submission Withdrawal* field to withdraw a Submitted Report. Once the Report is withdrawn, its status reverts to Past Due or Future (depending on the due date) and can be edited by authorized Users.

When a Report is withdrawn, the saved PDF file containing information from that Report is deleted. A new PDF file is created when the Report is resubmitted.

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If you wish to save a copy of the report prior to withdrawal, the PDF version should be printed or saved to another location.

All Water Board notes are retained (but hidden from the Discharger). All other data, such as violations (potential and confirmed), enforcement

actions, penalties, etc. remain in the system when a Report is withdrawn. These items must be manually rescinded.

Editing Reports

Reports with a status of "Future" and those that have been initiated by someone at your Facility (these Reports will have an "In-Progress" status) can be opened for editing in the Report Builder.

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Once you start editing a Report, its status is changed to "In Progress" and can only be opened by another Discharger User from the Facility.

Click the hyperlink in the *Due Date* field to open the Report in the Report Builder for editing and submission. You will be prompted to verify that you wish to begin editing the selected Report. Click "OK" to begin editing the report and enter the Report Builder. Click "Cancel" to return to the *Select Reports* page.

Entering an eSMR Without Data Entry

During the phased implementation of the CIWQS system, some Dischargers will continue to submit hard copies of SMRs. A Water Board user may wish to log the date that the hard copy was received without immediately performing data entry. This can be accomplished by selecting a Future or Past Due Report running an error report and submitting the Report using the Cover Letter Tab. The Water Board Notes Tab can then be made to enter in comments and to document the Report was submitted.

7.3 Report Builder

The *Report Builder* page allows you to enter data for and submit electronic Self-Monitoring Reports. This page can be accessed by selecting a Report from the *Select Reports* page. There are 10 tabs on the Report Builder page, and each tab captures related sets of information about a Report.

<u>View Report Requirements Tab</u> Displays a read-only Report showing all Requirements for the selected Report (both narrative and numeric). This is the default tab when the report is first opened.

<u>No Discharge Tab</u> Allows you to indicate that one or more Monitoring Locations had no discharge during the reporting period and, therefore, require no results. <u>Narrative Tab</u> Allows entry of results for requirements defined as "Narrative" in your Order/Permit.

<u>Pre-Calculated Tab</u> Allows for the entry of results for requirements defined as "Pre-Calculated" in the Order/Permit. Pre-Calculated limits include those which are non-standard (i.e., rolling averages and geometric means).

EDF/CDF Tab Allows for the uploading of data in electronic format.

<u>Raw Data Tab</u> Allows for the manual entry of raw data.

<u>Data Summary Tab</u> Contains a summary of all the raw data that you have submitted both manually and/or through file uploads. This tab does not summarize information that was entered into the No Discharge, Narrative, or Pre-Calculated tabs.

<u>File Attachments Tab</u> Allows for the attachment of any file (e.g., digital photo, text document, PDF, diagram, QA/QC from your lab, etc.) to a submission.

<u>Error Check Tab</u> Runs several checks to determine potential compliance issues and other submission errors.

<u>Cover Letter Tab</u> Allows you to create a cover letter for this submission.

<u>Water Board Notes</u> Provides a place to add additional information about a submittal. This tab is only available after a Report has been submitted.



Click the "Back to SMR Search Screen" button at any time to return to the *Select Reports* page.

A description of the Report and its effective dates appear below the "Back to SMR Search Screen" button.

7.3.1 View Requirements Tab

The View Requirements tab is the first tab you see when you open the Report Builder. This tab shows a complete list of both Narrative and Numeric Requirements for a specific (i.e., monthly, quarterly, semi-annual, annual) Report (Figure 7.5).

All Requirements displayed here duplicate the Requirements listed as part of the Permit/Order from which they originate. This tab is read-only. No data entry happens on this tab.

Water Rearts CIWQS	ort (SMF	Menu Help Loci out Navigate to: Image: Comparison of the comparison of t
Back to SMR searc	ch screen	·
View Requirements No D	ischarge	Narrative Pre-Calculated EDF/CDF Raw Data Data Summary File Attachments Error Check Cover Letter
Monitoring Location	Туре	Requirement
US NAVAL AIR FACILITY 01-001 / M-001 : M-001	Numeric	Total Suspended Solids (TSS)<=30.0 mg/L, Limit Basis: Monthly Average, Sampling Frequency: 1 / Week, Sampling Type: 24-Hour Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) (All Year)
US NAVAL AIR FACILITY 01-001 / R-001U : R-001U	Numeric	Temperature, Deg. Fahrenheit<=(limit value unspecified) Degrees F, Limit Basis: Not Limited, Sampling Frequency: Monthly, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure) (All Year)
US NAVAL AIR FACILITY 01-001 / R-001U : R-001U	Numeric	Dissolved Oxygen <=(iimit value unspecified) mg/L, Limit Basis: Not Limited, Sampling Frequency. Monthly, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure) (All Year)
US NAVAL AIR FACILITY 01-001 / R-001U : R-001U	Numeric	pH <c(imit (final="" [all="" basis:="" beginning="" effective="" frequency:="" grab.="" limit="" limited,="" measure)="" monthly,="" not="" of="" regulatory="" requirement="" sampling="" since="" su,="" td="" the="" this="" type:="" unspecified)="" value="" year]<=""></c(imit>
US NAVAL AIR FACILITY 01-001 / R-001 U : R-001 U	Numeric	Total Dissolved Solids (TDS)<=(limit value unspecified) mg/L, Limit Basis: Not Limited, Sampling Frequency: Monthly, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) (AII Year)
US NAVAL AIR FACILITY 01-001 / R-002D : R-002D	Numeric	Temperature, Deg. Fahrenheit<<(limit value unspecified) Degrees F, Limit Basis: Not Limited, Sampling Frequency: Monthly, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure) (AII Year)

Figure 7.5 View Report Requirements Tab

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See Chapter 5 for more information on Regulatory Measures.

7.3.2 No Discharge Tab

The No Discharge tab allows you to note that certain locations had no discharge during the reporting period and, therefore, compliance with items in the Order may not be required (Figure 7.6).

Salf Monitoring Pa	nort (SMP)	l You are logged-in as	Navigate to: : tetratech. If this ad	count does not b	<u>Menu Help</u> elong to you, pleas	~	
Back to SMR search screen Monthly report for August 2005 Effective Dates: 08/01/2005 - 08/31/2005							
	View Requirements No Discharge Narrative Pre-Calculated EDF/CDF Raw Data Data Summary File Attachments Error Check Cover L For each discharge point with no discharge during this period, click the checkbox. Save Select All Clear All						tter
No Discharge?	Discharge Point Name	Discharge Point Description			Comments		
	001				~		

Figure 7.6 No Discharge Tab

The table shown lists the name and description of all Discharge Points associated with the Report (assigned via the *Regulatory Measures* Module).

Selecting the box in the *No Discharge?* field indicates that there was no discharge for the indicated Discharge Point for the **entire** period. Comments should be added in the *Comments* field to explain the No Discharge selection.

If all Discharge Points associated with a Monitoring Location are marked as "No Discharge" in a report, this means that the Requirements associated with that Monitoring Location might not be applicable. **If a Monitoring Location has multiple associated Discharge Points and at least one of those Discharge Points had measurable discharge for the reporting period, the requirements for that Monitoring Location are still applicable.**

Partial-Period No Discharge

Discharge points that only had a discharge for part of a reporting period (called a "partial-period no discharge") are not indicated on this form. In cases where there was no discharge for part of a reporting period, results data must still be provided on the Narrative, Pre-Calculated, Raw Data and EDF/CDF tabs (as described in the sections below).

Additional information should be attached to the eSMR (via the File Attachments tab) to indicate a partial-period no discharge.

Click the "Select All" button to mark all associated Discharge Points as "No Discharge". Click the "Clear All" button to de-select all of the Discharge Points.

Click the "Save" button to update the record with the indicated "No Discharge" Points.



When you have entered or updated new information in the No Discharge tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

7.3.3 Narrative Tab

The Narrative tab (Figure 7.7) allows you to respond to Narrative Requirements. These can apply to either a specific Monitoring Location or to the entire Facility (i.e., "General" Requirements).

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Some Numeric Requirements in your paper-based Permit/Order are too complicated for CIWQS to calculate and will be listed here.

To begin entering information for Narrative Requirements, you must first select a Monitoring Location from the drop-down menu at the top of the tab (sorted alphabetically by identifier) and click the "Refresh" button. This refreshes the table to show only those Narrative Requirements associated with the selected Monitoring Location. Alternatively, select "General" from the list to view Requirements that are associated with the Facility (and not a specific location).

For maximum flexibility, even those Monitoring Locations indicated as "No Discharge" appear.

Menu Help Log out Ware Hourd You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Self Monitoring Report (SMR)							
Back to SMR search screen							
Monthly report for July 2005	Eff	fective Dates:	07/01/2005 - 07/31/2005				
View Requirements No Discharge Narrative Pre-Calculated EDF/CDF Raw Date	ata Data Summary File	Attachments	Error Check Cover Letter				
Answer each of the questions below for each monitoring location. Please provide a	Answer each of the questions below for each monitoring location. Please provide a comment to explain your answer.						
Requirement		In compliance?	Comments				
Wastewater shall not have an E. coli concentration in excess of 126 MPN/100 ml (bas not less than five samples for any 30-day period).	ed on a minimum of	N/A 💌					

Figure 7.7 Narrative Requirements Tab

For each Requirement listed, select the appropriate value from the *In Compliance*? drop-down menu. There are three possible responses:

- Yes Requirement was met
- No Requirement was not met
- N/A compliance was not required during this monthly reporting period (e.g., the Requirement states "When total monthly rainfall exceeds 15 inches..." and there has not been at least 15 inches of rainfall during this month).

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Each row must have a value selected in the *In Compliance?* field in order to pass the error checks.

The *Comments* field is a free entry text field. This field is required for any Requirement with a "No" or "N/A" value in the *In Compliance?* field and optional if "Yes" is selected. Missing data in the *Comments* field will be caught by the error check.

When you have finished entering data for the Narrative Requirements associated with the selected Monitoring Location (or "General" Requirements), click the "Save" button. You may then make another selection from the *Monitoring Location* drop-down menu to enter values for the Requirements associated with the other Monitoring Locations.



When you have entered or updated new information in the Narrative tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

7.3.4 Pre-Calculated Tab

The Pre-Calculated tab allows you to report data for Numeric Requirements that were marked as "Pre-Calculated". This indicates that CIWQS cannot do the calculation from the raw data (either entered manually or uploaded via EDF or CDF). This tab allows you to enter summary-level data (Figure 7.8)

CIWQS Mandgate to: You are logged-in as: terratuch. If this account does not belong to you, please log out.									
Back to SMR search screen									
Monthly report	for July	2005				Eff	ective Dates: 07/01/2005 - 07/31/2005		
View Requirem	nents	No Discharge Narrative	Pre-C	alculated EDF/CDF R	aw Data	Data Summary File	Attachments Error Check Cover Letter		
Enter calculate	ed value	s for each of the line iter	ns liste	ed under each monitoring	j locati	on.			
Save Rel	resh	Monitoring Location:*	M-001	*					
Parameter	Bound	Limit	Units	Result	Units	Comments	Requirement Text		
Total Dissolved	<::	400	mg/L	<=	mg/L	X	Total Dissolved Solids (TDS)≪=400.0° mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Grab. (final requirement effective since the beginning of this regulatory measure to the end of this requirediatory measure JAII Yeari The incremental		

Figure 7.8 Pre-Calculated Requirements Tab

To begin entering information for Pre-Calculated Requirements, select a Monitoring Location from the drop-down menu at the top of the tab. Selecting a Monitoring Location refreshes the table to show only those Pre-Calculated Requirements associated with the selected Monitoring Location. Table 7.5 lists the fields shown in the Pre-Calculated Requirements table and gives a description of each.

Table 7.5 Fields in the Pre-Calculated Requirements Table

Field Name	Description
Parameter	Displays the Requirement's parameter, as defined in the
rarameter	Order (e.g., "Arsenic").
Bound	Indicates if this is an upper $(<, <=)$ or lower $(>, =>)$ bound
Dound	Requirement.
	Enter the calculated numeric limit. Where the system can
Limit	extract a specific numeric limit from the Requirement, it
	appears here and the field is read-only.
Units	Indicates the units for the limit.
	Enter the actual Pre-Calculated result. Data can be entered
Result	using "<", ">", and "=" signs (for example, 3 , >= 3 and > 3 are
Result	all valid entries for this field. The result must be in the
	same units as the limit.
Units	Indicates the units for the result.
	Enter text related to the Requirement. A comment is
Comments	required for any Requirement where the limit/bound and
	result indicate possible non-compliance.
Requirement Text	Displays a description of the Requirement.

Because this is a Monitoring Location-specific data entry page, a list of all Pre-Calculated Requirements across all Monitoring Locations are not shown here. These can be viewed on the View Requirements tab.

When you have finished entering data for the Requirements for the selected Monitoring Location, click the "Save" button. You may then make another selection from the *Monitoring Location* drop-down menu to enter values for the Requirements associated with the other Monitoring Locations.

Clicking the "Refresh" button updates the table if you select a new Monitoring Location from the drop-down menu.



When you have entered or updated new information in the Pre-Calculated Tab be sure to click the "Save" button at the top of the tab to avoid loss of data.

7.3.5 EDF/CDF Tab

The EDF/CDF tab allows you to upload raw data to CIWQS in Electronic Deliverable Format (EDF) or in CIWQS Data Format (CDF) (Figure 7.9). Hyperlinks on the page ("guidelines," "software," and "hints") direct you to Web sites with additional information about the format and the tools that will aid in the transfer of data to CIWQS. This release of CIWQS supports EDF version 1.2i (July 2002).

	55	Navigat in as: tetrate		count does not b	<u>Menu Help</u> elong to you, pleas	~	
Self Monitoring Report (SMR							
Back to SMR search screen							
Quarterly report for Q3 2005			Eff	fective Dates: 07	/01/2005 - 09/30/20	005	
View Requirements No Discharge	Narrative Pre-Calculated	EDF/CDF	Raw Data	Data Summary	File Attachments	Error Check	Cover Letter
Note: the upload process may take a internet connection and the size of t	Click Browse, select an EDF/CDF file and click 'Upload File'. Note: the upload process may take a few minutes depending on the speed of your internet connection and the size of the EDF/CDF file. Do not attempt to click the "Refresh" or "Submit" buttons during the upload process.						
File *	File Descriptio	on					
Browse				oad File			
The EDF/CDF file must conform to the In order to create EDF/CDF files, you You may also check some helpful hin File Name (Type) File Description Date	nay wish to use the followin ts for uploading EDF/CDF fi						

Figure 7.9 EDF/CDF Tab

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See Chapter 8 for a closer look at EDF and CDF and how data can be uploaded to CIWQS.

To upload a file, type a file location into the *File* field or click the "Browse" button to view the Choose File window (Figure 7.10). Navigate to the file you wish to upload and click the "Open" button to bring it to the EDF/CDF tab. The file location of the selected file appears in the *File* field.

You can upload as many files as you wish but each file must be less than 50MB.

Choose file					? 🛛
Look in:	DL Software		•	← 🗈 💣 🎟•	
My Recent Documents Desktop My Documents	Coelt 12a_manu EDF_Data_Dicti LAB_EDF_Form Coelt Coelt 12a_manu EDF_Data_Dicti	onary atSpecs al onary			
My Computer					
My Network	File name:			•	Open
Places	Files of type:	All Files (*.*)			Cancel

Figure 7.10 Choose File Window

Enter a description of the file in the *File Description* field and click the "Upload File" button to upload the selected document.

Uploaded documents are displayed in the table. Here, the file name, date/time uploaded and status of the uploaded files are displayed. The table is sorted by file name.

Uploaded files should be named in a manner that makes it clear what the file contains (e.g., Facility name and report date, lab name) and should end in ".zip". If multiple files are uploaded, each must contain a unique name. Files uploaded to CIWQS should *not* be password encrypted.

The Document Status field displays "OK" if the file passes the CIWQS virus scanner. It displays "Unavailable" if the virus scanner detects that it may contain a virus and the link to the file will be deactivated. Unavailable files cannot be opened from the EDF/CDF tab.

A file can be removed from the table by clicking the "delete" hyperlink at the end of the row (only before the Report is Submitted).

Clicking on the file name downloads the entire associated file using your browser's standard file download capabilities.

EDF/CDF files can be downloaded and viewed in Microsoft Excel before an eSMR is submitted (to check for data accuracy).

7.3.6 Raw Data Tab

As an alternative to uploading data in EDF/CDF format, you can manually enter raw data in the Raw Data tab (Figure 7.11).

CIWOS Nanégaré te You are loggééé na st. demo. If this accourt does not belong to you, please log out.																	
Self Monitori	ng Report (S	SMR)															
Back to S	MR search scr	een	1														
Monthly report f	or August 2005							Effective Dates: 08:01/2005	08/31/2005								
View Requirem	ents No Discha	inge Nam	ative Pre-0	Calculated EDF	CDF 1	aw Data Data Summary File Attachments Error Check Cover Letter											
Codes and service				and Refer damage													
Cuter measures	i sample values	tor each o	e the mie it.	ems instea unde	r each n	one of any so-canon.	Enter measured sample values for each of the line items interfaunder each monitoring location.										
Sovo Refresh Hontoring Locations" 1224 🐱																	
other Het	esh Monitoria	ng Locatio	nc* 1234	~													
					Crei	de new time with -> yyyy (2005 Mm (05) CD (18) HH (00	MM 00 ss	00									
	ng event date tin				Cree	te new time with -> уүүү 2005 мм (05 ор 18 нн (00) mm [00] ss	00									
					Crea	te new time with ->	MM 00 SS Method Detection Limit (Optional)	00 Non-Detect?	Minimum Level (Optional)	Sample Analysis Date (Optional) MBL(ddyyyy	Sample Analysis Time (Optional) HRunross	Scenario (Optional)					
Select a sampli	ng event date tin Minimum Sampling	Sample Type	Sample	2 05 00 👻 or 🕻			Method Detection Limit		Level	Date (Optional)	Time (Optional)		delete duplicate				

Figure 7.11 Raw Data Tab

Create a Sampling Event

All raw data entries must be associated with a sampling event. A sampling event is a combination of date, time **and** Monitoring Location. Sampling events that have already been created are listed in the drop-down menu at the top of the tab. To create a new sampling event, first select a value from the *Select a sampling event date/time* field or enter date and time information into the available fields and click the "Create New Time with ->" button.

To enter the date and time for (05/17/2005 at 4:32:00) enter:

• "2005" in the YYYY field (for the year)

- "05" in the MM field (for the month)
- "17" in the DD field (for the day)
- "04" in the HH field (for the hour)
- "32" in the MM field (for the minutes)
- "00" in the SS field (for the seconds)

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When creating new sampling events, the dates and times entered must fall within the effective dates of the Report.

Once you have selected or created a date and time, select a Monitoring Location from the *Monitoring Location* drop-down menu. Click the "Refresh" button to update the table with the parameters associated with the Monitoring Location for the selected sampling event. You can now enter raw data for that Location.

The table shown for the Monitoring Location is auto-populated with the set of parameters applicable for the given reporting period. Not all parameters for an Order are reported for every sampling period.

Table 7.6 lists the fields in the parameter table and gives a description of each one.

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It is your responsibility to ensure that the units used to report the sample are the same as the units specified in the Order. Failure to do so may result in errors (potential non-compliance events) being flagged in the system.

Click the "delete" hyperlink to delete the parameter row from the table. Deleting the row from the table does not remove it from the Order record but indicates that no sample was taken for that parameter during this reporting period.

Click the "duplicate" hyperlink to create a new row that contains the same parameter, sampling frequency, sample type, sample medium, and units. This allows you to enter multiple sampling events for the same parameter when your permit or analytical method requires duplicate or triplicate samples.

When you have finished entering data for the selected Monitoring Location, click the "Save" button. You may then make another selection from the *Sampling Time* and *Monitoring Location* drop-down menus (or create a new Sampling Time) to enter data for the Parameters associated with the other Monitoring Locations.

Table 7.6 Parameter Table Fields

Field Name	Description
Parameter	A parameter row is automatically displayed for each
	parameter that is specified in the Order for the
	selected Monitoring Location that could be sampled
	during the entered date/time sampling event.
Minimum Sampling	This field retrieves the sampling frequency required
Frequency	(by the Order) monitoring for the selected
	Monitoring Location and parameter.
Sample Type	Shows the sample type required for the selected
	Monitoring Location and parameter (by the Order).
Sample Medium	Displays the sample medium required, as specified in
	the Requirement in the Regulatory Measure for the
	selected Monitoring Location and parameter.
Result	Enter the measured result. If the sample
	measurement was below the detection limit, do not
	enter a value.
Units	Retrieves the units (as specified in the Order) for the
	selected Monitoring Location and parameter. If the
	sampling was not performed in these units, you
	must manually convert before entering the data.
Analytical Method	Select the Analytical Method used from the drop-
	down menu.
Method Detection	Enter the method detection limit in the units specified
Limit (Optional)	for the Parameter. This field is required if "Not
	Detected" is selected from the <i>Non-Detect?</i> field.
Non-Detect?	If the sample was below the method detection limit,
	no result is entered in the <i>Result</i> field and "Not
	Detected" is selected from the drop-down menu. The
	default value is "Quantified".
Minimum Level (not	Enter the minimum level in the units specified for the
required if "Not	Parameter.
Detected" is selected)	
Sample Analysis Date	Enter the date the sample was analyzed in the format
(Optional)	MM/DD/YYYY.
Sample Analysis Time	Enter the time the sample was analyzed in the format
(Optional)	HH:MM:SS.
Scenario (Optional)	Enter in the appropriate Scenario information. A
	scenario describes conditions for when a parameter
	measurement will be in compliance and is used when
	two requirements apply to the same parameter (or set
	of parameters) under different conditions. Contact
	your local Water Board if you have further questions.
	The scenario text input via the Raw Data tab must
	exactly match the scenario text entered for the Order.

STOP

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When you have entered or updated new information in the Raw Data tab be sure to click the "Save" button at the top of the tab to avoid loss of data.

7.3.7 Data Summary Tab

The Data Summary tab allows you to review all sample data that was uploaded (using the EDF/CDF tab) and manually entered (using the Raw Data tab) in one read-only screen (Figure 7.12). No data entry is possible on this page.

The information included on the Data Summary tab does not include information entered on the No Discharge, Narrative, or Pre-Calculated tabs.

water boards	CIWQS	rt (SMR)	Y	ou are logg		wigate t s: demo	o: If this account does			p Log out V se log out.						
	Back to SMR search screen Monthly report for August 2005 Effective Dates: 08:01/2005 - 08:31/2005															
View Requir	View Requirements No Discharge Narrative Pre-Calculated EDF/CDF Raw Data Data Summary File Attachments Error Check Cover Letter This page contains a summary of all the sample data that you have submitted both manually and/or through file upload(s).															
Monitoring Location	Parameter	Minimum Sampling Frequency	Sample Type	Sample Medium	Result	Units	Analytical Method	Method Detection Limit	Non- Detect?	Minimum Level	Sample Date	Sample Time	Sample Analysis Date	Sample Analysis Time	Scenario	Data Source
M001	Copper, Dissolved	1 / Week	Grab	water	12	kg/day	1990 EML Procedures Manual, Pu-11, HASL-300		-		08/18/2005	12:05:00				Manual
M001	Magnesium, Dissolved	1 / Week	Grab	water	14	kg/day	1990 EML Procedures Manual, Pu-11,		-		08/18/2005	12:05:00				Manual

Figure 7.12 Sample Data Summary Tab

The table shows all sampling data that has been reported for this eSMR. There are two key differences in the way raw data is displayed on this page (as opposed to how it is displayed on the Raw Data tab):

- 1. The Non Detect? Field shows "-" for "no" and "ND" for "yes".
- 2. The *Data Source* field shows "manual" if the Raw Data tab was used for entry. If the data came from an EDF/CDF, this field shows the name of the uploaded file.

7.3.8 File Attachments Tab

The Attachments tab allows you to attach a file (e.g., text document, graphics or photo, spreadsheet, etc.) to the sSMR (Figure 7.13). This tab can be used to add supporting information to the submission.



EDF and CDF files should be uploaded via the EDF/CDF tab, not through the attachments tab.

Water Roams CIWQS Self Monitoring Report (SMR		Naviga in as: tetrate		count does not b	<u>Menu Heir</u> elong to you, pleas	~					
Back to SMR search screen											
Quarterly report for Q3 2005			Eff	fective Dates: 07	/01/2005 - 09/30/20	005					
View Requirements No Discharge	Narrative Pre-Calculated	EDF/CDF	Raw Data	Data Summary	File Attachments	Error Check	Cover Letter				
Note: the upload process may take a internet connection and the size of th	To add a supplemental document to this report, select the file and click Upload. Note: the upload process may take a few minutes depending on the speed of your internet connection and the size of the file. Do not attempt to click the "Refresh" or "Submit" buttons during the upload process.										
File *	File Descripti	on									
M:\ProjectWVQS Clearin Browse	Permitting Requirements			oad File							
File Name File Description Date/Time Uploaded Status											

Figure 7.13 File Attachments Tab



You can upload as many files as you wish but each file must be less than 50MB.

To add a file to the record, type a file location into the *File* field or click the "Browse" button to view the *Choose File* window (as in Figure 7.10). Navigate to the field you wish to upload and click the "Open" button to add it to the File Attachments tab. The location of the selected file will be shown in the *File* field. Enter a description of the file in the *File Description* field and click the "Upload File" button to upload the selected file.

The file name, date and time uploaded and status are shown for each uploaded file in the table. The table is sorted by file name.

A particular file name can be used only once per report.

The *Document Status* field displays "OK" if the file passes the CIWQS virus scanner. It displays "Unavailable" if the virus scanner detects that it may contain a virus and the link to the file will be inactivated. Unavailable files cannot be opened from the File Attachments tab.

An attachment can be removed by clicking the "delete" hyperlink at the end of each row. Clicking on the file name downloads the associated file using your browser's standard download capabilities.

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This table can be viewed for any eSMR until it has been marked as Submitted.

Editing Data

To make changes to data that has been entered through the No Discharge, Pre-Calculated or Raw Data tabs, go back to the appropriate tab and edit the data. For edits to data that was input using the EDF/CDF tab, you must delete the file from the tab (click the "delete" hyperlink), edit the original file, and then reupload the file to CIWQS.

7.3.9 Error Check Tab

The Error Check tab provides a way to check data before it is submitted for review. The Error Check tab serves four related functions:

- 1. Reviewing the data on the Narrative, Pre-Calculated, EDF/CDF, and Raw Data tabs to ensure that required data is not missing and that certain mistakes were not made
- 2. Running computations on raw data (entered manually or uploaded as EDF or CDF files) to check compliance
- 3. Flagging narrative and pre-calculated requirements that may not be in compliance
- 4. Producing a report for review



See Appendix A for additional details on Error Checks.

Data that does not pass the Error Check is flagged as a non-compliance event and is displayed in the table on the Error Check tab (Figure 7.14). Non-compliance events are classified as Narrative, Numeric or Reporting.

Were Harrie CWQS Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.												
Self Monitoring Repo	Self Monitoring Report (SMR)											
Back to SMR search	n screen											
Monthly report for August 2	005			Effective Dates: 08/01/2005 - 0	08/31/2005							
View Requirements No D	ischarge Narrat	tive Pre-Calculated	EDF/CDF Ray	w Data Data Summary File Attachments Error Check	Cover Letter							
Atthough the results of this will be made available to y no violations will be cited u Below are the results of yo If you have made changes you will need to run the err	Disclaimer Text: This error check locates common submission errors. Although the results of this error check, including your comments will be made available to your local and state Water Board, no violations will be cited until the Water Board has reviewed your submission. Below are the results of your last error check for this report. Last run date: 06/16/2005 15:58:32. If you have made changes to your last error check, you will need to run the error check before sumitting your report to the Water Boards. Save Check ReportFor Errors											
Туре	Monitoring Location	Parameter	Requirement	Results	Comment on action(s) taken or planned to remedy this instance of non-compliance.							
Calculation (Numeric/RawData)	calculation M001 Copper, >= 100.0 12.0											
Field Activity (Numeric/RawData)												
Field Activity (Numeric/PreCalc)	M001	Magnesium, Dissolved	Samples entered.	No samples found during monitoring period (2005-07- 31 00:00:00.0 to 2005-08-06 23:59:59.0)								

Figure 7.14 Error Check Tab

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The Error Check must be run before an eSMR can be submitted.

When the Error Check tab is first viewed, no errors are reported in the table. To run the Error Check, click the "Check Report for Errors" button. This initiates the check and populates the Error Report table with any errors encountered.



Running the Error Check will delete any comments entered in the Error Check tab for previous checks.

The date and time of the last error check is displayed above the Error Report table.

Table 7.7 lists the fields in the Error Report table and describes each one.



When you have entered or updated new information in the Error Check tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Field Name	Description
Туре	Displays the type of error encountered (narrative,
	numeric or reporting).
Monitoring	Shows the Monitoring Location ID where the error
Location	occurred.
Parameter	Indicates the Parameter (if any) of the Requirement.
Requirement	Shows the text of the Requirement or a description of
	the expected results.
Results	Displays the results that caused the error. For
	narrative requirements, this is the text (comments)
	entered by the User. For (pre-calculated) limit
	requirements, this is the value entered by the User.
	For (system calculated based on raw data) limit
	requirements, this is the calculated value. For other
	requirements, this is the applicable value or text.
Comments	Enter information about the error, including reasons,
	how the error is being remedied, etc.

Table 7.7 Fields of the Error Report Table

7.3.10 Cover Letter Tab

The Cover Letter tab performs two functions: it allows you to add a cover letter to the eSMR submission and provides a gateway to the *Certify and*

Submit page where you can formally submit the eSMR, and all of its related data, for review (Figure 7.15).

Water Buards CIWQS		Navigate to: as: demo. If this ac	count does not b	<u>Menu Help</u> elong to you, pleas	*
Self Monitoring Report (SMR)					
Back to SMR search screen					
Monthly report for August 2005				/01/2005 - 08/31/20	
	Pre-Calculated ED	F/CDF Raw Data	Data Summary	File Attachments	Error Check Cover Letter
Save for Later Certify & Submit					
Please describe your submission, including des	criptions of all viola	ited requirements.			
Option A: Select a document on your computer I					
There is a convenient template document availabl	e.				
Option B: You may enter plain text in the field be	low				
		~			
		~			

Figure 7.15 Cover Letter Tab

The Cover Letter

The cover letter is another vehicle for providing additional or supplementary information for an eSMR submission. Text can be input directly into the text box shown on the first page of the Cover Letter Tab or it can be uploaded as a text file.

To upload a document, type the file name and location into the field next to the large text field or click the "Browse" button to locate the file on your computer.

STOP

When you have entered or updated new information on this first page of the Cover Letter tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Certify and Submit

The Certify and Submit feature of the Cover Letter tab allows you to submit the eSMR. This page functions as an electronic signature for submission of eSMRs.

Before you attempt to submit an eSMR, the following conditions must be met:

- 1. The Error Check has been run at least once
- 2. No data has changed since the last time the Error Check was run
- 3. The date the Error Check was last run is the same as today's date

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Only authorized staff can submit an eSMR for a Facility. Nonauthorized users will not be granted access to this page.

To submit the eSMR, click the "Certify & Submit" button, located next to the "Save" button at the top of the Cover Letter tab.

If any of the above conditions are not met, you will receive the error message: "You must check/re-check for errors before certifying and submitting" and access to the Certify and Submit page will be refused.

If all of the conditions have been met, you will be granted access to the Certify and Submit page (Figure 7.16). This screen allows you to mark a submission complete. You will be prompted to enter the name of the person who submitted/signed the paper submission.

Water Boards CIWQS	You are logged-in :	Menu Help Log out Navigate to:
Certification		
	Certifier Information	
Name:		
Title:		
Executed On:	06/16/2005	
Executed At:		
Certify and Subm	Cancel	

Figure 7.16 Certify and Submit Page

Once you have entered data into all fields on the form, the "Certify and Submit" button is activated. Click this button to submit the SMR and receive confirmation of the submission (Figure 7.17).

	Menu Help Loa out Navigate to: V You are logged-in as: demo. If this account does not belong to you, please log out.		
Self Monitoring Report (SMR)			
Certification			
Thank you. You have submitted your report. Your submission receipt number is: 20050616-160828-2059.			
Back			

Figure 7.17 Certification of SMR Submission

Click the "Back" button to return to the *SMR* Module at the Cover Letter tab. The Water Board Notes tab will now appear at the end of the row of tabs.

7.3.11 Important Information Regarding Data Submission

Once a report is certified and submitted, the system locks the data in the report, generates a PDF version, and makes the data available in read-only mode to both the Discharger and authorized Water Board staff. An e-mail receipt is sent to the submitting Discharger and Water Board case manager with the following text:

This e-mail is to confirm receipt of your <report name, including due date>, in accordance with the requirements of Order <Order Number>. This report was submitted for <facility name> on <date/time> by <name of user certifying>.

If you need to contact your local Water Board, your case manager is <case manager's name> (<phone number>).

7.3.12 Water Board Notes

The *Water Board Notes* tab appears only for Water Board users and only for Submitted reports (Figure 7.18). Any In-Progress Reports, including those being data entered by Water Board staff, will not show this tab.

		You are logged	Navigate to:	his account	does not be	<u>Menu Helr</u> elong to you, pleas	~		
Self Monitoring Report	(SMR)								
Back to SMR search s Monthly report for August 2009)		Effective	Dates: 08	01/2005 - 08/31/2	005		
View Requirements No Disc		tive Pre-Calculated F						CoverLetter	Waterboard Notes
Save Create Letter	narge raant			Dulu Dulu	ourning,	The Automnento	End onedic		The food of the fo
Reviewed?									
Reviewed By:	Demo Dem	0							
Date Reviewed:	06/16/2005								
Date Received:	06/30/2005								
Data Entry By Water Board?	V								
Follow-up Required?									
Follow-up Reasons:	Already a n	esn't match NOI 🔼 nember							
	Dairy Federal Fa	cility 💌							
Comment						< >			
Comment		Entered By	Date En	ered					
Schedule Inspection	C	emo Demo	06/16/2005		<u>delete</u>				

Figure 7.18 Water Board Notes Tab

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Information entered on this form is not used to generate noncompliance events.

Notes regarding the submission are added to the fields in the upper part of the form. Notes that have already been entered are shown in the table at the bottom of the page. The notes entered here are additive and shown in reverse chronological order. Table 7.8 describes the data entry fields on the Water Board Notes Tab.

Field Label	Description
Reviewed?	This checkbox indicates that a Water Board staff member has reviewed the SMR. By default, this is clear.
Reviewed By	When the <i>Reviewed?</i> checkbox is selected, this field becomes enabled and is automatically filled with the first and last name of the current user. It can then be changed, if necessary, to indicate the name of the person performing the review. If the <i>Reviewed?</i> checkbox is clear, this field is cleared.
Date Reviewed	When the <i>Reviewed</i> ? checkbox is selected, this field becomes enabled and is automatically filled with the current date. It can be changed, if necessary, if the review took place on another date (any past or present date may be entered; future dates cannot be entered). If the <i>Reviewed</i> ? checkbox is clear, this field is cleared.
Date Received	This is the date the SMR was received. If the SMR was received electronically, this is automatically filled with the date the SMR was certified and submitted. If the SMR was hand- entered by a Water Board, this is blank. This is the date that is used to determine if an SMR was submitted on time or not.
Data Entry by Water Board?	This checkbox indicates if the SMR was data-entered by a Water Board staff member (or other authorized party). It will be cleared for electronically submitted SMRs and selected if the SMR was put into the "in progress" state by a Water Board staff member. This checkbox can be changed, however, if necessary.
Follow-Up Required?	Indicates if additional follow-up is required. By default, it is cleared.
Follow-Up Reasons	This field lists all the reasons (from reference table) for follow- up. It is enabled only if <i>Follow-Up Required?</i> is checked and is cleared if <i>Follow-Up Required?</i> is unchecked.
Comment	Enter comments as needed for the review.
Entered By	This field displays the name of the user entering the comment. This is automatically filled for each new row created.
Date Entered	Shows the date the comment was entered. This field is automatically filled for each new row created.

Table 7.8 Data Entry Fields



When you have finished entering information, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Click the "Create Letter" button to create a letter showing the review information for this submission.

8 Uploading Data to CIWQS

This chapter addresses the following topics:

- Data formats
- Requirements for uploading data
- Data mapping

8.1 Introduction

Raw sample data for Self-Monitoring Reports can be uploaded to CIWQS using the Electronic Deliverable Format (EDF) or CIWQS Data Format (CDF). EDF is a data standard for transferring electronic data files between data producers (e.g., labs and facilities) and data users (Water Boards). CDF was developed to complement EDF and provide a more targeted data standard for eSMR submissions.

8.1.1 EDF Support

This release of CIWQS supports EDF version 1.2i (July 2002). Additional information about the EDF can be found in "The Electronic Deliverable Format (EDF) version 1.2i Format Specifications" document prepared by ArsenaultLegg, Inc. (<u>http://www.arsenaultlegg.com/</u>), which is available in PDF format at

http://www.swrcb.ca.gov/cwphome/ust/cleanup/electronic_reporting/d ocs/edf_gr_v1_2i.pdf.

CIWQS supports both EDF formats:

- The relational format (eight files: error report, flat file, sample, quality control, test, results, narrative, and control limits)
- The flat file format (two files: control limits and flat file)

8.1.2 CDF Support

This release of CIWQS supports the CIWQS Deliverable Format (CDF) generated by the CDF Tool spreadsheet version 0.5 or above. The CDF format is a valid EDF flat file format archive, which contains two files: extra information file and flat file.

8.2 Uploading Data to CIWQS using EDF

This release of CIWQS will focus on importing only those fields necessary to match the data required by the raw data screen. Additional data will not be imported into database fields. Note, however, that the original EDF file will be stored as a binary large object in the database; therefore, all data in the submission can be viewed. Since the CIWQS database expands to include additional fields, these EDF files may be re-imported.

8.2.1 File Preparation

Prior to submission, the following tools may be used to prepare and validate an EDF submission:

- COELT (U.S. Army Corps of Engineers Loading Tools): A software tool designed for data entry, data export, data verification, and data reporting. Analytical laboratories use this tool to generate EDF deliverables.
- EDCC (Electronic Deliverable Consistency Checker): A software tool designed to verify lab EDF deliverables for compliance to the EDF format.

Links to these tools can be found on the SWRCB Web site at <u>http://www.swrcb.ca.gov/cwphome/ust/cleanup/electronic_reporting/e</u> <u>df_reports.htm</u>.



Although CIWQS performs a specific set of verifications, it does not perform all of the checks found in EDCC. The use of this program by submitters is highly recommended!

8.2.2 File Considerations

EDF files must be compressed in ZIP format. Tools such as PKZip, WinZip, and Windows XP's compressed folders all use the zip format. By compressing the various files into a single ZIP file, this ensures that the different files that comprise a submission do not become separated.

The ZIP file should contain:

- EDCC.TXT: An EDCC error report in test format. This file is not used by CIWQS, but will be stored for possible review. *Relational or Flat File*
- EDFNAR.TXT: Any narrative text. *Relational only*
- EDFSAMP.TXT: Sample data. *Relational only*
- EDFTEST.TXT: Test data. *Relational only*
- EDFRES.TXT: Results data. *Relational only*
- EDFQC.TXT: Quality Control data. Relational only
- EDFCL.TXT: Control Limits data. Relational or Flat File
- EDFFLAT.TXT: Flat File. *Flat File only*

Uploaded EDF files should be named in a manner that makes it clear what the file contains (e.g., facility name and report date, and lab name) and should end in ".zip". If multiple EDF files are uploaded, each must contain a unique name. EDF files uploaded to CIWQS should *not* be password encrypted.



EDF files must not contain errors to upload successfully. Errors in the EDF files will result in the generation of an error message within CIWQS. In some cases, an error may prevent a downstream error from being discovered.

The following file requirements must be followed in order to have a valid EDF file format recognized by CIWQS:

- An EDF may be submitted as an ASCII fixed length **.TXT file, as a comma separated value (CSV) delimited ASCII**.TXT file (also known as "comma/quote delimited"), or as a tab separated value delimited ASCII *.TXT file.
- The column heading or field name is not required in an ASCII file. This information is not part of the file and should be omitted. Only authorized codes from the valid value list should be keyed into fields requiring valid values.
- Every record within a file must be unique. If, for each key field, a record's data appears exactly the same in another record, these two records are considered to be duplicate records.

8.2.3 Code Value Mapping

Several files are entered as codes in the EDF format, CIWQS, or both. Any value that is a code in CIWQS will have a cross-map to the possible EDF values/codes. If a value is reported in an EDF that does not have a mapped value in CIWQS, the submission is rejected. Contact the CIWQS Help Center to add a code.

Table 8.1 shows how data is mapped to the CIWQS data fields.

CIWQS Field	Relational	Field
\sim	File	(EDFFLAT for Flat File)
Report ID	The upload is relate	d to the report by CIWQS when the
	EDF file is uploade	
Monitoring Location	Sample	FIELD_PT_NAME
Sample Collection Date	Sample	LOGDATE
Sample Collection Time	Sample	LOGTIME
Parameter	Results	PARLABEL
		(only PVCCODE=primary)
Minimum Sampling	Pulled from the Reg	culatory Measure related to this
Frequency	1	sampling frequency for the
	matching Monitorin	ng Location and Parameter.
Sample Type		culatory Measure related to this
		sample type for the matching
	Monitoring Locatio	n and Parameter.
Sample Medium	Sample	MATRIX
Units	Results	UNITS
Result	Results	PARVAL (only
		PARVQ=equals; see "non-
		detect")
Method Detection	Results	LABDL
Limit		
Minimum Level	Results	REPDL
Analytical Method	Results	ANMCODE
Sample Analysis Date	Results	ANADATE
Sample Analysis Time		not available from an EDF
	submission and will	
Scenario ID	Sample	USER_ADMIN_ID
Parameter	Test	BASIS
Concentration		
Analytical Results	Results	PARVQ
Qualifier		

Table 8.1 EDF Data Mapping

8.3 Uploading Data to CIWQS using CDF

The CIWQS Data Format (CDF) is a Microsoft Excel-based file that allows you to configure your data into a format that CIWQS will understand and interpret correctly. The CDF file is based on the EDF format: it uses the EDF fields to transfer CDF data.

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Although a CDF file includes the EDF fields, not all EDFrequired fields will be populated.

The CDF spreadsheet requires a Microsoft Excel version capable of running VisualBasic for Application (VBA) code (Excel 2000 or later).

Additional information about CDF and the CDF installer are available at <u>http://www.swrcb.ca.gov/ciwqs/sessions.html</u> (Figure 8.1).

<u>California Home</u>	Wednesday, August 31, 2005
Welcome to	alifornia
<u>Home</u> About the Board Board Business	California Environmental Protection Agency STATE WATER RESOURCES CONTROL BOARD WATER QUALITY
Laws/Regulations	CIWQS - Outreach Sessions
<u>Press Room</u> <u>Water Education</u> <u>Water Quality</u> <u>Water Rights</u>	CIWOS DATA FORMAT The CI/VQS Data Format (CDF) Microsoft Excel-based file allows you to configure your data into a format that CM/QS will understand and interpret correctly. You can open the CDF file in Microsoft Excel, configure it on the basis of your permit requirements, and then use the configured file as a template for entering monitoring data on a monthly basis. Important Note: The Tools require that macros be enabled.
CIWQS Links: <u>CIWQS Home</u>	Directions (PDF) CIMQS Data Format (zip file)

Figure 8.1 Links for CIWQS Data Format

8.3.1 File Preparation

The CIWQS Data Format tool should be used to prepare a CDF submission. This tool generates valid CDF flat file format from an Excelbased spreadsheet.



For a CDF submission, please use the CDF Tool spreadsheet version 0.5 or higher!

8.3.2 File Considerations

CDF files must be compressed in ZIP format. Tools such as PKZip, WinZip, and Windows XP's compressed folders all use the zip format.

The CDF Tool automatically generates this archive. By compressing the various files into a single ZIP file, this ensures that the different files that comprise a submission do not become separated.

The ZIP file should contain:

- CDFINFO.TXT: Information file
- CDF.CSV: Flat file

Uploaded CDF files should be named in a manner that makes it clear what the file contains (e.g., facility name and report date, and lab name) and should end in ".zip". If multiple EDF files are uploaded, each must contain a unique name. EDF files uploaded to CIWQS should *not* be password encrypted.

The following file requirements must be followed in order to have a valid CDF file format recognized by CIWQS:

- The CDF file may be submitted only as a CSV (comma/quote delimited) generated by the CDF tool spreadsheet.
- The column heading or field name is not required in a CSV file. This information is not part of the file and should be omitted. Only authorized codes from the valid value list should be keyed into fields requiring valid values.
- Every record within a file must be unique. If, for each key field, a record's data appears exactly the same in another record, these two records are considered to be duplicate records.



CDF files must not contain errors to upload successfully. Errors in the CDF files will result in the generation of an error message within CIWQS. In some cases, an error may prevent a downstream error from being discovered.

8.3.3 Code Value Mapping

Several files are entered as codes in the CDF format, CIWQS, or both. Any value that is a code in CIWQS will have a cross-map to the possible CDF values/codes. If a value is reported in a CDF that does not have a mapped value in CIWQS, the submission is rejected. Contact the CIWQS Help Center to add another code.

Table 8.2 shows how data is mapped to the CIWQS data fields.

CDF Field	<i>CIWQS Raw</i> Data Field	EDF Field
Monitoring	Monitoring	LOCID
Location ID	Location	(FIELD_PT_NAME)
Scenario ID	Scenario	USER_ADMIN_ID
Sample Collection Date	Sample Event Date	LOGDATE
Sample Collection Time	Sample Event Time	LOGTIME
Sample Medium	Sample Medium	MATRIX
Analytical Method	Analytical Method	ANMCODE
Sample Analysis	Sample Analysis	ANADATE
Date	Date	
Parameter	Parameter	BASIS
Concentration		
Parameter	Parameter	PARLABEL
Analytical Result	Result	PARVAL
Analytical Result	*	PARVQ
Qualifier		
Method Detection	Method Detection	LABDL
Limit	Limit	
Minimum Level	Minimum	REPDL
		(REPDLVQ="MRL")
Units	Units	UNITS

The CDF format always sets PVCCODE to "PR."

* To enter a Non-Detect (ND), enter the MDL into the "Method Detection Limit" and "Analytical Result" fields and select "<" for the "Analytical Result Qualifier." To enter a Detected, Not Quantified (NDQ) value, enter the MDL into the "Method Detection Limit," the ML into the "Minimum Level," and enter the estimated result in the "Analytical Result" field. The "Analytical Result Qualifier" should be set to "=" in this case.

8.4 Troubleshooting Errors During File Upload

After uploading an EDF or CDF file, a two-pass parsing process is started. This process displays a list of errors encountered in case the uploaded file could not be successfully parsed in the following format.

<File name>, line <line number>: <error description>

For example:

CDF.CSV, line 12: field PARLABEL value 'DRO' is not a valid value.



The line number is the line number in the generated file, which contains no header information. For example, inside the CDF tool, the above indicated line 12 will actually be found on line 13 because the spreadsheet is displaying an extra line of header on line 1.

The following are the most common parsing errors, categorized by the pass number:

8.4.1 Pass 1

Pass 1 errors are related to the EDF specifications that must be followed for building a valid EDF file.

- Archive content error: Flat File or Relational format not detected: no valid file format (EDF flat file, EDF relational or CDF format) was detected for the upload archive.
- Archive content error: <file name> missing: required file from the archive is missing.
- unknown file format: no valid file format (fixed length, comma/quote delimited or tab delimited format) was detected for the specified file inside the archive.
- **required <field name> field not present:** a required field is empty or cannot be found.
- **field <field name> contains invalid date '<value>':** the date field contains an invalid date format (only 'YYYMMDD' date format is accepted).
- **field <field name> contains invalid logic value '<value>':** the Boolean field contains an invalid value (only 'T' and 'F' values are accepted).
- **field <field name> contains invalid numeric value '<value>':** the numeric field contains an invalid number.
- **field <field name> contains invalid time '<value>':** the time field contains an invalid value (only 'HHMM' time format is accepted).
- field <field name> value '<value>' exceeds maximum length of <max length>: the value length exceeds the maximum accepted length for the field.
- **field <field name> value '<value>' is not a valid value:** the value of the field cannot be found in the valid value list (VVL).

- Primary key uniqueness violated. '<value>' already exists as a primary key: the primary key composed from multiple field values was already found in the file (record uniqueness violation).
- Foreign key '<value>' not found in related table '<file name>': the foreign key composed from multiple field values was not found in the related file (EDF relational format only).

8.4.2 Pass 2

Pass 2 errors are related to the specific CIWQS requirements.

- place match cannot be found for FIELD_PT_NAME = '<value>': monitoring location identifier match cannot be found for the specified value.
- multiple place matches found for FIELD_PT_NAME = '<value>'. Please contact waterboard regarding this issue: multiple monitoring locations were found with the same identifier. This error should not appear. Please contact your local Water Board immediately if you encounter this error.
- field BASIS/PARLABEL combination '<basis value>' / '<parlabel value>' is not a valid combination: the specified combination is not a valid combination.



The EDF field FIELD_PD_NAME is required in order to do a valid match with a Monitoring Location even if it is not defined as a required field in the EDF specifications.

8.5 Additional Help

You can contact the CIWQS Help Desk at 1-866-79-CIWQS (24977) from 8:00 AM to 5:00 PM Monday through Friday. You can also access additional information regarding the CIWQS application, CDF files, and EDF files from the CIWQS Web site at <u>http://ww.swrcb.ca.gov/ciwqs</u>.

CIWQS Water Board User's Guide

Part IV

Enforcement

9 Violations Module
10 Inspections Module
11 Invoices Module
12 Enforcement Tab

9 Violations Module

This chapter addresses the following topics:

- An introduction to the *Violations* Module
- Searching for an existing Violation
- Creating a new Violation

9.1 Introduction to the Violations Module

The *Violations* Module allows you to create and track potential and verified Violations. Potential Violations are deviations from permit requirements that are identified during Inspections or by running an error check within the *eSMR* Module. Verified Violations are those identified and tracked as part of Enforcement actions. The *Violations* Module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

9.1.1 Searching for a Violation

Selecting the *Create/Maintain Violations* Module brings you to the *Violations Search* page (Figure 9.1) where you can create a new Violation or search for an existing Violation.

Water Boards CIWQS		Menu Help Log out
Violation Search		
Enter search criteria a	nd click 'Search'.	
Place:	Clear Place Select Place	
Program:	Non Point Source	
Party:		
System ID:		
Status:	Allegation Dismiss 💌	
Source:	eSMR VID: 3220 Select Source	
Regional Water Board:	✓	
Staff Assigned:	✓	
Search Creat	te New Violation	

Figure 9.1 Violation Search Page

To search for an existing Violation, input criteria into the search fields and click the "Search" button. Click the "Create New Violation" button to open the Violations Editor and create a new record.

Table 9.1 describes the search criteria fields.

Table 9.1 Violation Search Fields

Field Name	Description
Program	Select a program from the drop-down menu.
Party	Use this field to search for a full or partial name of a Party. This search field is not case-sensitive.
System ID	Enter a system ID.
Status	Select a status from the drop-down menu to search for Violations with a specific status (e.g., Allegation, Dismissed).
Source	Select a source from the drop-down menu to select the source of a Violation (e.g., Chemical Spill, Storm).
Select Source	Selecting "eSMR" or "Inspection" activates this button. This button is explained further below.
Regional Water Board	Select a Regional Water Board from the drop-down menu to locate Violations related to Facilities regulated by a specific Water Board.
Staff Assigned	Select a name from the drop-down menu to find Violations assigned to a particular staff member. This search uses the assigned staff member and not the task assignments.

Place

To search for a Violation related to a particular Place, click the "Select Place" button. This opens the *Place Search* page, where you can search for the appropriate Place using the search criteria fields.

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See Chapter 3 for more information on searching for Places.

When you have found the Place related to the Violation you wish to find, click the "link" hyperlink at the end of the corresponding row in the Place Search results table. This returns you to the *Violation Search* page with the name of the Place displayed in the Place field. Click the "Clear Place" button to remove the selected Place from the search criteria.

Source

If you select "eSMR" or "Inspection Violation" from the Source drop-down menu, the "Select Source" button is activated. Clicking this button opens either the *Select Facility* page (the first step in selecting a related eSMR) or the *Inspection Search* page. Using the "Select Source" button allows you to search for either a Self-Monitoring Report or an Inspection Violation if you don't already know the system ID, so you can use them in your search for a Violation record.

Selecting "eSMR" takes you to the *Select Facility* page (Figure 9.2). All Facilities that you have access to will be listed on this page.

Ater Buards CIWQS Navigate to: Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out. elf Monitoring Report (SMR)				
Cancel Filter by Name: Filter Select the facility for which you are submitting this Self Monitoring Report Previous 1-6 of 6 v Next				
Facility	Facility Physical Address	Responsible Agency Name	Case Worker Name	
ADESA CALIFORNIA	11625 INGLENOOK MIRA LOMA, CA 91752			
DESALTER - 17TH STREET	18602 17TH TUSTIN, CA 92680			
HOT SPRINGS, GLEN IVY	25000 GLEN IVY LAKE ELSINORE, CA			
PLATFORM EVA	PRC 3033 SEAL BEACH, CA			
STP NO 5,CHINO	6063 KIMBALL			
STE NO S,CHINO	CHINO, CA 91710			

Figure 9.2 Select Facility Page from the Violation Search Page

Click the "Cancel" button on this page, or the following pages, to return to the *Violation Search* page without selecting an eSMR.



See Chapter 7 for more information on how to search for a Self-Monitoring Report.

When you have selected the appropriate Facility, Order and Report, you can then click the "link" hyperlink next to the Report you wish to use to search for a Violation. This brings you back to the *Violation Search* page with the system ID of the selected Report in the *ID* field.

Selecting "Inspection" from the *Source* drop-down menu takes you to the *Inspection Search* page (Figure 9.3).

Water Boards CIWQS	Menu Help Log out Navigate to: Image: Comparison of the second	
Inspections Search		
Enter search criteria and click 'Sea	rch'.	
Place:	Clear Place Select Place	
Status:	Any 🗸	
Status Date:		
Water Board:	Any 💌	
Program:	Non Point Source	
Staff Assigned:	Any 🕐 🔲 Inpections Without Assigned Staff	
Scheduled between	and Planned without dates	
Occured between	and and a second s	
Unscheduled, but have occured		
Scheduled, but have not occure	ed	
Search Cancel		

Figure 9.3 Inspections Search Page from the Violation Search Page

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See Chapter 10 for more information on how to search for an Inspection.

When you have found the appropriate Inspection, click the "link" hyperlink next to the Inspection you wish to use to search for a Violation. This brings you back to the *Violation Search* page with the system ID of the selected Inspection in the *ID* field.

Using the CIWQS Search Engine

The CIWQS Violations search engine is based on an AND search. This means that it looks for Violations that match ALL of your search criteria. For example, you can enter "NPDES" in the Program field and "Acme" in the Party field and the system will search for all Violations for Parties with "Acme" in their name that have Violations related to NPDES. The search will not find Violations for Parties with the name "Acme" for other program types or NPDES Violations for other Parties.

In addition, wildcards (place holder symbols such as "%", or "*") are not required for these searches and the searches are case insensitive. This means that entering "Acme" in the Party field will find "Acme Industries" and "Pacmel Corporation".

To clear the *ID* field, select the "" (blank) option from the *Source* dropdown menu. This refreshes the page and clears the *ID* field.

Click the "Search" button when you have finished entering your search criteria. The Violation Results table refreshes to show up to the first 100 Violation records that matched **all** of the search terms you entered (Figure

9.4). Table 9.2 details the information that will be displayed in the results table.

Water Buards	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.							
Violation	Search							
Click 'New S	earch' to initiate a n	ew search with new criteria						
Place: 3M	Pharmaceuticals	Clear Place Select	Place					
Program:			~					
Party:								
Status:		~						
Source:		V ID:	Select Source					
Regional Wa	ter Board:	*						
Subregion:		~						
Staff Assign	ed:		~					
New Sea	arch Create	New Violation						
Search Resu	lts:						Previous 1-5	of 5 👻 Nex
System ID	Violation Type	Violation Date	Serioius/Priority?	Place Name	Program	Status	Staff Assigned	
<u>22940</u>	Effluent	2005-04-28 14:10:56.0	PRIORITY, SERIOUS, MMP	3M Pharmaceuticals		Violation		<u>duplicate</u>
<u>40482</u>	Effluent	2005-04-28 14:10:56.0	PRIORITY, SERIOUS	3M Pharmaceuticals		Violation		<u>duplicate</u>
<u>41136</u>	Deficient Report	2005-04-28 14:10:56.0		3M Pharmaceuticals		Violation		<u>duplicate</u>
62106	Deficient Report	2005-04-28 14:10:56.0		3M Pharmaceuticals		Violation		duplicate
98176	Effluent	2005-04-28 14:10:56.0	PRIORITY, SERIOUS, MMP	3M Pharmaceuticals		Violation		duplicate

Figure 9.4 Results of a Violation Search

Field Name	Description	
	Shows the unique system-generated ID for the	
System ID	Violation. Clicking on the ID hyperlink opens the	
	Violation record.	
Violation Type	Shows the Violation type.	
Violation Date	Shows the Violation occurrence date and time.	
Serious/Priority?	If the Violation is serious and/or a priority, that	
Serious/ Friority!	information is indicated here.	
Place Name	Shows the name of the Place where the Violation	
r lace Mallie	occurred.	
Drogram	Indicates the program under which the Violation is	
Program	being cited.	
Status	Shows the status of the Violation	
Staff Assigned	Indicates which Water Board staff member is the lead	
Staff Assigned	currently assigned to the Violation.	

Table 9.2 Results Table

Clicking the "duplicate" hyperlink creates a new Violation record. All data in the duplicated Violation is copied including links to other People and Places. A new system-generated Violation ID is generated for the new record.

If the Violation record you were searching for appears in the Results table, you can access its record by clicking the System ID hyperlink. If the

Violation of interest does not appear, you can click the "New Search" button to refresh the page and clear the search criteria fields.



If you have trouble finding an existing Violation, try using fewer search criteria. This will broaden your search.

Click the System ID hyperlink in the results table to open the record for that Violation in the Violations Editor.

9.2 The Violations Editor

The Violations Editor allows you to either enter data for a new Violation or to modify the record for an existing Violation. This page can be accessed by clicking the "Create New Violation" button on the *Violation Search* page or by clicking the System ID hyperlink in the results table when searching for an existing Violation.

There are eight tabs on the Violation Editor, and each tab captures related sets of information about a Violation.

- General Information Tab
- Requirements Tab
- Related Parties Tab
- Related Places Tab
- Linked Enforcement Actions Tab
- Documents Tab
- Additional Information Tab
- Attachments Tab

While individual tabs show different information, each has a common page header. The header shows the Violation ID, related program, Water Board, staff assignment, Facility, status and Order number for reference.

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As information is saved within the Violation Editor, the header information automatically refreshes to display updated information.

9.2.1 General Information Tab

The General Information tab is the first page you see when you open a record for an existing Violation or create a new Violation record. The

General Information tab captures basic information about the Violation including relevant Violation dates, Status, and Source information (Figure 9.5).

Water Boards CIWQS			Menu Help Log out Navigate to: as: demo. If this account does not belong to you, please log out.
Violation			
Violation ID:	22940	Program:	
Water Board:	Multiple	Staff Assigned:	
Facility:	Multiple	Status:	Violation
Order #:			
	nts Related Parties	Related Places Link	nked Enforcement Actions Documents Addn. Info Attachments
Save			
System ID:	22940		
Violation Type:*	Water Quality > Efflu	Jent	v
Violation Description:*	November 2003 efflu (11/30/03): Nitrogen mg/L).		
Status:*	Violation	~	Status Date:* 06/01/2005 View Status History
Discovery Date:	11/30/2003		
Occurrence Date:*	04/28/2005		
Report Receipt Date:	12/22/2003		
Violation Source:*	Discharger event	~	D: Select Source
Priority Violation:			
 NPDES Serious Violati Subject to MMP? 		bject to MMP, select a	a reason N
Juliject to mini	II VIOIduon is not sub	Ject to Mimr, select a	

Figure 9.5 General Information Tab

When you are creating a new Violation, the General Information tab will be the only tab available for data entry until all required fields on the tab are filled out and the record has been saved. Saving the record for the first time activates the remaining tabs.



The Violation Type, Violation Description, Status, Status Date, Occurrence Date and Violation Source are all required before a Violation record can be saved.

Required Fields

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

Violation Type & Description

The first pieces of information captured for a new Violation are its Type, Sub-Type, and Description (Figure 9.6).

The *System ID* field is read-only and displays a system-generated ID for the Violation. The *System ID* field is refreshed and populated once the record has been saved.

Save	
System ID:	22940
Violation Type:*	Water Quality > Effluent
Violation Description:*	November 2003 effluent violation (11/30/03): Nitrogen daily max (26/8 mg/L).

Figure 9.6 Violation Type Description Fields

A Violation can be classified as:

- Calculation
- Monitoring
- Other Requirement
- Reporting
- Water Quality

These categories are further broken down to reflect sub-types within the *Violation Type* drop-down menu.

Select from the drop-down menu to select the appropriate Violation type. Enter a narrative report of the Violation in the *Violation Description* field.

Violation Status and Dates

The next pieces of Violation information to be recorded are the Violation status and applicable dates (Figure 9.7). Select the Violation Status from the drop-down menu.

Status:*	Violation	Status Date:* 06/01/2005	View Status History
Discovery Date:	11/30/2003		
Occurrence Date:*	04/28/2005		
Report Receipt Date:	12/22/2003		

Figure 9.7 Violation Status and Date Fields

Two of the four date fields are required: the *Status Date* field, and the *Occurrence Date* field. The status date is the date that the status was last changed. The occurrence date is the date that the violation actually occurred.

Optionally, you can input a discovery date and report receipt date. The discovery date is the date that the Violation was discovered. The report receipt date is the date that the Water Board received a report regarding the Violation.

Click the "View Status History" hyperlink to open a new window that displays a history of changes made to the Violation status (Figure 9.8).

Status History		
	Status	Status Date
	Violation	2005-06-01 10:05:42.0

Figure 9.8 View Status History Page

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	-	l
ľ		1

See Chapter 1 for more information about pop-ups in CIWQS.

Violation Source

The Violation source and source ID are the next two pieces of information captured for a Violation (Figure 9.9).

Violation Source:*	Inspection Violation 🐱	ID:	Select Source

Figure 9.9 Violation Source

When you have finished entering the Violation Source information, click the "Save" button to save the Violation record. You now have access to the remaining tabs of the Violations Editor.

If you select "eSMR" or "Inspection Violation" as the Violation source, the "Select Source" button is activated. Click the "Select Source" button to launch either the *Select Facility* page or the *Inspections Search* page. This button allows you to associate an eSMR or Inspection ID with the Violation (as described above).

Click the "Cancel" button at any time (on either the *Select Facility* or *Inspections Search* page) to return to the Violations Editor without linking an eSMR or Inspection to the Violation.

Additional Information

Four additional pieces of information that can be captured for the Violation can be found at the bottom of the General Information tab (Figure 9.10).

 ✓ NPDES Serious Violation: □ Subject to MMP? If violation is not subject to MMP, select a reason: N 	Priority Violation:			
Subject to MMP? If violation is not subject to MMP, select a reason: N	Violat NPDES Serious Violat	tion:		
	Subject to MMP?	If violation is not subject to MMP, select a reason:	N	1

Figure 9.10 Additional Information Fields

Select the checkbox for "Priority Violation", if applicable. If the item is a priority Violation, the checkbox for "NPDES Serious Violation" can also be selected.

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If the program for the Violation is NPDES and the NPDES Serious Violation box is selected, then the Priority Violation checkbox will automatically be selected and cannot be cleared.

If an NPDES Serious Violation is counted towards the Mandatory Minimum Penalty (MMP), the "Subject to MMP" checkbox can be selected. If the program is not NPDES, the box will be disabled and cleared. If the program is NPDES and this box is clear, the *If violation is not subject to MMP, select a reason* field is enabled and is required.

If the drop-down menu is enabled, select a value, as appropriate, to complete data entry for the General Information tab.

STOP

When you have entered or updated new information in the General Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

Once you have saved the information in the General Information tab, you can enter data in the remaining tabs of the Violation Editor.

9.2.2 Requirements Tab

The Requirements tab displays information on the Requirement that is the subject of the Violation (Figure 9.11).

Each Violation can only be associated with one Requirement. If multiple related requirements were violated, each must have its own Violation.

Water Boards CIWQS			ate to: tech. If this account does not belo	Menu Help Log out v ong to you, please log out.	
Violation					
Violation ID:	134900	Program:	NPDES		
Water Board:	Multiple	Staff Assigned:	Rico Duazo		
Facility:	Multiple	Status:	Violation		
Order #:	R8-2005-0003				
General Info Requirem	ents Related Parties	Related Places Linked Er	nforcement Actions Documents	Addn. Info Attachments	
Save					
Regulatory Measure Nurr	iber:	133295 Search 1	for Regulatory Measure)	
Monitoring Location:		~			
Requirement Type:		Field Activity	Search for Re	quirement	
Requirement Text:		Total Suspended Solids unspecified) mg/L, Limit Sampling Frequency: 1 /	Basis: Not Limited, 📃		
Program:		NPDES			
Reported Result.		Failure to submit Y2K rea	adiness report. 🔥		

Figure 9.11 Requirements Tab

Regulatory Measure

When the Requirements tab is selected for an established Violation, the System ID of the associated Regulatory Measure (e.g., Order) under which the Violation has occurred is shown as read-only in the *Regulatory Measure* field. To associate a Regulatory Measure with a new Violation, click the "Search for Regulatory Measure" button. This launches the *Regulatory Measure Search* page. Enter the appropriate search criteria and click the "Search" button.

See Chapter 5 for more information on searching for Regulatory Measures.

When you have found the Regulatory Measure to which you wish to link, click the "link" hyperlink at the end of the corresponding row. The Regulatory Measure Number (System ID) for the linked record will be shown on the Requirements tab (Figure 9.12).

If a Regulatory Measure is selected, all remaining fields on the tab are required before the record can be saved.

Regulatory Measure Number: 5091 Search for Regulatory Measure

Figure 9.12 Regulatory Measure Number

The associated Regulatory Measure can be changed by clicking the "Search for Regulatory Measure" button and linking an alternate Regulatory Measure.

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Monitoring Location & Requirements

Once a Regulatory Measure number has been specified, you may enter information related to the Monitoring Location and associated Requirements (Figure 9.13). Select the Monitoring Location at which the Violation occurred from the drop-down menu. This Monitoring Location should be based on the Monitoring Location defined in the selected Regulatory Measure.

Monitoring Location:	General 💌
Requirement Type:	Search for Requirement
Requirement Text:	
Descenter	

Figure 9.13 Monitoring Location & Requirements

Select a Requirement type (e.g., reporting, record-keeping, basin plan, etc.) from the drop-down menu. Click the "Search for Requirement" button to search for all Requirements of that type. Clicking this button opens a page that lists all Requirements for that Regulatory Measure of the selected type (Figure 9.14). Click the "link" hyperlink at the end of the appropriate row to link the Requirement to the Violation and return to the Requirements tab.

ID	Description	
234255		Link
234257		Link
234258		Link
234262		Link

Figure 9.14 Link Requirement Page

Click the "Cancel" button to return to the Requirements tab without linking a Requirement.

The *Requirement Text* field shows the full text of the requirement (as displayed in the description column of the *Link Requirement* page). If the Requirement was selected using the "Search for Requirement" tab, the field auto-populates with relevant information (and is read-only). If no search was performed, you may enter text into this field.

Program & Reported Result

The *Program* and *Reported Result* fields are found at the bottom of the Requirements tab (Figure 9.15). The *Program* field is read-only and it displays the program associated with the Requirement. This field autopopulates when a Requirement is linked to the Violation. The reported

result for the Requirement can be written into the text box at the bottom of the page. The *Reported Result* field defaults to the Violation description entered on the General Information tab.

Program:	NPDES
Reported Result:	monitoring was deficient 🛆
	×

Figure 9.15 Program and Reported Result Fields



When you have entered or updated new information in the Requirements tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

9.2.3 Related Parties Tab

The Related Parties tab allows you to link People and Organizations to the current record (Figure 9.16). The list of Related Parties for a Violation is pre-populated when a Regulatory Measure is linked to the Violation. The Relationship defaults to "undefined".

				Menu Help Log.out					
	You	Navigate t are logged-in as: demo	ec If this account does not belo	~					
Violation									
Violation ID:	134900 Program	c	NPDES						
Water Board:	Multiple Staff As	igned:	BILL BROWN						
Facility:	Multiple Status:		Allegation						
Order #:									
General Info Requirement	Related Parties Relate	d Places Linked Enforc	ement Actions Documents	Addn. Info Attachments					
Serve Show Inactive F	lelationships								
Related Organizations									
Link an Organization									
Organization Name *			Role Relationsh	skp *		Comment	Start Date *	End Date	
Ac Freight Systems Inc	Undefined				~		06/20/2005		Unlink
						~			
Ac Freight Systems Inc	Undefined				*	 	06/20/2005	m	Unlink
UNITEK CORPORATION/38	Undefined				*		06/20/2005		Unlink
Related Persons	1						1	1	1
Link a Person									
Person Name *			Role Relationship *			Comment	Start Date *	End Date	
BILL BROWN Assign	ed Staff			~	[6/20/2005		Unlink
Related Persons at Organiz	ation								
Link Person at an 0									
	n Name *			Role Relationship *			ment Start Date		
Cynthia Vanthal Enforceme	t Contact Claremont, City	of 🖌 Assigned Staff				<u> </u>	06/20/2005		Unlink

Figure 9.16 Related Parties Tab

When the Related Parties tab is viewed, the default is for only the active relationships to be displayed (relationships with a Start Date with today's date or earlier and an End Date of a date later than today's date). If you wish to see inactive relationships instead, select the box next to the "Save" button at the top of the tab with the label "Show Inactive Relationships".

There are three options for linking Parties to the record:

• Link an Organization

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- Link a Person
- Link a Related Person at an Organization (establishes roles)

Link an Organization

Clicking the "Link an Organization" button launches the *Party Search* Page with the *Party Type* field set to "Organization". Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Related Parties tab without linking an Organization.

When you have found the Organization you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Parties tab (Figure 9.17).

A Party must be pre-defined using the *Create/Maintain Parties* Module in order to be linked to the current record.

Related Organizations					
Link an Organization					
Organization Name *	Role Relationship 1	Comment	Start Date *	End Date	
Ac Freight Systems Inc	Undefined	A	06/20/2005		Unlink
		×.			
Ac Freight Systems Inc	Undefined	<u>^</u>	08/20/2005		Unlink
		~			
UNITEK CORPORATION/ 3M	Undefined	^	06/20/2005		Unlink
		~			

Figure 9.17 Linking an Organization

Additional information about the relationship with the linked Organization can be captured in the displayed fields. The *Role/Relationship* and *Start Date* fields are required for all linked Organizations.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Violation and the linked Organization. The start date indicates the date the relationship between the Parties became (becomes) effective. The *Start Date* field is auto-populated with today's date when an Organization is linked. This date can be changed, as required.

Optionally, comments can be added to the *Comments* field and an end date for the relationship can be established. Clicking the "Unlink" hyperlink removes the link to the Organization but does not delete the record for that Organization.

Link a Person

Clicking this button launches the *Party Search* page with the *Party Type* field set to "Person". Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Related Parties tab without linking a Person to the Violation.

When you have found the person you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Parties tab (Figure 9.18).

Related Persons	_				
Link a Person]				
Person Name *	Role-Relationship *	Comment	Start Date *	End Date	
BILL BROWN	Assigned Staff	<u>^</u>	06/20/2005		Unlink
		~			

Figure 9.18 Linking a Person

Additional information about the relationship with the linked Person can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked People.

Choosing a role/relationship from the drop-down menu establishes the relationship between the current Violation and the linked Person. The start date indicates the date the relationship between the Parties became (becomes) effective. The Start Date field is auto-populated with today's date when a Person is linked to the Violation. This date can be changed, as required.

Optionally, comments can be added to the *Comments* field and an end date for the relationship can be established. Clicking the "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.

Link a Related Person at an Organization

This button allows you to link an affiliated Person to the Violation. An affiliated person is a person who has been linked to an Organization with a specific role/relationship.

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See Chapter 4 for more information on affiliated people.

Clicking the "Link a Person at an Organization" button launches the *Party Search* page with the *Party Type* field set to "Person". Enter the appropriate search criteria and click the "Search" button. When you have

found the person you wish to link, click the "select" hyperlink at the end of the corresponding row. This creates a new row in the Related Person at Organization table (Figure 9.19). The Related Person at Organization table is described in Table 9.3.

Related Persons at Organization Link Person et an Organization					
Person Name *	Role Relationship *	Comment	Start Date *	End Date	
Cynthia Vanthal Enforcement Contact: Claremont, City of 👻	Assigned Staff	< () >	06/20/2005		Unlink

Figure 9.19 Linking a Person at an Organization

Field Name	Description
Current Party (role at Organization)	Displays the name of the Party (Person or Organization) as defined on the General Information tab. This is <i>not</i> the Party that was just selected using the <i>Party Search</i> page. If the current Party is a Person, a drop-down menu is included in the Current Party field listing all of the Organizations to which this Person has already been linked and his or her role within the Organization. Select the appropriate Organization/role from the drop-down menu if necessary.
Role/Relationship	Select the role/relationship between the Current Party and the Party selected via the <i>Party Search</i> page from the drop-down menu.
Person Name (role at Organization)	Displays the name of the Party selected via the Party Search page and a drop-down menu of all relationships that this person has at their linked Organizations. Select the appropriate role from the drop-down menu.

Table 9.3 Related Persons at Organization Table

Select the appropriate values within the *Current Party, Role/Relationship*, and *Person Name* columns. Enter the date the relationship became effective in the *Start Date* field.

Optionally, enter comments in the *Comments* field and an end date for the relationship.

The "Unlink" hyperlink removes the link to the Person but does not delete the record for that Person.



When you have entered or updated new information in the Related Parties tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

9.2.4 Related Places Tab

The Related Places tab allows you to link the Violation to Places (Figure 9.20). The Related Places tab will be pre-populated with a list of Places linked to the Regulatory Measure associated with the Violation (including all Facilities, Monitoring Locations, and Discharge Points). The relationship types default to "undefined."

When the Related Places tab is viewed, the default is for only the active relationships to be displayed (relationships with a Start Date with today's date or earlier and an end date of a date later than today's date). If you wish to see inactive relationships instead, select the box next to the "Save" button at the top of the tab with the label "Show Inactive Relationships". If you wish to see only the discharge points, select the box next to the item labeled "Show Only Discharge Points".

Violation						
Violation ID:	134900	Program:	NPDES			
Water Board:	Multiple	Staff Assigned:	BILL BROWN			
Facility:	Multiple	Status:	Allegation			
Order #: General Info Requirements Save Link a Place			forcement Actions Documents Addn. Info			
Place Name*		Role/Relationship*	Start Date*	End Date		
VECTOR CONTROL		Undefined 💌	06/20/2005		<u>Unlink</u>	
001		Undefined 👻	06/20/2005		<u>Unlink</u>	
<u>M001</u>		Undefined 🐱	06/20/2005		Unlink	
<u>M002</u>		Undefined 👻	06/20/2005		Unlink	
<u>M003</u>		Undefined 💌	06/20/2005		Unlink	
<u>M004</u>		Undefined 👻	06/20/2005		<u>Unlink</u>	
<u>M005</u>		Undefined 💌	06/20/2005		<u>Unlink</u>	
<u>M0055</u>		Undefined 🐱	06/20/2005		Unlink	
<u>M066</u>		Undefined 💌	06/20/2005		<u>Unlink</u>	
STP NO 5, CHINO		Undefined 💌	06/20/2005		Unlink	
*- Indicates required.						

Figure 9.20 Related Places Tab

Click the "Link a Place" button to launch the *Place Search* page. Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the Related Places tab without linking a Place to the Violation.

When you have found the Organization you wish to link, click the "link" hyperlink at the end of the corresponding row. This creates a new row in the Related Places table (as in Figure 9.20).

To link a Discharge Point, click the "Link a Discharge Point" button; this limits the Place Search to only find Places of type "Discharge Point" that match the search criteria.

Additional information about the relationship with the linked Place can be captured in the table fields. The *Role/Relationship* and *Start Date* fields are required for all linked Places.

Choosing a role/relationship from the drop-down list box establishes the relationship between the current Party and the linked Place. The start date indicates the date the relationship became (becomes) effective. The *Start Date* field auto-populates with today's date when a new Place is linked to the Violation. This date can be changed, as required.



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When you have entered or updated new information in the Related Places tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

9.2.5 Linked Enforcement Actions Tab

The Linked Enforcement Actions tab allows you to link Violations to Enforcement Actions (Figure 9.21). Enforcement Actions are a type of Regulatory Measure. When you open the Linked Enforcement Actions tab, you see all Enforcement Actions related to the Facility that has incurred the Violation.

Enforcement Actions are associated with a Violation based on linked Places. All Enforcement Actions for the Places related to the Violation are displayed on this tab.

Menu Help Log out Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Violation							
Violation ID:	134898		Program:	NPE)ES		
Water Board:	Region 2 - San F	rancisco Bay	Staff Assigned	I: Rice	Duazo		
Facility:	PITTSBURG PO	VER PLANT	Status:	Viol	ation		
Order #:	R2-2002-0072						
General Info Re	quirements Relate	d Parties Related Pla	es Linked Enforce	ment Actions	Documents /	Addn. Info Attachments	
Filter	Create New Enfor	cement Action/Order					
Filter by Status:	*						
Enforceme	ent Action ID	Тур	e	Status	Linked?		
222080		Cease and Desist Or	ler	Inactive	No	Add Violation to this Enforcement Action	
		Cease and Desist Or		Inactive	No	Add Violation to this Enforcement Action	

Figure 9.21 Linked Enforcement Actions Tab



See Chapter 12 for more information about Enforcement Actions.

The *Filter by Status* field can be used to display only those Enforcement Actions that have a particular Status. Once you have selected a Status from the *Filter by Status* drop-down menu, click the "Filter" button to refresh the table.

To link the Violation to the Enforcement Action, click the "Add Violation to this Enforcement Action" hyperlink. Enforcement Actions that have been linked to the Violation through this Module or the *Regulatory Measures* Module show "Yes" in the *Linked?* field.

9.2.6 Documents Tab

The Documents tab allows you to identify external documents (in hard copy format) that are related to a Violation (Figure 9.22). For example, files located in your office may be related to the Regulatory Measure but are unavailable as electronic documents. This tab provides a way to indicate available, related Documents that cannot be uploaded using the Attachments tab.

Water Buarda	Menu Help Log out Navigate to: v You are logged-in as: demo. If this account does not belong to you, please log out.							
Violation								
Violation ID:	134900	Program:	NPDES					
Water Board:	Multiple	Staff Assigned:	BILL BRC	WN				
Facility:	Multiple	Status:	Allegation	ı				
Order #:								
General Info Requirement	s Related Parti	es Related Places	Linked Enforcement Act	tions Documents	Addn. Info Attach	ments		
Add a Document								
Document Number		Document Name/	Description	Document	Location	Status	Status Date	
<u>R-0001</u>	<u>Requiati</u>	on: Violations		R7		Final	06/20/2005	<u>delete</u>

Figure 9.22 Document Tab

Documents that have already been linked will be listed in the table at the bottom of the page.

To associate a document with the Violation, click the "Add a Document" button. This launches the *Add Document* page where you can fill in fields required to create a new record for a linked document (Figure 9.23). Table 9.4 provides the description of each field on the *Add Document* page.

Water Boards CIWQS		You are logge	Menu Help Log out Navigate to: In as: demo. If this account does not belong to you, please log out.
Violation			
Violation ID:	134900	Program:	NPDES
Water Board:	Multiple	Staff Assigned:	BILL BROWN
Facility:	Multiple	Status:	Allegation
Order #:			
General Info Requireme	nts Related Part	ies Related Places	Linked Enforcement Actions Documents Addn. Info Attachments
Save Cancel			
Document Number: *			
Document Name/Descript	ion: *		
Document Location: *			
Status: *		~	

Figure 9.23 Add Document Page

Table 9.4 Document Fields

Field	Description
	Enter a reference number for the Document. As a
Document Number	free-entry field, any numbering system can be
	used. Typically, this would be the file number.
Document	Provide a description of the Document or the
Name/Description	Document title.
Document Location	Enter where the Document is located.
Status	Indicate the Status of the Document (e.g., under
Status	review, approved).



When you have entered or updated new information on the *Add Document* page be sure to click the "Save" button at the top of the tab to avoid loss of data.

Click on the document number or document name/description hyperlinks to open the *Add Document* page and edit the document record.

9.2.7 Additional Information Tab

The Additional Information tab is designed to capture any relevant information that the other tabs do not address. Additional information is recorded by documenting various attributes that apply to a particular Violation type.

As this page is used in several of the CIWQS Modules, it has been formatted to accept a wide range of data and information (Figure 9.24). The attributes that can be specified for a given Violation are listed in the Attribute table.

Water Boards CIWQS			Navigate 1 You are logged-in as: demo		rot belong to you, please log out		
Violation							
Violation ID:	134900	Pro	ogram:	NPDES			
Water Board:	Multiple	Sta	ff Assigned:	BILL BROWN			
Facility:	Multiple	Sta	itus:	Allegation			
General Info Requireme	ents Related Pa	rties	Related Places Linked Enfor	cement Actions Docu	ments Addn. Info Attachment	8	
General Info Requireme Mult=Y allows multiple val Mult=N allows multiple val Save Show Inact	ues with overlap ues with no over	oing effe	active dates.	cement Actions Dock	rnents Addn. Info Attachment	8	
Mult=Y allows multiple val Mult=N allows multiple val	ues with overlap ues with no over	oing effe lapping	active dates.	Unit Of Measure	Start Date (mm/dd/yyyy)*	S End Date (mm/dd/yyyy)	
Mult=Y allows multiple val Mult=N allows multiple val Save Show Inact	ues with overlap ues with no over	oing effe lapping	effective dates.				add another
Mult=Y allows multiple val Mult=N allows multiple val Save Show Inact Attribute	ues with overlap ues with no over ive Mult	bing effe lapping Type	effective dates. effective dates. Value*		Start Date (mm/dd/yyyy)*	End Date (mm/dd/yyyy)	add another add another
Mult=Y allows multiple val Mult=N allows multiple va Seve Show Inact Attribute Not MMP Reason	ues with overlap ues with no over ive Mult N	oing effe lapping Type text	effective dates. effective dates. Value*		Start Date (mm/dd/yyyy) '	End Date (mm/dd/yyyy)	

Figure 9.24 Additional Information Tab

When the Additional Information tab is viewed, the default is for only the active attributes to be displayed (relationships with a start date with today's date or earlier and an end date later than today's date). If you wish to see the inactive attributes instead, select the box next to the "Save" button at the top of the tab with the label "Show Inactive".

LP

Contact the CIWQS Administrator if you wish to have an additional Violation attribute added to the Additional Information tab.

All attributes allow multiple values to be entered by clicking the "add another" hyperlink at the end of the row. Only Attributes with a value of "Y" in the *Mult* field allow entries with overlapping start and end dates.

The fields of the Attribute table are described in Table 9.5.

Field Name	Description
Attribute	Displays an attribute that can be recorded for the Regulatory Measure. Required attributes are prefixed with an asterisk (*). This indicates that you are required to enter values for the <i>Value</i> and <i>Start Date</i> fields.
Value	Enter or select the value associated with the attribute. Depending on the attribute, this field may be displayed as a text field or as a drop-down menu. If the field is a text field, no data validation takes place.
Start Date	Enter the date the attribute was first used/was first true about the Regulatory Measure/was first measured/was fist reported/etc.
End Date	Enter the date the attribute was last used/was last true about the Facility/etc.

Table 9.5 Attribute Table Fields



When you have entered or updated new information in the Additional Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

9.2.8 Attachments Tab

The Attachments tab allows you to attach any file (e.g., word processing, graphics, photo, spreadsheet, etc.) relevant to the Violation (Figure 9.25).

When attachments are associated with a Violation, a list shows up at the bottom of the page, providing details on each attachment.

Water Boards CIWQ	S	Үоц а	re logged-in	Navigate as: tetratect		does not belo	Menu Help Log out v ng to you, please log out.
Violation ID:	134900		P	Program:	SUB	15	
Water Board:	Region 2 - San Fi	rancisco Bay	s	taff Assign	ed: Rico	Duazo	
Facility:	PINOLE POINT S	TEEL	s	itatus:	Viola	tion	
Order #:	86-040						
General Info Requ	irements Relate	d Parties Relati	ed Places L	inked Enfor	cement Actions	Documents	Addn. Info Attachments
To add a document Note: the upload pro internet connection or "Submit" buttons	ocess may take a and the size of th	few minutes de le file. Do not att					
File	*	File	e Descriptior	n			
	Browse				Upload F	ile	
File Name	File Description	Date/Time Uplo	aded Statu	IS			
D6aChapter 10.doc		10/04/2005 - 11	:55:00 OK	<u>delete</u>			

Figure 9.25 Attachments Tab

To upload a new file, select the "Browse" button. A new page opens where you can select the file you want to upload (Figure 9.26).

Choose file					? ×
Look jn:	My Document	8	•	🗢 🗈 💣 🎟•	
History Desktop My Documents My Computer	Corel User Files Email My Music My Pictures My Shapes Projects	;			
	File <u>n</u> ame:			•	<u>O</u> pen
My Network P	Files of <u>type</u> :	All Files (*.*)		•	Cancel

Figure 9.26 Browsing for an Attachment

Once you have located the appropriate file, select the file and click the "Open" button. The Choose File window closes, and the name and file path of the selected file appears in the text field next to the "Browse" button.

Enter a description of the file in the *File Description* field. Click the "Upload File" button. The new Attachment will show up in the table at the bottom of the Attachment page (as in Figure 9.24)



Upon retrieval, the list of files will be sorted by file name. A particular file name can only be used once per record.

Attachments can be removed by clicking the "delete" hyperlink at the end of each row in the List of Attachments. Attachments can be viewed by clicking the file name hyperlink.

The *Status* field shows the value "OK" if the file passed the CIWQS virus scanner. The field reads "Unavailable" if the file does not pass.



When you enter new information on the Attachments tab, changes will be saved automatically.

10 Inspections Module

This chapter addresses the following topics:

- An introduction to the Inspections Module
- Searching for an existing Inspection
- Creating a new Inspection

10.1 Introduction to the Inspections Module

The *Create/Maintain Inspections* Module allows you to search for performed Inspections and to create new planned Inspections. Inspections are activities that are typically performed as the result of a Requirement, such as a Regulatory Measure (Order), as required by EPA, or as part of a State or Regional Water Quality Board Activity.

There are two types of Inspections: scheduled and performed. Inspections can also be scheduled from within the *Regulatory Measures* Module.



See Chapter 5 for more information on Regulatory Measures.

The *Create/Maintain Inspections* Module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

10.1.1 Searching for an Inspection

Selecting the *Create/Maintain Inspections* Module will bring you to the *Inspections Search* page (Figure 10.1) where you can create a new Inspection or search for an existing Inspection.

To search for an existing Inspection, input criteria into the search fields and click the "Search" button. Click the "Create an Unplanned Performed Inspection" button to open the Inspection Editor and create a new record.

	Menu Help Log out
Water Boards CIWQS	Navigate to:
	You are logged-in as: tetratech. If this account does not belong to you, please log out.
Inspections Search	
Enter search criteria and click 'Sea	
	N C N .
Inspection ID:	
Place:	Clear Place Select Place
Status:	Any
Status Date:	
Water Board:	Any
	Auty
Program:	Any 💌
Staff Assigned:	Any 🔽 🗌 Inpections Without Assigned Staff
Scheduled between	
Scheduled between	and Planned without dates
Occured between	and
Unscheduled, but have occure	d
Scheduled, but have not occur	
	Juplanned Performed Inspection
	Siplamed Fenomed inspection

Figure 10.1 Inspection Search Page

Table 10.1 describes the search criteria fields and how they can be used to search for related Inspections.

Place

To search for Inspections related to a particular Place, click the "Select Place" button. This opens the Place Search page, where you can search for the appropriate Place using the search criteria fields.



See Chapter 3 for more information on searching for Places.

When you have found the Place related to the Inspection you wish to find, click the "Select" hyperlink at the end of the corresponding row in the Place search results table. This returns you to the Inspection Search page with the name of the Place displayed in the Place field. Click the "Clear Place" button to remove the selected Place from the search criteria.

Using the CIWQS Search Engine

The CIWQS Inspection search engine is based on an AND search. This means that it will look for places that match ALL of your search criteria. For example, you can select Water Board "1" from the drop-down menu and enter "5/11/2001" and "6/1/2001" in the *Scheduled between* fields and the system will search for all Inspection records that satisfy both criteria. This search will not produce the record for Water Board "3" or an Inspection scheduled between "4/21/1999" and "5/11/2001" since neither record satisfies both search requirements.

Table 10.1 Inspection Search Fields

Field Name	Description
Inspection ID	Input the ID number for the Inspection.
Place Name	Displays the name of the selected Place when one is selected by clicking the "Select Place" button (see below).
Status	Select the status of the Inspection (e.g., Scheduled, Performed, Cancelled).
Status Date	Locates Inspections with a particular Status and status date when used in combination with Status. If a status date is specified, historic statuses can be searched. Without a date, the Status must be the current one.
Water Board	Locates inspections related to facilities regulated by the selected Water Board (including State). If the selected Water Board has sub-regions, a sub-region can be selected.
Program	Used to limit the Inspection to those in a specific program.
Staff Assigned	Select the name of the staff member assigned to the Inspection (not the staff member assigned to a related task).
Inspections without Assigned Staff	Selecting this checkbox retrieves only those Inspections without any Parties as assigned (or equivalent). The <i>Staff Assigned</i> drop-down menu is cleared if this box is selected.
Scheduled between	These fields are used to locate Inspections that have planned dates with the start date and end date between (inclusive) the dates entered here. Both the start and end dates of the planned Inspection must be within the date range set.
Occurred between	These fields are used to locate Inspections that have actual dates with the start date and end date between (inclusive) the dates entered here. Both the start and end dates of the Inspection must be within the date range set.
Planned without dates	This checkbox is used to locate Inspections that have records without any planned or actual dates. Selecting this checkbox clears the <i>Scheduled between</i> and <i>Occurred</i> <i>between</i> fields.
Unscheduled, but have occurred	This field is used to clear the <i>Scheduled Between</i> fields and to locate Inspections that have no planned dates, but do have actual dates.
Scheduled, but have not occurred	This field is used to clear the <i>Occurred Between</i> fields and to locate inspections that have no actual dates, but do have planned dates.

To search for an Inspection related to a particular Place, click the "Select Place" button. This opens the *Place Search* page, where you can search for the appropriate Place using the search criteria fields.

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See Chapter 3 for more information on searching for Places.

When you have found the Place related to the Inspection you wish to find, click the "select" hyperlink at the end of the corresponding row in the Place Search results table. This returns you to the *Inspection Search* page with the name of the Place displayed in the Place field (as in Figure 10.2). Click the "Clear Place" button to remove the selected Place from the search criteria.

Enter the appropriate search criteria and click the "Search" button. A table will appear below the search box showing the first 100 Inspection records that matched ALL of the search terms you entered (Figure 10.2).

Witer Frank CIWQS	You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Enter search criteria and click 'Search'.								
Inspection ID:								
Place: Acton Rehabilitation Center	Clear Place	Selec	t Place					
Status:	Any	~						
Status Date:								
Water Board:	Any		*					
Program:	Any			~				
Staff Assigned:	Any		~	Inpections	s Without As:	signed Staff		
Scheduled between		💷 and 📃		Planne	d without dat	es		
Occured between		💷 and 📃						
Unscheduled, but have occured								
Scheduled, but have not occured			_					
New Search Create an Unp	lanned Performed Ins	pection						
Search Results:					•		•	1-1 of 1 💌
Inspection Place Inspect ID Type		Planned Start Date	Planned End Date	Actual Start Date	Actual End Date		Inspection Performed?	Status
274695 Acton Rehabilitation B Type Center inspec	compliance tion	06/24/1997	06/24/1997	06/24/1997	06/24/1997	Magdy Baiady	Yes	Performed Adequately

Figure 10.2 Results of a Violation Search

Table 10.2 details the information that is displayed in the Results table.

If the Inspection record you were searching for appears in the Results table, you can access its record by clicking the Inspection Type hyperlink. If the Inspection of interest does not appear, click the "New Search" button to reactivate and clear the search criteria fields.



If you have trouble finding an existing Inspection, try using fewer search criteria. This will broaden your search.

Field Name	Description				
Inspection ID	Shows the Inspection ID				
Place	Shows the name of the Place for the Inspection.				
Inspection Type	Shows the Inspection type. Clicking on the Inspection				
inspection Type	Type opens the Inspection for viewing/editing.				
Planned Start Date	Shows the planned/suggested start date (if any).				
Planned End Date	Shows the planned/suggested end date (if any).				
Actual Start Date	Shows the actual start date (if any).				
Actual End Date	Shows the actual end date (if any).				
Staff Assigned	Indicates the staff member currently assigned to the				
Stall Assigned	Inspection.				
Inspection	Indicates whether the Inspection has been performed.				
Performed?	multates whether the inspection has been performed.				
Status	Shows the status of the Inspection.				

Table 10.2 Results Table

10.2 The Inspections Editor

The Inspections Editor allows you to either enter data for a new Inspection or to modify the record for an existing Inspection. This page can be accessed by clicking the "Create an Unplanned Performed Inspection" button on the *Inspection Search* page or by clicking the hyperlink in the Inspection Type field in the results table when searching for an existing Inspection.

There are six tabs in the Inspection Editor, and each tab captures related sets of information about an Inspection.

- Inspection Entry
- Related Parties Tab
- Alleged Inspection Violations
- Documents Tab
- Additional Information Tab
- Attachments Tab

While individual tabs show different information, each has a common page header. The header shows the Inspection ID, status, Inspection type, staff assignment, and Facility for reference.

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As information is saved within the Inspection Editor, the header information automatically refreshes to display updated information.

10.2.1 Inspection Entry Tab

The Inspection Entry tab is the first page you see when you open a record for an existing Inspection or create a new Inspection record. The Inspection Entry tab captures basic information about the Inspection including the Inspection location (i.e., Place), Inspection type, status and dates of Inspection, linked Regulatory Measures, and other Inspections related to the Facility (Figure 10.3).

					Menul Help	Logout
Cater Texards	We result Vou are logged-in as: tetratech. If this account does not belong to				g to you, pleas	e log out
nspection	a contraction of the second					
nspection ID: 274695						
Status: Performed Adequ	Jately	Inspection Typ	e: B Type compliance	inspection		
Staff Assigned: BAIADY			Rehabilitation Center			
Inspection Entry Relate	d Parties Alleg	ed Inspection Violation	Documents Add	n. Info Attachments		
Save Select Plac	8					
Place: *	30500 Arra ACTON, CA Water Boar		19.18528 dec deg)			
Inspection Type: *	B Type con	npliance inspection	~			
Status: *			Party .			
	Laurence constance	Adequately	Status Date	:* 06/20/2005	View Stat	us History
Inspection Dates (Planne	edi: 06/24/1997	10 06/24/199	17 Workp	lan commitment date		
Inspection Dates (Actual	lk: 06/24/1997	to 06/24/199	7 View	Date History		
nspection Result:	ry Measure	~				
		Regulatory h	deasure .			Unlink
Link a Regulator	5-103		deasure			Unlink
Link a Regulator	5-103		deasure			<u>Unlink</u> Unlink
Link a Regulator	5-103		Aeasure			
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ	5-103	ND AQUARIUMS	deasure Type	Dat		
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place	5-103 UACULTURE AI	ND AQUARIUMS	Туре	Dat 05/24/1997 - 06/24/	e	
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place	5-103 UACULTURE AI	ND AQUARIUMS	Type nspection		e	Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e	Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AG Link an Inspection	5-103 UACULTURE AI	ND AQUARIUMS	Type nspection		e	Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place Acton Rehabilitation Cen	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e 1997	Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place Acton Rehabilitation Cen	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e 1997	Unlink Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place Acton Rehabilitation Cen	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e 1997	Unlink Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place Acton Rehabilitation Cen NPDES Non Point Source General Notes	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e 1997	Unlink Unlink
Link a Regulator SWIM Order Number - 95 DISCHARGES FROM AQ Link an Inspection Place Actor Rehabilitation Cen NPDES Non Point Source General Notes	5-103 UACULTURE AI	ND AQUARIUMS B Type compliance i Program	Type nspection		e 1997	Unlink Unlink

Figure 10.3 Inspection Entry Tab

When you are creating a new Inspection, the Inspection Entry tab will be the only tab available for data entry until all required fields are filled in and the record has been saved. Saving the record for the first time activates the remaining tabs.



The Place, Inspection Type, Status and Status Date fields are all required before an Inspection record can be saved.

Required Fields

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

Inspection Location

The first piece of information required to save a new Inspection is the Inspection Location (i.e., Place).

Click the "Select Place" button to launch the *Place Search* page. Enter the appropriate search criteria and click the "Search" button.

When you have found the Place you wish to link to the Inspection, click the "Select" hyperlink at the end of the corresponding row in the results table. This returns you to the Inspection Entry tab with the Place information displayed as read-only text in the *Place* field (Figure 10.4).

Place: *	Acton Rehabilitation Center
	30500 Arrastre Canyon ACTON, CA 93510-
	Water Board: 4
	Lat: (34.43806 dec deg.), Long: (-119.18528 dec deg.)

Figure 10.4 Inspection Location

The Place field displays information about the Facility including:

- Facility Name
- Physical Address
- Latitude/Longitude
- Associated Regional Water Board responsible for regulating the Place

Click the "Select Place" button again to change the Inspection location.

Inspection Type, Status, and Dates

The Inspection type, status, and dates are the next pieces of information to be captured for the Inspection (Figure 10.5).

Inspection Type: *	B Type compliance inspection	~
Status: *	Performed Adequately	Status Date: * 06/20/2005 View Status History

Figure 10.5 Inspection Type, Status, and Dates

Select the appropriate Inspection type from the drop-down menu. Select the status of the Inspection from the *Status* drop-down menu (e.g., active, cancelled, scheduled, performed successfully) and enter the date that the status became (becomes) effective in the *Status Date* field.

Optionally, you may enter the date of a planned Inspection (Figure 10.6). If no dates are entered into the *Inspection Dates (Planned)* fields, the Inspection is assumed to be unplanned. Selecting the *Workplan Commitment Date* box indicates that the planned Inspection has been committed via a Workplan.

Inspection Dates (Planned):	06/24/1997	to	06/24/1997	🗹 Workplan commitment date
Inspection Dates (Actual):	06/24/1997	to	06/24/1997	View Date History

Figure 10.6 Inspection Date Fields

Enter the appropriate dates in the *Inspection Dates (Actual)* fields once an Inspection has been performed.

Once the status and status date information has been recorded, click the "Save" button to save the Inspection. You will now have access to the remaining tabs of the Inspection Editor and the "View Status History" and "View Date History" buttons will be activated.

View Status History

Each time a record is saved with a new Status, the CIWQS system saves the previous Status and Status Date. Click the "View Status History" button to open a new window that displays a history of changes made to the status of the Inspection (Figure 10.7).

<u>Close Window</u> Status History	
Old Status	Effective Date
Performed Adequately	05/16/2005
scheduled	05/20/2005

Figure 10.7 Status History

See Chapter 1 for more information about pop-ups in CIWQS.

View Date History

If either the Planned or Actual Inspection Dates are changed, a Date History will be created. Click the "View Date History" button to launch a new window to show the Start and End Dates of both proposed Inspections and Inspections that have already occurred (Figure 10.8).

Close Window		
Date History		
Date	Start/Finish	A(Actual)/P(Planned)
05/16/2000	Start	A

Figure 10.8 Date History

Inspection Outcome

To enter the outcome of the Inspection, select an Inspection result from the drop-down menu (Figure 10.9). Results categories include Additional Data Required, Follow-up Inspection Needed, No Further Action, and Violation.

Inspection Result:	4	

Figure 10.9 Inspection Results Rating

Link to Regulatory Measure, Inspection, and Program

An Inspection may also be associated with a Regulatory Measure (e.g., Order), with another Inspection or with a Program.

To link a Regulatory Measure to the Inspection, click the "Link a Regulatory Measure" button. This launches the *Regulatory Measure Search* page. Enter the appropriate search criteria and click the "Search" button.



See Chapter 5 for more information on the *Regulatory Measure* Search page.

When you have found the Regulatory Measure you wish to link, click the "Select" hyperlink in the appropriate row. This links the Regulatory

Measure and returns you to the *Inspection Entry* page where the Regulatory Measure will be displayed (Figure 10.10).

Link a Regulatory Measure				
Regulatory Measure				
SWIM Order Number - 95-103 Unlink				
DISCHARGES FROM AQUACULTURE AND AQUARIUMS Unlink				

Figure 10.10 Linking to Regulatory Measures and Inspections

Click the "Save" button to save the new link. Click the "Unlink" hyperlink to disassociate the Regulatory Measure from the Inspection.

To link an Inspection to the current record, click the "Link an Inspection" button. This launches the *Inspection Search* page (see section 10.1.1 above). Enter the appropriate search criteria and click the "Search" button. Click the "Select" hyperlink to associate the Inspection with the current record and return to the Inspection Entry page. The linked inspection will be displayed in the table (Figure 10.11).

Link an Inspection			
Place	Туре	Date	
Acton Rehabilitation Center	B Type compliance inspection	06/24/1997 - 06/24/1997	<u>Unlink</u>

Figure 10.11 Linking an Inspection to the Current Record

Once an Inspection has been linked to the current Inspection, you will be able to view the Location (i.e., Place), Type, and Date of that linked Inspection in a table.

Click the "Save" button to save the new link. Click the "Unlink" hyperlink to disassociate the Inspection from the current record.

You can also designate a Program under which the current Inspection is being performed. Select the appropriate Program from the drop-down menu and click the "Save" button. The Program you selected will be displayed in the table (Figure 10.12).

Program					
NPDES	<u>Unlink</u>				
Non Point Source	<u>Unlink</u>				

Figure 10.12 Related Programs Table

Click the "Unlink" hyperlink to disassociate the Program from the current record.

STOP

General Notes and Summary

You can enter general notes and a summary for an Inspection into the two text fields at the bottom of the Inspection Entry tab (Figure 10.13). The *General Notes* field captures any general information regarding the Inspection that is not captured elsewhere. Use the *Summary* field to enter a summary of the Inspection.

General Notes	
Summary	NO VIOLATIONS.

Figure 10.13 General Notes and Summary Fields

When you have entered or updated new information in the Inspections Entry tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

10.2.2 Related Parties Tab

The Related Parties tab displays information on the People who participated in the Inspection (Figure 10.14). Examples of Related Parties include Facility representatives, witnesses/observers, and EPA representatives.

Ware Reams CIWQS Navigate to: Vou are logged-in as: tetratech. If this account does not belong to you, please log out.							
Inspection							
Inspection ID: 274695							
Status: Performed Adequately Inspection Type: B Type compliance inspection							
Staff Assigned: BAIAD	Y	Facility: Actor	Rehabilitation Center				
Inspection Entry Rela	ted Parties Alleg	ed Inspection Violation	ns Documents Addn. Info Attachments				
Save Link a Pa	ty						
Contacted? Attended	Name	Role*	Organization	Notes	Start Date*	End Date	
	MAGDY BAIADY	Inspector 💌	Los Angeles Regional Water Quality Control Board	< >	06/20/2005		<u>Unlink</u>

Figure 10.14 Related Parties Tab

To link a Party to the Inspection, click the "Link a Party" button. This launches the Party Search page with the *Party Type* field set to "Person". Enter relevant criteria and click the "Search" button.

Each Party must be pre-defined in the *Create/Maintain Parties* Module before it can be linked to an Inspection.

Click the "Cancel" button at any time to return to the Related Parties tab without linking a Person to the Inspection.

When you have found the Person you wish to link, click the "Select" hyperlink at the end of the corresponding row. This will create a new row in the Related Parties Tab.

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See Chapter 4 for more information on the Party Search page.

The table of Related Parties linked to an Inspection provides information about the Inspection. If a Party was contacted prior to the Inspection, select the *Contacted* checkbox. Select the *Attended* checkbox if the Party attended the Inspection. Some Parties may have participated in the Inspection but did not actually attend.

Select the appropriate role (e.g., facility contact, project manager, permit writer, investigating) that the Party played in the Inspection from the *Role* drop-down menu. The Organization column displays the parent Organization for the selected Party. If there is no specific parent Organization or if there are multiple parent Organizations, none will be displayed in this field. This field is read-only.

The start date indicates when a Person became associated with the Inspection, and the end date indicates when a Person was no longer involved with the Inspection.

If you have any additional information about a Party or its role in the Inspection, enter text into the *Notes* field. For example, if the Party was interviewed, you can enter a summary of the interview here.

STOP

When you have entered or updated new information on the Related Parties tab, be sure to click the "Save" button at the top of the tab. Your data will be lost if you do not save the new information.

10.2.3 Alleged Inspection Violations Tab

The Alleged Inspection Violations tab allows you to link potential Violations discovered during the Inspection to the current record (Figure 10.15). This page is read-only. No changes can be made to a Violation from the Alleged Inspection Violations tab. To link a Violation to an Inspection, click the "Link a Violation" button. This launches the *Violation Search* page. Enter relevant information in the search criteria fields and click the "Search" button. Once you have located the appropriate Violation you can link it to the Inspection by clicking the "Link" hyperlink in the appropriate row.

	Avigate to: Vou are logged-in as: tetratech. If this account does not belong to you, please log out.						
Inspection							
Inspection ID: 2748	395						
Status: Performed	Adequately	Inspection Type	: B Type compli	ance inspection			
Staff Assigned: BA	IADY	Facility: Acton F	Rehabilitation Ce	nter			
Inspection Entry F	Related Parties Alleged Insp	ection Violations	Documents /	Addn. Info Attachments			
Save Link a	Violation						
Violation ID	Violation Type	Program	Status	Discovery Date	Linked Enforcement Action/Order		
134900	Deficient Report	SUB15	Violation	09/06/1999	227522	<u>unlink</u>	

Figure 10.15 Alleged Inspection Violations Tab

Each Violation must be pre-defined in the *Create/Maintain Violations* Module before it can be linked to an Inspection. See Chapter 9 for more information.

Once a Violation has been linked to a Facility, the Alleged Inspection Violations tab displays information about the type of Violation, the related Program, and the Linked Enforcement Action/Order.

Click the Violation ID hyperlink to open the Violation record in the Violation Editor. Click the Linked Enforcement Action/Order hyperlinks to open the Regulatory Measure Editor.

Click the "Unlink" hyperlink to disassociate the Violation from the Inspection without deleting the record for that Violation.



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When you have updated new information on the Alleged Inspection Violations tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

10.2.4 Documents Tab

The Documents tab allows you to identify external documents (in hard copy format) that are related to an Inspection (Figure 10.16). For example, files located in your office may be related to an Inspection but are unavailable as electronic documents. This tab provides a way to indicate available, related Documents that cannot be uploaded using the Attachments tab.

	Menu Help Log out Navigate to: Image: Comparison of the log out You are logged-in as: tetratech. If this account does not belong to you, please log out.						
Inspection							
Inspection ID: 274695							
Status: Performed Adequately	Inspection Type: B Type com	pliance inspection					
Staff Assigned: BAIADY	Facility: Acton Rehabilitation (Center					
Inspection Entry Related Parti	es Alleged Inspection Violations Documents	Addn. Info Attachments					
Add a Document							
Document Number	Document Name/Description	Document Location	Status	Status Date			
1234	Inspection Report	23-B6-A	Awaiting approval	10/03/2005	delete		

Figure 10.16 Documents Tab

Documents that have already been linked to the Regulatory Measure are listed in the table at the bottom of the page.

To associate a document with an Inspection, click the "Add a Document" button. This launches a page where you can fill in fields required to create a new record for a linked document (Figure 10.17). Table 10.3 provides a description of each field on the *Add Document* page.

Water Boards CIWQS	CIWQS Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Inspection								
Inspection ID: 274695								
Status: Performed Adequately	Inspection Type: B Type compliance inspection							
Staff Assigned: BAIADY	Facility: Acton Rehabilitation Center							
Inspection Entry Related Parties	Alleged Inspection Violations Documents Addn. Info Attachments							
Save Cancel								
Document Number: *								
Document Name/Description: *								
Document Location: *								
Status: *								

Figure 10.17 Add Document Page

Table 10.3 Add Document Fields

Field	Description	
Document Number	Enter a reference number for the Document. As a free- entry field, any numbering system can be used. Typically, this would be the file number.	
Document Name/ Description	Provide a description of the Document or the Document title.	
Document Location	Enter where the Document is located.	
Status	Indicate the Status of the Document (e.g., under review, approved).	

Click the "Save" button to save the information and return to the Documents tab. The added document will be displayed in the table. Click the document number or document name/description hyperlinks to open the Add Document page and edit the document record.

Click the "delete" hyperlink to delete the document record from the table.



When you have entered or updated new information on the *Add Document* page, be sure to click the "Save" button at the top of the tab to avoid loss of data.

10.2.5 Additional Information Tab

The Additional Information tab is designed to capture any relevant information that the other tabs do not address. Additional information is recorded by documenting various attributes that apply to a particular Inspection type.

As this page is used in several of the CIWQS Modules, it has been formatted to accept a wide range of data and information (Figure 10.18). The attributes that can be specified for a given Inspection will be listed in the attribute table.

Water Bostrik CIWQS	WQS Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Inspection								
Inspection ID: 274695								
Status: Performed Adequately			Inspection Type: B Ty	pe compliance ii	inspection			
Staff Assigned: BAIADY			Facility: Acton Rehabi	litation Center				
Inspection Entry Related Parties	Allege	d Insp	ection Violations Doc	uments Addn.	Info Attachments			
Mult=Y allows multiple values with ov Mult=N allows multiple values with n								
Save Show Inactive								
Attribute	Mult	Туре	Value*	Unit Of Measur	re Start Date (mm/dd/yyyy)* End Date (mm/dd/yyyy)			
Inspection Rating	N	text	*		add another			
* - Indicates required.					· · · ·			

Figure 10.18 Additional Information Tab

When the Additional Information tab is viewed, the default is for only the active attributes to be displayed (relationships with a Start Date with today's date or earlier and an End Date later than today's date). If you wish to see the inactive attributes instead, select the box next to the "Save" button at the top of the tab with the label "Show Inactive".

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Contact the CIWQS Administrator if you wish to have an additional Inspection attribute added to the Additional Information tab.

All attributes allow multiple values to be entered by clicking the "add another" hyperlink at the end of the row. Only Attributes with a value of "Y" in the *Mult* field allow entries with overlapping start and end dates.

The editable fields of the Attribute Table are described in Table 9.5.

Field Name	Description
	Displays an attribute that can be recorded for the
Attribute	Regulatory Measure. Required attributes are prefixed
Attribute	with an asterisk (*). This indicates that you are required
	to enter values for the <i>Value</i> and <i>Start Date</i> fields.
	Enter or select the value associated with the attribute.
Value	Depending on the attribute, this field may be displayed as
value	a text field or as a drop-down menu. If the field is a text
	field, no data validation takes place.
	Enter the date the attribute was first used/was first true
Start Date	about the Regulatory Measure/was first measured/was
	fist reported/etc.
End Date	Enter the date the attribute was last used/was last true
Lifu Date	about the Facility/etc.



When you have entered or updated new information in the Additional Information tab, be sure to click the "Save" button at the top of the tab to avoid loss of data.

10.2.6 Attachments Tab

The Attachments tab allows you to attach any relevant file (e.g., word processing, graphics, photo, spreadsheet, etc.) to the Inspection (Figure 10.19). When attachments are associated with an Inspection, a list shows up at the bottom of the page, providing details on each attachment.

To upload a new file, select the "Browse" button. A the Choose File window opens and you can select the file you want to upload (Figure 10.20).

Once you have located the appropriate file, select the file and click the "Open" button. The Choose File window closes, and the name and file path of the selected file appears in the text field next to the "Browse" button. Enter a description of the file in the *File Description* field. Click the "Upload File" button. The new Attachment will show up in the table at the bottom of the Attachment page (as in Figure 10.19).

Water Boards CIWQS		You are logg	Navigate ed-in as:tetratech		<u>Menu Help Loc</u> unt does not belong to you, please log
nspection					
nspection ID: 274695					
Status: Performed Adequatel	у	Inspection Ty	pe: B Type comp	oliance inspe	ection
Staff Assigned: BAIADY		Facility: Actor	n Rehabilitation C	>enter	
Inspection Entry Related Pa	arties Alle	aed Inspection Violatio	ns Documents	Addn. Info	Attachments
To add a document select th Note: the upload process mainternet connection and the	ay take a f size of the	ew minutes depending e file. Do not attempt to			
Note: the upload process ma	ay take a f size of the	ew minutes depending e file. Do not attempt to	click the "Refre		
Note: the upload process m internet connection and the or "Submit" buttons during t 	ay take a f size of the	ew minutes depending file. Do not attempt to process.	click the "Refre		id File
Note: the upload process m internet connection and the or "Submit" buttons during t 	ay take a f size of the the upload	ew minutes depending file. Do not attempt to process. File Descr	click the "Refre	sh"	id File

Figure 10.19 Attachments Tab

Choose file					? ×
Look jn:	Ay Documents		•	🗢 🗈 💣 🎫	
History Desktop My Documents My Computer	Corel User Files Email My Music My Pictures My Shapes Projects				
	File <u>n</u> ame:			•	<u>O</u> pen
My Network P	Files of <u>type</u> :	All Files (*.*)		•	Cancel

Figure 10.20 Browsing for an Attachment



Upon retrieval, the list of files will be sorted by file name. A particular file name can only be used once per record.

Attachments can be removed by clicking the "Delete" hyperlink at the end of each row in the List of Attachments. Attachments can be viewed by clicking the file name hyperlink.

The *Status* field shows the value "OK" if the file passed the CIWQS virus scanner. The field reads "Unavailable" if the file does not pass.



When you have entered new information on the Attachments tab, changes will be saved automatically.

11 Invoices Module

This chapter addresses the following topics:

- An introduction to the Invoices Module
- Searching an existing Invoice
- Creating a new Invoice

11.1 Introduction to the Invoices Module

The *Create/Maintain Invoices* Module tracks the preparation of Invoices, such as those for liabilities in Enforcement actions. This Module can be accessed through the CIWQS Main Menu or by using the Navigation drop-down menu found at the top of each page.

11.2 Searching for an Invoice

Selecting the "Create/Maintain Invoices" hyperlink from the CIWQS Main Menu brings you to the *Invoice Search* page (Figure 11.1) where you can create a new Invoice, search for an existing Invoice, or record payments for issued Invoices.

Water Buards CIWQS	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.
Invoice Search	
Record Payments]
Enter search criteria and cli	ck 'Search'.
Invoice ID:	
Invoice Type:	Any 🔽
Invoice Date:	
Invoice Due Date:	
Party:	
Included in Enforcement Action ID:	
Search Create Ner	w Invoice

Figure 11.1 Invoice Search Page

Table 11.1 describes the search fields on the *Invoice Search* page.

Field Name	Description
Invoice ID	Used to search for a specific Invoice ID.
Invoice Type	Select an Invoice type from the drop-down
mvoice Type	menu (e.g., liability).
	Enter the date an Invoice was created.
Invoice Date	Alternatively, click on the calendar icon (
	to open a calendar window to select a date.
	Enter the date the Invoice is due.
Invoice Due Date	Alternatively, click on the calendar icon (
	to open a calendar window to select a date.
Party	Enter the name of the Billing Party for the
Tarty	Invoice.
Included in Enforcement	Enter the system ID number of the related
Action ID	Enforcement Action.

To search for an existing Invoice, input criteria into the search fields and click the "Search" button. Click the "Create New Invoice" button to create a new record for an Invoice.

Using the CIWQS Search Engine

The CIWQS Invoice search engine is based on an AND search. This means that it will look for places that match ALL of your search criteria. For example, you can enter "Acme" in the Party field and "Liability" in the Invoice Type field and the system will search for all Invoices for Parties with "Acme" in their name. It will not find Liability Inspections for other Parties or Invoices of other types for "Acme" Parties.

Enter the appropriate search criteria and click the "Search" button. A table appears below the search box showing the first 100 Invoice records that matched ALL of the search terms you entered (Figure 11.2). Table 11.2 details what information will be displayed in the Results table.

If the Invoice record you were searching for appears in the Results table, you can access its record by clicking the Invoice Type hyperlink. If the Invoice of interest does not appear, click the "New Search" button to refresh the page and clear the search criteria fields.

Water Buards CIWQS	Menu Help Log out Navigate to:
Invoice Search	
Record Payments	
Enter search criteria and click 'Search'.	
Invoice ID: 1234	
Invoice Type: Any 🗸	
Invoice Date:	
Invoice Due Date:	
Party:	
Included in Enforcement	
New Search Create New Invoice	
Results:	Previous 1-1 of 1 V Next
Invoice ID Invoice Type Invoice Date Invoice Due Date	Party
1234 Liability 06/04/2003 07/04/2003	NORCAL WASTE SYSTEMS HAY RD LF

Figure 11.2 Results of an Invoice Search

Table 11.2 Results Table

Field Name	Description
Invoice ID	Displays the Invoice ID. Clicking the hyperlink opens
Invoice ID	the Invoice details.
Invoice Type	Displays the Invoice type.
Invoice Date	Displays the Invoice date.
Invoice Due Date	Shows the Invoice due date.
Donty	Shows the Party responsible for payment of the
Party	Invoice.



If you have trouble finding an existing Invoice, try using fewer search criteria. This will broaden your search.

11.3 The Invoice Entry Page

The *Invoice Entry* page allows you to either enter data for a new Invoice or to modify the record for an existing Invoice. This page can be accessed by clicking the "Create New Invoice" button on the *Invoice Search* page or by searching for an existing Invoice and clicking the Invoice ID hyperlink in the results table.

The *Invoice Entry* page captures basic information about an Invoice including the Invoice Type, Inspection Type, Date of Invoice, and Due

Date, Linked Assessments, Payments, and Billing Information (Figure 11.3).

When you create a new Invoice, the CIWQS system automatically generates an Invoice ID.

Water Boards CIWQS	You are logged-in as: demo. If this account does not belong to you, please log out.						
Invoice Entry							
Save Cancel Re	view Payments	Issue In	voice				
Invoice ID:	12	34					
Invoice Type: *	L	iability 🔽					
Invoice Date: *	00	6/04/2003					
Invoice Due Date: *	Invoice Due Date: * 07						
Assessments Included in th	e Invoice						
Link Assessments							
Milestone Name	Liability	Туре	Total Assessed Amount	Paid Amount	Total Outstanding Amount	Spent Amount	
Pay liability and sign waiver	Enforcement Project	Milestone	\$119000.0	\$0.0	\$119000.0	\$0.0	unlink
		Totals:	\$119000.0	\$0.0	\$119000.0	\$0.0	
Billing Information							
Billing Party: *	NORCAL WASTE	E SYSTEMS	HAY RD LF Select a	Party			
Billing Address: *	6426 HAY RD VACAVILLE, CA 95604 United States of America (Billing Address) Select Address						

Figure 11.3 Invoice Entry Page

A new record cannot be saved until all required fields have been filled out. The Invoice type, date, due date, billing Party, and billing address are required before an Invoice record can be saved.

Required Fields

L&P

Required fields within CIWQS are indicated by a red asterisk (*). If you do not fill in a required field, an error message will be displayed when you try to save the record.

In some instances, however, indicated fields are only required if you enter data into one field out of a group of several. For example, entering data into the *Street Direction* field on the General Information tab will require you to then fill out information for the indicated Address fields. These fields are not required if you refrain from entering data into any of the fields.

11.3.1 Invoice Type and Dates

The first piece of information required for a new Invoice is the Invoice type. Select the appropriate Invoice type from the drop-down menu. Next, select the date of the Invoice and the date that the Invoice is due. e

The (^[]]]) symbol next to each date field will open a calendar from which you can select a date that will automatically be entered into the field.

Billing Information

Once the Invoice type and dates have been established, you must enter the appropriate billing information. This involves selecting the Party that will be billed and a billing address for that Party.

Click the "Select A Party" button to launch the *Party Search* page. The Party type field will be set to "Organization". Enter the appropriate search criteria and click the "Search" button.

Click the "Cancel" button at any time to return to the *Invoice Entry* page without linking an Organization to the Invoice.

See Chapter 4 for more information on searching for Parties.

When you have found the Party to be billed for the Invoice, click the "Select" hyperlink to link the Organization and return to the *Invoice Entry* page. The Organization name is displayed as read-only text in the *Billing Party* field.

Click the "Select Address" button to launch a window that shows the addresses available for this Party (Figure 11.4). Select a billing address for the Organization and click the "Select" button. The address is displayed as read-only text in the *Billing Address* field (Figure 11.5).

Water Buards CIWQS Address Search	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.
Address Selection for Party: NORCAL WASTE SY Select Cancel 6426 HAY RD VACAVILLE, CA 95604 United States of America (Billing Address)	STEMS HAY RD LF

Figure 11.4 Billing Information

Click the "Cancel" button to return to the Invoice Entry page without selecting an address for the Organization.

Billing Information	
Billing Party: *	NORCAL WASTE SYSTEMS HAY RD LF Select a Party
Billing Address: *	6426 HAY RD VACAVILLE, CA 95604 United States of America (Billing Address) Select Address





When you have updated or entered new information in the Invoice type, dates, and billing information sections be sure to click the "Save" button at the top of the tab to avoid loss of data.

Once the Invoice has been saved, the "Review Payments", "Issue Invoice" and "Link Assessment" buttons are activated.

11.3.2 Linking Assessments Included in the Invoice

Once you have saved a new Invoice, you may optionally link an Assessment to the Invoice. An Assessment represents a penalty imposed by an Enforcement Action (a type of Regulatory Measure). To link an Assessment to the Invoice, select the "Link Assessment" button on the *Invoice Entry* page. Clicking this button launches an *Assessment Search* page (Figure 11.6).

Assessment Search	Menu Help Log out Navigate to: V You are logged-in as: demo. If this account does not belong to you, please log out.
Enter search criteria and click 'Search'.	
Search Assessments By: *	
Place:	
Place Search	
Berulaten / Messurer	
Regulatory Measure: Select Regulatory Measure	
Search	
Results:	
Link Checked Assesments to Invoice	Cancel
Liability Milestone Name Assessment Type	Assessment Value

Figure 11.6 Assessment Search Page

	-	I
l		L

See Chapter 12 for more information on Enforcement Actions.

You can search for an Assessment either by associated Place or Regulatory Measure. One or the other must be selected to search for an Assessment. \square

 \square

To search for a Place, click the "Place Search" button. This launches the *Place Search* page. Enter appropriate criteria on the *Place Search* page and click the "Search" button. Click the "select" hyperlink in the Place results table to select a Place. The name of the Place is displayed on the *Assessment Search* page.

See Chapter 3 for more information on searching for Places.

To search for a Regulatory Measure, click the "Select Regulatory Measure" button. This launches the *Regulatory Measure Search* page. Enter appropriate criteria on the *Regulatory Measure Search* page and click the "Search" button. Click the "select" hyperlink in the Regulatory Measure results table to select a Regulatory Measure. The name of the Regulatory Measure is displayed on the *Assessment Search* page.

See Chapter 5 for more information on searching for Regulatory Measures.

To clear the Place or Regulatory Measure, click either the "Place Search" or "Select Regulatory Measure" button and then click the "Cancel" button on the resulting search pages.

Once you have selected either a Place or Regulatory Measure with which to search for an Assessment, click the "Search" button. All Assessments related to the selected Place or Regulatory Measure are displayed in the results table (Figure 11.7).

Regulatory Measure \$		Navigate to logged-in as: demo.		enu Help Log out vou, please log out.		
Regulatory measure a	Jearch					
Click 'New Search' to initiate Number Identifier:	a new search with new crite	ria.				
Regulatory Measure: Enforce	ement	~				
Water Board: Any			~			
Facility Name:						
Related Party Name:						
Program: Any		~				
	-	×				
New Search Cance	4					
Search Results:					Previous 1-10 of 57 💌	Next 10
Title	Program	Regulatory Measure	Order Number/Primary Identifier	Facility	Effective Dates	Action
A RM Enforcement	NPDES	Enforcement	R8-2005-006	CHANNEL CATS RV PARK, STP NO 5,CHINO	06/06/2005 - 06/01/2006	Select
Clean Up	Water Reclamation	Enforcement	R5-2006-0004		06/10/2005 -	Select
Enforcement - 2 0180518	Unregulated sites	Enforcement		Villa Cleaners	08/30/2002 -	Select
Enforcement - 2 01S0528	Unregulated sites	Enforcement		ASPI - Hayward	06/05/2002 -	Select
Enforcement - 2 07-0780	Underground Storage Tanks	Enforcement		Chevron	07/26/2001 -	Select
Enforcement - 2 071001001	NPDES	Enforcement		GENERAL CHEMICAL- WWTP	-	Select
Enforcement - 2 07S0128	Unregulated sites	Enforcement		Bank of Oakland property	02/01/2001 -	Select
Enforcement - 2 07S0128	Unregulated sites	Enforcement		Bank of Oakland property	03/16/2001 -	Select
Enforcement - 2 21-0338	Underground Storage Tanks	Enforcement		Former German Auto Repair	05/11/2001 -	Select
Enforcement - 2 21-0338	Underground Storage Tanks	Enforcement		Former German Auto Repair	02/09/2000 -	Select

Figure 11.7 Assessment Search Results

Click the "Cancel" button to return to the *Invoice Entry* page without linking an Assessment.

Assessments that have already been linked to an Invoice will no longer show up in the Assessment Search Results table. An Assessment can only be linked to one Invoice.

Click the "select" hyperlink to link an Assessment to the Invoice and return to the *Invoice Entry* page.

The linked Assessment will be displayed in the "Assessments Included in the Invoice" section of the *Invoice Entry* page (Figure 11.8). Additional information about the Assessment will be displayed as read-only text in the table. Assessment information can only be changed through its related Enforcement Action (through the *Regulatory Measures* Module).

Assessments Included in the	e Invoice						
Link Assessments							
Milestone Name	Liability	Туре	Total Assessed Amount	Paid Amount	Total Outstanding Amount	Spent Amount	
Pay liability and sign waiver	Enforcement Project	Milestone	\$119000.0	\$0.0	\$119000.0	\$0.0	unlink
		Totals:	\$119000.0	\$0.0	\$119000.0	\$0.0	

Figure 11.8 Assessments Included in the Invoice Section

Click the "unlink" hyperlink to remove the Assessment from the Invoice without deleting the record for that Assessment.



When you have entered or updated new information on the *Invoice Entry* page, be sure to click the "Save" button at the top of the page to avoid loss of data.

11.3.3 Issuing Invoices

To send an Invoice to the Billing Party, click the "Issue Invoice" button at the top of the *Invoice Entry* page. You will be presented with the message: "Are you sure you want to issue the invoice? You cannot make changes after this!"

Click "OK" to continue and issue the Invoice. Click the "Cancel" button to end the operation and return to the *Invoice Entry* page without issuing the Invoice. After an Invoice has been issued, the "Issue Invoice" button disappears until information for a new Invoice has been added.

11.3.4 Reviewing Payments

From the *Invoice Entry* page, you can review payments that have been made against an Invoice and reverse any payment. Click the "Review

Payments" button on the top of the Invoice Entry page to view the *Payment Review* page (Figure 11.9).

The *Payment Review* page shows a table of information related to payments made for a specific Invoice. Types of information contained in the table include the name of the liability, the amount due and amount of payments made, and information about the Party who made the payment. The fields on the *Payment Review* page are read-only. No data entry occurs on this page.

Water Beards	CIWQ	S			You a	re logge		vigate to: ciwqs. If f	his accour	nt does not l		u <u>Help Loc</u> J, please log	•					*
Payment	Revie	N																
Invoice ID:	46																	
Payments:																		
Reversed?	Liability	Milestone									Reference	Reference		Collection	Deposit	PCA	Source	
	Name	Name	(\$)	Date	Date	Period	Name	Address	Notes	Method	Number	Date	Number	Number	Number	Number	Code	
Back																		

Figure 11.9 Payment Review Page

Click the "Back" button to return to the Invoice Entry page.

11.4 Recording Payments

The *Invoice* Module also allows for the recording of payments against Invoices. From the *Invoice Search* page, you can record payments against milestones or into the unallocated "fund". Click the "Record Payments" button to launch the *Payments* page (Figure 11.10).

At the top of the page choose either the "Payment" or "From Unallocated" radio button. The "Payment" radio button indicates that a new payment has been received. The "From Unallocated" radio button indicates that a previously unallocated payment is now being allocated (see details of unallocated payments below).

To link a Payer with the Payment, click the "Select a Party" button, which launches the *Party Search* page. Search for the appropriate Party, and then click the Select hyperlink on the Party results table to link the Party to the Payment. Once you have selected a Party, the *Payer Address* field is autopopulated with the billing address of the Payer.

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The entry date, fiscal period, total payment amount, payer name, payer address, payment method, reference number, and reference date are required before an Invoice record can be saved.

Water Bosards CIWC	2S	You are	Navigate logged-in as: tetratech	to: h. If this account does not bel	Menu Help Log out v ong to you, please log out.
Payments					
Save Cancel]				
💿 Payment 🔘 Fr	om Unallocated				
Receipt Date:		Entry	Date: * 0	8/30/2005	
Fiscal Period: *	~	Total	Payment Amount: *		
Payer Name: *	Select a Party	Paym	nent Notes:	<u>~</u>	
Payer Address: *	Select Address				
Payment Method: *			ence Number: *		
Batch Number: Deposit Number:		Colle	ction Number:		
PCA Number:		Sour	ce Code:		
Add Payment	7]
	nvoice * Liability *	Milestone *	Amount Due (\$) *	Amount Received (\$) *	-
Select Invoice		wilestone	Anoune Due (\$)	Augula Received (\$)	1
Unallocated amour	it: \$0		I]

Figure 11.10 Payments Page

Table 11.3 lists the fields on the *Payments* page and describes each one.

Table 11.3 Payments Fields

Field Name	Description					
Receipt Date	Enter the date the payment was received.					
Entry Date	Auto-populates with today's date but can be changed, as needed, to reflect the date the payment was entered.					
Fiscal Period	Select the fiscal period from the drop-down menu.					
Total Payment Amount	Indicate the amount of the payment (dollar field).					
Pauer Name	Use the "Select a Party" button to search for and					
Payer Name	select a Payer (Party) for the payment (see below).					
Dowon Address	Use the "Select Address" button to select the					
Payer Address	appropriate address for the Payer (see below).					
Payment Notes	Enter any notes attached to or about the payment.					
Payment Method	Select the payment method from the drop-down					
Payment Method	menu (check, credit card, etc.).					
Reference Number	Enter the payment reference number (e.g., check					
Reference Number	number).					
Reference Date	Enter the date the payment was sent.					
Batch Number	Enter the payment batch number.					
Deposit Number	Enter the payment deposit number.					
Collection Number	Enter the payment collection number.					
PCA Number	Enter the payment PCA number.					
Source Code	Enter the source code for the payment.					

If there is more than one address saved in the selected Party's record, the "Select Address" button will be turned on. Click the button if you would like to change to an alternate address saved for the Party.

Adding Payments

At the bottom of the *Payments* page, you can link an Invoice to the Payment (Figure 11.11). Click the "Select Invoice" hyperlink in the table to launch the *Invoice Search* page.

Add Paymen	it				
	Invoice *	Liability *	Milestone *	Amount Due (\$) *	Amount Received (\$) *
Select Invoice		*	*		
Unallocated amou	unt: \$0				

Figure 11.11 Add Payment Section

When you have located the relevant Invoice using the search criteria fields (as described above), click the "Select" hyperlink in the appropriate row to link the Invoice to the payment and return to the *Payments* page.

Click the "Cancel" button to return to the *Payments* page without linking an Invoice.

Only one milestone can be selected from an invoice at a time. In order to link multiple milestones, click the "Select Invoice" hyperlink and add another row to the table. Select the appropriate milestone and indicate the amount of payment.

The Invoice will be listed in the Add Payments table (Figure 11.12). Select a liability and milestone from the drop-down menus and enter the amount due and the amount received in the appropriate fields.

Add Paym	nent						
	Invoice *	Liability *	Milestone *	Amount Due (\$) *	Amount Received (\$) *		
Select Invoice	1234	Enforcement Project 💌	Pay liability and sign waiver 💌	119000.0	1200.00		
Unallocated amount: \$0							

Figure 11.12 Linking an Invoice to the Payment



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When you have entered or updated new information on the *Payments* page, be sure to click the "Save" button at the top of the page to avoid loss of data.

12 The Enforcement Tab

This chapter addresses the following topics:

- An introduction to Enforcement Actions
- Creating new projects and liabilities

12.1 Introduction to Enforcement Actions

Enforcement Actions are a type of Regulatory Measure created and maintained through the *Regulatory Measures* Module. An Enforcement Action (or Order, or other Enforcement type such as Notice of Violation) is created in response to some acknowledged and confirmed Violation. When a Regulatory Measure is defined with an Enforcement Action type, the Enforcement Action tab is made available (described below).

The *Create/Maintain Regulatory Measures* Module can be accessed from the CIWQS Main Menu or from the Navigation drop-down menu found at the top of each page.

This chapter focuses on maintaining Enforcement actions using the Enforcement tab in the Regulatory Measures Editor.

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See Chapter 5 for more information on Regulatory Measures.

12.2 Creating an Enforcement Action

To make a new an Enforcement Action, create a Regulatory Measure with Enforcement (or equivalent) as its type from the Regulatory Measure drop-down menu on the General Information tab (Figure 12.1).

Once you have entered all required information on the General Information tab, click the "Save" button. The Enforcement tab appears as the second tab at the top of the page. Select the Enforcement tab to enter details about the Enforcement Action (Figure 12.2).

Water Boards CIWQS		Navigate to: u are logged-in as: demo. If this account d	<u>Menu Help Lc</u> oes not belong to you, please lo	~
Regulatory Measu	re			
Regulatory A RM Measure:	Enforcement	Effective Dates: 06/06/2005	06/01/2006	
Order Number: R8-2	005-006	Water Board:		
Status: Active	9			
General Info Enforcem	ent Related Parties Related	d Places Monitoring Locations Requirer	nents Inspections Tasks Do	cuments Addn. Info Attachments
Save			<u>.</u>	
Title:*	A RM Enforcement			
Description:	This is a test	×.		
Regulatory Measure:*	Enforcement	~	Order Number:	R8-2005-006
Status:*	Active 🗸		Individual / General:*	General 💌
Status Date:*	05/01/2005 (MM.	/DD/////) 🛄 View Status Histo	ry	
Regulatory Programs				
Pr NPDES	ogram* s	Sub-Program Program Classification Ac	tion <u>hlink</u>	
	~	×		

Figure 12.1 Regulatory Measure Type Field

					Menu Help	Log out			
Water Boards CIW	QS		rvigate to:			~			
		You are logged-in as	a: demo. If this acco	unt does not k	elong to you, pleas	e log out.			
Regulatory M	easure								_
Regulatory Measure:	A RM Enforcement	Effec	tive Dates: 06/06	6/2005 - 06/01.	2006				
Order Number:	R8-2005-006	Wate	r Board:						
Status:	Active								
General Info Enf	forcement Related Parties	Related Places Monitor	ing Locations Req	uirements Ir	spections Tasks	Documents Ad	dn. Info Attachm	ients	
Save	View Invoices for this E	nforcement Measure							
Total Assessed:		\$10	0000.00						
Total Paid:		\$2	4750.00						
Total Outstanding	4:	\$7	5250.00						
Has Late Miles	etonoc								
	3101163								
/iolations:									
/iolations:	on								
<i>.</i>	ion Violation Type	Facility Source	ce of Violation	Status	Discovery D	ate	Date Added to E	Enforcement	
Link a Violati		Facility Source	e of Violation	Status	Discovery D	ate	Date Added to E	Enforcement	
Link a Violatio	Violation Type	Facility Source	e of Violation	Status	Discovery D	ate	Date Added to E	Enforcement	
Violation ID Discharger Project	Violation Type	Facility Sour	e of Violation	Status	Discovery D	ate	Date Added to E	Enforcement	
Link a Violatio Violation ID Discharger Project Create a l	Violation Type)							
Link a Violatio Violation ID Discharger Project	Violation Type	Status	Status Date Planne	ed Start Date					-

Figure 12.2 Enforcement Tab

The Enforcement Tab is divided into three sections:

- Viewing Invoices for the Enforcement Action
- Linking to Violations
- Discharger Projects/Liabilities

For Enforcement Actions, a Violation triggers the addition of a Project/Liability. If there is an associated Liability (e.g., monetary compensation), one or more Invoices are created in relation to the Violation.

12.2.1 Invoices for the Enforcement Action

The first section of the Enforcement tab shows the Invoices linked to the Enforcement Action (Figure 12.3).

The fields in this section display summary information about the payments that are associated with the Enforcement Action. The first row displays the total amount assessed (due) across all projects. The second row displays the total amount paid to date. The third row displays the total still due. The last item in this section is a checkbox indicating whether a project has a late milestone.

Save View Invoices for this Er	nforcement Measure
Total Assessed:	\$100000.00
Total Paid:	\$24750.00
Total Outstanding:	\$75250.00
🔲 Has Late Milestones	

Figure 12.3 Invoices for the Enforcement Measure

If there are Liabilities related to an Enforcement Action, one or more Invoices will be created. Once they are linked to the Enforcement Action (via the *Create/Maintain Invoices* Module), they will be visible on the Enforcement tab.

The "View Invoices for this Enforcement Measure" button allows you to view all Invoices that reference the Enforcement Action and add the Enforcement Regulatory Measure to an Invoice. Not all assessments need to be added to a specific Invoice and multiple Invoices are allowed per Enforcement Action. In addition, assessments from multiple Enforcement Regulatory Measures can be combined on the same Invoice.

Clicking the button launches the *Invoices Search* page with information from the current Enforcement Action loaded into the search fields to initiate a search.

The search returns all Invoices related to the Enforcement Action and each can be viewed individually by clicking the hyperlink in the *Invoice ID* field.

12.2.2 Linking to Violations

The second part of the Enforcement tab contains information about related Violations (Figure 12.4.)

	Violations:								
Link a Violation									
	Violation ID	Violation Type	Facility	Source of Violation	Status	Discovery Date	Date Added to Enforcement		
	<u>134900</u>	Deficient	Multiple	234255	Allegation		06/22/2005	<u>unlink</u>	

Figure 12.4 Linked Violations

To link a Violation to the Enforcement select the "Link a Violation" button on the Enforcement tab. Clicking this button launches the *Violation Search* page. Enter relevant criteria into the search fields and click the "Search" button.

Click the "Cancel" button at any time to return to the Enforcement tab without linking a Violation.

When you have found the Violation you wish to link, click the "Select" hyperlink. This brings you back to the Enforcement tab with the Violation added to the Violation table.



See Chapter 9 for more information on searching for Violations.



When you have linked a new Violation to an Enforcement Action, click the "Save" button to save the Violation to the Enforcement Action. This will activate the Violation ID and "unlink" hyperlinks.

When a Violation is linked to an Enforcement Action, you are able to view the type of Violation, the Facility, the source and status of the Violation, and relevant dates. The source of the Violation indicates which Regulatory Measure resulted in the need for the Violation. Clicking the hyperlink in the source column launches the Regulatory Measure Editor and shows the associated Regulatory Measure. The status column shows the status of the related Violation. This column will not be populated if the action does not warrant enforcement (e.g., no associated "alleged" Violations).

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There is no limit to the number of Violations that can be linked to an Enforcement Action.

12.2.3 Discharger Projects/Liabilities

The third section of the Enforcement tab contains information about Discharger Projects/Liabilities (Figure 12.5). In this section, you can see all Projects and Liabilities that have been associated with the Enforcement Action, or you may create a new Project or Liability. All Projects and Liabilities that have been linked to the Enforcement action appear in the table when the Enforcement Tab is opened. This table provides you with a description of the Project or Liability, indicates the type (i.e., Project or Liability) and sub-type, the status of the Project or Liability, the date that the status was last changed, and the planned and actual start and end dates of the Project. In addition, you can view the total amount assessed for the Project or Liability.

To view the full details for a Project or Liability listed in the table, click the hyperlink in the Description column.

C	Discharger Projects Liabilities:										
Create a New Project/Liability											
Description Type Sub-Type Status Status Date Planned Start Date P						Planned End Date	Actual Start Date	Actual End Date	Total Assessed		
	Don Enforcement	Liability	Federally mandated	Conditionally Waived	06/01/2005	07/01/2005	07/08/2005			100000.00	<u>delete</u>
15											

Figure 12.5 Discharger Projects/Liabilities

Click the "delete" hyperlink to delete the record of the Project or Liability.

12.2.4 Creating New Projects and Liabilities

To create a New Project or Liability, click the "Create a New Project/Liability" button. This launches the *Add Project/Liability* page (Figure 12.6).

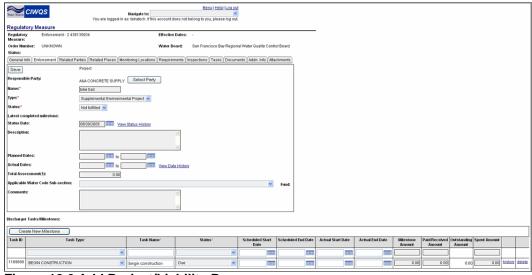


Figure 12.6 Add Project/Liability Page

First, select the appropriate radio button to indicate whether the Enforcement Action requires a Project (e.g., remediation action) or Liability (i.e., monetary compensation). Next, select the Party responsible for fulfilling the terms of the Project or Liability. To select the Responsible Party, click the "Select Party" button to launch the *Party Search* page. Enter relevant criteria into the search fields and click the "Search" button. From the results table, click the "Select" hyperlink to link the Party to the Project or Liability.

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For more information on the *Party Search* page, see Chapter 4.

Enter a name for the Project or Liability, and its current status (e.g., is developing, fulfilled, conditionally waived). The *Last Completed Milestone* field displays the name of the milestone with the most recent end date (read-only field).

Enter a status date (i.e., date of last Status change). A narrative description of the Project or Liability is also a required field.

For Projects, you may enter the dates of the planned and actual beginning and end of the Project. For Liabilities, you can only enter the Planned end for payments.

You may also enter the total amount assessed for the Project or Liability. This number is manually entered and is not validated to ensure that it equals the total of the assessed amounts in the tasks (milestones) table.

Select the applicable water code sub-Section from the drop-down menu. The system automatically populates the *Fund* field with the appropriate value. Finally, enter additional text about the Project or Liability in the *Comments* field.

Discharger Tasks/Milestones

The bottom of the Project/Liability page provides a table of Milestones that have been associated with the Project or Liability (Figure 12.7). Summary information about each Project and Milestone is displayed in the table, including the type of task, the status of each Milestone, relevant dates, and monetary values assessed.

Discharg	Richarger TarksMBettnerc													
0	Create New Milestone													
Task ID	Task Type '	Task Name	Status*	Scheduled Start Date	Scheduled End Date	Scheduled End Date	Actual Start Date	Actual End Date	Milestone Amount	Paid Received Amount	Outstanding Amount	Spent Amount		
383939	ENFORCEMENT ACTION EFFECTIVE DATE		Due 💌	07/01/2005	07/08/2005	07/08/2005			35500.00	12750.00	22750.00	11330.00	history	delete
800520	BEOIN DESION		Due 💌						74500.00	12000.00	62500.00	0.00	history	delete

Figure 12.7 Milestones

To create a new milestone, select the "Create New Milestone" button. The page refreshes, and a new row appears in the Discharger Tasks/Milestones table. Select the task type from the drop-down menu and enter a brief description of the task in the *Task Name* field. Enter the scheduled start and end dates, and the actual start and end dates, if they are known. You may also enter the amount of money due for the Milestone, as well as the amount paid and received to date. The *Outstanding Amount* field displays how much is still owed for the Milestone.

You may enter any additional comments about the Milestone into the *Comments* field. To see a history of the status change, click the "history" hyperlink.

The status of each Milestone must be set individually. When the received amount is less than the assessed amount (due amount >\$0), set the Status to "Incomplete". When the received amount equals the assessed amount, set the status to "Complete". This can be changed by the user, if needed.

STOP

When you have entered or updated new information on the *Project/Liability* page, be sure to click the "Save" button at the top of the page. Your data will be lost if you do not save the new information.

After you have saved new Tasks, click the Enforcement Tab at the top of the page to return you to the main page for the Enforcement Action. A record of all Projects and Liabilities associated with an Enforcement Measure will be listed in the Discharger Projects/Liabilities table at the bottom of the page.

CIWQS Water Board User's Guide

Part V

Geo Waterbody System (GeoWBS)

13 Introduction to the Geo Waterbody System
14 GeoWBS Navigator
15 GeoWBS Online Editor
16 GeoWBS Desktop Editor

Introduction to the Geo Waterbody System (GeoWBS)

This chapter addresses the following topics:

- An introduction to the GeoWBS components
- Types of information used by the GeoWBS
- Waterbody features represented in the GeoWBS
- Workflow between the GeoWBS components

13.1 Introduction: The GeoWBS components

The Geo Waterbody System (GeoWBS) portion of the California Integrated Water Quality System (CIWQS) project focuses on the maintenance of the list of California public waters, their spatial representations as GIS features, enables the long-term management of water quality information related to those waters, and provides the tools needed for efficient, multi-program access to this data.

This functionality is met by the three GeoWBS components:

- The GeoWBS Desktop Editor
- The GeoWBS Online Editor
- The GeoWBS Navigator

The Desktop Editor is an ESRI ArcGIS-based application that allows for the editing and management of geospatial water body features and their basic attributes. It also provides the most robust reporting platform of all of the GeoWBS components. The Desktop Editor is the only component that will not be available via the CIWQS online interface. Instead, it will be available as an add-on to the ESRI ArcMap software. The Online Editor is a web application used to capture the results of surface water quality assessment activities. This component is based on the Fact Sheet Database (FAC) – a system created to manage evidence used to describe and report on the condition of California's surface waters. The Online Editor has basic reporting and output functions relevant to surface water quality assessment.

The GeoWBS Navigator will be accessible to the largest number of Users and will provide an interactive map interface designed to allow geospatial data viewing, querying and extraction. The Navigator, like the Online Editor, is accessed through the CIWQS Main Menu.

The Desktop Editor and Online Editor work together to produce assessment reports that fulfill EPA and California requirements. The GeoWBS Navigator operates as an independent application that allows Users to browse geographical information to create customized maps of waterbodies and related features within the state of California.

13.2 Types of Information within GeoWBS

GeoWBS stores information in a variety of different ways. This section explains how information is categorized and represented in the GeoWBS Desktop and Online Editors.



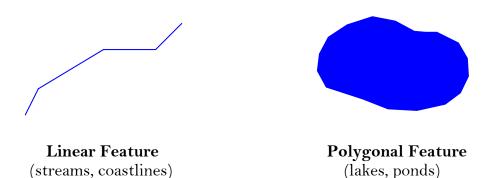
For more information on how data is stored in the GeoWBS Navigator, see Section 14.3.2.

13.2.1 Spatial and Attribute Data

The GeoWBS Online and Desktop Editors share a set of information related to the waterbodies of California. This information is made up of both **spatial** and **attribute** data. Spatial data is used to represent geographical features (i.e. lakes and rivers) while attribute data is tied to these features to give them meaning (i.e. assessment information).

13.2.2 Representation of Spatial Data

Spatial data is stored in two forms – **linear** and **polygonal**. Linear features are those that can be represented by a line or a set of lines. Rivers and streams are examples of linear features. Polygonal features are those that are represented by multi-sided shapes, such as lakes and ponds.



13.2.3 GeoWBS Waterbody Features

Assemblages of linear and polygonal features represent three types of waterbody information. This information falls into three feature categories:

- Waterbody Hydrography
- Delineations of Assessment Units
- Representations of Monitoring Areas

Each type of information is related to a specific set of attribute data and is assigned a unique identifier. The identifier is determined by the feature category and enables the feature to be tracked within the system.

Hydrography

The GeoWBS is designed to represent and provide an assessment tool for the hydrography of California. In other words, the Desktop and Online Editors map and report on the water features of California. In this version of GeoWBS and CIWQS, California's hydrography is represented by the 1:100,000 scale National Hydrography Dataset (NHD).

The National Hydrography Dataset (NHD) is a geographic database that interconnects and uniquely identifies the reaches (stream segments) and waterbodies (lakes and ponds) of the nation's surface water drainage system. The NHD provides a common language for communication regarding waterbodies and related information. It is made meaningful by the attribute data associated with it – such as associated beneficial uses or impairment status.

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For more information on the National Hydrography Dataset, visit the USGS Web site at <u>http://nhd.usgs.gov/</u>.

Representation of waterbody features within the GeoWBS begins with the features established for the National Hydrography Dataset. The unique database-level identifier assigned to each feature is called the COMID. Linear features also have a unique identifier called a Reach Code, which is partially derived from the 8-digit hydrologic unit code (HUC).

Waterbody information is then georeferenced (linked to) these NHD waterbodies to represent the Assessment Units and Monitoring Areas studied and regulated by EPA and the California Water Boards.

Georeferencing

Georeferencing refers to the process of assigning map coordinates to geospatial images and geographic features. In the GeoWBS, georeferencing refers to the process of associating linear and polygonal Assessment Units and Monitoring Areas to co-registered (geographically corresponding) NHD waterbodies.



For more information on georeferencing, visit EPA's Web site at <u>http://www.epa.gov/owow/monitoring/georef/</u>.

Assessment Units

Assessment Units (AUs) represent those waters that should be considered for assessment in a given assessment cycle and will identify contiguous regions where the same water quality objectives (WQOs) and beneficial uses apply. Each Assessment Unit is assigned a unique Assessment Unit ID (AUID).

The following rules/features apply to Assessment Units:

- Assessment Units can be represented as either linear or polygonal features
- Linear Assessment Units will be georeferenced to one or more NHD reaches with linear referencing (linear georeferencing; see example below)
- Assessment Units can span one or more NHD reach segments or parts of segments
- Assessment Units cannot overlap
- Assessment Units should have the same beneficial uses across the entire unit

Monitoring Areas

Monitoring Areas (MAs) exist within Assessment Units and describe the spatial extent of regions that have been assessed. MAs can be associated with one or more impairments or attainments. Each Monitoring Area is assigned a unique Monitoring Area ID (MAID).

The following rules/features apply to Monitoring Areas:

- Monitoring areas can be represented as either linear or polygonal features
- Linear Monitoring Areas will be georeferenced to one or more NHD reaches with linear referencing (linear georeferencing; see example below)
- Monitoring Areas can span one or more NHD reach segments or parts of segments
- Monitoring Areas within an Assessment Unit can overlap
- Each Monitoring Area must exist entirely within an Assessment Unit

Figure 13.1 gives a visual representation of the rules governing the interaction of the three feature types (for linear features). The diagram shows three NHD segments (NHD-1 NHD-2, and NHD-3), an Assessment Unit (AU-1) and three Monitoring Areas (MA-1, MA-2, and MA-3):

- The NHD segments do not overlap
- The Assessment Units can span all or part of an NHD segment (AU-1 spans part of NHD-1, all of NHD-2 and part of NHD-3)
- The Monitoring Units can overlap within an Assessment Unit but must be entirely contained within an Assessment Unit

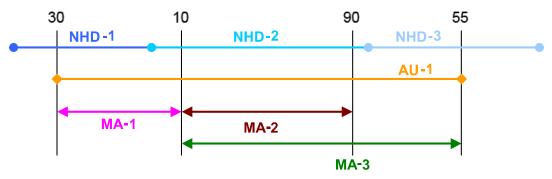


Figure 13.1 Linear Referencing Conceptual Diagram. Position is recorded as a percentage along the NHD segments.

Table 13.1 presents a comparison of the NHD, Assessment Unit, and Monitoring Area characteristics.

Characteristic	NHD Feature	Assessment Unit	Monitoring Area
Unique Identifier	Hydrologic Unit Code (HUC)	AUID	MAID
Can they overlap?	No	No	Yes
Spatial relationships	N/A	One Assessment Unit can contain multiple monitoring areas	A Monitoring Area must be completely contained within a single Assessment Unit.
Beneficial uses	N/A	Beneficial uses are assigned at the Assessment Unit level and must be consistent across the Assessment Unit	Inherit the beneficial uses of the Assessment Unit
Impairments	N/A	N/A	One Monitoring Area can have multiple impairments. One impairment can be associated with multiple sources.
Attainment status	N/A	N/A	Stored for each use of a Monitoring Area.

Table 13.1 Comparison of Waterbody Features

13.3 Workflow between GeoWBS Components

Although the components of GeoWBS may actually be used simultaneously after they are implemented, each component relies on information from another before it can perform its function. The diagram below presents the general flow of information between the Desktop Editor and the Online Editor (Figure 13.2).

Each step represented in the workflow is described in further detail below.

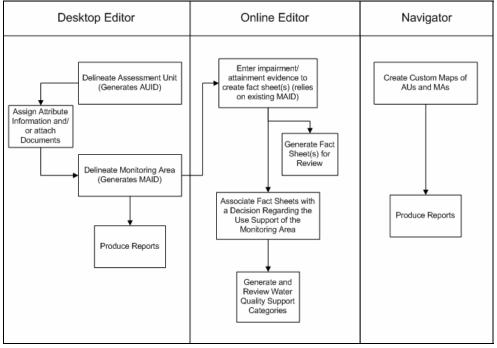


Figure 13.2 Generalized GeoWBS Workflow

13.3.1 Desktop Editor

Within the Desktop Editor, it is possible to:

- Delineate Assessment Units
- Assign Attribute Information and/or attach documents to Assessment Units
- Delineate Monitoring Areas
- Produce Reports

Delineating Assessment Unit

The first step that needs to be completed is the delineation of an Assessment Unit. Delineating Assessment Units generates unique identifiers that will be used for all subsequent steps (AUIDs). An Assessment Unit must be defined before a Monitoring Area can be defined. Once an Assessment Unit has been created, new Monitoring Areas may be created within the Assessment Unit.

Assign Attribute Information and/or Attach Documents

Once an Assessment Unit has been defined, attribute data can be attached to it such as Name, Type, Location Description, Size and Associated Water Board from within the Desktop Editor.

Delineating Monitoring Area

Once an AU has been defined, Monitoring Areas within that AU can be delineated and saved. Delineating Monitoring Areas generates a unique identifier (MAID).

Produce Reports

The Desktop Editor allows for the production of a full range of reports that can be used to fulfill reporting requirements for both EPA and California. Reports draw from the data input to both the Desktop and Online Editors.

13.3.2 Online Editor

Within the Online Editor, it is possible to:

- Enter impairment/attainment evidence to create fact sheet(s)
- Generate fact sheets for review
- Associate fact sheets with a decision regarding the use support of the Monitoring Area
- Generate and review water quality support categories

Enter Impairment/Attainment Evidence

Once a Monitoring Area has been created, attribute and impairment information can be linked to it via the Online Editor interface. The Online Editor allows you to evaluate Monitoring Areas against their associated water quality standards by documenting the results of assessments.

Generate Fact Sheets for Review

The primary reporting vehicle for the Online Editor are fact sheets, which document impairment/attainment evidence for the Monitoring Areas stored within the system.

Associate Fact Sheets with a Decision

Once a fact sheet (or set of fact sheets) has been created, it can be used as evidence to support a decision on the waterbodies' status.

Generate and Review Water Quality Support Categories

The purpose of the Online Editor is to collect support for decisions on the 305(b) status of California's waterbodies. The status will be reported as part of the Decision function of the Online Editor and can be reviewed for consistency and accuracy.

13.3.3 GeoWBS Navigator

Within the GeoWBS Navigator, it is possible to:

- Create custom maps of AUs and MAs
- Produce reports

Create Custom Maps

The interactive map feature of the Navigator allows you to create maps of the waterbodies of California and related impairment information. These maps can be printed to document a variety of geographical features including AUs, MAs, monitoring locations and political boundaries.

Produce Reports

The Navigator is equipped with several reporting vehicles that document TMDL activity near permit facilities, the location of proposed grant projects, a map of impairments based on pollutants and a map of impairments based on the source of pollution.

14 GeoWBS Navigator

This chapter addresses the following topics:

- Introduction to the Navigator and its features
- The Map Wizard page
- Working with maps on the Main Map page
- Additional features of the Main Map page

14.1 Introduction

The GeoWBS Navigator provides a tool to selectively map and print reports of waterbodies (and other geographical features) in California. Unlike the Online and Desktop Editor components of GeoWBS, the Navigator does not provide a method for data entry. Its main functions are viewing information and printing reports. The Navigator is accessed through the *Map It!* Module found on the CIWQS Main Menu (Figure 14.1).

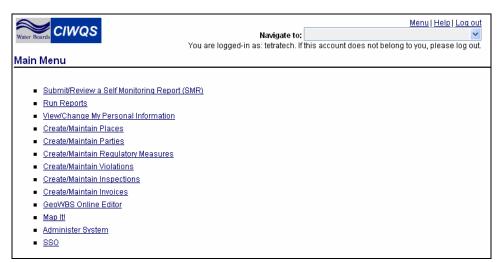


Figure 14.1 CIWQS Main Menu

Pop-up Windows in the GeoWBS Navigator

CIWQS uses pop-up windows in several of the Modules. A pop-up link (triggered by selecting a function or a Web address hyperlink) opens a new window in your browser using a program called JavaScript. It is possible that your Web browser has disabled JavaScript. If this is the case, you might have problems viewing the pop-up windows and their content.

Most browsers will alert you with an error message if JavaScript is disabled. If you have problems viewing pop-ups, re-enable JavaScript on your computer or contact your help desk to find out how to view pop-up windows on your computer.

The first page you see will be the *Map Wizard* page, where you will select the areas and layers of interest for your map (see section 14.2). This information is then transferred to the *Main Map* page where you can work with the data to create a map that meets your needs (see section 14.3).

GeoWBS Features

The GeoWBS Navigator uses some features that are common to the Environmental Systems Research Institute (ESRI) suite of GIS-mapping programs (e.g., ArcView, ArcGIS, ArcMap, etc.). These features include:

- The use of layers (called "themes" in the ESRI programs) to display information; and
- The use of distinct toolbar buttons and features.

In addition, the GeoWBS Navigator has a selection of other features to aid the map creation process.



It is not necessary to know any GIS to use the GeoWBS Navigator. GIS users may have an advantage in that some of the tools will look familiar.

14.2 The Map Wizard Page

The *Map Wizard* is the first page you see after clicking on the "<u>Map It!</u>" hyperlink on the CIWQS Main Menu. The purpose of this page is to let you select an area of interest (the area that will be the focus of the *Main*

Map page) and to select which layers you wish to view on the *Main Map* page.

The *Map Wizard* page is divided into five frames (Figure 14.2). The four external frames walk you through the process of selecting an area of interest and the desired map layers. The fifth frame shows a map of California. This map will display the selected areas of interest.

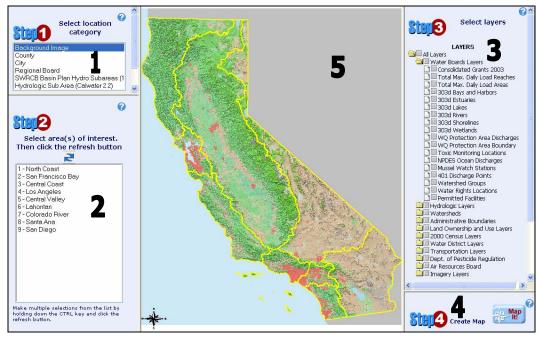


Figure 14.2 Five Frames of the Map Wizard Page

14.2.1 Step 1: Select location category

To select an area of interest using the step-by-step method, begin in frame 1. The default map view is the "Background Image". Selecting "County", "City", "Regional Board", "Basin Plan Hydro Subareas-1:500K", or "Watersheds (calwater221-HAS)" from the menu causes the map to refresh to show the location category you selected.

Only the County and Regional Board maps display corresponding feature names on the map. Cities, Basin Plan Hydro Subareas, and Watersheds will not be labeled.

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Only one location category can be selected at a time. It is not possible to make multiple selections in Step 1.

14.2.2 Step 2: Select area of interest

The second frame (Step 2) allows you to select a particular entity from the location category you selected in Step 1. If you select "County" as the location category, for example, all counties within California will be listed in the menu in the second frame. Use this Step to target specific areas for your map study. Multiple areas can be selected by holding down the CTRL key (or the "apple" key on a Mac) and clicking on additional areas.

Once you have made your selection(s), click the refresh button (\swarrow) to refresh the map to show your selected area(s) of interest.

Alternatively, you can use the cursor to select the area of interest by clicking on the map and dragging a box around an area. This method selects all of the areas that fall wholly or partially within the box drawn with the cursor.

Clear Selection Button

When areas in frame 5 are highlighted by making selections from frame 2 or from using the pointer tool to select areas directly within frame 5, the map frame refreshes. The targeted areas are outlined in red and a "clear selection" button appears in the upper right-hand corner of the map frame (Figure 14.3).

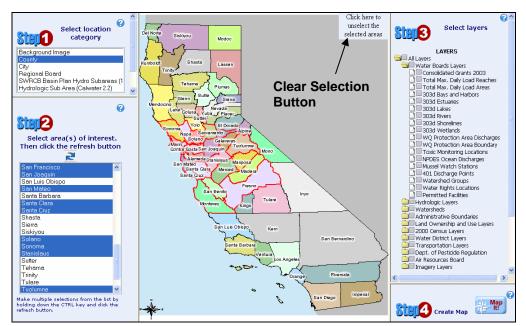


Figure 14.3 Map Wizard Showing Highlighted Areas and "Clear Selection" Button

Click the "clear selection" button to de-select all areas of interest and refresh the map.

14.2.3 Step 3: Select layers

Once the area(s) of interest have been selected, you can move to frame 3 (Step 3) to select which layers you wish to have available on the *Main Map* page.

Layers are shown in a tree view, or hierarchy, with folder icons (\square) representing groups of layers and pages (\square) representing individual layers. The gray boxes (\square) next to each layer or folder indicate whether the layer or group of layers has been selected. There are three ways to select layers:

- 1. Click the selection box next to an individual layer.
- 2. Click the selection box next to a layer group to select all layers within that group.
- 3. Click the selection box next to the "All layers" folder. This selects all available layers.

When an individual layer is selected or an entire group (folder) is selected, the corresponding gray box shows a dark checkmark (\square). If a layer is selected within a group (e.g., the "Streams" layer in the "Hydrologic Layers" group), the selection box for the group shows a half-tone checkmark (\square), indicating that some, but not all, layers within a group have been selected. If a group is selected, all layers within the group are selected and show dark checkmarks in their boxes (\square).

The "Help" section at the bottom of frame 3 lists the various layer icons and their meanings (Figure 14.4).



Figure 14.4 Layers Help Section

Click on the open folder icon (\square) to close a layer group. Click on the closed folder (\square) to open the group.

Click on the page icon (\Box) to view metadata information for a particular layer in a new window (Figure 14.5). Metadata provides you with additional information about what the layer represents.



Figure 14.5 Metadata Window for the Streets Layer

14.2.4 Step 4: Create Map

When you have finished selecting your areas of interest and the layers you wish to include on your map, move to frame 4 (Step 4) and click the "Create Map" button. The GeoWBS Navigator compiles your selections and displays a customized map on the *Main Map* page.



Click the (\bigcirc) icon in any frame of the *Map Wizard* to view information about a particular step.

14.3 Main Map Page

The *Main Map* page contains multiple tools and features that manipulate the areas and layers you selected using the *Map Wizard*. You will be able to extract attribute data from the layers, print reports, and print map images from this page.

14.3.1 Features of the Main Map Page

The features of the *Main Map* page are shown in Figure 14.6. These include the following:

<u>Action Tabs</u> – Represents functions of the Navigator that allow you to print, extract or view map data

 $\underline{\text{Toolbar}}$ – Contains the tools, buttons and functions for working with maps in the Map Frame

<u>Action Frame</u> – Shows the available layers and a "Help" section for identifying characteristics of these layers

<u>Map Frame</u> – Provides a view of the visible layers as they have been manipulated using the controls on the toolbar. This feature also acts as a "Print Preview" window for the map that will be captured by the "Print" tab. The "N", "S", "E", and "W" bars on the outside edge of the frame pans the map in the selected direction

<u>Scale Indicator</u> – Indicates the current scale of the map frame

<u>Links</u> – Provides links back to the *Map Wizard* page and to the GeoWBS Online Editor

<u>Current Tool Indicator</u> – Shows which toolbar feature is currently in use

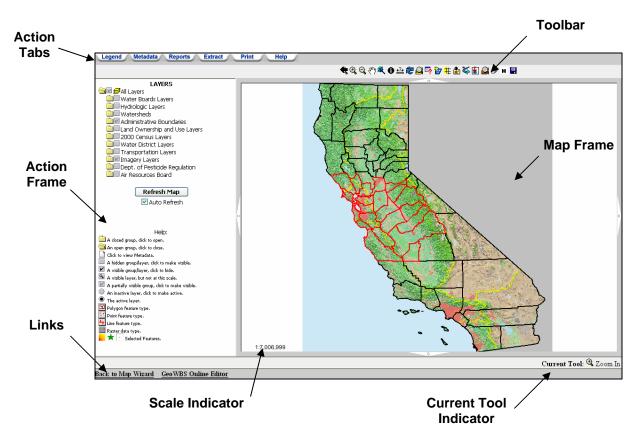


Figure 14.6 Features of the Main Map Page

The Action tabs and their functions are described in Table 14.1.

The Layers Tab

The Layers tab (the default view when a map is first created) is the main vehicle for working with the data contained in the map layers. Within this tab you can work with the Action Frame, the Toolbar and the Map Frame.

The Layers tab and its features are described in further detail below.

Table 14.1 Action Tabs

Tab Name	Description
Layers/Legend	Clicking on the "Layers" tab from the Layers view refreshes the Action frame to show the map legend – the symbols and colors used to identify the map layers which are currently visible – and changes the tab name to "Legend". Clicking on this tab again changes the label back to "Layers" and refreshes the Action frame to show the list of Layers, as before.
Metadata	When this tab is selected, a new window opens showing a list of all available layers with hyperlinks to the metadata for each. Metadata for a particular layer can be accessed by clicking the "View Metadata" hyperlink within this window. Medatada provides information about each layer.
Reports	When the Reports tab is selected, a new window opens showing the list of reports that can be generated.
Extract	When the Extract tab is selected, a new window opens and you are presented with the option to download all the visible feature layers in the current map as shapefiles. Clicking the "Click here" hyperlink triggers the system to create a compressed (*.zip) file containing attribute data for the visible feature layers in the current map extent and presents it for download. You will be asked whether you would like to open the file directly or save it to your computer.
Print	When the Print tab is selected, the Map Printing Configuration Panel window opens showing the various print options. This tab allows you to print the active map view shown in the Map Frame.
Help	The Help tab opens a new window displaying sections of this manual to provide further information about a topic.

14.3.2 The Action Frame

The Action frame shows a list of all available layers (those you selected in Step 3 of the *Map Wizard*) and allows you to display or hide layers in the map view. Figure 14.7 shows the Action Frame with some of the layer groups open ((a)) and some of them closed ((a)). The folder icons work the same way in the action frame as they do in frame 3 of the *Map Wizard* page.

The list of layers includes the same icons and checkboxes seen on the *Map Wizard* page along with a few additional symbols that indicate which layer is currently active and how the data for that layer will be represented.

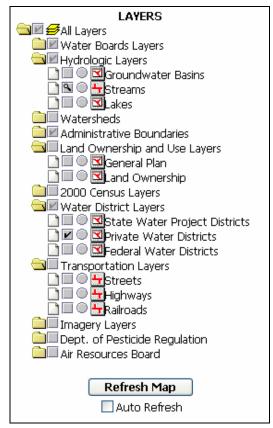


Figure 14.7 Action Frame

The Action Frame contains a Help section (Figure 14.8), which lists the layer icons available in the Action Frame and describes each one.

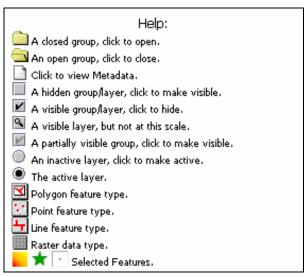


Figure 14.8 Help Section on the Main Map Page

Also within the Action Frame are the "Refresh Map" button and the "Auto Refresh" checkbox (Figure 14.7). When the Auto Refresh checkbox is selected (\square), the map automatically refreshes every time you click on one of the layers to turn it on or off (visible or not visible) or to make it the active layer. When the checkbox is cleared (\square), you can choose when the map will refresh by clicking the "Refresh Map" button.

Layers

The maps created in the GeoWBS Navigator are made up of layers of information.

Each layer contains two types of data:

- Spatial data: coordinates and locations that describe the map itself
- Attribute data: information related to the features on the map, such as city names and stream lengths

Attribute data are stored in a database that is referenced to the features found on the map layers. This information can be extracted using the various mapping tools found on the *Main Map* page. Spatial data are stored as physical locations on a map – either as points, lines or polygons (features that have area, such as counties or lakes). The data contained in each layer is identified by a distinct symbol.

Layers are composed of sets of similar information. For example, city locations and their related information (name, population, etc.) compose one layer ("Cities") while National Hydrography Dataset (NHD) streams make up another ("Streams"). In this way, it is possible to view specific pieces of information by controlling what layers are displayed on your map.

Layers available for use in the GeoWBS Navigator are displayed in nested form – similar to the way files are displayed in your e-mail program or in the file manager for your computer. Related layers are grouped into folders (e.g. "Streams" and "Lakes" are located in the "Hydrologic Layers" folder).

Layers can be added to or removed from the map view to customize your map.

Active and Inactive Layers

While using the tools available on the *Main Map* page of the GeoWBS Navigator, you will only be able to work with one layer at a time. The

layer you work with is referred to as the **active** layer. An active layer is one that has the focus of the Navigator. Active status is indicated by a filled in circle next to the layers' name (O). Inactive layers will have an empty circle (O). Only one layer can be active at a time. To activate a layer, click in the circle next to its name or click on the name of the layer (Figure 14.9).

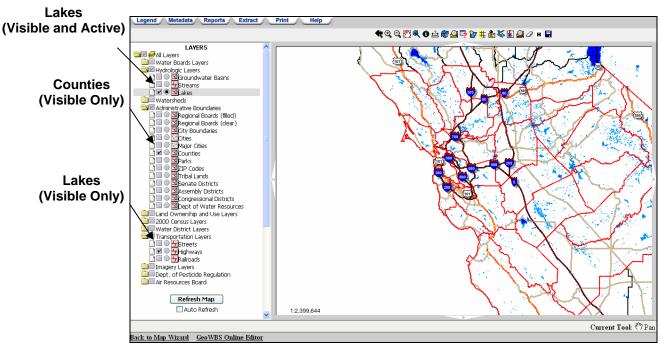
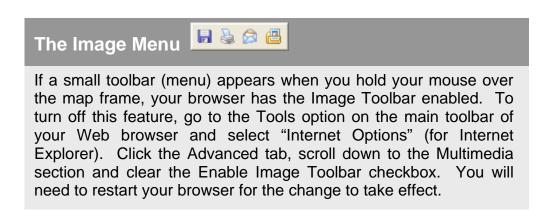


Figure 14.9 Active, Inactive, and Visible Layers on the Main Map Page

It is important to note which layer is active before attempting to manipulate the maps within the Navigator. The toolbar features will only work on the active layer. By default, the location category selected in Step 1 of the *Map Wizard* page will be designated as the active layer when your map is first created.



14.3.3 The Map Toolbar

The Map Toolbar contains the controls used to manipulate the size and shape of the map and the active layers (Figure 14.10).

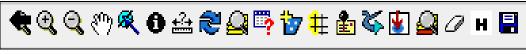


Figure 14.10 Map Toolbar

Each control can be placed into one of three categories:

- <u>Button</u> –Produces an immediate, visible change to the map view when clicked.
- <u>Tool</u> Manipulates the map view or extracts information from the active layer. The tool remains selected until you choose a different one. The Current Tool Indicator shows which tool is currently in use.
- <u>Function</u> Opens up a new window that allows you to make connections between different pieces of information or to delve more deeply into the underlying data.

Buttons

Return to Previous Extent – Redraws the map at the previous map extent. Click this button to go back to where you were before you zoomed or panned.

Refresh Map – Refreshes and reloads the map with new selected information. Try clicking this button if an error is displayed in the map frame as a troubleshooting strategy.

Zoom to Full Extent – Zooms to the full spatial extent of all of the themes (layers) in the map view. Selecting this button usually causes the map to zoom out and show the entire state of California.

<u>Zoom to Selected Features</u> – Zooms to the spatial extent of the selected features in the active theme. After you have selected particular features in a theme, click this button to zoom in on the area covered by the features you have selected.

Zoom to Active Layer – Zoom to the spatial extent of the active theme in your view. The themes in a view often have different spatial extents. Some themes may represent features located all over the map, while others may represent features found in particular areas on the map. With this button you can easily zoom in on the area covered by a particular theme that interests you. Before you click this button, make sure that the layer of interest is selected as the active layer (that it has a filled-in circle next to its name ($\textcircled{\ensuremath{\mathbb{P}}}$)).

Clear Selection – De-selects the highlighted areas from the map view.



<u>Hotlink</u> – Opens a view of the map in a new window.

Tools

Zoom in tool – To zoom in centered on a particular location on the map, click that position once with this tool. To zoom in to a particular area, click and drag a box over the area with this tool. Zooming in will show additional details on the map. Zooming in too far, however, will show little or no detail once you pass a certain scale.

Zoom out tool – To zoom out centered on a particular location on the map, click that position once with this tool. To zoom out to a particular area, click and drag a box over the area with this tool. As with the zoom in tool, zooming out too far will show little or no detail once you pass a certain scale.

<u>Pan tool</u> – Lets you pan (reposition) the view in the Map Frame by dragging the display in any direction with the mouse. To pan, click this tool, move the cursor anywhere over the view, click and hold down the mouse button, and drag in any direction. Release the mouse button to leave the view in the selected position.

Select Features tool – Use this tool to select features from the active layer on the map. This can be done either by clicking an individual feature (point, line or polygon) or by clicking and dragging a box around a set of features. Features that fall partly or wholly inside the box you define are selected. To select more than one feature, hold down the SHIFT key when you use the tool. Selected features can be acted upon using the Function controls.

1<u>Identify tool</u> – Use this tool to get information about features from the active layer on the map. When you click on a feature with this tool (or click and drag a box around a group of features), a window opens showing the attributes of that feature (e.g. a city or a stream reach). The attributes displayed depends on the characteristics of the type of feature you select. Clicking on the number in front of one of the selected features shown in the new window selects that feature on the map view.

Functions

<u>Measure tool</u> – This function allows you to calculate the distance between two or more points on the map.

Query Builder – You can use this tool to locate particular features of the active layer. The search works by creating search strings to locate features based on their attribute data.

Select by Theme – Use this function to select map features (from a non-active layer) that fall within or on selected features of the active layer (theme).

Buffer Tool – Creates a shaded "buffer" zone around selected features at a specified distance. Use a selection tool to select a feature or multiple features of interest. Next, select the buffer tool. The buffer tool can target a non-active layer to find features within a certain distance of selected feature(s) on the active layer.

<u>Street Address Matching Tool</u> – Allows you to search the "Streets" layer for a street address.

Stream Network Navigation – Used to find National Hydrography Dataset (NHD) stream reaches upstream or downstream from a selected reach.

Save Screen – Used to save the layer selection and map extent of the current view. Only one screen can be saved at a time.

To find out what a button, tool, or menu choice does while using the Navigator, move the cursor over it but do not select it. A brief description will appear at the mouse tip.

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14.3.4 Selecting Features in the Map View

It is often necessary to select map features before the various tools or functions can act upon them. Features can be selected by clicking on a single feature (e.g., a county or a stream reach) or by clicking and dragging a box around a group of features. All features that fall partly or wholly within the box will be selected.



Only features from the active layer can be selected.

How to select features:

- Select a layer from the Action Frame, make sure it is visible (grey box has a dark checkmark (I)), and click the open circle () to make it active (if it is not active already).
- 2. Use the Zoom in, Zoom out, or Pan tool(s) to navigate to the area of the map in which you wish to make a selection.
- 3. Click on the Select Features tool ($\overset{\textcircled{}}{\overset{\textcircled{}}}$) on the toolbar.
- 4. Click on or click and drag a box around the feature(s) you wish to select.

Figure 14.11 shows the selection from the "Lake" layer by the 'click and drag' method of feature selection. The layers shown below are the same as those in Figure 14.9.

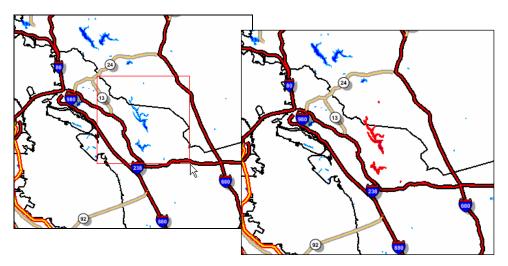


Figure 14.11 Map Frame Showing Feature Selection (left) and the Resulting Selection (right) for the Lakes layer.

Selected features stay selected even if a new layer is activated. They will remain selected until features on another layer are selected or until you click anywhere outside of the selected features.

14.4 A Closer Look at the Map Functions

Section 14.3.3 gave a brief overview of the function tools on the map toolbar. The sections below cover each tool individually in greater detail.

14.4.1 Measure Tool

The measure tool can be used to measure the distance between two or more points on the map. Click the measure tool control to open the Measure tool frame in the upper corner of the map frame. Select the appropriate units from the Measure Units drop-down menu.

Select the starting point by clicking on the map. Next, click a second point on the map. Click additional points on the map as desired.

The Measure tool frame displays the total distance measured and the distance between the last two selected points (Figure 14.12).

Click the "Start Over" button to clear all selected points and the fields in the Measure tool frame.

Click either the zoom in or zoom out tool to exit the Measure tool function.

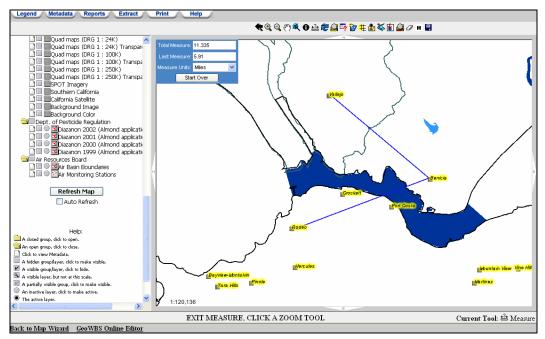


Figure 14.12 Measure Tool Function

14.4.2 Query Builder

Clicking on the Query control opens the "Query Builder Panel" in a new window (Figure 14.13). As with the rest of the Map Functions, the Query Builder only works with the active layer. The Query Builder Panel is used to create search terms to identify a feature or set of features from the active layer using attribute data.

Qu	iery Builder F	Panel						
Select a Field value and an Operator, then type a value in the Value box. You may check the Update Sample Value checkbox to see how the data is formatted. If the data includes quote(s), make sure you include thm in your typed value.								
For using wildcards, you need % - to give you zero to many ch ? - to give you single character	naraters	operator and use the following:						
Example: CNTY_NAME LIKE 'S (Sacramento, San Mateo, etc		nties beginning with Sa						
Field	Operator	Value						
CNTY_NAME CNTY_FIPS CNTY	=	date Sample Value						
Replace Query Str	ring	Add to Query String						
	And Or No	t)						
		8						
Exe	ecute Clear	Close						

Figure 14.13 Query Builder Panel

The Query Builder Panel is divided into three sections, each with an associated function.

In the first section, a search string is constructed using the *Field*, *Operator* and *Value* fields. To create a search string:

- Select a field from the *Field* drop-down menu (e.g., "CNTY_NAME"). All fields available for a given layer will be displayed in the drop-down menu.
- 2. Select an operator from the *Operator* dropdown menu (e.g., "="). Table 14.2 describes the operators and their functions.
- 3. Type an appropriate value into the *Value* field (e.g., "Los Angeles"). To see a list of all available options for the field you

have selected, select the "Update Sample Value" checkbox below the *Value* field. From here, you can select a value from the resulting drop-down menu (Figure 14.14). Examples of search strings are shown below.

Operator	Description
=	"equal to"
<	"less than"
>	"greater than"
<=	"less than or equal to"
>=	"greater than or equal to"
LIKE	Used in conjunction with a Field name, it will find a part of a string. Use "%" or "?" as wildcards to stand in place of the missing characters. "%" represents any character from zero to many ("Fen", or "lancast" or "bath"). "?" represents any single character ("r"). The LIKE search is case sensitive.

Table 14.2 Query Operators

Field	Operator	Value	
CNTY_NAME	=	'Kings'	^
CNTY_FIPS	<	'Lake'	_
CNTY	>	'Lassen'	
	<=	'Los Angeles'	
	>=	'Madera'	~
	LIKE	☑ Update Sample Value	

Figure 14.14 Selecting the "Update Sample Value" Checkbox

The second section of the Query Builder Panel allows you to add your search string to the query and combine it with additional search strings. To add the current search string to the query (the combination of values displayed in the first section), click the "Add to Query String" button. The search string will appear in the query builder box in the third section of the Query Builder Panel (Figure 14.15).

If there is already a search string present in the query builder box, the "Add to Query String" button will add a new string to the existing string. Clicking the "Replace Query String" button will replace the search string(s) already present with the new search string.

The "(", "And", "Or", "Not", and ")" buttons below the Add and Replace buttons allow you to combine search strings to further refine your search term. The "And", "Or", and "Not" buttons act as Boolean operators. The parenthesis separate search strings and direct the order of the search. Click the "Clear" button to clear the search terms in the Query Builder box. To initiate the query, click the "Execute" button. Click the "Close" button to close the window without executing the search.

Query Builder Panel					
Select a Field value and an Operator, then type a value in the Value box. You may check the Update Sample Value checkbox to see how the data is formatted. If the data includes quote(s), make sure you include thm in your typed value.					
For using wildcards, you needs to select the LIKE operator and use the following: % - to give you zero to many charaters ? - to give you single character					
Example: CNTY_NAME LIKE 'Sa%' returns all counties beginning with Sa (Sacramento, San Mateo, etc).					
Field Operator Value					
CNTY_NAME CNTY_FIPS CNTY CNTY CNTY CNTY CNTY CNTY CNTY CNTY					
Replace Query String Add to Query String					
(And Or Not)					
CNTY_NAME = 'Los Angeles'					
Execute Clear Close					

Figure 14.15 Adding a Search String to the Query Builder Box

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The Query function will only search for what is shown in the query builder box. An error appears if you click the "Execute" button and nothing has been added to the query builder box.

Query Syntax: Examples

Examples of query syntax:

AREANAME = 'Brismoor'

Query builder will search for features in the active layer that have an AREANAME equal to 'Brismoor'.

Searching the National Hydrography Dataset Lakes layer for:

NAME LIKE 'Be%'

Will find 'Beaver Creek' but not 'Carberry Creek'

Figure 14.16 shows the results of a query for "WBNAME = 'Suisun Marsh Wetlands'" with "303d Wetlands" as the active layer.

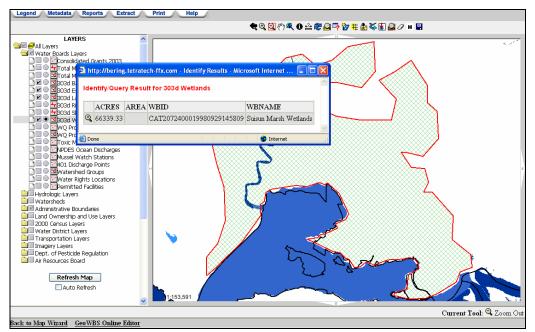


Figure 14.16 Query Results for 303d Wetland

When a query is executed, the underlying data for the features that match the query will be displayed in a new window and the features will be highlighted (selected) in the map frame. Click the magnifying glass in the first column next to the feature of interest to zoom in on that feature within the map frame.

14.4.3 Select by Theme

The Select by Theme function finds map features from inactive layers that are on or in a selected area from the active layer. To use the Select by Theme function, follow these steps:

- 1. Activate the reference layer (e.g., "Mussel Watch Stations") if it is not already activated
- 2. Use the select tool (^(*)) and click or click and drag a box around the relevant features on the active layer
- 3. Click the "Select by Theme" control (127). The Select by Theme window opens (Figure 14.17)
- 4. Select the target layer from the list box (e.g., "Counties"). All layers available in the Layers frame except for the active layer appear in the list

5. Click the "Select by Theme" button to activate the selection or the "Close" button to terminate the search

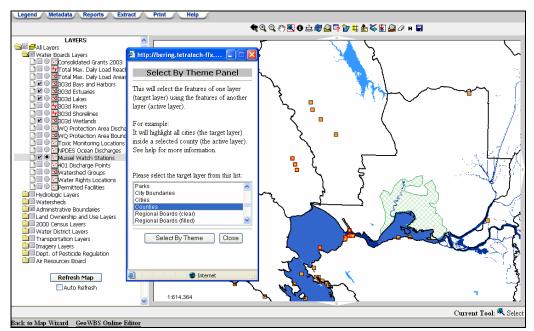


Figure 14.17 Select By Theme Panel

The map highlights (selects) the target layer where it intersects with the selected features from the active layer. A new window opens showing a list of all selected features (Figure 14.18). Click the magnifying glass in the first column next to the feature of interest to zoom in on that feature within the map frame.

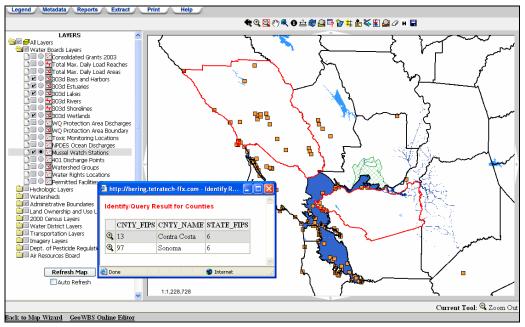


Figure 14.18 Results of Select By Theme

14.4.4 Buffer Tool

The Buffer Tool can be used to create a variable sized shaded area around a selected feature or features in the active layer. To use the Buffer Tool:

- 1. Select the map layer to be buffered as the active layer (should have a filled in circle ()) next to its name in the Action Frame)
- 2. Click the "Select" tool and click or click and drag a box around the relevant features on the active layer to highlight them
- 3. Click on the Buffer Tool control (7). The Create Buffer Panel will open in a new window (Figure 14.19)

Create Buffer Panel					
Buffer Distance :					
Buffer Unit :	Miles	*			
Target Layer :	None	*			
Create Buffer Close					

Figure 14.19 Create Buffer Panel

- 4. Within the Create Buffer Panel, select the "Buffer Distance" (how far around the object the shaded buffer will be drawn), the "Buffer Unit" (unit of measure used for determining the buffer distance), and the "Target Layer" (if any)
- 5. Click the "Create Buffer" button to create the buffer or the "Close" button to end the operation

The map refreshes to show a shaded area around the features selected in the active layer. If a Target Theme was selected, the features in the Target Theme, or layer, that fall within the buffer zone around the selected features will be highlighted.

Figure 14.20 shows a buffer that was created around the search results from the Query Builder (with a search for Suisun Marsh Wetlands). A 5 mile buffer was found around the selected feature with 303d Lakes selected as the target theme. Lake Herman was identified as a feature that fell within this buffer. A new window opened to show the attribute data for the selected features of the target theme (Figure 14.21).

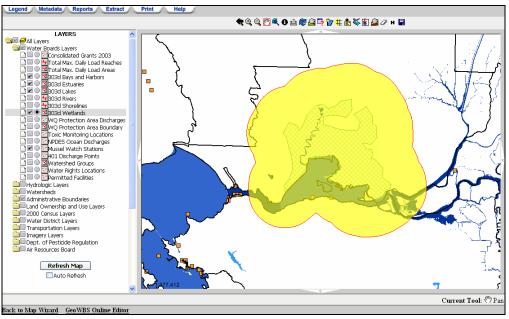


Figure 14.20 5 Mile Buffer Around Sisun Marsh Wetlands

de	ntify/Qı	lery Resul	t for 303d	Lakes							
	AREA	GNIS_ID	IFDKEY	LAKES_	LAKES_ID	NAME	PERIMETER	WATER	WBID	WBNAME	WRCBLAKES
2		06014570	4772	4772	8844	Herman, Lake	4066.13828	Y	CAL2072103019980928163418	Lake Herman	3773

Figure 14.21 Attribute Data From the Selected Features of the Targeted Layer

Click the magnifying glass in the first column next to the feature of interest to zoom in on that feature within the map frame.

14.4.5 Street Address Matching Tool

This tool allows you to find an address on the "Streets" Layer.



Before you attempt to use the street address matching tool, be sure to zoom in to the correct extent. The checkbox next to the "Streets" layer should have a dark checkmark in it (\square) (not a magnifying glass (\square)).

To find a street address using the Street Address Matching Tool:

- 2. Click on the Street Address Matching Tool (). The Street Address Matching Panel will open in a new window (Figure 14.22)

- 3. Type in the street address information using the three fields in the Panel. All searches must include a street address and street name as well as a ZIP code. Cross Street information is optional but will allow for more robust searches
- 4. Click the "Locate Address" button to search for the street address or click the "Close" button to end the operation

Street Address Matching Panel					
Street Name : 3600 Eagle Crest					
Zip Code (5 digit) : 95843					
Cross Street :					
Locate Address Close					

Figure 14.22 Street Address Matching Panel

5. Street Address information appears in a new window and the address is highlighted with a star on the map (Figure 14.23).

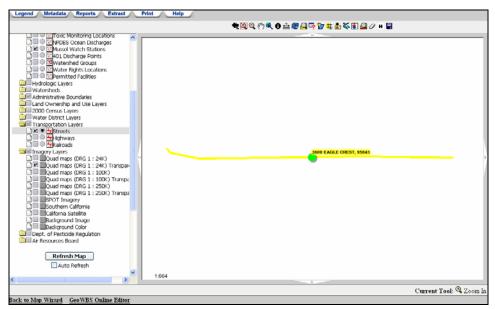


Figure 14.23 Street Address Matching Results

14.4.6 Stream Network Navigation

This tool allows you to search for stream reaches both upstream and downstream of a selected reach. To use the Stream Network Navigation tool: L B

- 1. Make the "National Hydrography Dataset Streams" layer visible and the active layer (should have a filled in circle () next to its name in the Action Frame).
- 2. Select a stream using the "Select Features" tool (Figure 14.24).
- The Stream Network Navigation tool will only work on one stream reach at a time. Be sure to only select one stream reach with the selection tool.

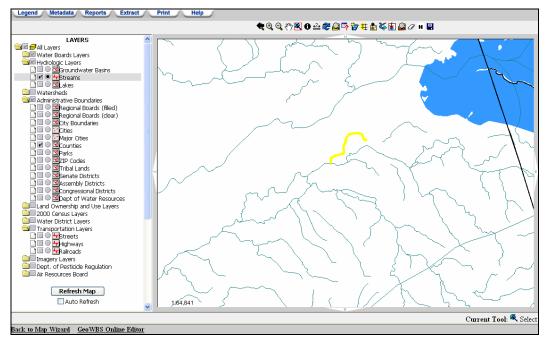


Figure 14.24 Select a Stream Reach

 Click the Stream Network Navigation control on the toolbar (*). The Stream Network Navigation Panel opens in a new window (Figure 14.25).

Stream Network Navigation Panel				
Direction : Down Level : One Level D	Down			
Navigate Stream Network Close				

Figure 14.25 Stream Network Navigation Panel

4. Select the "Direction" and "Level" from the drop-down menu.

5. Click the "Navigate Stream Network" button to execute the action or click the "Close" button to close the window to cancel the action.

The stream reach in the direction and at the level you selected will be highlighted on the screen (Figure 14.26). A new window opens to show a list of the stream reaches that satisfy the search criteria. Clicking on the stream identifiers in the results window selects the stream reaches in the Map frame.

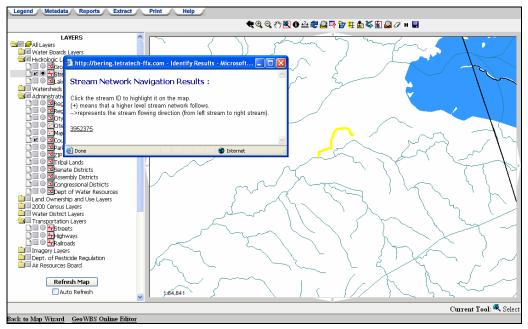


Figure 14.26 Stream Network Navigation Search Results

14.4.7 Save Screen Function

Click the Save Screen icon () to open the Save or Retrieve Map Properties window (Figure 14.27).

Save or Retrieve Map Properties				
Note: Cookies must be enabled on your browser to use this feature				
Save Map Retrieve Map				
Note: The application saves one map at a time. Saving the current map will overwrite the previously saved map.				

Figure 14.27 Save or Retrieve Map Properties Window

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This tool allows you to save the current layer settings and map extent and retrieve it at a later time. To use this tool, click the "Save Map" button to save the current map properties. As you continue to change and edit the map view, you can return to the saved map extent and layer settings by opening the Save Screen feature again and clicking the "Retrieve Map" button.

Only one map extent can be saved at a time. The map extent is only accessible through the Save Screen function - no image file will be saved to your computer.

In order for Save Screen function to work, you must have cookies enabled on your Web browser.

Using one or a combination of the features described above allows for the creation of customized maps. The following sections cover the additional Action Tabs and how they can be used to gain a deeper understanding of the information available through the GeoWBS Navigator.

14.5 Beyond the Layers Tab

When you have customized the map to suit your needs, the tabs along the top of the page allow you to move beyond the page view. Each tab (aside from the Layers tab, which you have been working with thus far) opens a new window with additional tools to obtain or print data relating to your customized map.

14.5.1 Legend Tab

Clicking the Legend tab refreshes the Action frame to show the symbols used for the current visible layers shown on your map (Figure 14.28).

	Legend Counties
	Cities
	City Boundaries
$\sim N$	Streams
	Mussel Watch Stations
	Total Max. Daily Load Reaches
	303d Estuaries

Figure 14.28 Map Legend for the 303(d) Layers

14.5.2 Metadata Tab

Clicking the Metadata Tab opens a new window that lists all of the available map layers (Figure 14.29).

Metadata for GeoWBS Navigator				
Water Boards Layers				
Consolidated Grants 2003	View Metadata			
Total Max. Daily Load Reaches	View Metadata			
Total Max. Daily Load Areas	View Metadata			
303d Bays and Ports	View Metadata			
303d Estuaries 303d Lakes	View Metadata			
	View Metadata			
303d Rivers	View Metadata			
303d Shorelines	View Metadata			
Wetlands	View Metadata			
WQ Protection Area Discharges	View Metadata			
WQ Protection Area Boundary	View Metadata			
NPDES Ocean Discharges	View Metadata			
R8 Revised Boundaries	View Metadata			

Figure 14.29 Metadata Window

Next to each layer is a "View Metadata" link. Clicking on the link opens a new window showing the metadata for that layer (Figure 14.30). Metadata is "data about data" and describes the information contained in the selected layer.



Figure 14.30 Metadata for the Streets Layer

Click the "Close Window" hyperlink to close the Metadata window.



Metadata can also be accessed for a particular layer by clicking the (\Box) icon next to a layer within the Action frame.

14.5.3 Reports Tab

GeoWBS Navigator has several pre-defined reports. Clicking on the Reports Tab opens a new window where these Report options are displayed as hyperlinks (Figure 14.31).

Available Reports:					
1) <u>TMDL Activity near Permit Facilities</u> 2) Grant Project					
 a) 303(d) List Impairments by Pollutant(s) a) 303(d) List Impairments by Pollutant Category 					
5) 303(d) List Impairments by Source(s)					
6) 303(d) List Impairments by Source Category					

Figure 14.31 Available Reports Window

The six available reports are described below.

TMDL Activity near Permit Facilities Report

The "TMDL Activity near Permit Facilities" report requires the input of latitude and longitude coordinates. Any latitude and longitude coordinates within the state of California can be used. The values are matched to a watershed. A table is generated that lists the related water board, watershed, and waterbodies with TMDL activities (along with their listed pollutants). The Main Map page refreshes to show permit facilities within the selected watershed and the waterbodies with TMDL activities are highlighted.

The first page of the "TMDL Activity near Permit Facilities" report prompts you to input latitude and longitude coordinates for a permit facility (Figure 14.32). Click the "Go Back" button at any time to return to the list of available reports.

Report - TMDL activity near Permit Facilities					
Enter Latitude for Permit Facility:]N				
Enter Longitude for Permit Facility:	W (Enter Negative Number for Longitude)				
Generate Go Back					

Figure 14.32 Input Latitude and Longitude Coordinates

Input coordinates that mark the permit facility of interest or coordinates that fall within the associated watershed and then click the "Generate" button to initiate the Report builder. Inputting the coordinates (39.75; -121.75) generates the following output (Figure 14.33).

When inputting latitude and longitude the minus (-) sign must be entered manually. The GeoWBS Navigator will not assume a negative number.

Report - TMDL activity near Permit Facilities					
Enter Latitude for Permit Facility: 39.75 N Enter Longitude for Permit Facility: 121.75 W (Enter Negative Number for Longitude)					
Generate Go Back					
REGIONAL BOARD	REGIONAL BOARD BASIN PLAN WATERSHED	303(d) LISTED WATERS WITH TMDL ACTIVITY IN THIS WATERSHED	303(d) LISTED WATER ID	WATER TYPE	LISTED POLLUTANT(S
5	50420	Black Butte Reservoir Saoramento River (Red Bluff to Knights Landing) Saoramento River (Cottonwood Creek to Red Bluff)	CAL5043200020011128135130 CAR5042007020021209153351 CAR5201000019990126140752	Lakes/Reservoirs Rivers/Streams Rivers/Streams	Mercury Unknown Toxicity Unknown Toxicity

Figure 14.33 Report Output

The *Main Map* page refreshes to show the permit facilities listed in the tables and the associated 303(d) listed waterbodies (Figure 14.34). The point indicated by the latitude and longitude coordinates will be highlighted with a cross symbol (+).

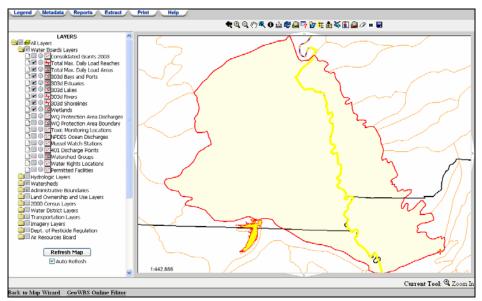


Figure 14.34 Main Map Page Display

Enter a new set of latitude and longitude coordinates to generate a new report.

Grant Project Report

The "Grant Project" report also requires the input of latitude and longitude coordinates as well as a buffer distance. This report matches the

coordinates to a watershed. A table is generated that lists the grant projects and 303(d) listed waters in the watershed of the proposed or existing grant project (as indicated by the latitude and longitude coordinates) as well as a table that indicates which grant projects fall within the selected buffer distance. The *Main Map* page refreshes to show all 303d listed waterbodies within the watershed as well as the existing grant projects within a specified radius (buffer distance).

To create a "Grant Project" report, click on the link within the Available Reports window (Figure 14.35). Enter latitude and longitude coordinates for the proposed grant project or associated watershed. The number entered into the third field will create a buffer around the point specified by the coordinates and existing grant projects within that buffer will be highlighted. Click the "Go Back" button at any time to return to the list of available reports.

Grant Project Report						
Latitude for Proposed Grant Project:		N				
Longitude for Proposed Grant Project:		W (Enter Negative Number for Longitude)				
Select existing grant projects within	0	miles of the proposed project.				
Generate Go Back						

Figure 14.35 Input Values for the Report

The input of the coordinates (39.75) and (-121.75) with a buffer of 20 miles produces the following output (Figure 14.36).

			Grant Project	t Repo	ort			
Latitude for Proposed Grant Project: 39.75 Longitude for Proposed Grant Project -121.75 Select existing grant projects within 20			N W (Enter Negative Number for Longitude) miles of the proposed project.					
Generate Go Back Grant Projects and 303d Listed Waters in the Watershed of the Proposed or Existing Grant Project REGIONAL REGIONAL BOARD BASIN EIMINING REDGRAM GRANT PROJECTS WITHIN THE 303(d) LISTED WATERS WITHIN THE WATERSHED 2020(1) LISTED WATER IN WATER TYPE								
		FUNDING PROGRAM		303(d) i		303(d) LISTED WATER ID	WATER TYPE	
BOAR		FUNDING PROGRAM Proposition 50 CALFE Watershed Program Proposition 50 CALFE Watershed Program Proposition 13 CALFE Watershed Program	WATERSHED D Chico Urban Streams Alliance Clean Creeks Project S acramento River Watershed Program - Program Support	Saoram Saoram	13: ELOWATENS WITHIN THE WATENSHED (for the point entered) ento River (Red Bluff to Knights Landing) ento River (Cottonwood Creek to Red Bluff) utte Reservoir	303(d) LISTED WATER ID CAR5201000019990126140752 CAR5042007020021209153351 CAL5043200020011128135130	WATER TYPE Rivers/Streams Rivers/Streams Lakes/Reservoirs	
BOAR 5 Grant P	50420	POUDING PROSING Proposition 60 CALFE Watershed Program Proposition 50 CALFE Watershed Program Proposition 13 CALFE Watershed Program Aling Watersheds Im ASIN PLAN WATERSHED	WATERSHED Chico Urban Streams Alliance Clean Creeds Project D Sacamento River Wateshed Program- Program Support D Integrated Geosystem Improvements for Sharta County Watesheds starta County Watesheds utersected by the Buffer FUNDING PROGRAM	Saoram Saoram	(for the point entered) ento River (Red Bluff to Knights Landing) ento River (Cottonwood Creek to Red Bluff) utte Reservoir GRANT PROJECTS WITHIN	CAR520 10000 19990 128 140762 CAR50420702002 120 153961 CAL504320002001 1128 136 130 THE SURROUNDING WATERSHED	Rivers/Streams Rivers/Streams Lakes/Reservoirs	
BOAR 5 Grant P	20 PLAN WATERSHED	Prototiko Prodskaw Proposition 50 CALFE Watershed Program Proposition 50 CALFE Watershed Program Proposition 13 CALFE Watershed Program	WATERSHED D Chico Urban Streams Alliance Clean Creeds Project D Sacaramento River Wateshed Program - Program Support D Integrated Ecosystem Improvements for Shasta County Watesheds	Saoram Saoram	(for the point entered) ento River (Red Bluff to Knights Landing) ento River (Cottonwood Creek to Red Bluff) utte Reservoir	CAR520 10000 19990 128 140752 CAR50420702002 120 153361 CAL504320002001 1128 136 130 THE SURROUNDING WATERSHED s Project gram Support	Rivers/Streams Rivers/Streams Lakes/Reservoirs	

Figure 14.36 Report Output

Click the "Print" hyperlink in the upper right-hand corner to print the table.

The *Main Map* page refreshes to show the grant projects located within and around the selected watershed and associated 303(d) listed waterbodies (Figure 14.37). Grant projects that fall within the specified buffer distance are highlighted with yellow stars (\square). The point indicated by the latitude and longitude coordinates will be highlighted with a cross symbol (\dashv).

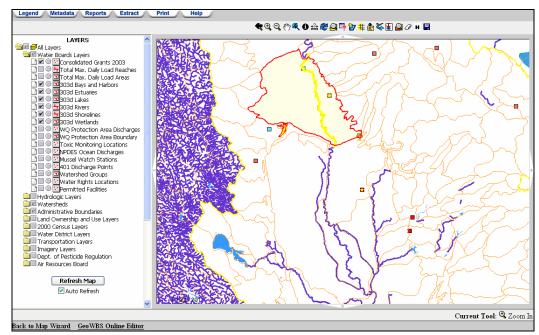


Figure 14.37 Main Map Page Display

Enter a new set of coordinates and a new buffer radius to generate a new report.

303(d) List Impairments by Pollutant(s) Report

The "303(d) List Impairments by Pollutant(s) Report" generates a map of 303d listed waterbodies impaired for a particular pollutant. This information can be displayed for the entire state or a selected Regional Board. Types of waterbodies (or all) can be selected and one or many pollutants can be selected. A table is generated that shows the 303(d) listed waterbodies for the selected state or Region that have been listed for the selected waterbody type and pollutants.

To create a "303(d) List Impairments by Pollutant(s) Report", click the appropriate link within the Available Reports window (Figure 14.38).

Report - Impairments by Pollutant(s)				
Show impairments for				
 the entire State or for Regional board 1 - North Coast 2 - San Francisco Bay 3 - Central Coast 4 - Los Angeles 				
where waterbody type is All Bays and Harbors Coastal Shorelines Estuaries for the following pollutant(s) (select between 1 - 50 pollutant(s))				
1,2,4-trimethylbenzene Abnormal Fish Histology Acid Mine Drainage Aldrin (tissue) Algae Aluminum				
Generate Go Back				

Figure 14.38 Search Criteria

There are three steps required before a report can be created:

- Click the appropriate radio button to select whether you would like to generate a report for the entire state or of a single Regional board. If you select Regional Board, use the menu to select which Regional Board you would like to view
- 2. Select the waterbody type you would like to see using the menu. The default is "All"
- 3. Select one or more pollutants to display on the map. Choose multiple values by holding down the "Ctrl" key (apple key on a Mac) while making your selections

When you have finished making your selections click the "Generate" button.

The selection of Regional Board 1, Rivers/Streams and Temperature produces the following output (Figure 14.39):

	2002 CA 303(d) LISTED WATERS By Pollutants: Temperature									
Nater Tyj Fotal unio	l - North Coast pe: Rivers/Streams que waterbodies showr c 30, 2005	1: 36								
Regional Board	WB ID	303(d) Listed Water	WB Type	Pollutant	Pollutant Category	Source	Estimated Size	Size Unit	TMDL Priority	TMDL Completion
1	CAR1133004319980708174237	Big River, Mendooino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Drainage/Filling Of Wetlands	225	Miles	Low	
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Erosion/Siltation	225	Miles	Low	
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Habitat Modification	225	Miles	Low	
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Nonpoint Source	225	Miles	Low	
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Removal of Riparian Vegetation	225	Miles	Low	
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Temperature	Miscellaneous	Streambank Modification/Destabilization	225	Miles	Low	
1	CAR1111103219980709182643	Eel River Delta, Eel River HU, Lower Eel River HA	Rivers/Streams	Temperature	Miscellaneous	Nonpoint Source	426	Miles	Medium	
1	CAR1111103219980709182643	Eel River Delta, Eel River HU, Lower Eel River HA	Rivers/Streams	Temperature	Miscellaneous	Removal of Riparian Vegetation	426	Miles	Medium	
1	CAR1117104419980710113432	Eel River, Middle Fork, Eel River HU, Middle Fork HA	Rivers/Streams	Temperature	Miscellaneous	Nonpoint Source	1071	Miles	Medium	
1	CAR1117104419980710113432	Eel River, Middle Fork, Eel River HU, Middle Fork HA	Rivers/Streams	Temperature	Miscellaneous	Removal of Riparian Vegetation	1071	Miles	Medium	

Figure 14.39 Report Output

Click the "Print" hyperlink in the upper right-hand corner (scroll to top of page to find the "Print" hyperlink) to print the generated report.

The *Main Map* page refreshes to show the 303(d) listed waterbodies in the selected Region (or the entire state) listed for the selected pollutant(s) (Figure 14.40).

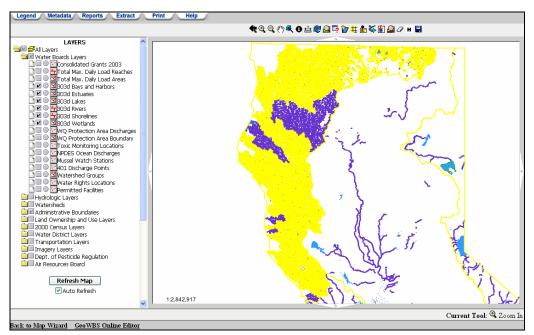


Figure 14.40 Main Map Page Display

Click the "Go Back" button at any time to return to the list of available reports.

Enter a new set of values to generate a new report.

303(d) List Impairments by Pollutant Category Report

The "303(d) List Impairments by Pollutant Category Report" generates a map of 303d listed waterbodies impaired for a particular pollutant category, in a similar way to the Impairments by Pollutant Report. This information can be displayed for the entire state or a selected Regional Board. Types of waterbodies (or all) can be selected and one or many pollutant categories can be selected. A table is generated that shows the 303(d) listed waterbodies for the selected state or Region that have been listed for the selected waterbody type and pollutant category.

To create a "303(d) List Impairments by Pollutant Report", click the appropriate link within the Available Reports window (Figure 14.41).



Figure 14.41 Search Criteria

There are three steps required before a report can be created:

 Click the appropriate radio button to select whether you would like to generate a report for the entire state or of a single Regional board. If you select Regional Board, use the menu to select which Regional Board you would like to view

- 2. Select the waterbody type you would like to see using the menu. The default is "All"
- 3. Select one or more pollutant categories to display on the map. Choose multiple values by holding down the "Ctrl" key (apple key on a Mac) while making your selections

When you have finished making your selections click the "Generate" button.

The selection of Regional Board 1, Rivers/Streams and Sediment produces the following output (Figure 14.42).

	2002 CA 303(d) LISTED WATERS By Pollutant Category: Sediment									
Vater Ty otal un	1 - North Coast ype: Rivers/Streams ique waterbodies show ac 30, 2005	n: 37								
Regional Board	WB ID	303(d) Listed Water	WB Type	Pollutant Category	Pollutant	Source	Estimated Size	Size Unit	TMDL Priority	TMDL Completic
1	CAR1134001319980708180108	Albion River, Mendocino Coast HU, Albion River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Logging Road Construction/Maintenance	77	Miles	High	2003
1	CAR1134001319980708180108	Albion River, Mendocino Coast HU, Albion River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Nonpoint Source	77	Miles	High	2003
1	CAR1134001319980708180108	Albion River, Mendocino Coast HU, Albion River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Silviculture	77	Miles	High	2003
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Disturbed Sites (Land Develop.)	225	Miles	High	2003
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Logging Road Construction/Maintenance	225	Miles	High	2003
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Nonpoint Source	225	Miles	High	2003
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Road Construction	225	Miles	High	2003
1	CAR1133004319980708174237	Big River, Mendocino Coast HU, Big River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Silviculture	225	Miles	High	2003
1	CAR1111103219980709182643	Eel River Delta, Eel River HU, Lower Eel River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Nonpoint Source	426	Miles	Medium	
1	CAR1111103219980709182643	Eel River Delta, Eel River HU, Lower Eel River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Range Grazing-Riparian and/or Upland	426	Miles	Medium	
1	CAR1111103219980709182643	Eel River Delta, Eel River HU, Lower Eel River HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Silviculture	426	Miles	Medium	
1	CAR1117104419980710113432	Eel River, Middle Fork, Eel River HU, Middle Fork HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Erosion/Siltation	1071	Miles	Medium	
1	CAR1114106119990601095147	Eel River, Middle Main Fork, Eel River HU, Middle Main HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Construction/Land Development	674	Miles	Medium	
1	CAR1114106119990601095147	Eel River, Middle Main Fork, Eel River HU, Middle Main HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Erosion/Siltation	674	Miles	Medium	
1	CAR1114106119990601095147	Eel River, Middle Main Fork, Eel River HU, Middle Main HA	Rivers/Streams	Sediment	Sedimentation/Siltation	Habitat Modification	674	Miles	Medium	

Figure 14.42 Report Output

Click the "Print" hyperlink in the upper right-hand corner (scroll to top of page to find the "Print" hyperlink) to print the generated report.

Click the "Go Back" button at any time to return to the list of available reports.

The *Main Map* page refreshes to show the 303(d) listed waterbodies in the selected Region (or the entire state) listed for the selected pollutant categories (Figure 14.43).

Enter a new set of values to generate a new report.

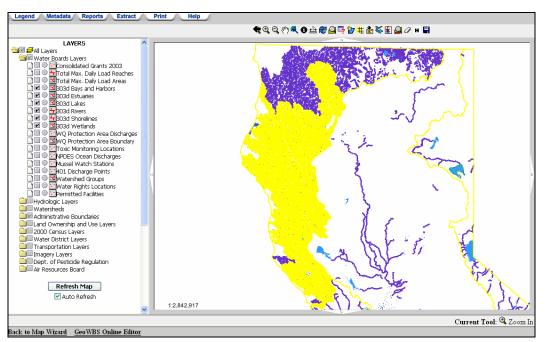


Figure 14.43 Main Map Page Display

303(d) List Impairments by Source(s) Report

The "303(d) List Impairments by Source(s) Report" generates a map of 303d listed waterbodies impaired by a particular pollutant source. This information can be displayed for the entire state or for a selected Regional Board. Types of waterbodies (or all) can be selected and one or many pollutant sources can be selected. A table is generated that shows the 303(d) listed waterbodies for the selected state or waterbody that have been listed for the selected waterbody type and pollutant source.

To create a "303(d) List Impairments by Source(s) Report", click the appropriate link within the Available Reports window (Figure 14.44).

There are three steps required before a map can be created:

- 1. Click the appropriate radio button to select whether you would like to see a map of the entire state or a map of a single Regional board. If you select Regional Board, use the dropdown menu to select which Regional Board you would like to view;
- 2. Select the waterbody type you would like to show using the dropdown menu. The default is "All"; and
- 3. In the last step, select one or more pollutant sources to display on the map. Choose multiple values by holding down the "Ctrl" key (apple key on a Mac) while making your selections.

2002 CA 303(d)Listed Waters by Source(s)				
Show impairments for				
 the entire State or for Regional board 1 - North Coast 2 - San Francisco Bay 3 - Central Coast 4 - Los Angeles 				
where waterbody type is All Bays and Harbors Coastal Shorelines Estuaries				
for the following source(s) (select between 1 - 50 source(s))				
Acid Mine Drainage Agricultural Return Flows Agricultural Water Diversion Agriculture Agriculture-animal Agriculture-grazing				
Generate Go Back				

Figure 14.44 Search Criteria

When you have finished making your selections, click the "Generate" button. The selection of Regional Board 2, Rivers/Streams and Agriculture produces the following result (Figure 14.45).

	2002 CA 303(d) LISTED WATERS By Sources: Agriculture									
Vater Type:	San Francisco Bay Rivers/Streams e waterbodies shown: 6), 2005									
Regional Board	WB ID	303(d) Listed Water	WB Type	Source	Source Category	Pollutant	Estimated Size	Size Unit	TMDL Priority	TMDL Completion
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	17	Miles	Low	
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	Agriculture	AGRICULTURE	Pathogens	17	Miles	Low	
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	Agriculture	AGRICULTURE	Sedimentation/Siltation	17	Miles	Medium	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	Agriculture	AGRICULTURE	Pathogens	65	Miles	Low	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	65	Miles	Medium	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	Agriculture	AGRICULTURE	Sedimentation/Siltation	65	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	22	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	Agriculture	AGRICULTURE	Pathogens	22	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	Agriculture	AGRICULTURE	Sedimentation/Siltation	22	Miles	Medium	
2	CAR2063004020020916200425	Petaluma River (tidal portion)	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	1.1	Miles	Medium	
2	CAR2063004020020916200425	Petaluma River (tidal portion)	Rivers/Streams	Agriculture	AGRICULTURE	Pathogens	1.1	Miles	Medium	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	Agriculture	AGRICULTURE	Pathogens	30	Miles	Low	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	30	Miles	Medium	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	Agriculture	AGRICULTURE	Sedimentation/Siltation	30	Miles	Medium	
2	CAR2011201319980928173807	Walker Creek	Rivers/Streams	Agriculture	AGRICULTURE	Nutrients	16	Miles	Medium	
				Aariculture		Sedimentation/Siltation	16	Miles	Medium	

Figure 14.45 Report Output

Click the "Print" hyperlink in the upper right-hand corner (scroll to top of page to find the "Print" hyperlink) to print an image of the map and table.

Click the "Go Back" button to return to the list of available reports.

The *Main Map* page refreshes to show the 303(d) listed waterbodies in the selected Region (or the entire state) listed for the selected pollutant categories (Figure 14.46).

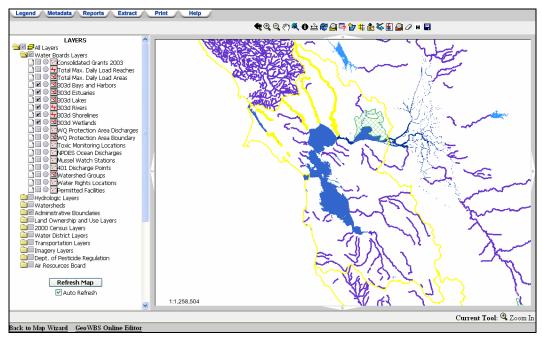


Figure 14.46 Main Map Page Display

Enter a new set of values to generate a new report.

303(d) List Impairments by Source Category Report

The "303(d) List Impairments by Source Category Report" generates a map of 303d listed waterbodies impaired by a particular pollutant source category. This information can be displayed for the entire state or for a selected Regional Board. Types of waterbodies (or all) can be selected and one or many pollutant sources can be selected. A table is generated that shows the 303(d) listed waterbodies for the selected state or waterbody that have been listed for the selected waterbody type and pollutant source category.

To create a "303(d) List Impairments by Source Category Report", click the appropriate link within the Available Reports window (Figure 14.47).

There are three steps required before a map can be created:

- 1. Click the appropriate radio button to select whether you would like to see a map of the entire state or a map of a single Regional board. If you select Regional Board, use the dropdown menu to select which Regional Board you would like to view;
- 2. Select the waterbody type you would like to show using the dropdown menu. The default is "All"; and
- 3. In the last step, select one or more pollutant source categories to display on the map. Choose multiple values by holding down the "Ctrl" key (apple key on a Mac) while making your selections.

2002 CA 303(d)Listed Waters by Source Category					
Show impairments for					
 the entire State or for Regional board 1 - North Coast 2 - San Francisco Bay 					
3 - Central Coast 4 - Los Angeles					
where waterbody type is All Bays and Harbors Coastal Shorelines Estuaries					
for the following source category AGRICULTURE ATMOSPHERIC DEPOSITION CONSTRUCTION/LAND DEVELOPMENT GROUNDWATER HABITAT MODIFICATION HYDROMODIFICATION					
Generate Go Back					

Figure 14.47 Search Criteria

When you have finished making your selections, click the "Generate" button. The selection of Regional Board 2, Rivers/Streams and Agriculture produces the following result (Figure 14.48).

Click the "Print" hyperlink in the upper right-hand corner (scroll to top of page to find the "Print" hyperlink) to print an image of the map and table.

Click the "Go Back" button to return to the list of available reports.

Enter a new set of values to generate a new report.

				303(d) LISTE Category: AC						
Nater Type:	San Francisco Bay Rivers/Streams e waterbodies shown: 6 0, 2005									
Regional Board	WB ID	303(d) Listed Water	WB Type	Source Category	Source	Pollutant	Estimated Size	Size Unit	TMDL Priority	TMBL Completion
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	17	Miles	Low	
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	AGRICULTURE	Agriculture	Pathogens	17	Miles	Low	
2	CAR2011302019980928162224	Lagunitas Creek	Rivers/Streams	AGRICULTURE	Agriculture	Sedimentation/Siltation	17	Miles	Medium	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	65	Miles	Medium	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	AGRICULTURE	Agriculture	Pathogens	65	Miles	Low	
2	CAR2065001019980928164417	Napa River	Rivers/Streams	AGRICULTURE	Agriculture	Sedimentation/Siltation	65	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	22	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	AGRICULTURE	Agriculture	Pathogens	22	Miles	Medium	
2	CAR2063002019980928165716	Petaluma River	Rivers/Streams	AGRICULTURE	Agriculture	Sedimentation/Siltation	22	Miles	Medium	
2	CAR2063004020020916200425	Petaluma River (tidal portion)	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	1.1	Miles	Medium	
2	CAR2063004020020916200425	Petaluma River (tidal portion)	Rivers/Streams	AGRICULTURE	Agriculture	Pathogens	1.1	Miles	Medium	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	30	Miles	Medium	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	AGRICULTURE	Agriculture	Pathogens	30	Miles	Low	
2	CAR2064005019980916140112	Sonoma Creek	Rivers/Streams	AGRICULTURE	Agriculture	Sedimentation/Siltation	30	Miles	Medium	
2	CAR2011201319980928173807	Walker Creek	Rivers/Streams	AGRICULTURE	Agriculture	Nutrients	16	Miles	Medium	
	CAR2011201319980928173807			AGRICULTURE		Sedimentation/Siltation		Miles	Medium	

Figure 14.48 Report Output

The *Main Map* page refreshes to show the 303(d) listed waterbodies in the selected Region (or the entire state) listed for the selected pollutant categories (Figure 14.46).

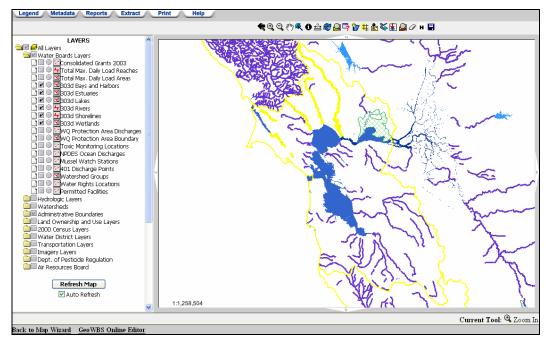


Figure 14.46 Main Map Page Display

14.5.4 Extract Tab

The Extract Tab creates a compressed file of the attribute data for the layers currently visible for the current map extent (with a file extension name of *.zip). Clicking on the Extract Tab opens a new window with the following message (Figure 14.47):

Extract Data:

```
<u>Click here</u> to download all the visible feature layers in the current map extent as shapefile. The shapefile are packed in one compressed (.Zip) file format. Projection (.prj )file informa is included with shapefile.tion
```

Figure 14.47 Extract Data Message

Clicking the "Click here" hyperlink triggers an alert informing you that the system is about to create a file that will be available for downloading to your personal computer (Figure 14.48).



Figure 14.48 Extract Tab Alert

Clicking "Open" opens the file without saving it to your computer. Clicking "Save" saves the file to your computer (you will be prompted for a save location). Clicking "No" terminates the procedure and closes the alert window.

When the file is available for downloading, an alert sounds and you will be able to view the extracted data.

14.5.5 Print Tab

The Print feature of GeoWBS Navigator allows you to create a printed image of the current map view. Clicking on the Print Tab opens the Map Printing Configuration Panel (Figure 14.49) where you can customize the layout of the image and select additional features to include.

LP

Before utilizing the GeoWBS Print feature, check the current Print Setup configuration on your Web browser.

To select a map feature to include on the printed map, select the box next to the feature name so that a check appears in the box (\square) . The values displayed for each feature can be changed using the text fields and drop-

down menu located next to each feature title. The features and corresponding value options are outlined in Table 14.3.

📃 Include Map Title	Map Output from GeoWBS			
📃 Include Map Legend	Map Legend (Legend Title)			
Include North Arrow	1 🐱 (Arrow Type)			
🔜 Include Scalebar	Include Scalebar Miles 🗸 (Scale Unit)			
Include Date				
Map Width	828 pixels			
Map Height	572 pixels			

Figure 14.49 Map Printing Configuration Panel

The "Preview" button allows you to view an image of your map before printing.

You must preview your map image before printing.

 Table 14.3 Optional Map Features

Feature	Value Options					
Map Title	Enter a title for your map. This will appear at the top					
Map The	of the map image.					
Map Legend	Enter a title for the map legend.					
North Arrow	Indicate the arrow type for the North Arrow by					
North Arrow	selecting from the drop-down list box.					
Scalebar	Select the appropriate scale from the drop-down menu.					
Date	Will cause today's date to be displayed on the map.					
Map Width	To change the default map width, enter a new value in					
wap width	the text field.					
Man Hoight	To change the default map height, enter a new value in					
Map Height	the text field.					

Clicking the "Print" button prints the map using the current Page Setup configuration of your browser. The "Close" button closes the Map Printing Configuration Panel without creating an image.

14.5.6 Help Tab

The help tab contains a copy of this guide in PDF format.

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15 GeoWBS Online Editor

This chapter addresses the following topics:

- An Introduction to the Online Editor
- How to create new and edit existing Fact Sheets
- How to create a Decision
- How to submit a Category Decision

15.1 Introduction to the GeoWBS Online Editor

The purpose of the GeoWBS Online Editor is to record assessment determinations resulting from the biennial surface water quality assessment process. The Online Editor will record details for all Assessment Units (AUs) and Monitoring Areas (MAs) in the state, which is required to support the needs of the EPA Integrated Reporting process, and will supplement and complete the information provided as part of the California Fact Sheet assessment process.

15.1.1 The Online Editor and The Fact Sheet Database

The 2004 California section 303(d) impaired water assessment resulted in the development of an online system to mange the vast amounts of evidence used to describe the condition of California surface waters, store the state's assessment determinations, and finally produce the evidence fact sheets that are required to be entered into state record for each water body. This Fact Sheet Database (FAC) allows many assessors working at numerous locations to compile their results into a single system for storage and reporting. While the tool was constructed to focus on the 303(d) assessment process, it has been adapted to provide data to the GeoWBS Online Editor and to also support the 305(b) integrated assessment and reporting process that EPA now requires.

15.1.2 Structure of the Online Editor

The Online Editor is designed to help you move from the development of Fact Sheets (with their associated Lines of Evidence), through the decision-making process, to the final submission of a Monitoring Area Category Decision. Assessment Units (AUs) and Monitoring Areas (MAs) that have been committed in the GeoWBS Desktop Editor are available for use in the GeoWBS Online Editor.



See Chapter 16 for more information on the GeoWBS Desktop Editor.

Figure 15.1 shows the general flow of information within the Online Editor.

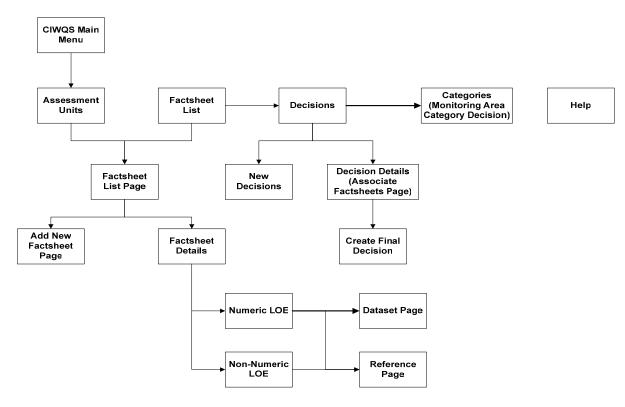


Figure 15.1 Structure of the GeoWBS Online Editor

For an overview of how data is created within the GeoWBS system, see Chapter 13.

From the CIWQS Main Menu, the first page you see is the *Assessment Units* page, where you can search all available Assessment Units (for the purpose of accessing the related Fact Sheets).

[₿]

When you have found the appropriate record for an Assessment Unit, you can then view the list of Fact Sheets associated with that Assessment Unit (*Factsheet List* page) or create a new Fact Sheet (*Add New Factsheet* page).

Once a Monitoring Area, use, and pollutant have been associated with a Fact Sheet, it is possible to add Lines of Evidence (LOE) to the record (*Numeric LOE* and *Non-Numeric LOE* pages).

Once all Fact Sheets for a given Monitoring Area are assembled and completed, they can be associated with an impairment Decision. Decisions can be located by searching the *Decisions* page. From here, it is possible to view the Decision details (where Fact Sheets can be associated with the Decision). It is also possible to create a new Decision.

When the record for the Decision is complete, a final Decision can be created. Records of final Decisions are then assembled on the *Categories* page for the creation (and eventual submittal) of a Monitoring Assessment Category Decision.

15.2 The GeoWBS Online Editor

The GeoWBS Online Editor is accessed through the CIWQS Main Menu. If you have not already done so, log into CIWQS. Click on the *GeoWBS Online Editor* Module to open to the *Assessment Units* page (Figure 15.2).



If the GeoWBS Editor Module is not displayed as a hyperlink on the CIWQS Main Menu (shown in blue text and underlined), you do not have access to this Module. If you feel you should have access, contact your CIWQS System Administrator.

Witer Rearts CIWQS	Menu <u>Help</u> <u>Log out</u> Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.	
Assessment Units Factsheet List Decisions	Categories Help	Tuesday, October 04, 2005
Assessment Units Keyword (from assessment unit name)		>> Refresh Assessment Units
Listing Year	Board	>> Save Changes
Board Number of Monitoring Areas Number of Decisions Numb	Any	() Trophic Status (for lakes) Quick Report

Figure 15.2 GeoWBS Online Editor Home Page

The *Assessment Units* page serves as a search page to find available Assessment Units and provides links to additional components of the Online Editor.

15.2.1 Searching for Assessment Units

To find an Assessment Unit, enter values into the three available search fields. These are described in Table 15.1.

Field Name	Description
	Type in a keyword to narrow the list of Assessment
TZ I	Units. The system searches for all Assessment Units that have the given keyword as part of the name. For
Keyword	example, type in "Canyon" to find "Canyon Creek
	Lakes" or "Point" to find Alder Creek, Mendocino
	Coast HU, Point Arena HA, Alder Creek HSA.
	Select the year for which the assessment is being
Listing Year	performed from the drop-down menu. The 305(b) and
Listing I car	303(d) lists are developed bi-annually, so the only
	possible listing years are 2000, 2002, and 2004.
	Select the Regional Board from the drop-down menu.
Board	The system searches for all Assessment Units located
	within the selected Board.

Table 15.1 Assessment Unit Search Fields

When you have finished entering search criteria, click the "Refresh Assessment Units" button to the right of the screen. The list of Assessment Units that meet your criteria will be displayed below the table header row (Figure 15.3). Table 15.2 describes the fields displayed for each resulting Assessment Unit.

Water Boar	Merry I Help Log out Navigate to: You are logged-in as tetratech. If this account does not belong to you, please log out.									
Asse	ssment Units	Factsheet L	.ist Decis	sions Categories Help			Tuesday, Octol	ber 04, 2005		
	(from assessment u						>> Refresh Asses	sment Units		
	Listing Year Board Save Changes									
2006	1			Any	▼					
Board	Number of Monitoring Areas	Number of Decisions	Number of Factsheets	Assessment Unit ID	Assessment Unit Name	Monitoring Schedule (YYYY)	Trophic Status (for Takes)	Quick Report		
6	1	0	0	CA863410030120050914113739	Tahoe, Lake	0		>>		
3	0	0	0	CAC30510030120050914121535	Lower Watsonville Slough	0		>>		
3	0	0	0	CAC30510030120050914121835	Upper Watsonville Slough	0		>>		
1	2	1	6	CAL1106400620050628115057	Trinity Lake	0	Eutrophic 💌	>>		
1	0	0	0	CAL1111110120050627212456	Nanoy Polygon nonNHD Lake	0	Eutrophic 💌	>>		
1	0	0	0	CAL1111120220050628114255	Nancy Lake	0	Eutrophic	>>		

Figure 15.3 Results of an Assessment Unit Search

The *Monitoring Schedule* and lake *Trophic Status* fields are the only fields that allow data entry. These fields should be populated at the end of the assessment process (once a Category Decision has been made).

Once you have input data into the *Monitoring Schedule* and *Trophic Status* fields, click the "Save Changes" button to save the new data to the record for the Assessment Unit.

Clicking the Assessment Unit identifier hyperlink from the *Assessment Unit ID* field will open the *Fact Sheet List* Page. This page is described in detail in Section 15.3.1.

Field Name	Description
Board	The number of the associated Water Board.
Number of	The number of Monitoring Areas defined within
Monitoring Areas	the Assessment Unit.
Number of Decisions	Shows the number of attainment/impairment
	decisions made for this Assessment Unit.
Number of Factsheets	Indicates the number of Fact Sheets associated
	with this Assessment Unit.
Assessment Unit ID	Displays the Assessment Unit ID as a hyperlink.
	Clicking on the link opens the Factsheet List page
	with all fact sheets for the Monitoring Areas
	associated with that Assessment Unit.
Assessment Unit	Displays the Assessment Unit Name.
Name	
Monitoring Schedule	Allows you to enter the year for which monitoring
(YYYY)	in this AU is next scheduled.
Trophic Status (for	If an AU has a waterbody type of lake, this drop-
lakes)	down menu appears. Choose the appropriate
	Trophic Status (Oligotrophic, Mesotrophic,
	Eutrophic, Not Determined) from the list.
Quick Report	Opens a new window with expanded images of all
	fact sheets related to the Assessment Unit.

Table 15.2 Assessment Unit Results Table

15.3 Fact Sheets

The California method of conducting assessments using Fact Sheets allows assessors the discretion to create any number of Fact Sheets to describe the conditions on a Monitoring Area. A Fact Sheet represents a summary of discrete blocks or pieces of water quality data pertaining to a Monitoring Area. Each Fact Sheet may include many references to data such as quantitative analytical data (numeric) and qualitative (nonnumeric) data such as newspaper reports. The Fact Sheet also includes information on the quality of the data. Each Fact Sheet refers to a single Monitoring Area, a single impairment, a single use, and a single source. A Fact Sheet from the FAC application can be printed as a document that serves as the State's evidence of water quality for that Monitoring Area (water body).

15.3.1 The Fact Sheet Page

Fact Sheets can be accessed by clicking the Assessment Unit identifier hyperlink from the *Assessment Unit ID* field on the *Assessment Units* page (described above). You can also get to individual Fact Sheets (and search for them) by clicking the "Factsheet List" button found at the top of every page of the *GeoWBS Online Editor* Module. The *Factsheet List* page also provides a way to create new Fact Sheets.

From the Assessment Units Page

If you get to the *Factsheet List* page via the *Assessment Units* page, all Fact Sheets available for the selected Assessment Unit will be displayed in the table (Figure 15.4).

Manual Heigh I Loop Water Ream Heigh I Loop You are logged in as: letratech. If this account does not belong to you, please log out.								
Assessm	nent Units Factshee	et List Decis	ons Categorie	s Help			Т	Jesday, October 04, 200
Factshe	eet List							
Keyword (fror nonitoring an	m assessment unit or rea name)							
Board		Region 1 - North	Coast 💌					
isting Year		2006 💟						
Assessment	Status	Any	~					
ssessment		CAL1106400620	60628115057 👻	Trinity Lake		*		
Aonitorina Ar	rea	Any	Y	Any	~			
•				Any				_
Pollutant		Any		Ally	~		>>	Add New Factsheet
				Any			**	
ollutant	AU ID	Any	MAI		v	Use		
ise	AU ID CAL110640062005062811	Any Any AU Name	MAI	D	v v	Use Cold freshwater habitat	>>	Refresh Factsheet L
ollutant Ise Factsheet ID		Any Any Any AU Name 15057 Trinity Lak	MA I CAL110640062005	0 0628115057_2	V MA Name		Impairment	Refresh Factsheet L
Pollutant Jse Factsheet ID 34_ 35_	CAL11064006200506281	Any Any Au Name 15067 Trinity Lak 15067 Trinity Lak	MA I CAL110840062005 CAL110840082005	0 0628115057_2 0628115057_2	MA Harree Trinity Lake (Nothwest Arm)	Cold freshwater habitat	Inpsirment Ammonia	Refresh Factsheet L Status In Progress
Pollutant	CAL110640062005062811 CAL110640062005062811	Any Any 15057 Trinity Lak 15057 Trinity Lak 15057 Trinity Lak	MA I CAL110840062005 CAL110840062005 CAL110840062005	D 0628115067_2 0628115067_2 0628115067_2	MA Harree Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm)	Cold freshwater habitat Agricultural supply	Impärment Ammonia BDD, sediment Oxygen Demand)	Refresh Factsheet L Status In Progress -N/A
Pollutant Jse Pactsheet ID 34 35 36	CAL110840082005082811 CAL110840082005082811 CAL110840082005082811	Any Any 15057 Tinity Lak 15057 Tinity Lak 15057 Tinity Lak 15057 Tinity Lak	MA I CAL110640062005 CAL110840062005 CAL110840062005 CAL110840062005	D 0628115057_2 0628115057_2 0628115057_2 0628115057_2	MA Harree Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm)	Cold freshwater habitat Agricultural supply Agricultural supply	Impärnent Ammonia BOD, sediment loogen Demand) BDD, sediment load (Sediment Oxygen Demand)	Refresh Factsheet Li Status In Progress -N/A -N/A
*ollutant Jse Factsheet ID 34 35 36 37	CAL11064006200506281 CAL11064006200506281 CAL11064006200506281 CAL11064008200506281	Any Any Any 16057 Tinity Lak	MA I CAL10640062005 CAL110440062005 CAL110440062005 CAL110440062005 CAL110640062005	0 0628116067_2 0628116067_2 0628116067_2 0028116067_2 0628116067_2	MA Irame Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm)	Cold freshwater habitat Agricultural supply Agricultural supply Agricultural supply	Impärmert Ammonia B00, sediment load (Sediment Oxygen Demand) B00, sediment load (Sediment Oxygen Demand) B00, sediment load (Sediment Oxygen Demand)	Refresh Factsheet Li Status In Progress -N/A -N/A -N/A
Pollutant Factsheet ID 34 35 36 37 41	CAL110640062005062811 CAL110640062005062811 CAL110640062005062811 CAL110640062005062811 CAL110640062005062811	Any Any Any Au Name 16057 Trinity Lak 16057 Trinity Lak 16057 Trinity Lak 16057 Trinity Lak 16057 Trinity Lak	MA I CAL110840082005 CAL110840082005 CAL110840082005 CAL110840082005 CAL110840082005 CAL110840082005	0 0628116067_2 0628116067_2 0628116067_2 0628116067_2 0628116067_2 0628116067_2	MA Hanos Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm) Trinity Lake (Northwest Arm)	Cold freshwater habitat Agricultural supply Agricultural supply Agricultural supply Cold freshwater habitat	Impul/mind Ammonia B00, sediment load (Sediment Corgen Demand) B00, sediment load (Sediment Corgen Demand) B00, sediment load (Sediment Corgen Demand) Ammonia	Refresh Factsheet L Status In Progress -N/A -N/A In Progress
Sector Sector 34 Sector 35 Sector 37 Sector 50 Sector	CAL110640062005062811 CAL110640062005062811 CAL110640062005062811 CAL110640062005062811 CAL110640062005062811 CAL110640062005062811	Any Any 16067 Tinity Lak 16057 Tinity Lak	MA I CAL110840062005 CAL110840062005 CAL110840062005 CAL110840062005 CAL110840062005 CAL110840062005	D 0628116067_2 0628116067_2 0628116067_2 0628116067_2 0628116067_2 0628116067_2 0628116067_3	MA Harris Trinty Lake (Notthwest Arm) Trinty Lake (Notthwest Arm) Trinty Lake (Notthwest Arm) Trinity Lake (Notthwest Arm) Trinity Lake (Notthwest Arm)	Cold freshwater habitat Agricultural supply Agricultural supply Agricultural supply Cold freshwater habitat Fish spawning	Impairment Ammonia BOD, sediment load (Sediment Oxygen Demand) BOD, sediment load (Sediment Oxygen Demand) BOD, sediment load (Sediment Oxygen Demand) Edot, sediment load (Sediment Oxygen Demand) Low flow alterations	Refresh Factsheet L Status In Progress -N/A -N/A In Progress In Progress In Progress

Figure 15.4 All Fact Sheets for a Selected Assessment Unit

From the "Factsheet List" button

If you get to the *Factsheet List* page by clicking the "Factsheet List" button, no Fact Sheets will be displayed in the table (Figure 15.5). You have the option of choosing (or entering) one or more search criteria in the fields to

find the required Fact Sheet. Table 15.3 lists the search fields and describes each one.

Water Boards CIWQS		You a		vigate to: etratech. If this account does	Menu Help Log ou not belong to you, please log out	
Assessment Units	Factsheet List D	ecisions Ca	itegories I	lelp		Tuesday, October 04, 2005
Factsheet List Keyword (from assessment unit or monitoring area name) Board	Any	~				
Listing Year Assessment Status	2006 💙 Any	*				
Assessment Unit	Any	~	Any		~	
Monitoring Area	Any	~	Any		₩	
Pollutant	Any			~		>> Add New Factsheet
Use	Any			~		>> Refresh Factsheet List
Factsheet ID	AU ID	AU Name	MA ID	MA Name	Use Impairment	t Status

Figure 15.5 Fact Sheet List Page

Field Name	Description					
	Type in a keyword to narrow the list of Fact Sheets. The					
Keyword	system searches for all Fact Sheets that have the given					
	keyword as part of the name.					
	Select the Regional Board from the drop-down menu.					
Board	The system searches for all Fact Sheets performed for					
	MA's within the selected Board.					
	Select the year for which the assessment is being					
Listing Year	performed from the drop-down menu. The 305(b) and					
Listing Tear	303(d) lists are developed bi-annually, so the only					
	possible Listing Years are 2000, 2002, 2004, and 2006.					
Assessment	Select the appropriate Assessment Status from the drop-					
Status	down menu.					
Assessment	Select the related Assessment Unit ID and Name from					
Unit	the drop-down menus.					
Monitoring	Select the associated Monitoring Area ID and Name from					
Area	the drop-down menus.					
Pollutant	Select the related Pollutant from the drop-down menu.					
Use	Select the related Use from the drop-down menu.					

Click the "Refresh Factsheet List" button to update the table with the current search criteria (Figure 15.6).

Water Boards CIWQS			N You are logged-in as	avigate to: tetratech. If th	is account does		ase log out	
Assessment Units	Factsheet List	Decisions	Categories	Help			Tue	sday, October 04, 2005
Factsheet List								
Keyword (from assessment unit or monitoring area name)								
Board	Region 6 - Lahonta	in 📐						
Listing Year	2006 🔽							
Assessment Status	Any	*						
Assessment Unit	CAB63410030120	050914113739	🗸 Tahoe, Lake	*				
Monitoring Area	Any		Any	~				
Pollutant	Any			*			>>	Add New Factsheet
Use	Any			~			>>	Refresh Factsheet List
Factsheet ID	AU ID	AU Name	MA ID		MA Name	Use	Impairment	Status
62 CAB63410030	120050914113739	Tahoe, Lake	CAB634100301200509	14113739_1	Tahoe, Lake	Agricultural supply	Nitrite	Assessment Complete

Figure 15.6 Factsheet List Page with Results

Accessing a Fact Sheet

To access an individual Fact Sheet, click the "Factsheet ID" hyperlink in the appropriate row. This will bring you to the *Factsheet Details* page (See Section 15.3.4 below).

15.3.2 Creating a New Fact Sheet

To add a new Fact Sheet, select a listing year, Monitoring Area ID (MAID), and Name from the search criteria fields and click the "Add New Factsheet" button. This opens the *Add New Factsheet* page (Figure 15.7).

At the top of the *Add New Factsheet* page, the AUID, AU name, MAID, MA name, waterbody type, and listing year are displayed as read-only fields. Table 15.4 lists the remaining fields and describes each one.

Field Name	Description
Status	Select a status for the Fact Sheet from the drop-down menu.
Primary Beneficial Use	Select a primary beneficial use from the drop-down menu.
Secondary	Select one or more secondary beneficial uses. Multiple
Beneficial Use	selections can be made by holding down the CTRL key.
Pollutant Category	Select a pollutant category from the drop-down menu.
Pollutant	Select a pollutant name from the drop-down menu. This
Name	field will change based on the selection of pollutant category.
Pollutant	Select one or more pollutant sources. Multiple selections can
Sources	be made by holding down the CTRL key.

Table 15.4 Create New Fact Sheet Fields

Water Resards CIWQS	Menu Help Log out Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.
Assessment Units	Factsheet List Decisions Categories Help Tuesday, October 04, 2005
Add New Factsh	eet
AU ID :	CAB63410030120050914113739
AU Name :	Tahoe, Lake
MA ID :	CAB63410030120050914113739_1
MA Name :	Tahoe, Lake
Waterbody Type:	Bay(s) & Harbors
Listing Year:	2006
Status :	-N/A 💌
Primary Beneficial Use :	Agricultural supply
Secondary Beneficial Uses :	Agricultural supply Aquaculture Cold freshwater habitat Commercial or recreational collection of fish, shelfish, or organisms Estuarine habitat
Pollutant Category:	-N/A
Pollutant Name:	BOD, sediment load (Sediment Oxygen Demand) 👻
Pollutant Sources :	
Save Factsheet	

Figure 15.7 Add New Factsheet Page

Click the "Save Factsheet" button at the bottom of the page when you have finished entering data. This returns you to the *Factsheet List* page (as described above).

15.3.3 Fact Sheet Details

The *Factsheet Details* page can be accessed by clicking on the Factsheet ID hyperlink from the Fact Sheet results table of the *Factsheet List* page (Figure 15.8).

The *Factsheet Details* page contains all of the fields found on the *Add New Factsheet* page. This page also provides access to the screens that accept Numeric and Non-Numeric Lines of Evidence (LOE) to be stored and associated with the Fact Sheet.

If you change the information captured on the Fact Sheet, click the "Save Factsheet" button to save the new information.

To make a copy of the current fact sheet, click the "Save New (Copy)" button.

Water Boards CIWQS				Navigat		Menu Help	~
			You are log:	ged-in as: tetrat	ech. If this account does not belo	ong to you, please	log out.
,						Monda	ay, August 29, 2005
Assessment Units	Factsheet List	Decisions	Catego	ries Help			y, wagaas aay ann
Factsheet Detail	s						
AU ID :	CAL110640062005062	28115057					
AU Name :	Trinity Lake						
MAID:	CAL110640062005062	_					
MA Name :	Trinity Lake (Northwes	t Arm)					
Waterbody Type: Listing Year:	Lake, Reservoir 2006						
Status :							
	In Progress	*					
Primary Beneficial Use :	Cold freshwater habita	at			~		
Secondary Beneficial Uses :	Agricultural supply				~		
	Aquaculture						
	Cold freshwater habita Commercial or recreat		s of fich shalf	ich of organism			
	Estuarine habitat	Jonar conection	a of fish, shem	ish, or organism	s 🗸		
Pollutant Category:	, Nutrients	~					
Pollutant Name:	Ammonia			~			
Pollutant Sources :	N/A				~		
	-N/A						
	AGRICULTURE						
	Agricultural Return Flo Agriculture	1005			~		
Save Factsheet	Save New (Copy)						
Numeric Lines o	f Evidence						
Add New							
Add New							
			LOE ID		LOE Subgroup	Matrix	Fraction
			22	Ancillary Evid	ence Effluent Data	Water	Dissolved
Edit LOE	Delete LOE	1		,			
							[[]
Non-Numeric Lir	nes of Eviden	ice					
	100 01 211221						
Add New							
				LOE ID	LOE Subgroup	Assessm	ent Quality
Edit LOE	Delete L	OE		29	Pollutant-Tissue	Poor	
				iL	iL		

Figure 15.8 Factsheet Details Page

15.3.4 Lines of Evidence

The Lines of Evidence pages are used to input qualitative and quantitative information about a Monitoring Area that inform the water quality use and attainment Decisions. Each Fact Sheet may contain one or more Numeric Lines of Evidence and one or more Non-numeric Lines of Evidence.

Each Line of Evidence is assigned one assessment type, or subgroup. The assessment type generally describes the category of the data, or evidence being written about in the LOE (e.g., Pollutant-Sediment, Pollutant-Tissue).

Numeric Line of Evidence may also be associated with one or more reference documents, and/or one or more data sets. Non-Numeric Lines of Evidence may be associated with one or more reference documents.

Numeric Lines of Evidence

The Numeric Lines of Evidence page is shown in Figure 15.9.

Assessment Units Fa	ctsheet List Decisi	ions Categories	Monday, August 29, 2005
Factsheet Details			
AU ID:	CAL110640062005062	28115057	
AU Name:	Trinity Lake		
MA ID:	CAL110640062005062	28115057_2	
MA Name:	Trinity Lake (Northwest	Arm)	
Pollutant Name:	Ammonia		
Source Name:	AGRICULTURE;AGRIC		
Designated Beneficial Uses : Factsheet ID:	Cold freshwater habitat 34		
LOE ID:	22		
Numeric Line of Ev	idence		
Save Numeric LOE	Assign References	Assign Datasets	
LOE Subgroup:	Ancillary Evidence	Effluent Data 🛛 👻	
Fraction: 🕐	Dissolved 🗸 🗸	1	
Matrix: 🕜	Water 💌		
Number of Samples: 🔞	(nume	ericì	
0	(nume		
Number of Exceedances: 🔮 Standard/Criteria/Objective:			
(2000 characters max)	Standard/Criteria/O (2000 characters m.		
(2000 characters max) 🖤	(2000 characters in	•^)	~
Evaluation Guideline:	Evaluation Guideli	ne:	~
(2000 characters max) 😢	(2000 characters m	a×)	
			×
Assessment Method:	Benthic macroinve	ntebrate surveys	✓
Data Used to Assess Water Qualit	Data Used to Assess	s Water Quality:	~
(4000 characters max) 🕐	(4000 characters m		
Spatial Representation:	Spatial Representa		<u> </u>
(2000 characters max) 🖤	(2000 characters m	ах)	
			✓
Temporal Representation:	Temporal Represer	itation:	~
(2000 characters max) 🕐	(2000 characters m		
Environmental Conditions:			
(2000 characters max)	Environmental Con (2000 characters m.		
(2000 characters max) 🖤	(2000 0111100015 111	an)	
			<u>×</u>
Quality Assurance i	Assessment		
Quality Assurance: 🕐			Good 💌
QAPP Information:			Quality Assurance: Quality Assurance: Quality Assurance: Quality
(2000 characters max) 🕜			Assurance: Quality Assurance:
QA/QC Equivalent:			QA/QC Equivalent: QA/QC Equivalent: QA/QC Equivalent: QA/QC
(2000 characters max) 🕜			Equivalent: QA/QC Equivalent: QA/QC Equivalent:

Figure 15.9 Numeric Lines of Evidence Page

At the top of the *Numeric LOE* page, the AUID, AU name, MAID, MA name, pollutant name, source name, beneficial uses, Fact Sheet ID and LOE ID are displayed as read-only fields. Table 15.5 lists the remaining fields and describes each one.

Description		
Select an LOE subgroup from the drop-down menu.		
Select the fraction of chemicals found from the drop-		
down menu.		
Select the matrix type of the sample(s) from the drop-		
down menu.		
Enter the number of samples taken.		
Enter the number of samples taken.		
Enter the number of exceedences recorded.		
Describe the standard/criteria/objective.		
Deseribe the standard/enterna/objective.		
Describe the evaluation guideline(s).		
Select the assessment Method used from the drop-		
down menu.		
Describe the data used to assess water quality.		
Describe the spatial representation.		
Deseribe the spatial representation.		
Describe the temporal representation.		
Describe the temporal representation.		
Describe the environmental conditions.		
Describe the environmental conditions.		
Select the level of quality assurance from the drop-		
down menu.		
Enter any QAPP information (as appropriate).		
Describe the QA/QC equivalent.		
Describe the QA/ QC equivalent.		

Table 15.5 Numeric LOE Fields



Hold your mouse over the (0) icon next to any field name to view information about a particular field at the mouse tip.

Click the "Save Numeric LOE" button to save the information you have entered and return to the *Factsheet* page. The new record appears in the Numeric Lines of Evidence table.

Click the "Edit LOE" button to return to the *Numeric Lines of Evidence* page. Click the "Delete LOE" button to delete the row from the table.

Non-Numeric Lines of Evidence

The Non-numeric Line of Evidence page is shown in Figure 15.10.

Assessment Units Facts	heet List Decisions	Categories Help	Monday, August 29, 2005
Factsheet Details			
AU ID:	CAL11064006200506281	15057	
AU Name:	Trinity Lake		
MA ID:	CAL11064006200506281	15057_2	
MA Name:	Trinity Lake (Northwest Arm	-	
Pollutant Name:	Ammonia	,	
Source Name:	AGRICULTURE; AGRICULT	TURE;Agriculture	
Designated Beneficial Uses :	Cold freshwater habitat		
Factsheet ID:	34		
LOE ID:	29		
Non-Numeric Line of Save Non-Numeric LOE	Evidence Assign References		
Water Quality Standa	лu	Pollutant-Tissue	
Antidegradation Consideration:		Antidegradation Consideration: Antidegradation Consideration:	
(2000 characters max)		Antidegradation Consideration:	2
Non-Numeric Objective:			
(2000 characters max)		Antidegradation Consideration: Antidegradation Consideration: Antidegradation Consideration:	2
Evaluation Guideline: (2000 characters max)		Antidegradation Consideration: Antidegradation Consideration: Antidegradation Consideration:Antidegradation Consideration: Antidegradation Consideration:	8
Summary of Data and Number of Samples: (numeric)	d/or Informatior		
(numeric)		U	
Spatial Representation:			-
(2000 characters max)		Spatial Representation: Spatial Representation: Spatial Representation: Spatial Representation:	
Temporal Representation: (2000 characters max)		Temporal Representation Temporal Representation Temporal Representation Temporal Representation	
Assessment Method:		Combined sampling of water column, sediment, biota for chemical an	alysis 🗸 🗸
Data Used to Assess Water Quality: (4000 characters max)		Data Used to Assess Water Quality: Data Used to Assess Water Quality: Data Used to Assess Water Quality: Data Used to Assess Water Quality:	2
Environmetal Conditions: (2000 characters max)		Environmetal Conditions: Environmetal Conditions: Environmetal Conditions:	
Information Used to Assess Water Qu (4000 characters max)	ality:	Information Used to Assess Water Quality: Information Used to Assess Water Quality:	
Quality Assurance As	sessment		<i>.</i>
Quality Assurance: 🕜		Poor 🗸	
QAPP Information:			
(2000 characters max)		Quality Assurance: Quality Assurance: Quality Assurance:	
(2000 characters max) 🗢			
			r
QA/QC Equivalent:		QA/QC Equivalent:QA/QC Equivalent: QA/QC Equivalent: QA/QC	
(2000 characters max)		Equivalent:	
			1
			_

Figure 15.10 Non-numeric Lines of Evidence Page

At the top of the *Non-Numeric LOE* page, the AUID, AU name, MAID, MA name, pollutant name, source name, beneficial uses, Fact Sheet ID and LOE ID are displayed as read-only fields. Table 15.6 lists the remaining fields and describes each one.

Table 15.6 Non-Numeric LOE Fields

Field Name	Description
LOE Subgroup	Select an LOE subgroup from the drop-down menu.
Antidegradation Consideration	Enter any antidegradation considerations (if applicable).
Non-Numeric Objective	Copy objective, criterion or standard here as displayed by the system. If not available, enter objective from basin plan or alternative source.
Evaluation Guideline	Enter any evaluation guidelines (as appropriate).
Number of Samples	Enter the number of samples taken.
Number of Exceedences	Enter the number of exceedences recorded.
Spatial Representation	Describe the spatial representation.
Temporal Representation	Describe the temporal representation.
Assessment	Select the assessment Method used from the drop-down
Method	menu.
Data Used to Assess Water Quality	Describe the data used to assess water quality.
Environmental Conditions	Describe the environmental conditions.
Information Used to Assess Water Quality	Describe the information used to assess water quality.
Quality Assurance	Select the level of quality assurance from the drop-down menu.
QAPP Information	Enter any QAPP information (as appropriate).
QA/QC Equivalent	Describe the QA/QC equivalent.

∎®

Hold your mouse over the (0) icon next to any field name to view information about a particular field at the mouse tip.

Click the "Save Non-Numeric LOE" button to save the information you have entered and return to the *Factsheet Details* page. The new LOE record appears in the Non-Numeric LOE table.

Click the "Edit LOE" button to return to the *Non-Numeric Lines of Evidence* page. Click the "Delete LOE" button to delete the row from the table.

15.3.5 Assigning References

It is possible to assign references to both Numeric and Non-Numeric LOE. This can be done from the either the *Numeric LOE* or *Non-Numeric LOE* page (Figures 15.9 and 15.10).

From either *LOE* page, click the "Assign References" button to view the *Assign References* page (Figure 15.11).

Water Reants CIWQS Water Reants Water Beants Water Beants You are logged-in as: tetratech. If this account does not belong to you, please log out.							
Assessment Units	Factsheet	List Decisions C	ategories Help		Monday, August 29, 2005		
Factsheet Details AU ID: CAL1106400620050628115057 AU Name: Trinity Lake MA ID: CAL1106400620050628115057_2 MA Name: Trinity Lake (Northwest Arm) Pollutant Name: Ammonia Source Name: AGRICULTURE;AGRICULTURE;Agriculture Designated Beneficial Uses : Cold freshwater habitat Factsheet ID: 34 LDE ID: 22							
Assign Bibliogra	aphic Ref Return to I	erences to Line	of Evidence				
	Assigned	Author		Title	Pub. Date Pages		
Delete		Linux: Reiser4 Plugins	Linux: Reiser4	Plugins			
Delete		<u>Me</u>	The Book	09/1:	3/2000		
Delete		author	Title	03/1:	2/2005		
Delete		<u>tt.</u>	Test				

Figure 15.11 Assign References Page

At the top of the *Assign References* page, the AUID, AU name, MAID, MA name, pollutant name, source name, beneficial uses, Fact Sheet ID and LOE ID are displayed as read-only fields. Below this is a table showing all available references.

The references table lists the author's name, title, publication date and pages cited for each associated reference.

Select the checkbox in the *Assigned* field to associate the reference with the LOE.

Click the "Delete" button to delete the reference from the Online Editor.

Click the "Return to LOE" button to return to the LOE page.

Click the "Add Reference" button to open the *Reference* page (Figure 15.12).

Click the hyperlink in the *Author* field to view details of a particular reference on the *Reference* page.

Water Besards CIWQS	Menu Help Log out Navigate to: Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out
Assessment Units	Factsheet List Decisions Categories Help
Factsheet Details	S
AU ID:	CAL1106400620050628115057
AU Name:	Trinity Lake
MA ID:	CAL1106400620050628115057_2
MA Name:	Trinity Lake (Northwest Arm)
Pollutant Name:	Ammonia
Source Name: Designated Beneficial Uses :	AGRICULTURE;AGRICULTURE;Agriculture Cold freshwater habitat
Factsheet ID:	34
LOE ID:	22
Save Reference	
Author:	
Agency:	
Publication:	
Publication Date:	(mm/dd/yyyy)
Issue:	
Volume:	
Pages Cited:	
URL:	
Record Index:	
Select Waterbody ID:	CAL1106400620050628115057_2 🔽
Select Board:	Region 1 - Noth Coast
Select Reference Type:	-N/A 👻
Select Media:	-N/A 💌
Relevant ?	
Comments: (2000 chars max)	

Figure 15.12 Reference Page

At the top of the *Reference* page, the AUID, AU name, MAID, MA name, pollutant name, source name, beneficial uses, Fact Sheet ID and LOE ID are displayed as read-only fields. Table 15.7 lists the remaining fields and describes each one.

Click the "Save Reference" button to save the information you have entered and return to the *Assign References* page. The new Reference record appears in the reference table.

Field Name	Description
Title	Enter the title of the reference.
Author	Enter the name of the author of the reference.
Agency	Enter the name of the agency associated with the reference.
Publication	Enter the name of the publication.
Publication Date	Enter the publication date in the form (mm/dd/yyyy).
Issue	Enter the issue number.
Volume	Enter the volume number.
Pages Cited	Enter the pages cited.
URL	Enter the URL of the reference.
Record Index	Enter the record index.
Select Waterbody ID	Select the associated waterbody ID from the drop- down menu.
Select Board	Select the associated Water Board from the drop- down menu.
Select Reference Type	Select the reference type from the drop-down menu.
Select Media	Select the media type from the drop-down menu.
Relevant?	Indicate whether the reference is relevant.
Comments	Enter comments as needed.

Table 15.7 Reference Fields

15.3.6 Assigning Datasets

Numeric LOEs can also be assigned to datasets. From the *Numeric LOE* page, click the "Assign Datasets" button to view the *Dataset Search* page (Figure 15.13).

Water Boards CIWQS	Menu Help Log ou Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log ou
Assessment Units Fac	tsheet List Decisions Categories Help
Factsheet Details	
AU ID:	CAL1106400620050628115057
AU Name:	Trinity Lake
IA ID:	CAL1106400620050628115057_2
/A Name:	Trinity Lake (Northwest Arm)
ollutant Name:	Ammonia
ource Name:	AGRICULTURE;AGRICULTURE;Agriculture
lesignated Beneficial Uses :	Cold freshwater habitat
actsheet ID:	34
OE ID:	22
Datasets Matrix Code: NA Air Not Recorded Sediment Tissue	Refresh
l Issue	
Add New Save Datas	ets
	ets Invertory ID Board ID Tier Title Source Matrix Name Media Description URL

Figure 15.13 Dataset Search Page

Choose a matrix code from the drop-down menu and click the "Refresh" button to view all available datasets for that matrix code. The datasets will be displayed in the table (Figure 15.14).

Were Round Were Round You are logged-in as tetratech. If this account does not belong to you, please log out.									
Assessment Units	Facts	neet List	Decis	sions Ca	ategories Help				Monday, August 29, 200
Factsheet Deta	ils								
AU ID:			С	AL110640062	20050628115057				
AU Name:			т	rinity Lake					
MA ID:			C	AL110640062	20050628115057_2				
MA Name:			т	rinity Lake (No	orthwest Arm)				
Pollutant Name:				mmonia					
Source Name:					AGRICULTURE;Agriculture				
Designated Beneficial Use:	5:			old freshwater	r habitat				
Factsheet ID:			з						
LOE ID:			2	2					
Datasets Matrix Code: Matrix Code: Refresh Refresh Add New Save Datasets									
Assigned		Invertory	Board	Tier	Title	Source	Matrix	Media	URL
	1D	10	10				Name	Description	
Delete	4	12334	1	Tier: Tier: Tier:	Title:Title:Title:Title:Title:Title: Title:Title:Title:Title:Title:Title:Title:V	Data Source: Data Source: Data Source: Data Source: Data Source: Data Source:	Water	GIS	URL: URL: URL: URL: URL: URL:
Delete	1_	ID	2	5	Data set title	data source	Water	-N/A	
Delete	3_	ID	1	Tier	Water Samples	Source	Water	Database File	http://hp.com

Figure 15.14 Sediment Datasets

The dataset table displays the dataset ID, inventory ID, board ID, tier, title, source, matrix name, media description and URL of the dataset.

Select the checkbox in the *Assigned* field to associate this dataset with the LOE.

Click the "Delete" button to delete the dataset from the Online Editor.

Click the "Add New" button to open the *Dataset* page (Figure 15.15).

Click the hyperlink in the *Dataset ID* field to view details of a particular dataset on the *Dataset* page.

At the top of the *Dataset* page, the AUID, AU name, MAID, MA name, pollutant name, source name, beneficial uses, Fact Sheet ID and LOE ID are displayed as read-only fields. Table 15.8 lists the remaining fields and describes each one.

Click the "Save Dataset" button to save the information you have entered and return to the *Dataset Search* page. The new dataset record appears in the dataset table.

Water Bosands CIWQS	Menu Help. Log out Navigate to: Image: Compare the second technic tech
Assessment Units Fact	tsheet List Decisions Categories Help
Factsheet Details	
AU ID:	CAL1106400620050628115057
AU Name:	Trinity Lake
MA ID:	CAL1106400620050628115057_2
MA Name:	Trinity Lake (Northwest Arm)
Pollutant Name:	Ammonia
Source Name: Designated Beneficial Uses :	AGRICULTURE;AGRICULTURE;Agriculture Cold freshwater habitat
Factsheet ID:	34
LOE ID:	22
Dataset Save Dataset Title:	Water Samples
Contact:	me
Data Source:	Source
Inventory ID:	ID
Select Board:	Region 1 - North Coast
Agency/Organization:	Agency
Tier:	Tier
Matri× Code:	-N/A 🗸
Study Type:	Study Type
Select Media:	Database File 💙
URL:	http://hp.com
Relevant ?	
Comments: (2000 chars max)	comments
Period Of Record: (250 chars max)	June 1, 2000 - June 30 2000
Waterbody Addressed: (255 chars max)	

Figure 15.15 Dataset Page

Table 15.8 Dataset Fields

Field Name	Description
Title	Enter the title of the dataset.
Contact	Enter the name of the contact.
Data Source	Enter the source of the dataset.
Inventory ID	Enter the inventory ID.
Select Board	Select a Water Board from the drop-down menu.
Agency/Organization	Enter the name of the associated agency/organization.
Tier	Enter the dataset tier.
Matrix Code	Select a matrix code from the drop-down menu.
Study Type	Enter a brief description of the study type.
Select Media	Select a media type from the drop-down menu.
URL	Enter a URL for the study.
Relevant	Indicate whether the dataset is relevant.
Comments	Enter any comments, as necessary.
Period of Record	Indicate the period of record.
Waterbody	Enter a brief description of the waterbody addressed by
Addressed	the dataset.

15.4 The Decisions Module

The impairment determinations (attainment status) are recorded in a series of pages collectively known as the *Decision* Module. The *Decisions* page can be accessed by clicking the "Decisions" button at the top of any page of the Online Editor.

The first page of the *Decision* Module lists the existing Decisions and provides links to the page that allows a new Decision to be created (Figure 15.16). A Decision is the evaluation of the data in a Fact Sheet or group of associated Fact Sheets to determine whether a Monitoring Area meets its water quality objectives.

Water Boards CIWQS	You are lo	Navigate to: Igged-in as: demo. If this account does n	Menu Help Log out v ot belong to you, please log out.
Assessment Units Factsheet List Decisions	Categories Help		Thursday, June 23, 2006
Decisions Keyword (from assessment unit/ monitoring area name	2)		
Listing Year	Board	Decision Status	>> New Decision
2006 -	Any	Any	Refresh Decision List
Decision ID Has Master? User Name	Date Of Submission	Board AU Name MA Name	Use Impairment Status

Figure 15.16 Decisions Page

Decisions are created when one or more Fact Sheets for an Assessment Unit and Monitoring Area are assigned to a particular impairment assessment.

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Only Fact Sheets from the same Monitoring Area can be associated with a particular Decision.

A water quality assessor can associate Fact Sheets in any logical manner. Each decision, however, must have one master Fact Sheet. A master Fact Sheet determines the Monitoring Area (water body), impairment, use, and source that is assigned to the decision. Other Fact Sheets can be associated with the master Fact Sheet to provide supporting information for a Decision.

For example, associated Fact Sheets might relate to other uses, other sources, and other impairments. The system allows you to provide an explanation for why the additional Fact Sheets are associated with the Decision. Use the fields at the top of the *Decisions* page to search for an existing Decision. Click the "Refresh Decision List" button to activate the search. The table will show all Decisions that matched your search criteria (Figure 15.17).

Water Beams Water Beams You are logged-in as: tetratech. If this account does not belong to you, please log out.										
Asses	Assessment Units Factsheet List Decisions Categories Help									
	Decisions Keyword (from assessment unit/ monitoring area name)									
Listing Year Board					Board	Deci	>> New Decision			
2006 💙	Any V Any Setiesh Decision List								ecision List	
Decision ID	Has Master?	User Name	Date Of Submission	Board	AU Name	MA Name	Use	Impairment	Status	
1_	Y	nrichard	Monday, July 18, 2005	1	Trinity Lake	Trinity Lake (Northwest Arm)	Cold freshwater habitat	Turbidity	Place on 303(d) List	
2_	Y	frenton	Friday, August 26, 2005	1	Prescott Fork Upper Area	Prescott Fork MA3	Fish migration	Nitrogen, Nitrate	Place on 303(d) List	
3	Y	frenton	Friday, August 26, 2005	1	Prescott Fork Upper Area	Prescott Fork Upper MA 2	Water contact recreation	Alpha particles	No Decision	
4_	Y	frenton	Friday, August 26, 2005	1	Prescott Fork Upper Area	Prescott Fork MA3	Shellfish harvesting	Enterococcus	Remove from 303 (d) List	
5_	Y	frenton	Friday, August 26, 2005	1	Prescott Fork Upper Area	Prescott Fork Upper MA 2	Fish migration	BROMIDE	Place on 303(d) List	
<u>6</u>	Y	frenton	Friday, August 26, 2005	1	Prescott Fork Upper Area	Prescott Fork MA3	Shellfish harvesting	Nitrogen, Nitrate	No Decision	

Figure 15.17 Decisions List with Results

From the *Decisions* page you can either create a new Decision by clicking the "New Decision" button, or you can view and edit the Fact Sheets associated with an existing Decision by clicking on the hyperlink in the *Decision ID* field.

Editing Decisions is discussed in section 15.4.2 below.

15.4.1 Adding a New Decision

Once Fact Sheets have been created for a Monitoring Area they may be grouped on the *Associate Fact Sheets* page to provide evidence for use-support decisions. Clicking on the "Add New Decision" button on the *Decisions* page brings you to the *Associate Fact Sheets* page (Figure 15.18).

The fields at the top of the page allow you to select a Regional Board, listing year, Assessment Unit ID and name, and Monitoring Area ID and name. When you have entered the appropriate data for the Monitoring Area that will be associated with the new Decision, click the "Show List" button. This causes the page to refresh and shows all Fact Sheets related to the Monitoring Area you selected (Figure 15.19).

Water Boards CIWQS	Menu Help Log out Na∨igate to: ✓ You are logged-in as: tetratech. If this account does not belong to you, please log out							
Assessment Units	Factsheet List Decisions Categories Help							
Associate Factsheets								
Regional Board:	Any 🗸							
Listing Year:	2006 🗸							
Assessment Unit:	CAL1106400620050628115057 👻 Trinity Lake							
Monitoring Area:	CAL1106400620050628115057_2 💙 Trinity Lake (Northwest Arm)							
Choose fact sheets below to associate with this decision >> Show List								
Save Decision								
Master Associate	Factsheet ID Region AU ID AU Name MA ID MA Name Use Impairment							

Figure 15.18 Associate Fact Sheet Page

Marri I Hill I Log 204 Warr haven Veur ave legged in acr tertates. If Bits account dies hat being its yes, please ing out										
Ass	essment l	Jnits Fa	ctsheet	List Decisions Categ	jories H	elp			Monday, August 29, 2004	
Asso	Associate Factsheets									
Regiona	Board:			Any	~					
Listing	Year:			2006 💌						
	ment Unit:			CAL11084005200505201150	57 💙 Trini	ity Lake		~		
Monitor	ing Area:			CAL11064006200508281150	57_2 💙 Trin	nity Lake (Northwest Arm)	¥			
	fact sheets b e Decisio	elow to associ.	ate with th	is decision					>> Show List	
Master	Associate	Factsheet ID	Region	AU ID	AU Name	MA ID	MA Name	Use	Impairment	
С		34	1	CAL1106400820050828116067	Trinity Lake	CAL1106400620050628115057_2	Trinity Lake (Northwest Arm)	Cold freshwater habitat	Ammonia	
0		<u>35</u>	1	CAL1108400820050820115057	Trinity Lake	CAL1108400820050820115057_2	Trinity Lake (Northwest Arm)	Agricultural supply	BDD, sediment load (Sediment Oxygen Demand)	
_		28	1	CAL1100400020050028115057	Trinity Lake	CAL1108400820050828115057_2	Trinity Lake (Northwest Arm)	Agricultural supply	BOD, sediment load (Sediment Oxygen Demand)	
0				CAL1100400020050028115057	Trinity Lake	CAL1100400820050828115057_2	Trinity Lake (Northwest Arm)	Agricultural supply	BOD, sediment load (Sediment Oxygen Demand)	
0 0		37	1	CAL1100400020000028115057						
0 0 0		37 41	1	CAL1106400620050628115057	Trinity Lake	CAL1106400620050628115067_2	Trinity Lake (Northwest Arm)	Cold freshwater habitat	Ammonia	

Figure 15.19 Related Fact Sheets

Click the hyperlink in the *Factsheet ID* field to open a new window showing the details of the selected Fact Sheet.

Use the *Master* field to select the master Fact Sheet. Select the checkbox in the *Associate* field to select additional Fact Sheets to associate with the decision.

When you have made your selections, click the "Save Decision" button to save.

15.4.2 Editing Existing Decisions

To edit an existing Fact Sheet, click on the hyperlink in the *Decision ID* field on the *Decisions* page (this takes you to the *Associate Factsheets* page).

Figure 15.20 shows the *Associate Factsheets* page. All Fact Sheets associated with the Decision are listed in the table.

Water Boa	CIW	'QS		You ar	Navigate to:	<u>Menu Help </u> account does not belong to you, please	*		
Asse	essment U	Inits Fa	ctsheet	List Decisions Cat	egories Help				Monday, August 29, 2005
Associate Factsheets									
Assessn Monitorir Beneficia Pollutant	Decision ID: 4 Assessment Unit Name: Presott Fork Upper Area Monitoring Area Name: Presott Fork MA3 Benfolal Use: Shellfish harvesting Pollutant Name: Enterococcus								
Choose fact sheets below to associate with this decision Show List									
Save Decision Details									
Master	Associate	Factsheet ID	Region	AU ID	AU Name	MA ID	MA Name	Use	Impairment
œ		<u>44</u>	1	CAR103200102200508261534	2 Prescott Fork Upper Area	CAR10320010220050826153412_3	Prescott Fork MA3	Shellfish harvesting	Enterococcus
C	•	<u>45</u>	1	CAR103200102200508261534	2 Prescott Fork Upper Area	CAR10320010220050826153412_3	Prescott Fork MA3	Shellfish harvesting	Salinity/TDS/Chlorides

Figure 15.20 Associate Factsheets Page.

The table shows the Fact Sheet ID, the associated Region, the AUID, AU name, MAID, MA name, associated beneficial uses, and the impairment related to the Fact Sheet.

The radio button in the *Master* field indicates which Fact Sheet has been designated as the master Fact Sheet and the *Associate* field indicates that these Fact Sheets are associated with this Decision.

Select the checkbox in the *Associate* field to clear the check to disassociate a Fact Sheet from the Decision.

To add a Fact Sheet to the Decision, click the "Show List" button. This refreshes the table to show all Fact Sheets associated with the targeted Monitoring Area (Figure 15.21).

Water Boa		/QS		You are lo	Navigate to: gged-in as: tetrateoh. If this	<u>Menu Help </u> account does not belong to you, please	~			
Asse	ssment L	Jnits Fac	ctsheet	List Decisions Categ	ories Help				Monday, August 29, 200	
Associate Factsheets										
Jecision ID: 4 Seassment Unit Mane: Prescott Fork Upper Area Monitoring Area Name: Prescott Fork MAS Perfolial Use: Shellfish harvesting Pollutant Name: Enterococcus sting Year: 2006 Those fact sheats below to associate with this decision to the sheat of the										
hoose f	act sheets b	elow to associa	te with th	is decision				>> Show	v List	
	act sheets b Decisio		te with th ion Det					>> Show	ν List	
Save	e Decisio		ion Det		AU Name	MA ID	MA Name	>> Show	v List Impairment	
Save	e Decisio	n Decis	ion Det	ails	AU Name Prescott Fods Upper Area	MA ID CAR10320010220050826153412_3	MA Name Prescott Fork MA3			
Save laster	e Decisio	n Decis	ion Det	ails AU ID				Use	Impairment	
Save Aaster	e Decisio	n Decis Factsheet ID	Region	AU ID CAR10320010220050828183412	Prescott Fork Upper Area	CAR10320010220050826153412_3	Prescott Fork MA3	Use Fish migration	Impair ment Nitrogen, Nitrate	

Figure 15.21 View All Fact Sheets

Use the checkboxes in the *Associate* field to assign additional Fact Sheets to the Decision. When you are finished, click the "Save Decision" button to save your changes.

15.4.3 Creating a Final Decision

Once you are ready to create a final Decision, click the "Decision Details" button on the *Associated Fact Sheets* page. This brings you to the *Create Final Decision* page (Figure 15.22).

ciwos	Menu 1 Mela 1 Los cot Navigate to:
Assessment Units Factsheet Unit	Decisional Dategories Help
Create Final Decision	
Besision G. Aki (D) AM temes) MAR (D) Kennes) Bernefisial Steel Impairment Nome: Impairment Nome: Ingelerment (Speel Assessment (Speel Assessment (Speel Assessment (Speel Assessment (Speel	1 CAR651H420120000527100502 [Luwer Bucks Lake) Aprilox14rel magley Add Mine Extrange NghweyReedTinigge Construction, Deathermal Development 2006
Should this impairment-monitoring area t	be placed on the portion of the 303(d) but for water quality limited segments being addressed by pollution control measures (i.e., by completed TMDL or nemedial program in place)?
R Yes C No	
)L with a completed implementation plan for the pollutant-water segment combination?
TMOL Project Number TMOL Commant (2000 characters	****) ***
Animedial program (other	er regulatory program) in place?
Fremedial program in pi	taos is chosen, unat is the expected attainment date?
Impairment is a pollutert? Explanatory text	
Monitoring area use has confirmed a	with-degradation considerations (values are threatened)? -consety attaining WDSs, bot which are expected to each WDSs by the next listing cycle(?
(Ambt.) Discharger self-monitoring data Overall Assessment Quality:	2
Regional Board Recommendation:	
(2000 characters max)	
State Board Recommendation: 2000 characters max)	X
Decision Relationships: (2000 characters max)	x v
Set Amened	g (atheinment status for this use and ingeirment condition)
Final Hoting decision H use report uting is Not Supporting, No Decision	, should this Monitoring area impairment combination be placed on the portion of the 200(d) list requiring a TMPL?
Save	

Figure 15.22 Create Final Decision Page

At the top of the *Create Final Decision* page, the Decision ID, AUID, AU name, MAID, MA name, associated beneficial use, impairment name, impairment source, listing year, assessment types (numeric) and assessment types (non-numeric) are displayed as read-only fields.

The remainder of the page contains fields that collect data used to help determine the 303(d) ruling for the related waterbody.

The first question asks whether the impairment-Monitoring Area should be placed on the portion of the 303(d) list for water quality limited segments being addressed by pollution measures; answer 'yes' or 'no' by clicking the radio buttons.

If the answer to the above question is "yes", indicate whether the pollution measure is a USEPA approved TMDL with a completed implementation plan by selecting the checkbox.

Enter the TMDL project number and indicate whether a remedial program is in place. If a remedial program in place is chosen, enter the expected attainment date in the field provided in the format (YYY).

Next, indicate whether the impairment is a pollutant and whether the Monitoring Area use has confirmed anti-degradation considerations (by default, the checkboxes will be selected).

The next set of fields require that you select the overall assessment quality (from the drop-down menu), and enter a Regional Board recommendation, a State Board recommendation, and a description of the Decision relationships.

In the final group of fields, select an assessment Decision/use support rating for the impairment-Monitoring Area combination. For the final listing Decision, indicate whether the use impairment combination should be placed on the 303(d) list requiring a TMDL, a year for the TMDL schedule and additional comments (as necessary).

When you have finished entering information for the Final Decision, click the "Save" button at the bottom of the page.

15.5 Category Decisions

The *Categories* page (the *Monitoring Area Category Decision* page) is accessed by clicking the "Categories" button located in the header of every page within the Online Editor (Figure 15.23). The tables allow you to view the related decisions, the support ratings for the assessed beneficial uses, and the USEPA 305(b) category assignments for a given Monitoring Area.

Wither Present CIWQ	s	Naviga 'ou are logged-in ar: tetra		es not belor	Menu I Help I Log cod v g to you, please log out.						
Assessment Units Factsheet List Decisions Categories Help											
Monitoring Area Category Decision Unity Year Sold Sold Forest Areas and Category Decision Tanky Late (Mark Sold Sold Sold Sold Sold Sold Sold Sold											
Comprehensive Asses	sment Results he Upelmpairment support rating for the MA as	nat in the decision module	Because the support	tanting is set	in the desiries module there values are not a	Stable Thirtable -	mulder the details	of the factilities an ensurement survey			
Decision ID	Use	Inpairment	Pollutare?		Remedial Program in Place?		mpleted?	TMOL Schedule	Use Support	Rating	Tweatened
1	Cold freshwater habitat	Ammonia	Yes	No		No		2004	Not Supporting		Yes
Aggregated Use Suppor	t t Ratings he use support and apprepates the information o	a designed above for this -	andreas and Press		un auffrathana data hana hana ar	n			abala balan latan	and the block of	A second second size where
This table summarizes t	he use support and apprepates the information of		onitioning area. Those	monitoring a	areas that have data, have been assessed and t	herefore have uses	that are either supp	porting or not supporting. The or Final Use Support Rating	nbols below let someon		Category
Apricultural supply							Not Assessed			Category 3	
Aquaculture							Not Assessed			Category 3	
Cold freshmater habitat							Net Supporting		(ree below)		
Commercial or recreation	inal collection of fish, shelfish, or organisms						Not Assessed			Category 3	
Estuarine habitat							Not Amerred			Category 3	
Fish migution							Not Assessed			Category 3	
Fish spawning							Not Assessed			Category 3	
Freshwater replanishme	int .						Not Americad			Category 3	
Oround water recharge							Not Assessed			Category 3	
Hydropower generation							Not Assessed			Category 3	
Industrial process suppl	r						Not Amerred			Category 3	
Industrial service supply							Not Assessed			Category 3	
Municipal and domesti	c puppiy						Not Americad			Category 3	
Noncontact water recre.	ition .						Not Agreed			Category 3	
Warn theshwater habita							Not Assessed			Category 3	
Water contact recreation	,						Not Atterred			Category 3	
Wildlife Nabitat							Not Assessed			Category 3	
USEPA 305(b) Category Category assignments sh	International In										
Impairm		Final Impairment Rat	ng l	_	Calculated Categor	y .			rride Calculated Catego	a	
Annosia Nu Supporting Category SA Category SA Category SA											
Submit	×	1									

Figure 15.23 Search Results for a Category Decision

The fields at the top of the screen allow you to search for a specific Monitoring Area by selecting the year for which an assessment is being performed, the related Regional Board, the related Assessment Unit ID and, finally, the specific Monitoring Area ID.

The Listing Year and Board fields are used to filter the list of Assessment Units (AUs) available. The list of Monitoring Areas is filtered by the combination of Listing Year, Board and AU field values. The buttons located to the right of the AU and MA fields can be used to scroll through the list of available values as an alternative to selecting values from the drop-down menus.

For any given Monitoring Area, the Comprehensive Assessment Results, Aggregated Use Support Ratings and USEPA 305(b) Determinations tables display information that has been recorded using the GeoWBS Online Editor pages.

Comprehensive Assessment Results Table

This table lists all of the decisions that have been submitted for the Monitoring Area. The information contained within the table is input via the *Decisions* page and provides the details of the fact sheet assessment process. The values are read-only.

Aggregated Use Support Ratings Table

This table summarizes the final Use Support Ratings for the beneficial uses assigned to this Monitoring Area. The information is aggregated from the Comprehensive Assessment Results Table. To specify a Use Support Rating for a use if one has not already been determined (for which no decision exists) select a value from the *Final Use Support Rating* drop-down menu.

USEPA 305(b) Determinations Table

This table shows the Category assignments (305(b) 4C, 5A, and 5B) for each Impairment/Use pair shown in the Comprehensive Assessment Results Table. The system calculates the appropriate Category from a set of rigid logical rules. It is possible to override this calculated Category by selecting a new Category from the *Override Calculated Category* drop-down menu.

The Comments field allows you to input comments that will be applied to the 303(d) assignments.



When all changes to the Use Support Ratings and Categories have been made, click the "Submit" button to save all changes. This also generates the Summary sentence at the bottom of the page.

16 GeoWBS Desktop Editor

This chapter addresses the following topics:

- Introduction to the Desktop Editor
- Toolbars and functions
- Creating Assessment Units and Monitoring Areas
- Uploading information to the CIWQS EDM

16.1 Introduction

The primary function of the GeoWBS Desktop Editor is to define Assessment Units and Monitoring Areas for the purpose of uploading the information to the CIWQS Online Editor. The Desktop Editor was developed as an extension for ArcMap, an ArcGIS application developed by ESRI. It allows for the editing and management of geospatial water body features and their basic attributes. The Desktop Editor provides the most robust reporting platform of all the GeoWBS components.

This chapter focuses on how to use the GeoWBS ArcMap extension to create Assessment Units and Monitoring Areas and upload the information to the CIWQS database It does not cover all aspects of ArcMap. For additional information on the features and tools of ArcMap, use the ArcMap "Help" menu or visit the ESRI Web site at http://www.esri.com/.

16.2 Getting Started

The Desktop Editor is the only GeoWBS component that is not available through the CIWQS online interface. It can be accessed using the MetaFrame Presentation Server Client found at <u>http://citrix.tetratech-ffx.com/citrix/metaframe</u>. MetaFrame establishes an intranet connection between your computer and the server that houses the GeoWBS application and data.

It is not necessary to have ArcGIS installed on your computer to access the Desktop Editor.

16.2.1 Opening the Desktop Editor

To run the Desktop Editor, open the MetaFrame site (using your internet browser) and log into the GeoWBS server. Accessing this site brings you to the MetaFrame login page (Figure 16.1).

CITRIX	Web Interface for MetaFrame [®] Presentation Server	
Log in User name: Password:	Welcome Please log in To log in to MetaFrame Presentation Server, enter the credentials required, and then click Log I If you do not know your log in information, please contact your help desk or system administration	
Domain:	Anced Options >>> Log In	

Figure 16.1 Login Page for the MetaFrame Presentation Server

To log in to the system, enter the appropriate username, password and domain information and click the "Log In" button.

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Contact a System Administrator if you do not have login information or if you have difficulty accessing the system.

When you have successfully logged in, the page refreshes to show the MetaFrame Applications window (Figure 16.2).

6 😓 6	Welcome
	MetaFrame Presentation Server Applications
	Welcome to your personalized view of your MetaFrame Presentation Server applications. The Applications box contains icons for the applications that you can use. Click an icon to launch an application. Click Refresh to view the latest applications. Click Settings to change your settings. Click a folder icon to displa its contents. If you have problems using an application, please contact your help desk or system administrator for more information.
	Message Center
	The Message Center displays any information or error messages that may occur.
	cMap connect Log Off

Figure 16.2 MetaFrame Applications Window



Error messages displayed on the MetaFrame Applications frame will not necessarily prevent you from accessing the

GeoWBS Desktop Editor. Contact a System Administrator if you have problems accessing the application.

The GeoWBS Desktop Editor can be accessed by clicking on the ArcMap icon within the Applications frame.



Your MetaFrame session will time out after a certain period of inactivity in the Desktop Editor. Simply click the "Reconnect" button to reestablish your connection.

When you are finished using the Desktop Editor, click the "Log Off" button at the bottom of the Applications frame to end the MetaFrame session.



Clicking the ArcMap icon (ArcMap) establishes an ICA connection with the GeoWBS server and opens an instance of ArcMap within ArcGIS 9. Before ArcGIS will load, however, a dialogue window is presented that asks what access level you would like to grant the CITRIX server (Figure 16.3).

🛃 Client File Security	\mathbf{X}
CITRIX	
A server application is trying to access your local client files.	
What access should be allowed?	
No Access	
Read Access	
C Full Access	
 Do you want to be asked again? Always ask me 	
Never ask me again for this server	
🔿 Never ask me again	
OK Cancel	

Figure 16.3 Citrix MetaFrame Connection and ArcGIS 9

For full access to all of the GeoWBS data, select the "Full Access" radio button and click "OK".



Citrix Independent Computing Architecture (ICA)

When you launch ArcMap through the MetaFrame application frame, a connection to the GeoWBS server is automatically established. Evidence of this connection is displayed in your start menu in the form of the ICA icon (2). Clicking on this icon opens the Program Neighborhood Connection Center (see figure below). This window shows all open connections. If there are no connections shown in this window, you will be unable to access ArcMap.

ICA connections	Server
⊟-∰ Active ⊟-∰ TTDFFXS-SENECA	Disconnect
geowbs.mxd - ArcMap - ArcView - \\R	Full Screen
	Properties
	Logoff
	File Security
	Audio Securit
	Application
<	Terminate
1 Server used, 1 Remote Applications	Help
	ОК

ArcMap opens with the startup dialogue box (Figure 16.4). To open the file containing the GeoWBS data, click the *An existing map*: radio button and select the file that ends with "…\Desktop\geowbs.mxd".

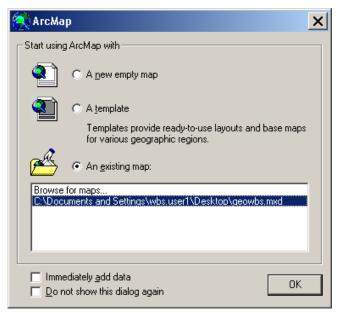


Figure 16.4 ArcMap Startup Dialogue Box

Click "OK" to open the file. The ArcMap project window is populated with the geowbs.mxd data (Figure 16.5).

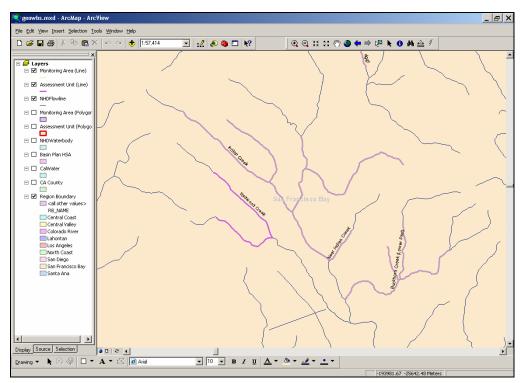


Figure 16.5 ArcMap Project Window Showing the geowbs.mxd Data File

The project window has four main components:

• Menus

- Toolbars
- Table of contents
- Map frame

The menus ("File", "View", "Tools", etc. at the top of the screen) provide access to the tools and features of ArcMap. Menu selections are described throughout this chapter as they apply to the topic under discussion.

ArcMap toolbars contain various controls that allow you to manipulate shape and attribute data. The GeoWBS toolbars contain additional tools for defining and establishing Assessment Units and Monitoring Areas.

The table of contents frame displays the data layers available for use in the Desktop Editor application. Layers are described in further detail below.

The map frame displays the map features, as selected. Here, Assessment Units and Monitoring Areas can be added, manipulated, and deleted using the GeoWBS toolbar options.

16.2.2 Layers

The maps displayed in the map frame are made up of layers of information.

Each layer contains two types of data:

- Spatial data: Information about the location and shape of, and relationships among, geographic features.
- Attribute data: information related to the features on the map, such as Assessment Unit IDs and stream lengths

Layers are composed of sets of similar information. For example, Assessment Units represented as lines on the map (rivers and streams) compose one layer while NHD waterbodies (lakes and ponds) make up another. In this way, it is possible to view specific pieces of information by controlling what layers are displayed on your map.

Layers available for use in ArcMap are displayed in the Table of Contents frame to the left of the map. Within this frame, all available layers are listed along with the symbol (or symbols) used to represent them within the map frame.

The checkboxes next to each layer are used to turn each layer "on" or "off" in the map frame. Layers that are currently available (visible in the map

frame) have dark checkboxes next to them $(\mathbf{\square})$ and layers that are not available (not visible in the map frame) have empty checkboxes (\Box) .

16.3 The ArcMap and GeoWBS Toolbars

As mentioned in the beginning of the chapter, the primary functions of the Desktop Editor are to create Assessment Units and Monitoring Areas and assign attribute data to these features. These tasks are carried out using the tools found on the ArcMap and GeoWBS toolbars.

Toolbars

All toolbars within ArcMap can be viewed as floating toolbars within the map frame, or they can be "docked" to the top, sides or bottom of the project window. To move a toolbar, click the blue bar at the top (if it is floating) or on the left side of the toolbar (if it is docked) and drag it to a new location. Only floating toolbars display the toolbar name at the top. Toolbars that are docked do not display the name of the toolbar.

16.3.1 ArcMap Toolbars

While the GeoWBS toolbars contain the majority of functions used in the creation of Assessment Units and Monitoring Areas, some of the tools found on the ArcMap toolbars are essential to carry out basic feature manipulation within the map frame.

There are two toolbars in particular that will be used regularly: the "Standard" (Figure 16.6) and the "Tools" toolbars (Figure 16.7).



Figure 16.7 Tools Toolbar

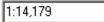
Standard Toolbar

The Standard toolbar is typically found docked to the top of the project window. This toolbar contains many common tools such as "Create New

File", "Open File", "Save File", and "Print", along with some additional features specific to ArcMap. The tools that are most commonly used are described below.

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<u>Add Data</u> – This control allows you to add another shape file to the project window.



-<u>Scale</u> – This drop-down menu displays the current map scale. Selecting a value from the drop-down menu refreshes the map to the selected scale.

<u> 12</u> What's This? - Click on this control and then on other objects within the project window to open a help window with an explanation of the selected feature.

Tools Toolbar

The Tools Toolbar can also be found docked to the top of the project window. This toolbar contains many of the controls used to navigate around the map and to select features from the layers.

 \odot Zoom In – To zoom in centered on a particular location on the map, click that position once with this tool. To zoom in to a particular area on the map, click and drag a box over the area with this tool.

 \odot Zoom Out – To zoom out centered on a particular location on the map, click that position once with this tool. To zoom out to a particular area on the map, click and drag a box over the area with this tool.

лĸ. <u>Fixed Zoom In</u> – Zooms in on the center of the data on your map to 75% of the current scale.

К.Я. К.М. Fixed Zoom Out – Zooms out on the center of the data on your map to 125% of the current scale.

ংশ Pan – This control allows you to pan the data in your map by dragging the display in any direction. Click on an area of the map with the left mouse button and drag the display to the desired location.

Full Extent - Zooms to the full spatial extent of all of the layers in the map view.

Go Back to Previous Extent – Redraws the map at the previous map extent. Click this button to go back to where you were before you zoomed or panned.

Go to Next Extent – Redraws the map at the next map extent in the sequence. Click this button to return to where you were before clicking the "Go Back to Previous Extent" control.

Select Features – Use this tool to select features on the map. This can be done either by clicking an individual feature (point, line or polygon) or by clicking and dragging a box around a set of features. Features that fall partly or wholly inside the box you define are selected. To select more than one feature, hold down the SHIFT key when you use the tool.

<u>Select Elements</u> – This tool lets you select, resize, and move:

- Map elements drawn on your map in layout view
- Graphic elements (such as lines and boxes) drawn on your data from or on the map layout
- Text elements drawn on your data frame or on your map layout

Identify – Use this tool to get information about features on the map. When you click on a feature with this tool (or click and drag a box around a group of features), a window opens showing the attributes of that feature (e.g., a lake or a stream). The attributes displayed depend on the characteristics of the type of feature you select.

Find – This control allows you to find specific features on the map using the attribute data of those features. Clicking this control opens the Find window where you can enter search criteria to find the targeted features.

Measure – This control allows you to calculate the distance between two or more points on the map. To use this feature, click on the measure button on the Standard Toolbar. The cursor changes to a small ruler icon. Click on your starting point and then move the cursor to the end point. The distance measured is displayed in the status bar in the lower right corner of the window. You can drag the cursor to multiple locations, clicking to establish new points, or double-clicking to end the measure action.

×.

<u>Hyperlink</u> – This control allows you to open hyperlinks that have been associated with map features.

16.3.2 Activating the GeoWBS Extension

To use the GeoWBS toolbars, the GeoWBS Extension must first be activated within ArcMap. Open the "Tools" menu and click on the "Extensions..." option. This opens the Extensions window (Figure 16.8).

Extensions	? ×
Select the extensions you want to use.	
ArcPress	
GeoW/BS	_
Spatial Analyst	
Description:	
3D Analyst 9.0 Copyright @1999-2004 ESRI Inc. All Rights Reserved	
Provides tools for surface modeling and 3D visualization.	
About Extensions	Close

Figure 16.8 Extensions Window

Select the checkbox next to the GeoWBS option if it is clear. Then click the "Close" button to activate the change.

16.3.3 The GeoWBS Toolbar

You can now open and log into the GeoWBS toolbar. Open the "View" menu and click on the "Toolbars" option. This opens the list of all available ArcMap toolbars. Click on the "GeoWBS 1.0" toolbar option to open this toolbar in the project window (Figure 16.9).

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Alternatively, right-click in the toolbar area at the top of the project window to display all available ArcMap toolbars and select the "GeoWBS 1.0" toolbar from the list.

GeoWBS 1.3 Build: 9.20.2005.1								
5	H	ď	•\$	2	<u>A</u> ssessment Unit▼	Monitoring Area 💌	Utility 🔻	<u>R</u> eport 🔻

Figure 16.9 GeoWBS Toolbar

The GeoWBS toolbar contains a set of tools and menus that can be used to create and maintain Assessment Units and Monitoring Areas. Initially, many of these features are unavailable. To access all utilities, you must first log in to the toolbar.

Click the log in control to the left of the toolbar (⁴⁷). This opens the GeoWBS login window. Enter your User name and password and click "OK" (Figure 16.10).

Once you have successfully logged in, a window opens showing your User Name, the numbers of the Water Boards to which you have access, the cycle year, working region, and a list of all Assessment Units and Monitoring areas within your jurisdiction (Figure 16.11). Click the "Close" button at the lower right to remove this window from the page.

📜 Login 🛛 🗙								
Please type in your user name and password for logging into GeoWBS system. User name and password are all case sensitive. If you have any problem to login, please ask GeoWBS system administrator for help.								
User Name :								
Password :								
<u>O</u> K <u>C</u> ancel								

Figure 16.10 GeoWBS Login Window

GeoWBS System Info (Version: 1.3)						
User Name: Water Board:	Fiona Renton 1,2,3,4,5,6,7,8,9					
Cycle Year: Working Region:	2006 Region 1 - North Coast					
		<u>S</u> ave	<u>C</u> lose			

Figure 16.11 GeoWBS System Information Window.

If you have access to only a single working region, you are asked whether you wish to zoom to view the whole area of your region. Click "OK" to change the zoom or click "Cancel" to retain the current view. You now have access to all controls and menu items on the GeoWBS toolbar.

GeoWBS Toolbar Controls

Log out – Replaces the "Log in" control. Click this icon to log out of the toolbar.

Session Info – Opens the GeoWBS System Information Window (as shown in Figure 16.11).

Setup – Opens the GeoWBS System Setup window (Figure 16.12). The System SetUp window allows you to change what information is displayed in the map and layer frames and how it is displayed.

Use the drop-down menus to change the cycle year and region. This limits which Assessment Units and Monitoring Areas are visible in the map frame.

Enter a number between 1 and 20 in the *Feature Select Threshold* field to control the sensitivity of select and snapping actions.

When using the Simple Select tool (For line features or for polygons), for example, a feature select threshold value of 1 means that the features very near (within 1 pixel of) the selection area will be selected; a value of 20 means that a more general area (within 20 pixels) will be selected.

🖹 GeoWBS System SetUp 🛛 🗙							
Change Cycle Year to switch assessment cycle you are going to work in. Feature Select Threshold will be used to control the snapping operation. Tracing Feature Limitation is used to limit the maximum number of stream segment in one tracing operation. The color options are used to customize the display of AU/MA graphics on the screen.							
Cycle Year : 2005 - Begion : Region 4 - Los Angeles							
Eeature Select Threshold : 4 Pixels On Map							
Iracing Feature Limitation : 100 Features at Maximum							
Display Options for Assessment Units Display Options for Monitoring Areas							
AU Graphics Interior Color :	IA Graphics Interior Color :						
AU Graphics <u>B</u> oundary Color :	IA Graphics <u>B</u> oundary Color :						
<u>D</u> K <u>C</u> ancel							

Figure 16.12 GeoWBS System SetUp Window

The feature select threshold is only used when a single click is made using the Simple Select tool, as when trying to select a single feature from among several features. The feature select

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threshold is not used when a selection window is created by a click-and-drag selection using the Simple Select. In this case, only features that are within or intersect the selection window are added to the selection, not all the features within the threshold distance.

Enter a number in the *Tracing Feature Limitation* field to set the maximum number of features that can be selected using the trace tools (Trace Between, Trace Up, Trace Down). The tracing feature limitation value must be between 10 and 100.

Click the colored rectangles within the Display Options sections to change the display colors for Assessment Units and Monitoring Areas.

Line Editor – Opens the GeoWBS Line Editor Toolbar (described below).

Polygon Editor – Opens the GeoWBS Polygon Editor Toolbar (described below).

GeoWBS Toolbar Menus

In addition to the toolbar controls, there are four menus available on the GeoWBS toolbar.

Assessment Unit

The Assessment Unit menu contains options that allow you to create, update, search, assign beneficial uses to, or attach documents to an Assessment Unit (Figure 16.13). These features are described in section 16.5.1 below.



Figure 16.13 Assessment Unit Menu

Monitoring Area

The Monitoring Area menu contains options that allow you to create, update, search, or attach documents to a Monitoring Area (Figure 16.14). These features are described in section 16.5.2 below.

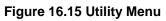


Figure 16.14 Monitoring Area Menu

Utility

The Utility menu provides access to the Layer Validation, Assessment Unit Confirmation, Monitoring Area Confirmation, Synchronization, Browse, Attach State Document, Mapping, and Cycle Migration features (Figure 16.15). The various utility options are discussed in section 16.5.3 below.

GeoWBS 1.3 Build: 9.20.2005.1	×
🔄 🗄 🧬 💰 🕢 Assessment Un	nit▼ Monitoring Area ▼ Utility ▼ Report ▼
	Layer Validation
	Assessment Unit Confirmation
	Monitoring Area Confirmation
	Synchronization
	Browse
	Attach State Document
	Mapping
	⊆ycle Migration



Reports

The Reports menu allows you to create and print various reports to satisfy EPA and California State requirements (Figure 16.16). Report options available through the GeoWBS toolbar are discussed in section 16.5.4 below.

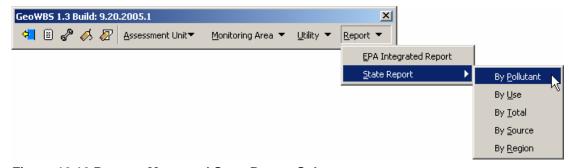


Figure 16.16 Reports Menu and State Report Submenu

16.3.4 The GeoWBS Line Editor Toolbar

The GeoWBS Line Editor toolbar is used to create both Assessment Units and Monitoring Areas that are linear features (Figure 16.17). Linear features are created by selecting particular sections of NHD rivers and streams from the "NHD Flowline" layer. These selections are then designated as either Assessment Units or Monitoring Areas.

To open the GeoWBS Line Editor toolbar, click the Line Editor control

(\checkmark) on the GeoWBS toolbar or open the toolbar using the "View" menu at the top of the project window (as described above).

GeoWBS Line Editor									
New 💽 Assessment Unit 💽 🚿 % 🎤 🥜 🥙 🛠 🕸 🖇	8								

Figure 16.17 GeoWBS Line Editor Toolbar

The Line Editor toolbar contains two drop-down menus and a suite of tools used to manipulate line features within the map frame.

The first drop-down menu (New) allows you to set the operation used to create the feature. This is the *Set Op* drop-down menu. The *SetOp* menu options are described in detail below.

The second drop-down menu (Assessment Unit) determines whether the selection will be designated as an Assessment Unit or Monitoring Area or whether the current tool will select an Assessment Unit or Monitoring Area. This is the *Feature Selection* menu.



Be sure to check the setting in the feature menu (Assessment Unit) before performing an action on a feature within the map frame.

GeoWBS Line Editor Toolbar Controls

<u>Clear Line</u> – Clears the GeoWBS selection set. This control has no effect on features selected using the ArcMap selection tool (on the Standard toolbar). Each selected feature must be cleared individually, both individual Monitoring Areas and Assessment Units.

<u>Convert Line</u> – Converts features selected using the ArcMap selection tool into a GeoWBS selection set.

Simple Select Line – Allows you to select line features. You will not be able to add to this set by holding down the SHIFT key and clicking on multiple stream reaches. It is only possible to add to the selection using the *SetOp* drop-down menu (the *SetOp* menu functions are described below).

Trace Between Two Points – This control allows you to add or remove stream segments from a selection by selecting two points along an NHD reach. You must set snapping options to use this feature (see section 16.4.1).

Trace Upstream – This control allows you to add or remove an upstream stream segment from the current selection. You must set snapping and tracing options to use this feature (see section 16.4.1).

<u>Trace Downstream</u> – This control allows you to add or remove a downstream stream segment from the current selection. You must set snapping and tracing options to use this feature (see section 16.4.1).

<u>Measure</u> – This control allows you to measure the distance between two locations along NHD stream reaches. You must set snapping options to use this feature (see section 16.4.1).

Flip Linear AU to MA – This converts a selected Assessment Unit to a Monitoring Area.

<u>Offset</u> – This control allows you to shift a Monitoring Area to the left or right of the underlying features (Assessment Unit, Monitoring Area, or NHD feature).

To use the Offset tool, first select the Monitoring Area you wish to shift. Then, click the offset control on the Line Editor toolbar. The Offset Linear Entity window opens, prompting you to enter an offset distance (Figure 16.18). Enter a number into the *Offset* field and click "OK" to activate the change. The selected Monitoring Area will be displayed either to the left or right of the underlying Assessment Unit.

🐂 Offset Linear Entity	×						
Specify an offset distance in the text box below. A positive number will shift the linear entity to the left side of the stream flow direction. A negative number will shift the linear entity to the right side of the stream flow direction.							
O <u>f</u> fset : [5]							
<u>N</u> o Offset <u>O</u> K <u>C</u> ancel							

Figure 16.18 Offset Linear Entity Window

The number input in the *Offset* field assumes the units of the current map projection. If the map is displayed using meters, for example, and "5" is entered in the field, the Monitoring area will be offset from the underlying feature by 5 meters. The units of the current map projection are displayed in the status bar in the lower right corner of the window.

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The Offset tool can only be used on one Monitoring Area at a time – each must be moved individually.

Each Monitoring Area must be returned to its original location manually, again using the Offset tool. Select the Monitoring Area (make sure Monitoring Area is selected in the feature selection drop-down menu), select the offset tool from the Line Editor Toolbar, and either clear the *Offset* field or set it to zero to restore the Monitoring Area to its original position.

Select Line Entity – Allows you to select an existing Assessment Unit or Monitoring Area (depending on which is selected in the feature selection drop-down menu).

<u>Delete Line Entity</u> – Allows you to delete an existing Assessment Unit or Monitoring Area. The feature does not need to be selected. You will be prompted to confirm the decision to delete the entity. Deleting an Assessment Unit or Monitoring Area deletes all information related to the feature but does not delete the NHD stream reach on which the feature was based.

16.3.5 The GeoWBS Polygon Editor Toolbar

The GeoWBS Polygon Editor toolbar is used to create both Assessment Units and Monitoring Areas that are designated as polygonal features (Figure 16.19). Polygonal features are created by selecting entire or partial areas of NHD lakes, ponds and coastlines from the "NHD Waterbody" layer. These selections are then designated as either Assessment Units or Monitoring Areas.

To open the GeoWBS Polygon Editor Toolbar, click the Polygon Editor

control (²²) on the GeoWBS toolbar or open the toolbar using the "Veiw" menu at the top of the project window (as described above).

GeoWBS Polygon Editor									X		
New	•	Assessment Unit 💌			₽\$ *	۴	D	\square	*	D};	X

Figure 16.19 GeoWBS Polygon Editor Toolbar

The Polygon Editor toolbar contains two drop-down menus and a suite of tools used to manipulate polygon features within the map frame.

The first drop-down menu ($\boxed{\text{New}}$) allows you to set the operation used to create the feature. This is the *Set Op* drop-down menu. The *SetOp* menu options are described in detail below.

The second drop-down menu (Assessment Unit) determines whether the selection will be designated as an Assessment Unit or Monitoring Area or whether the current tool will select an Assessment Unit or Monitoring Area. This is the *Feature Selection* menu.



Be sure to check the setting in the feature menu (Assessment Unit) before performing an action on a feature within the map frame.

GeoWBS Polygon Editor Toolbar Controls

Clear Polygon – Clears the GeoWBS selection set. This control has no effect on features selected using the ArcMap selection tool.

<u>Convert Polygon</u> – Converts features selected using the ArcMap selection tool into a GeoWBS selection set.

Simple Select Polygon – Allows you to select polygon features from the "NHD Waterbodies" layer. You will not be able to add to this set by holding down the SHIFT key and clicking on multiple waterbodies. It is only possible to add to the selection using the *SetOp* drop-down menu (the first one on the GeoWBS Line Editor toolbar).

Draw Polygon – This control allows you to draw a polygon of any size and shape to designate as either an Assessment Unit or Monitoring Area. To draw a polygon, click the Draw Polygon control and click along the border of the polygon you wish to draw. This sets the first point. Set the next and any additional points by clicking the mouse around the perimeter of the polygon you wish to draw. Double-click to place the final point. You can now add or remove pieces from the polygon using the other Polygon Editor tool.

<u>Draw Coastal Polygon</u> – This tool allows you to draw a polygon between a coastline and an intersecting stream. To use this tool:

 Click and drag a box around the coastline and stream that you wish to have border the area using the "Select Features" tool (Figure 16.20)

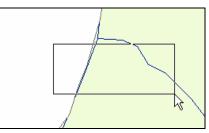


Figure 16.20 Selecting a Coastline and Bordering Stream

 Select the "Draw Coastal Polygon" tool and draw a line that intersects the coastline and the stream, creating a polygon. Double-click to close the polygon (Figure 16.21)

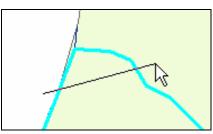


Figure 16.21 Creating a Polygon

3. The resulting polygon is created from the enclosed area (Figure 16.22)

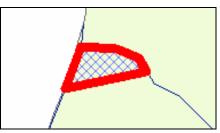


Figure 16.22 Resulting Polygon

Split Polygon – This control is used to split an existing polygon graphic into two coincident polygons. The split is formed along a user-defined line. To use this tool:

1. Select a polygon feature (from the "NHDWaterbody" layer, for example) using the "Select Features" tool (Figure 16.23)

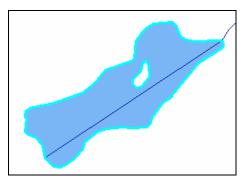


Figure 16.23 Select a Polygon Feature

2. Use the "Convert Polygon" tool to change the ArcMap selection to a GeoWBS selection (Figure 16.24)

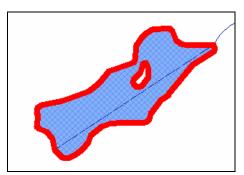


Figure 16.24 Convert the Polygon to a GeoWBS Selection

3. Select the "Split Polygon" tool and draw a line through the selected polygon by clicking the mouse button. Double click to end the line (Figure 16.25)

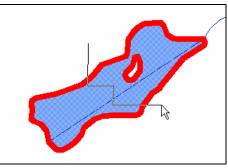


Figure 16.25 Draw a Line Using the Split Polygon Tool

4. The polygon will be divided into two pieces by the line drawn (Figure 16.26)

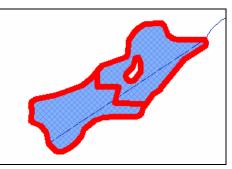


Figure 16.26 Resulting Polygons

Flip Polygon AU to MA – Converts a selected Assessment Unit to a Monitoring Area.

Select Polygon Entity – Allows you to select an existing Assessment Unit or Monitoring Area (depending on which is selected from the feature selection drop-down menu).

Delete Polygon Entity – Allows you to delete an existing Assessment Unit or Monitoring Area. The feature does not need to be selected. You will be prompted to confirm the decision to delete the entity. Deleting an assessment Unit or Monitoring Area deletes all information related to the feature but does not delete the NHD waterbody on which the feature was based.

16.4 Creating Linear and Polygonal Features

As mentioned above, Assessment Units and Monitoring Areas can be created as either line or polygon features. This section describes how the tools of the Line and Polygon Editor toolbars can be used to select NHD streams, rivers, lakes, ponds and coastal regions to create new Assessment Units and Monitoring Areas.

See Chapter 13 for more information on how GeoWBS map features are represented.

Before you attempt to select or manipulate features in the map frame, make sure that the correct Selectable Layers have been set. To check this, open the "Selection" menu from the File toolbar (at the top of the window) and click "Set Selectable Layers". This opens a window showing a list of available layers. Be sure to select Assessment Unit, Monitoring Area, NHD flowline, and NHD waterbody at a minimum.

16.4.1 Snapping and Tracing Options

You must set snapping and/or tracing options when using the Trace Between, Trace Up and Trace Down tools on the Line Editor toolbar. When these tools are selected, clicking on a stream or river opens a window prompting you to either set snapping options (Figure 16.27) or snapping and tracing options (Figure 16.28).



When tracing, a circle denotes the upstream extent of the trace and a square denotes the downstream extent of the trace.

Options to Define Tracing Point	X	
Snapping Option		
Snap to nearest point along the stream		
Snap to nearest end node of the stream		
Start over as first tracing point		
<u>Continue</u> <u>C</u> ancel		

Figure 16.27 Setting Snapping Options

Setting a snapping option requires you to choose whether the point you select will be placed on the nearest point along the stream or whether the point will be placed at the nearest end node of the stream. If you have already placed a point, you will have the option of starting over by selecting the "Start over as first tracing point" checkbox. This clears your previous selection. When using the Trace Up and Trace Down tools, you must set Snaping Options and Tracing Options. After placing the first tracing point, you will be automatically prompted to select one tracing option – either to continue the trace to the end of the main stream, or to trace to a specified distance up or down the stream.

📬 Options to Trace Down 🗙
Snapping Option
 Snap to nearest point along the stream
C Snap to nearest end node of the stream
_ Iracing Option
 To the end of the main stream
C To the <u>distance along</u> the main stream miles
Continue (<u>Cancel</u>)

Figure 16.28 Setting Snapping and Tracing Options

The "To the distance along the main stream" function is always measured in miles.

16.4.2 Using the SetOp Menu

The Set Operation (SetOp) drop-down menu is used to create new and/or edit feature selections. The tools are used in the same way to create Assessment Unit and Monitoring Areas though the selections must conform to the rules set for each feature type.

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See Chapter 13 for more information on the guidelines set for creating Assessment Units and Monitoring Areas.

There are five types of operations:

- New;
- Union;
- Intersect;
- Subtract; and
- XOR (exclusive or).

To use the options, first select either Assessment Unit or Monitoring Area from the *Feature Selection* drop-down menu (to the right of the *SetOp* menu). Next, select an operation from the *SetOp* menu. Then select either

the Trace Between, Trace Up, or Trace Down tools to select features on the map. Using more than one operation allows you to build on existing selections to customize the boundaries of the targeted area.

The following sections give examples of how each of the five operations can be used to create an Assessment Unit.

New

The New operation will be the first one used when creating a new Assessment Unit.

To begin, be sure that "New" is the selected value in the *SetOp* menu and that you have selected "Assessment Unit" in the adjoining menu. Use the "Simple Select Line", "Trace Between", "Trace Up", or "Trace Down" tool to select an NHDFlowline feature on the map that you wish to include in your Assessment Unit (Figure 16.29). Be sure to select the correct snapping and tracing options if you use one of the latter three tools. The stream in Figure 16.28 was selected using the "Simple Select Line" tool.

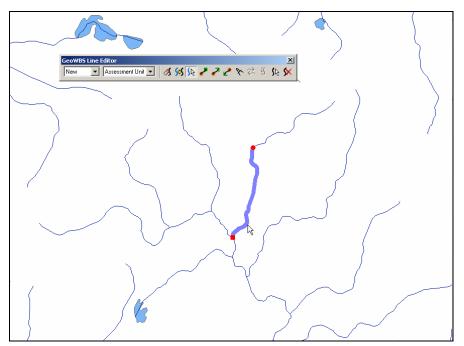


Figure 16.29 Creating a New Assessment Unit

At this time, you could save the selected stream as an Assessment Unit by selecting "Create Assessment Unit" from the Assessment Unit menu on the GeoWBS toolbar. Alternatively, you can use the other *SetOp* options to add or remove features to the selected area.

Clicking the map away from the selected feature clears the selection.

Union

The Union option allows you to add on to the current selection.

To use the Union option on the stream selection from the previous section, first change the *SetOp* value to "Union". Next, select one of the four selection tools from the Line Editor toolbar to select a stream (or a portion thereof) to add to the existing selection, extending the size of the Assessment Unit. Figure 16.30 shows the result of adding an upstream reach using the "Trace Between" tool.

The current selection now includes two stream sections. The second piece was created by snapping the selected point to the nearest point along the stream.



The open endpoints indicate that this stream selection only covers a part of a stream reach, not its entire length.

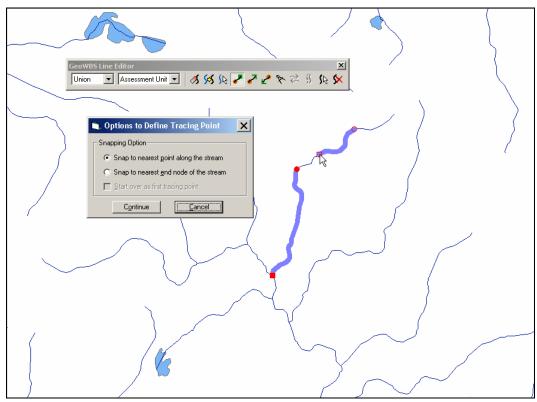


Figure 16.30 Using the Union Option and the Trace Between Tool to Add to an Existing Feature Selection

Intersect

The Intersect option creates a new selection that includes lines that are common to (intersect with) the existing selection and the line drawn while the Intersect option is selected. This operation cannot add any lines to the selection. It can be used to selectively remove areas from the selection.

To use the Intersect option on the stream selection from the previous section, first change the *SetOp* value to "Intersect". Next, select one of the four selection tools from the Line Editor toolbar to select a stream (or a portion thereof). Figure 16.31 shows the result of using the "Trace Up" tool. A point near the downstream end of the stream reach selected initially (using the "New" option) was selected and the tracing option was set to trace one mile up the stream.

The resulting selection shows the stream reaches that were common to both the original selection and the selection made with the "Trace Up" tool.

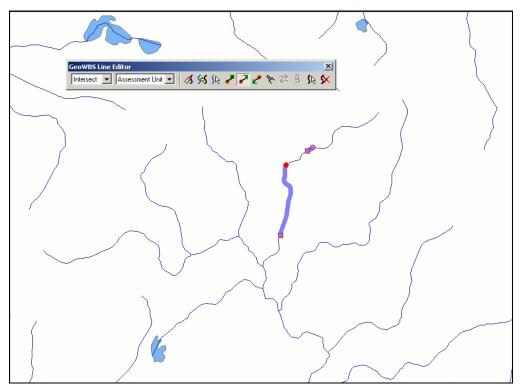


Figure 16.31 Altering a Selection With the Intersect Option

Subtract

The Subtract option removes any portion of a selection that is common to (intersects with) the existing selection and the line drawn while the Subtract option is selected.

To use the Subtract option on the stream selection from the previous section, first change the SetOp value to "Subtract". Next, select one of the four selection tools from the Line Editor toolbar to select a stream (or a portion thereof). Figure 16.32 shows the result of using the "Trace Down" tool. A point near the middle of the stream reach selected initially (using the "New" option) was selected and the tracing option was set to trace to the end of the main stream.

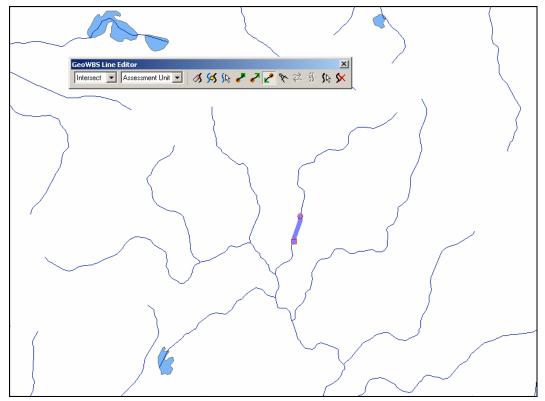


Figure 16.32 Altering a Selection With the Subtract Option

The resulting selection shows the stream reach that was common to both the original selection and the selection made with the "Trace Down" tool.

XOR

Known and read as "exclusive or", XOR results in a selection that includes areas that were not selected while the XOR option was in use. This would include any stream sections that were common to the reach selected that were not previously selected as well as any areas that fell outside of the selected reach.

For this example, a new selection was made using the New and Union options to describe three stream segments with unselected areas in between (Figure 16.33).

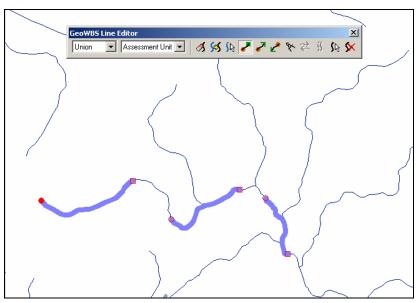


Figure 16.33 Stream Selection Before Using the XOR Option

To use the XOR option on the stream selection shown above, first change the SetOp value to "XOR". Next, select one of the four selection tools from the Line Editor toolbar to select a stream (or a portion thereof). Figure 16.34 shows the result of using the "Trace Between" tool to select a point in the middle of the left stream segment and a second point downstream of the stream segment to the far right.

The resulting selection is composed of the stream segments between the two points that were not previously selected as well as the portion of the left stream segment that fell outside of the selected points.

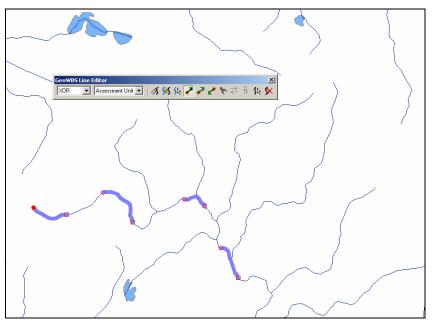


Figure 16.34 Stream Selection After Using the XOR Option

When you have selected the stream reaches for your Assessment Unit, open the Assessment Unit menu on the GeoWBS toolbar and click the "Create Assessment Unit" option. The process of creating new Assessment Units is discussed below.

16.4.3 Creating Polygonal Features

Follow the same steps outlined above to create and manipulate polygonal features using the SetOp tools on the Polygon Editor toolbar.

16.5 The GeoWBS Toolbar Menus

The GeoWBS Toolbar menus allow you to create and maintain Assessment Units and Monitoring Areas and perform various utilities and create several types of Reports. This section describes each of the four menus and the tasks that can be performed with each one.

16.5.1 The Assessment Unit Menu

Opening the Assessment Unit Menu (by clicking it with the mouse) shows that there are five menu options available:

- Search Assessment Unit;
- Create New Assessment Unit;
- Update Assessment Unit;
- Assign Beneficial Use; and
- Attach Document.

Search Assessment Unit

The Search Assessment Unit option allows you to search for an existing Assessment Unit by AU ID or AU Name. Clicking this option opens the Search Assessment Unit window (Figure 16.35).

Enter the appropriate search criteria into the fields at the top of the window and click the "Search" button.

Click the "Show All" button to display a list of all existing Assessment Units. Click the column headers ("AU ID", "AU Name" or "Shape Type") to sort the list by the column header.

📑 Search	Assessment Unit		×
You can type partial ID or Name into the corresponding text box for a case sensitive search. A combined search will be carried out if both ID and Name are specified. Click Show All button will show all entities available. Click Column Name to sort by that column in ascending or descending order alternatively. Click Locate button or double click a row in the list to locate an entity on the map.			
AU ID :	[<u>S</u> earch
AU Name :			S <u>h</u> ow All
AU ID		AU Name	Shape Type
	Locate	Cle <u>a</u> r <u>C</u> lose	

Figure 16.35 Search Assessment Unit Window

Click on an Assessment Unit and then click the "Locate" button to highlight and zoom to the selected Assessment Unit on the map. Click the "Clear" button to clear all Assessment Units from the window. Click the "Close" button to close the Search Assessment Unit window.

Create New Assessment Unit

The Create New Assessment Unit option is only available if a line or polygon feature is selected in the map frame. Clicking this option when a feature is selected assigns that feature an AU ID and creates a new Assessment Unit record.

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You can only create new Assessment Units in a Region in which you have jurisdiction.

Clicking the option opens the Select Waterbody Type and ID window (Figure 16.36).

🛅 Select Waterbody Type and II) X			
The list of Waterbody Type shows only waterbody types relevant to the shape type of AU. The list of Calwater IDs shows only the IDs of Calwaters that are within the current working region.				
Select Waterbody Type :	Select CalWater ID :			
B - Bay(S) & Harbors E - Estuary L - Lake, Reservoir O - Ocean S - Saline Lake T - Wetland, Tidal W - Wetland, Freshwater	55185201			
<u> </u>	<u>Cancel</u>			

Figure 16.36 Select Waterbody Type and ID Window

Select the appropriate Waterbody Type and CalWater ID and click the "OK" button. This opens the Assessment Unit General Information window (Figure 16.37).

1.				
🚬 Assessment	Unit General Information			
You must specify a name for an assessment unit. For linear assessment unit, Starting Point Location and Ending Point Location are used to describe upstream location and downstream location, respectively. Click Related Places button to view related places.				
Creator : Creation Time : Last Modified By : Last Modified Time	Fiona Renton Sep 9, 2005–03:57:42 PM Fiona Renton : Sep 9, 2005–03:57:42 PM			
Region: I	2006 [Belated Places] Region 1 - North Coast Coastal Shoreline Size : 2,137 Miles			
WB SubType :				
	CAC11530000220050909155759			
	Americano, Estero			
AU <u>D</u> escription :	<u> </u>			
<u>S</u> tarting Point (Upstream)	A			
Location :				
I Ending Point				
(Downstream)	<u> </u>			
Location :	•			
<u>A</u> U Comment :				
	<u>O</u> K <u>C</u> ancel			

Figure 16.37 Assessment Unit General Information Window

Within this window, you are asked to enter an appropriate AU name, description, starting point (or polygon location), ending point. If you are crating a linear Assessment Unit, and you have the opportunity to add comments or select a related place using the "Related Places" button (Figure 16.38).

Within the Related Places window, use the Place Type drop-down menu to select a place. The table below refreshes to show all available option. Select a place by clicking on its name and click the "Close" button.

🚬 Related Places	×		
Select a place type from the pull-down list to see related places of that type.			
Place Type : Basin Plan			
BASIN	CHSANAME		
11530			
Close			

Figure 16.38 Related Places Window

When you have finished entering data in the General Information window click the "OK" button.

This opens the Assign Beneficial Uses window (Figure 16.39).

Assign Beneficial Uses	×
The All Beneficial Use List shows all beneficial uses available with suggested ones highlighted initiall. The Assigned Beneficial Use List shows all beneficial uses assigned to the current Assessment Unit. Click >> or << button to add or remove beneficial uses from Assigned Beneficial Use List.	y.
- Cycle Year : 2006 AU ID : CAC11530000220050909155759 AU Name : Americano, Estero	
- All <u>B</u> enificial Use List : Assigned Benificial <u>U</u> se List :	
Ground water recharge Hydropower generation Industrial process supply Industrial service supply Inland saline water habitat Limited Warm Freshwater Habitat Manine habitat Municipal and domestic supply Navigation Preservation of areas of special biologica Preservation of rare and endangered spe Shellfish harvesting Warm freshwater habitat Water contact recreation Wetland habitat Wildlife habitat Wildlife habitat	
Reload Suggested OK Close Reset Assigned	

Figure 16.39 Assign Beneficial Uses Window

When the window first opens, all suggested beneficial uses are highlighted within the AU Beneficial Use list. Click the "Reload Suggested" button to regain that list at any time.

Select the appropriate beneficial uses and click the ">>" button to add the uses to the list (click and hold the SHIFT key while making selections from the list to add more than one beneficial use at a time).

Click the "Reset Assigned" button to clear the Assigned Beneficial Use list.

When you have finished making your selections, click the "OK" button to save your selections, or click the "Close" button to exit without assigning beneficial uses to the Assessment Unit.

Update Assessment Unit

Use the Update Assessment Unit menu option to update either the shape, attributes or both shape and attributes of a selected Assessment Unit. Clicking this option when an Assessment Unit is selected opens the Update Option window (Figure 16.40).

🐂 Update Option	×
Update Both Shape and Attribute	
O Update Shape Only	
C Update <u>A</u> ttribute Only	
Continue Cancel	

Figure 16.40 Update Option Window

Assign Beneficial Use

Use the Assign Beneficial Use menu option to add or change beneficial uses for a selected Assessment Unit. Clicking this option when an Assessment Unit is selected opens the Assign Beneficial Uses window (as shown in Figure 16.39 above). Add or change beneficial uses, as required, and click the "OK" button to save your changes.

Attach Document

Use the Attach Document menu option to attach documents as part of the attribute data of a selected Assessment Unit. Clicking this option when an Assessment Unit is selected opens the Attachment window (Figure 16.41).

LP

Documents can only be attached to COMMITTED Assessment Units. Assessment Units are committed using the Utilities menu.

Click the "Attach File" button to search and find available files to add to the list. Select a file and click the "Remove File" button to remove a file from the list.

🗎 Attachn	ent		×
Click Attach File button to select a file for attachment. Click Remove File button to remove an attachment. Click Download File button to save an attachment as a local file. A user can choose an appropriate application to view the downloaded file.			
Cycle Year: 2006 Attachment for AUID CAR5518420120050527160528			
File Name	Description	Туре	Up
			_
			-
	-		
•			▶
Attach	File Remove File Download File	Elose	

Figure 16.41 Attachment Window

Select a file in the Attachments window and click the "Download File" button to download the file to your computer.

Click the "Close" button to close the window.

16.5.2 Monitoring Area Menu

Opening the Monitoring Area Menu shows that there are four menu options available:

- Search Monitoring Area;
- Create New Monitoring Area;
- Update Monitoring Area; and
- Attach Document.

Search Monitoring Area

The Search Monitoring Area option allows you to search for an existing Monitoring Area by MAID or MA Name. Clicking this option opens the Search Monitoring Area window (Figure 16.42).

Enter the appropriate search criteria into the fields at the top of the window and click the "Search" button.

Click the "Show All" button to display a list of all existing Monitoring Areas. Click the column headers ("AU ID", "AU Name" or "Shape Type") to sort the list by the column header.

2	Monitoring Area			×
You can type partial ID or Name into the corresponding text box for a case sensitive search. A combined search will be carried out if both ID and Name are specified. Click Show All button will show all entities available. Click Column Name to sort by that column in ascending or descending order alternatively. Click Locate button or double click a row in the list to locate an entity on the map.				
MA ID :				<u>S</u> earch
MA Name :				S <u>h</u> ow All
MAID		MA Name	Sha	аре Туре
,	Locate	Cle <u>a</u> r <u>C</u> los	e	

Figure 16.42 Search Monitoring Area Window

Click on a Monitoring Area and then click the "Locate" button to highlight and zoom to the selected Assessment Unit on the map.

Click the "Clear" button to clear all Monitoring Areas from the window. And, click the "Close" button to close the Search Monitoring Area window.

Create New Monitoring Area

The Create New Monitoring Area option is only available if a line or polygon feature is selected in the map frame. Clicking this option when a feature is selected assigns that feature an MAID and creates a new Monitoring Area record.



You can only create a new Monitoring Area within a Region in which you have jurisdiction.

This opens the Monitoring Area General Information window (Figure 16.43).

Within this window, you will be asked to enter an appropriate MA name, description, starting point (or polygon location), ending point. If you are crating a linear Monitoring Area, and you will have the opportunity to add comments or select a related place using the "Related Places" button (Figure 16.44).

Within the Related Places window, use the Place Type drop-down menu to select a place. The table below will refresh to show all available option. Select a place by clicking on its name and click the "Close" button.

📑 Monitoring /	Area General Information	×
Description and En	name for a monitoring area. For linear monitoring area, Starting Point ding Point Description are used to describe downstream location and respectively. Click Related Places button to view related places.	
Creator : Creation Time : Last Modified By : Last Modified Time	Fiona Renton Jun 30, 2005 04:26:04 PM Fiona Renton : Jun 30, 2005 04:26:04 PM	
Region : F Waterbody Type : F AU ID : (AU Name : (MA ID : (2006 [Related Places Region 5 - Central Valley River, Stream Size : 4.289 Miles CAR5518520120050630152936 Clear Creek CAR5518520120050630152936_1	
MA <u>N</u> ame : MA <u>D</u> escription :	Clear Creek	
<u>S</u> tarting Point (downstream) or Polygon Location :		
Ending Point (upstream) Location :	-	-
<u>M</u> A Comment :	2	-
	<u>O</u> K <u>C</u> ancel	

Figure 16.43 Monitoring Area General Information Window

📋 Related Places	×				
Select a place type from the pull-down list to see related places of that type.					
Place Type : Basin Plan					
BASIN	CHSANAME				
11530					
Close					



Update Monitoring Area

Use the Update Monitoring Area menu option to update either the shape, attributes or both shape and attributes of a selected Monitoring Area. Clicking this option when a Monitoring Area is selected opens the Update Option window (Figure 16.45).

🐂 Update Option	×
Update Both Shape and Attribute	
C Update Shape Only	
C Update <u>Attribute</u> Only	
<u>Co</u> ntinue <u>C</u> ancel	

Figure 16.45 Update Option Window

Attach Document

Use the Attach Document menu option to attach documents as part of the attribute data of a selected Monitoring Area. Clicking this option when a Monitoring Area is selected opens the Attachment window (Figure 16.46).



Documents can only be attached to COMMITTED Monitoring Areas. Monitoring Areas are committed using the Utilities menu.

🗎 Attachment 📉 🗙					
Click Attach File button to select a file for attachment. Click Remove File button to remove an attachment. Click Download File button to save an attachment as a local file. A user can choose an appropriate application to view the downloaded file.					
Cycle Year : 3 Attachment fo	2006 r AUID CAR5518420120050527160528				
File Name	Description	Туре	Up		
L					
1					
Attach	File <u>B</u> emove File <u>D</u> ownload File	<u>C</u> lose			

Figure 16.46 Attachment Window

Click the "Attach File" button to search and find available files to add to the list. Select a file and click the "Remove File" button to remove a file from the list.

Select a file in the Attachments window and click the "Download File" button to download the file to your computer.

Click the "Close" button to close the window.

16.5.3 Utility Menu

The primary purpose of the Utility menu is to allow you to confirm and commit the Assessment Unit and Monitoring Area information so that it can be transferred for use in the CIWQS Online Editor. Information about these features is used to track assessment and impairment data for the purposes of fulfilling California and EPA reporting requirements.

Opening the Utility Menu shows that there are eight menu options available:

- Layer Validation
- Assessment Unit Confirmation
- Monitoring Area Confirmation
- Synchronization
- Browse
- Attach State Document
- Mapping
- Cycle Migration

Create, Confirm, Commit

Each Assessment Unit and Monitoring Area must pass through three stages before its information can be used for reporting purposes: create, confirm, and commit.

CREATE

When the Assessment Unit or Monitoring Area menus are used to save a feature, AUs and MAs are **created**. These features have now been separated from the underlying NHD lakes, ponds, and streams and have associated attribute data.

Assessment Units and Monitoring Areas at this stage are editable in the Desktop Editor map frame. Both the spatial and attribute data can be changed by any User.

CONFIRM

When you have finished editing the spatial and attribute information for an Assessment Unit or Monitoring Area, it can then be confirmed.



Once a feature has been confirmed, it is no longer editable in the Desktop Editor.

Super Users can confirm and reopen both MAs and AUs. Regional Users can confirm and reopen MAs.

B

Assessment Units must be CONFIRMED before their Monitoring Areas can be CONFIRMED.

COMMIT

Once Assessment Units and Monitoring Areas have been confirmed, they can then be committed. Features are committed when the geodatabase and the Enterprise Data Model (EDM) are synchronized. Committed features are considered final and approved for production and cannot be edited in the Desktop Editor.



Assessment Units must be COMMITTED before their Monitoring Areas can be COMMITTED.

Super Users can commit both MAs and AUs. Regional Users can commit MAs (Figure 16.47).



Figure 16.47 Create, Confirm, and Commit

Layer Validation

Clicking Layer Validation on the Utility menu loads all feature layers necessary to display information required by the Desktop Editor and repairs any broken links to this data. The Dataset Validation Result window displays the results of this action (Figure 16.48).

Click the "Close" button to close the window.

🖹, Dataset Validation Result 🛛 🗙				
The list below shows the validation result of all GeoWBS system required datasets for a specific cycle.				
Cycle Year : 2006				
Data Set	Format	Status 🔺		
Assigned Beneficial Use	Table	ОК		
Associated Place	Table	OK		
AU Event	Table	OK		
AU Info	Table	OK		
AU Line	Route Layer	OK		
AU Polygon	Feature Layer	OK		
Basin Plan	Feature Layer	OK		
CA County	Feature Layer	OK		
CalWater	Feature Layer	OK		
MA Event	Table	OK		
MA Info	Table	OK		
MA Line	Route Layer	OK		
MA Polygon	Feature Layer	ОК		
NHDFlow	Table	OK		
NHDFlowline	Feature Layer	OK		
NHDFlowlineVAA	Table	OK _1		
NHDW/aterbodu	Fastura Lauar	пк		
 ▲				

Figure 16.48 Dataset Validation Result Window

Assessment Unit Confirmation

Before Assessment Unit information can be shared with the CIWQS database, it must first be confirmed and then committed. Confirming an Assessment Unit can be done through this menu option. Committing an Assessment Unit is done through the Synchronization window.

Once an Assessment Unit has been confirmed it can no longer be modified or updated. It can, however, be reopened to allow updating and editing of attribute data. Once an Assessment Unit has been confirmed, it can then be committed. Committed Assessment Units cannot be reopened and can no longer be edited.

Clicking the Assessment Unit Confirmation menu option opens the Assessment Unit Confirmation window (Figure 16.49). This window displays all Assessment Units for the current cycle year and within the working region.

Click an Assessment Unit to select it. Click the "Confirm" button to confirm it (if it has not been already confirmed). Or, click the "Reopen" button to reopen the Assessment Unit for editing and updating.

Click Refresh t AUs from furth <u>CIWQS databa</u>	ent Unit Confirmation button to show the current editing status. Click Confirm er modification. An AU must be confirmed before it can ase. 2006 Region : Region 5 - Central Valley	
Assessment U	nit Status :	
AU ID	AU Name	Shape Type
CAL55184	Grizzly Forebay (from NHD)	Polygon
CAL55185		Polygon
CAR55184	Test Ca	Polygon
CAR55184	Grizzly Creek	Line
CAR55184	AU Stream Near Bucks Lake	Line
CAR55185	Clear Creek	Line
•		
<u>R</u> efi	resh Confirm Re <u>o</u> pen	<u>C</u> lose

Figure 16.49 Assessment Unit Confirmation Window

Click the "Refresh" button to refresh the list and the "Close" button to close the window.

Monitoring Area Confirmation

Before Monitoring Area information can be shared with the CIWQS database, it must first be confirmed and then committed. Confirming a Monitoring Area can be done through this menu option. Committing a Monitoring Area is done through the Synchronization window.

Once a Monitoring Area has been confirmed it can no longer be modified or updated. It can, however, be reopened to allow updating and editing of attribute data. Once a Monitoring Area has been confirmed, it can then be committed. Committed Monitoring Areas cannot be reopened and can no longer be edited.

Clicking the Monitoring Area Confirmation menu option opens the Monitoring Area Confirmation window (Figure 16.50). This window displays all Monitoring Areas for the current cycle year and within the working region.

Click a Monitoring Area to select it. Click the "Confirm" button to confirm it (if it has not been already confirmed). Or, click the "Reopen" button to reopen the Monitoring Area for editing and updating.

Click the "Refresh" button to refresh the list and the "Close" button to close the window.

1As from furth 1WQS datab Cycle Year : 2	006 Region : Region 5 - Central Valley				
onitoring Are					
MAID	MA Name	Shape Type 🛛 A			
	Lower Bucks Lake	Polygon			
	Lower Bucks Lake 2	Polygon			
	Grizzly Creek - Lower Part	Line			
	Grizzly Creek	Line			
CAR55184	Grizzly Creek Overlap	Line			
CAR55185	Clear Creek	Line			

Figure 16.50 Monitoring Area Confirmation Window

Synchronization (Commit)

The Synchronization menu option allows you to commit Assessment Units and Monitoring Areas and to transfer their attribute data to the CIWQS database. The attribute data will then be available to use in the CIWQS Online Editor.

Clicking the Synchronization option opens the Synchronize Data Into CIWQS window (Figure 16.51).

Click Synchronize Data Into CIWQS Click Synchronize button to commit the selected entities into CIWQS database. An entity can not be committed if it has not been confirmed yet. A MA can not be committed if the associated AU has not been committed into CIWQS. Cycle Year: 2006 Region: Region 5 - Central Valley Entity Type: Assessment Unit					
AUID	AU Name	Shape Type 1			
CAL55184 CAL55185		Polygon			
CAR55184		Polygon Polygon			
	Grizzly Creek	Line			
	AU Stream Near Bucks Lake	Line			
	CAR55165 Clear Creek Line				
Eorce synchronization even one entity has been committed previously					
	<u>R</u> efresh <u>S</u> ynchronize <u>C</u> lose				

Figure 16.51 Synchronization Window

The fields at the top of the window show the current cycle year and working region and allow you to select an entity type (Assessment Unit or Monitoring Area). When you change the entity type, click the "Refresh" button to update the entity table.

Click the "Synchronize" button to commit the selected Assessment Units or Monitoring Areas and click the "Close" button to close the window.



Once you have committed an Assessment Unit or Monitoring Area, you can no longer edit or update its shape or attribute data.

Browse

The Browse menu option allows you to filter and view Assessment Unit and Monitoring Area information. Clicking this option opens the Browse window (Figure 16.52). Use the *Select Dataset* and *Select Column* fields to set search criteria and click the "Apply Filter" button. Alternatively, click the "Show All" button to display all available records.

	ct <u>D</u> ataset : <mark>Assessmen</mark> ct <u>C</u> olumn : AUID	• =		A	pply Filter <u>S</u> how All	
_	41.05		Assessment Units	Lanzung	Lunoize	101
	AUID CAL330412062005062	AUNAME	REGION Region 3 - Central	WBTYPE	WBSIZE 175.1905	SI Ad
4	CAL551842012005062		Region 5 - Central		1659 7743	A
-	CAR111220022005062		Region 1 - North Coast	-	82.9369	M
-	CAR111220022005062		Region 1 - North Coast		7.8995	M
-	CAR220430022005062		Region 2 - San	B	38.4707	M
-	CAR220430062005062		Region 2 · San	B	11.5124	M
-	CAR220430092005062		Region 2 · San	B	15	M
-	CAR551340032005062		Region 5 - Central	B	14 8141	M
-	CAS330413022005062		Region 3 - Central	S	47338 4658	A
-	CAW11100002200506		Region 1 - North Coast	-	3700.1246	A
	CAWT1100002200306	Interioy wedenu	r region r - Notth Coast		3700.1240	A

Figure 16.52 Browse Window

When you have filtered the list as needed, click the "Export Data" button to open an Excel spreadsheet with the resulting data (Figure 16.53).

	<mark>icrosoft Excel - Book1</mark> jile <u>E</u> dit <u>Vi</u> ew <u>I</u> nsert F <u>o</u> rmat	<u>T</u> ools <u>D</u> ata <u>W</u> indow	Help			T	/pe a question for help 🔹 🖉 🗗
	🗳 🔒 👌 🎒 🛍 • 🔊 • I				≣ === \$ %		.;; ≇≇ ∷- <u>></u> - <u>A</u> -
	A1 ▼ f≥ AUID						
	A	В	С	D	E	F	
	UID	AUNAME	REGION	WBTYPE	WBSIZE	SIZEUNIT	DESCRIPTION
2 C.	AL3304120620050624154422	newel creek?	Region 3 - Central Coast	L	175.1905	Acre	d
	AL5518420120050623192823	Bucks Lake	Region 5 - Central Valley	L	1659.7743		Big lake
	AR1112200220050627071754	Bear River	Region 1 - North Coast	R	82.9369		Beautiful scenic river. Does
	AR1112200220050627101456	Davis Creek	Region 1 - North Coast	R	7.8995		Small coastal creek
	AR2204300220050624123449		Region 2 - San Francisco Bay		38.4707		arroyo polluted area
	AR2204300620050624145735	altamont	Region 2 - San Francisco Bay		11.5124		a
	AR2204300920050624114905	Arroyo de la Laguna	Region 2 - San Francisco Bay			Mile	arroyo de la laguna
	AR5513400320050624150531	Long Valley Creek	Region 5 - Central Valley	R	14.8141	Mile	confluence to headwaters
0 C.	AS3304130220050624152642	Schwan Lagoon	Region 3 - Central Coast	S	47338.4658	Acre	dsad
	AW1110000220050627212755	Nancy Wetland	Region 1 - North Coast	W	3700.1246	Acre	Great isolated wetland. Mar
2							
3							
4							
5							
6							
7							
8							
3							
0							
1							
2							
3							
4							
5							
6							
7	Assessment Units / She	-10 / 0110 /					•

Figure 16.53 Exported Data

Attach State Document

The Attach State Document option allows you to associate a document with the GeoWBS dataset. Clicking this option opens the Attachment window (Figure 16.54).

Attachment X					
Click Attach File button to select a file for attachment. Click Remove File button to remove an attachment. Click Download File button to save an attachment as a local file. A user can choose an appropriate application to view the downloaded file.					
Cycle Year : 2					
State Attachm	ent				
File Name	Description	Туре	Up		
geowbs.mxd	Test	mxd	06/		
L					
•	·				
<u>A</u> ttach	Attach File <u>Remove File</u> <u>D</u> ownload File <u>C</u> lose				

Figure 16.54 Attachment Window

Click the "Attach File" button to search and find available files to add to the list using the Upload File window (Figure 16.55). Type in a file location or click the "…" button to browse for a file.

📋 Upload F	ile	×
Select a file for button.	attachment by typing in the path directly or clicking the bi	rowse
File Location :		
<u>D</u> escription :		
	<u>Attach</u>	

Figure 16.55 Upload File Window

Click the "Attach" button to upload the selected document.

Select a file in the Attachments window and click the "Remove File" button to remove a file from the list.

Select a file in the Attachments window and click the "Download File" button to download the file to your computer.

Click the "Close" button to close the window.

Mapping

The Mapping option allows you to set options for and create a map layout of the current map view. Clicking this button opens the Map Layout Configuration window (Figure 16.56).

🗎 Map Layout Configuration 🛛 🗙							
Specify mapping options for the Layout view.							
Include Map <u>T</u> itle	Map Ou	Itput from GeoWBS					
☐ Include Map <u>L</u> egend	Map Le	gend	(Legend Title)				
Include North Arrow		Default	(Arrow Type)				
🦳 Include <u>S</u> cale Bar		Single Division	(Scale Unit)				
Include Copyright							
<u>0</u> K		<u>C</u> ancel					

Figure 16.56 Map Layout Configuration Window

Cycle Migration

The Cycle Migration option allows you to import Assessment Unit and Monitoring Area information from previous cycles. Clicking on this option opens the Migrate Data From Previous Cycle window (Figure 16.57).

Select the desired cycle year and entity type from the drop-down menus and click the "Refresh" button.

When you have made your selections, click the "Migrate" button to populate the map with the shape and attribute data for the selected Assessment Units or Monitoring Areas.

🐃 Migrate Data From Previous Cycle								
Select a previous cycle to show the entities defined in that cycle. Click Migrate button to copy relevant spatial and general information for the selected entities into the current working cycle.								
Current Cycle Year : 2006 Region : Region 5 - Central Valley								
Previous Cycle Year : 2004 Entity Type : Assessment Unit								
AU ID	AU Name			Shape Type				
-								
L					-			
•					•			
Eorce migrate even one enitity has been included in the current cycle								
	<u>R</u> efresh	<u>M</u> igrate	<u>C</u> lose					

Figure 16.57 Migrate Data From Previous Cycle Window

Click the "Close" button to close the window.

16.5.4 Reports Menu

Opening the Monitoring Area Menu shows that there are two menu options available:

- EPA Integrated Report; and
- State Report.

The State Report option is further subdivided to allow you to create reports by:

- Pollutant;
- Use;
- Total
- Source; and
- Region.

EPA Integrated Report

Clicking on the EPA Integrated Report option opens the Generate Reports window (Figure 16.58). From here, you can enter AU Search Criteria to find the AUs that match the selected region, cycle year, waterbody type, keyword, and category you selected. Click the "Refresh" button to display all results in the Search Results window. Select the Assessment Unit you wish to generate a report for and click the "Create Report" button to create a report in Excel that you can then manipulate and distribute as needed.

📑, Generate Repor	ts			×
AU Search Criteria		Search Results :		
<u>R</u> egion :	Any	AUID	AU Name	
Cycle <u>Y</u> ear :	2006			
<u>W</u> aterbody Type :	Any			
<u>A</u> U Keyword Search	:			
Category :	Category 1 Category 2 Category 3 Category 4C Category 5A Category 5B1 Category 5B2			
	<u>R</u> efresh		Create <u>R</u> eport Clos) e

Figure 16.58 Generate Reports Window

State Reports

Each state report exports 303(d) total source category listings for the current cycle. Each option produces a report filtered by different criteria (pollutant, use, total, source, and region).

CIWQS Water Board User's Guide

Part VI

System Administration

17 CIWQS Security
18 Maintaining Users
19 Maintaining List Elements
20 User Registration
21 IDEF Module

17 CIWQS Security

This chapter addresses the following topics:

- An overview of CIWQS and GeoWBS security
- Discussion of User types
- Groups and Functions

17.1 CIWQS Security

The California Integrated Water Quality System (CIWQS) and the Geo Waterbody System (GeoWBS) each operates based on a set of security principles. This chapter reviews the security standards for each system and gives an overview of how Users are granted access to the various Modules and pages.

17.1.1 CIWQS Security Principles

CIWQS system security is based on the following principles:

- Each User has a unique User ID and a password. No two people should share the same ID and passwords should be kept secret
- Each User is assigned to one or more User Groups
- Each security Group has access to one or more system Functions
- Access to a system Function is granted at one of the following levels: read-only, update, or super. If a Group does not have one of these levels for a particular Function, this means that the Group has no access to that system Function and the Users within that Group are denied access. For Functions (such as "login"), which do not require access levels, any access level (including read-only) may be used to grant access

- System Functions operate at a variety of levels: entire Modules, individual pages, or individual fields/controls
- When a User belongs to multiple Groups, each with different access levels to the same system Function, the highest access level is applied
- A User may be record limited. Internal Users can access records only for Facilities within their own Water Board or across all Water Boards (based on access level). Dischargers are granted access to Facilities where they are the legally Responsible Person or at Facilities where a Legally Responsible Person has approved them as an additional User

17.1.2 GeoWBS Security Principles

In addition to the security principles operating for CIWQS, GeoWBS includes the following additional principles:

- All Users are Internal Users (Dischargers will not have access to this component)
- At present, no External Users will be permitted access to any component of GeoWBS. However, in the future, the GeoWBS Navigator may become accessible to the public through the Internet

17.2 System Access

The ability of a User to access the various CIWQS Modules is determined based on his or her assignment to particular types, Groups, Functions, and access levels. The combination of these four attributes determine what any particular User will see when they first log in to CIWQS and will determine how much they are able to modify information contained therein.

17.2.1 User Types

Each User is of one of four types: Discharger, Internal, External, or System Administrator.

Dischargers

The "Dischargers" User category includes Users affiliated with a Discharger location, such as engineers, responsible executive officers, and

authorized consultants, or laboratories. In general, these are Users who submit self-monitoring reports to the Water Boards.

A Discharger may be affiliated with one or more Facility locations. Security is not granted based on party, Agency, or other entity.

Dischargers consist of two categories of User—those who are designated as Responsible Persons and those who are granted permission to register by a responsible party. The Responsible Person for a facility is the one with legal responsibility for the data submitted to the system via the *Submit/Review a Self-Monitoring Report (eSMR)* Module.

A Responsible Person has the authority to approve or disapprove the registration of additional Users. Each Facility can have more than one Responsible Person (Figure 17.1).

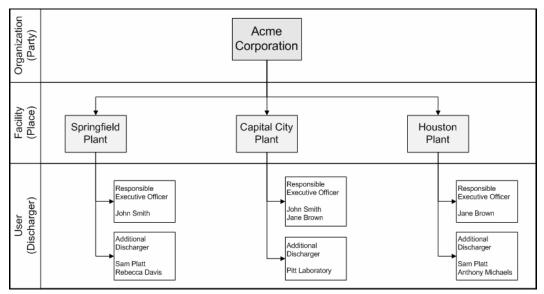


Figure 17.1 How Dischargers are Assigned to Facilities

The Responsible Person for a Facility is the one who first registers the Facility with its associated Water Board for the purposes of submitting *eSMRs*.

Once a Facility has been registered, additional Users for that Facility may then self-register using the CIWQS *Discharge Registration* page. Each additional User for a Facility must be approved by one of the responsible people for that Facility.



For more information on User registration, see Chapters 18 and 20.

Modules accessible to Dischargers include:

- Submit/Review a Self-Monitoring Report
- Run Reports
- View/Change Personal Information

Internal Users

Internal Users are, for the most part, employees of either the State or a Regional Water Board. State Water Board Users have access to data from all Facilities. Regional Water Board Users have access to data from the Facilities within their Region.

Modules accessible to Water Board Staff include:

- Submit/Review a Self Monitoring Report (SMR)
- Run Reports
- View/Change My Personal Information
- Create/Maintain Places
- Create/Maintain Parties
- Create/Maintain Regulatory Measures
- Create/Maintain Violations
- Create/Maintain Inspections
- Create/Maintain Invoices
- GeoWBS Online Editor
- Map It!
- SSO

Internal Users are not permitted to self-register. User accounts must be created for them through the *Administer System* Module.



See Chapter 18 for more information on creating new Users.

External Users

External Users are Users who require access to features other than submitting Self-Monitoring Reports, but need to be granted access to select Facilities. For example, if a State Water Control Board wished to provide access to the system for members of a sister agency sharing responsibility for a location or activity, these Users could be defined as "External".

External Users are allowed to access, based on their individual security profile, any module of the system. As with Dischargers, these Users are only allowed to access facilities for which they have been specifically authorized. External Users may not self-register. User accounts must be created from them through the *Administer System* Module.



See Chapter 18 for more information on setting security profiles.

System Administrators

Users with the security privileges of System Administrators have access to the CIWQS *Administer System* Module as well as all of the Modules accessible to Internal Users. System Administrators are typically members of a Regional or State Water Board and are responsible for maintaining User profiles, as well as Group and Function security levels.

17.2.2 Groups

Each User is assigned to belong to one or more User Groups. These Groups are typically related to the role of the User within an Organization. For example, a User who is assigned to input information into CIWQS for NPDES permits will be assigned to the NPDES Data Submission group.

Group assignments are managed through the Administer System Module.

17.2.3 Functions

Each security Group has access to one or more system Functions (e.g., creating Regulatory Measures, certifying self-monitoring reports, creating Users). Access to a system Function is granted at one of the following levels: read-only, update, or super. If a Group does not have one of these levels for a particular Function, this means that the Group has no access to that system Function and the Users within that Group are not granted access to the system Function.

If a User belongs to more than one User Group and two or more Groups are granted the same Function but with different access levels, the User is granted the highest level granted among their assigned Groups. Function assignments are managed through the *Administer System* Module.

17.2.4 System Security Functions and Access Levels

Appendix B shows the various Modules, Functions, and Access Levels used in CIWQS. Access to reports is determined on a per-report basis. Help and login Functions are available to all Users.

18 Maintaining Users

This chapter addresses the following topics:

- How to create a New User
- How to change User information
- How to change User security privileges

18.1 Administer Users Module

As a System Administrator, you have the authority to change and maintain User information and security privileges. Many of these tasks are carried out through the *Administer Users* Module found within the *Administer System* Module. Actions available through the *Administer Users* Module include:

- Creating new Users;
- Changing User passwords;
- Managing security settings for system functions and groups; and
- Updating User profiles.

Clicking on the "Maintain User" hyperlink from the CIWQS Main Menu and then the "Administer Users" hyperlink brings you to the *Administer Users* page (Figure 18.1).

Water Buards CIWQS	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out.
Administer Users Create New User Manage By User Manage By Group (User Role) Manage By Function	

Figure 18.1 Administer Users Page

From this page you can perform one of the following functions:

- Create New User
- Manage by User
- Manage by Group (User Role)
- Manage by Function

The last three options are interrelated. It is possible to move between the Manage by User, Group, and Function pages once any of the three options is chosen.

18.2 Creating a New User

New Users can be created in one of two ways:

- 1. Dischargers should self-register using the *Registration* Module (Note: User profiles are created by the Discharger and User accounts are activated by a System Administrator). Discharger accounts should not be created through the *Administer System* Module.
- 2. Accounts for Internal Users and External Users can be created through the *Administer System* Module.

Discharger registration is covered in Chapter 20. Creating new User accounts is described below.

18.2.1 The Administer System Module

To create a new User account through the *Administer System* Module, click the "Administer Users" hyperlink from the *Administer System* Module and then click the "Create New User" hyperlink (Figure 18.2).

Water Beards CIWQS	Menu Help Log out Navigate to: Image: Comparison of the second data of the second d
Administer System	
CIWQS Friday, September 30, 2005	
Administer Users > Create New User	
Select Person	
Person Name:	

Figure 18.2 First Page in the Create New User Module



A Party record must be created for the Person before that Person can be added as a User. \square

See Chapter 4 for more information on searching for and creating Party records.

Clicking the "Select Person" button launches the *Party Search* page with the *Party Type* field set to Person (Figure 18.3).

Water Buards CIWO	2S	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.
r arcy ocaron		
Enter any search cr	riteria and click "Search".	
Party Type:	Person	
Name:		
Mailing Address:		
City:		
Work Phone:		
Search Canc	el	

Figure 18.3 Party Search Page

If the Party (Person) you wish to make a User already exists within the system, enter the appropriate information into the search fields and click the "Search" button to view the results of your search. Otherwise, go back to the *Create/Maintain Parties* Module and create a new Party Record.

Once you have found the correct record, click the "Select" hyperlink at the end of the row. This opens the *Create New User* page (Figure 18.4).

Water Buards CIWQS	Menu Help Log out Navigate to: You are logged-in as: ciwqs. If this account does not belong to you, please log out.
CIWQS Wednesday, May 04, 2005	
Create New User	
Select Person	
Person Name: Test4 Discharger	
Username*:]
User type*: INTERNAL 🗸	
Password*:]
Confirm Password*:]
*- Indicates required.	
Save Cancel	

Figure 18.4 Create New User Page

The upper part of the page shows the Person name as a read-only field. The lower part of the page displays the fields needed to create a new User.

All fields are required to create a new User account.

The fields of the *Create New User* page are described in Table 18.1.

Table 18.1 Create New User Fields

Field Name	Description	
User Name	Enter a User name for the new User.	
User Type	Select the User type from the drop-down menu.	
	User types are Discharger, Internal and	
	External. User types are described in Chapter	
	16.	
Password	Type in the User password. The characters you	
	type will be displayed as stars.	
Confirm Password	Re-type the password to verify.	

Choosing a Password

The password you choose must conform to the rules set by the system. The password must have at least 7 characters (and no more than 16), and must contain a combination of lowercase letters, uppercase letters, and numbers. All of these elements must be present in the password. For example, "a2Hlkj4" is acceptable, but "aBcDeFg" and "1234567" are not acceptable. Typing a password that does not meet these rules and clicking the "Next" button will result in a registration error.

When you have entered data in all four fields, click the "Save" button to create the new User account.

Click the "Cancel" button at any time to exit the *Create New User* page and return to the *Administer Users* Module.

18.3 Manage by User

Clicking the "Manage by User" option from the *Administer Users* Module brings you to the *Manage by User* page (Figure 18.5). Here, you can search by User type checkboxes or the *Username* or *Last Name* fields.

The *Dischargers, Internal Users*, and *External Users* checkboxes are used to filter by User type. If the boxes have check marks in them, the related User type will be shown in the results table when the search has been

initiated. Selecting the box will remove the check mark from the box and will cause that User type to be filtered out of the search.

Navigate to: You are logged-in as: demo. If it	<u>Menu Help Log out</u> is account does not belong to you, please log out.	
Administer System		
CIWQS Wednesday, June 22, 2005		
Administer Users > Manage By User		
Show:		
✓ Dischargers		
✓ Internal Users		
I External Users		
Username:		
Last Name:		
Filter		<i>k</i>
		Previous 💌 Next
Username	Name	Туре

Figure 18.5 User Search page

The *User Type* fields can be used in conjunction with the text fields when searching for a particular User.

Entering a value into the *Username* (the User name given to the account, not necessarily the Person's name) or *Last Name* fields filters the list to show only those records that start with the given characters. For example "jd" finds "jdoe" but not "tajd" and "sm" finds "Smith" but not "Brismoor".

These fields are not case sensitive.

When you have entered your search criteria, click the "Filter" button to activate the search. The table will display the first 100 records that match the criteria you have entered (Figure 18.6). If no matches are found, no records will be shown.

Water Buards CIWQS	Menu Help Navigate to: You are logged-in as: demo. If this account does not belong to you, please	•
Administer System		
CIWQS Wednesday, June 22, 2005		
Administer Users > Manage By User		
Show:		
🗹 Dischargers		
🗹 Internal Users		
🗹 External Users		
Username:		
Last Name:		
Filter		
		Previous 1-2 of 2 💌 Next
Username	Name	Туре
imaxfield	Jessie Maxfield	INTERNAL
уах	Yacoub Raheem	INTERNAL

Figure 18.6 Results of a Search for Internal and External Users

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The results table displays the User's Username, Name (first + middle + last + suffix), and User Type (i.e., Discharger, Internal, or External). The Username is displayed as a hyperlink. Clicking this hyperlink brings you to the *Manage by User* Module (Figure 18.7).

Water Boards CIWQS	S	Navigate to: You are logged-in as: demo. If this acc	Menu Help Log out count does not belong to you, please log out.		
Administer Syste	em				
CIWQS Wednesday, J	une 22, 2005				
<u>Administer Users</u> > <u>Ma</u>	nage By User > jmaxfield				
Username:	Username: jmaxfield Change UserProfile/Password				
Name:	Name: Jessie Maxfield Open Party Record				
Type:	INTERNAL				
Groups (<u>Manage By G</u>		Group			
Active Users				Remove	
GEOWBS USERS				Remove	
	•			Add	
Functions (Manage By Function):					
	Function Nar	ne	Via Group	Access Level	
GEOWBS EDITOR AC	CESS		GEOWBS USERS	Super	
LOGIN			Active Users	Update	
MAP IT GEOWBS USERS			Read-Only		
				Update	
WATER BOARD NOTE	VATER BOARD NOTES GEOWEB USERS Update				

Figure 18.7 Manage by User Page

This page is divided into three sections:

- The User profile
- Affiliated Groups
- Associated Functions

Each of these areas allows you to change or view different information about each User.

18.3.1 User profile

The topmost section of the page shows the User's profile. This box shows the *Username, Full Name*, and *User Type* and provides access to the *Change Password* page and the User's Party record).

Change Password Page

Clicking the "Change UserProfile/Password" button opens the *Change Password* page (Figure 18.8). This form allows you to change a User's Username, type, and password.

	Menu Help Log out Navigate to: Image: Comparison of the log of the
Administer System	
CIWQS Wednesday, June 22,	005
Change UserProfile/Password	
Username*: jmaxfield	
User type*: INTERNA	
Note: If you	udo not wish to change the password, leave password fields blank.
Password:	
Confirm Password:	
* - Indicates required.	
Save Cancel	

Figure 18.8 Change Password Page

The *Change Password* page resembles the *Create New User* page (Figure 18.4), though, in this case, the password fields are not required (if the password fields are not filled in, the password will not change).

To change a User's Username, enter a new text string in the *Username* field. You can also change the User type from this page by selecting a new value from the User type drop-down menu.



The Username and User type fields are marked with an asterisk (*). This indicates that both fields are required to have values if the form is altered. It does not mean that you are required to change them if you open the Change Password page.

If you wish to change the User's password, enter a new password in the *Password* field and re-type it into the *Confirm Password* field to verify.



For security purposes, you will not have access to the User's current password.

Click the "Save" button to save the new information or click "Cancel" to return to the *Manage by User* Module without saving.

Open Party Record

Clicking the "Open Party Record" button launches the *Parties* Module and opens the Party record for the User. Clicking the "Save" button saves any new or modified information added to the record.



For more information on creating and editing Party records, see Chapter 4.

18.3.2 Affiliated Groups

The Affiliated Groups section of the *Manage by User* page allows you to add and remove affiliated Groups from the User's security profile and provides access to the *Manage by Group* Module (Figure 18.9).

Groups (<u>Manage By Group</u>):		
Group		
Active Users	Remove	
GEOWBS USERS	Remove	
	Add	

Figure 18.9 Affiliated Groups Section

Each affiliated Group grants a specific suite of access privileges to the User. Adding and removing Groups from the User's profile can modify these access privileges.



See Appendix B for a complete list of security functions and associated access levels.

Adding a Group

To add an affiliated Group to the User profile, select a Group from the drop-down menu in the last available row of the Groups table. Click the "Add" hyperlink to add the selected Group to the User's profile. Adding a Group changes a User's access profile to include the access privileges of the new Group.

Removing a Group

To remove a set of Group privileges from a User's profile, click the "Remove" hyperlink at the end of the appropriate row. You are asked to verify that you wish to remove the selected Group. Clicking "Yes" removes the Group from the User's profile. Clicking "No" cancels the action and returns you to the *Mange by User* Module without removing the Group.

Jump to the Manage by Group Module

To open the *Manage by Group* page, click the "Group" hyperlink at the top of the section.

To open the group profile for a particular group, click the associated Group name hyperlink in the *Group* column.

The Manage by Group Module is covered in detail below.

18.3.3 Associated Functions

The Associated Functions section allows you to view the Functions included in a User's security profile and provides access to the *Manage by Function* and *Manage by Group* Modules (Figure 18.10).

Functions (Manage By Function):		
Function Name	Via Group	Access Level
GEOWBS EDITOR ACCESS	GEOWBS USERS	Super
LOGIN	Active Users	Update
MAP IT	GEOWBS USERS	Read-Only
VIEW CHANGE MY INFORMATION	GEOWBS USERS	Update
WATER BOARD NOTES	GEOWBS USERS	Update

Figure 18.10 Associated Functions Section

Each associated Function grants a specific suite of access privileges to the User. Functions are tied to Groups and are automatically assigned to a User as affiliated Groups are added to a Users' profile.

The Function table displays the Functions associated with the User and the Group to which the Function is tied. The access level associated with each Function is also displayed.



See Chapter 17 for additional information on User Types, Groups, Functions, and Access Levels.

To access the *Manage by Function* Module, click the "Function" hyperlink at the top of the section. Section 18.5 discusses *Manage by Function* in detail.

To access the security profile for a particular Function, click the name of a Function from the *Function Name* column.

To access the security profile for a particular Group, click the name of a Group from the *Via Group* column.

18.4 Manage by Group

The *Manage by Group* Module is where Groups are defined, where new Groups may be created, and where system Functions may be assigned to User Groups.

To access the *Manage by Group* Module, click the "Manage by Group (User Role)" hyperlink from the Administer Users menu (accessed by clicking

the "Administer Users" hyperlink on the Administer System Main Menu). This brings you to the *Group Selection* page (Figure 18.11).

Water Beartis	Menu Help Log out Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out.	
Administer System		
CIWQS Monday, October 03, 2005		
Administer Users > Manage By Group		
	Group	
Accounting		Remove
Active Users		Remove
CIWQS Help Center		Remove
Case Manager		Remove
Enforcement		Remove
GEOWBS USERS		Remove
IDEF		Remove
NPDES Data Entry Support		Remove
NPDES Data Entry Support Admin		Remove
NPDES Data Submitters		Remove
NPDES Responsible Parties		Remove
Power User		Remove
System Administrators		Remove
Viewer		Remove
eSMR Activators		Remove
Add Group		·

Figure 18.11 Group Selection Page

The *Group Selection* page shows a list of all defined Groups. From this page, it is possible to add and remove Groups and to access individual Group profiles.

Removing a Group

Removing a Group disassociates the combined suite of Functions and access levels associated with the deleted Group. The Functions still exist but they no longer form a set of privileges that can be assigned to a User's profile.

Before a Group can be removed, you must first remove all associated Functions and Users from the Group profile. Follow the instructions in Sections 18.4.2 and 18.5.1 to remove all associated Functions and Users. When you have done so, return to the *Group Selection* Module and click the "Remove" hyperlink in the appropriate table row. You will be prompted to verify whether you wish to remove the Group. Click "OK" to remove the Group from the table. Click "Cancel" to cancel the operation without deleting the Group from the table.

Adding a Group

To add a Group (and an associated suite of Functions and access levels), click the "Add Group" button at the bottom of the table. This opens the *Define Group* page (Figure 18.12).

Water Bearts CIWQS	Menu Help Log out Navigate to: V You are logged-in as: tetratech. If this account does not belong to you, please log out.	
Administer System		
CIWQS Monday, October 03, 2005		
Add Group		
Group name*:		
* - Indicates required.		
Save Cancel		

Figure 18.12 Define Group Page

Type a Group name into the *Group name* field (required) and click the "Save" button. You will be prompted to verify whether you wish to save the new Group.

Click "Yes" to save the group name. This saves the Group (without any associated Functions or access privileges) and returns you to the *Group Selection* page.

Click "No" to cancel the save and return to the *Define Group* page. Click the "Cancel" button to cancel the operation and return to the *Group Selection* page without defining a new Group.

18.4.1 Modify a Group Profile

On the *Group Selection* page, the Group name is displayed as a hyperlink. Clicking this hyperlink brings you to the *Group Definition* page (Figure 18.13).

Water Boards CIWQS	Navigate to: You are logged-in as: tetratech. If this account does not be	Menu Help Log out		
Administer System				
CIWQS Monday, October 03, 2005				
Administer Users > Manage By Grou	p > NPDES Data Submitters			
Functions (Manage By Function):				
	Function	Level		
SUBMIT SELF MONITORING REPORT	RT	SUPER 🔽	Remove	
VIEW CHANGE MY INFORMATION	VIEW CHANGE MY INFORMATION READ-ONLY			
	×	~		
Save				
Users (<u>Manage By User</u>):			Previous 1-6 of 6 💌 Next	
Username	Name	Туре		
avambot	Anicia Yambot	DISCHARGER	Remove	
<u>ikeegan</u>	James Keegan	DISCHARGER	Remove	
<u>mebogart</u>	vaart Michael Bogart DISCHARGER <u>Remove</u>			
rchamberlain	Rod Chamberlain DISCHARGER Remove			
tetratech	NoFirstname TetraTechAdmin	INTERNAL	Remove	
vshidell Vicki Shidell DISCHARGER Remove				
Add User				

Figure 18.13 Group Definition Page

This page allows you to define which User accounts are members of the Group. It also allows you to define which system Functions the members of the User Group will be granted.

The Group name is displayed as a header at the top of the page. Below that are the Associated Functions and Affiliated Users sections.

Associated Functions

Functions can be added to the Group profile by selecting a new Function from the drop-down menu in the last available row in the Functions table. All Functions that have not yet been assigned to this Group will be available in the list.

Once you have selected a Function, you must assign an access level to that Function (specific to this Group profile). Click the "Save" button to save your changes. If you do not select an access level, the User will have no access to that particular Function.

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See Chapter 17 for further discussion of Functions and access levels.

When you have added information for a new associated Function, click the "Save" button. You will be prompted to verify whether you wish to save the record. Click "Yes" to save the record and update the table. Click "Cancel" to cancel the operation without updating the table.

To remove a Function from the list, click the "Remove" hyperlink from the appropriate table row. You will be prompted to verify that you wish to remove the associated Function. Click "OK" to remove the associated Function. Click "Cancel" to cancel the operation without removing the associated Function.

Clicking the "Manage by Function" hyperlink at the top of the table brings you to the *Function Selection* page.

Clicking on the Function name hyperlink in the *Function* column of the table brings you to the individual *Function Profile* page.

18.4.2 Affiliated Users

The bottom part of the Group Profile page displays the User accounts that have been assigned to the Group. This table displays the Username,

Name (first and last name of the User), and Type. The Username is displayed as a hyperlink. Click this hyperlink to open the *Manage by User* page.

Click the "Manage by User" hyperlink above the table to launch the *Users Search* page. Searching for and selecting a User brings you to the *Manage by User* Module.

Adding a User to a Group Profile

To associate a User account to the Group, click the "Add User" button at the bottom of the User table. This launches the *User Search* page (Figure 18.14).

Water Rearts CIWQS Navigate to: You are logged-in as: tetratech. If th	Menu Help Log out v nis account does not belong to you, please log out.	
Administer System		
CTWQS Monday, October 03, 2005		
Add user to group: GEOWBS USERS		
Show:		
Dischargers		
✓ Internal Users		
🗹 External Users		
Username:		
Last Name:		
Filter		
		Previous 🔽 Next
Username	Name	Туре
Save Cancel		

Figure 18.14 User Search Page

Use the search criteria fields to find the User account you wish to add to the Group (see section 18.3 for an explanation of the search fields). Click the "Filter" button to bring up a list of Users that match the criteria you entered (Figure 18.15).

The results table displays the *Username*, *Name*, and *Type* for each User. The *Username* is displayed as a hyperlink.

Clicking the Username hyperlink will bring you to the *Manage by User* page.

Each Username is displayed next to a checkbox. To add one or more Users to the Group, select the checkbox next to each User you wish to add and click the "Save" button. You will be prompted to verify that you wish to add the User(s). Click "OK" to add the Users and return to the Group Profile page. Click "Cancel" to cancel the operation and return to the *Search Results* page.

Click the "Cancel" button at the bottom of the search results table to cancel the add User action and return to the *Group Profile* page.

Water Roams CIWQS Administer System	Menu Help Loo Navigate to: ged-in as: tetratech. If this account does not belong to you, please log	*
CIWQS Monday, October 03, 2005		
Add user to group: GEOWBS USERS		
Show:		
🗹 Dischargers		
🗹 Internal Users		
🗹 External Users		
Username: asc		
Last Name:		
Filter		
L		Previous 1-3 of 3 🗸 Next
Username	Name	Туре
aschmidt	Amanda Schmidt	INTERNAL
aschroeter	Angela Schroeter	INTERNAL
ncarrasco	Nep Carrasco	INTERNAL
Save Cancel		

Figure 18.15 Search Results

Remove a User from a Group Profile

To remove a User from a Group (from the *Group Profile* Page), click the "Remove" hyperlink in the appropriate row of the affiliated Users table. You will be prompted to verify that you wish to remove the User from the Group profile (and, therefore, remove the associated access privileges for the User). Click "OK" to remove the User and update the table. Click "Cancel" to cancel the operation without updating the table.

18.5 Manage by Function

The *Manage by Function* Module is where you can add Functions to Group profiles and view a list of Users associated with a Function.

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Adding new system Functions involves a non-trivial computer programming effort using the Java programming language. Contact the CIWQS Help Center if you wish to add a Function.

To access the *Manage by Function* Module, click the "Manage by Function" hyperlink on the Administer Users Menu (accessed via the "Administer

Users" hyperlink on the Administer System Main Menu). This brings you to the *Function Selection* page (Figure 18.16). This page shows a list of all defined Functions.

Water Roards CIWQS	Menu Help Log out Navigate to: It his account does not belong to you, please log out.
Administer System	
CIWQS Monday, October 03, 2005	
Administer Users > Manage By Function	
	Function
ACTIVATE OWN USERS	
ACTIVATE REGULATORY MEASURES	
ACTIVATE USERS	
CIT ADMIN	
CREATE USER ACCOUNTS	
ENFORCEMENT	
GEOWBS EDITOR ACCESS	
LOGIN	
MAINTAIN INSPECTIONS	
MAINTAIN INVOICES	
MAINTAIN PARTIES	
MAINTAIN PLACES	
MAINTAIN REGULATORY MEASURES	
MAINTAIN VIOLATIONS	
MANAGE REFERENCE TABLES	
MANAGE SECURITY	
MAP IT	
RECORD PAYMENTS	
SCHEDULE INSPECTIONS	
SUBMIT SELF MONITORING REPORT	
VIEW CHANGE MY INFORMATION	
WATER BOARD NOTES	
WITHDRAW SUBMITTAL	

Figure 18.16 Function Selection Page

Clicking on the Function name hyperlink brings you to the *Function Profile* page (Figure 18.17).

Menu Helic Loa out Navigate to: Image: Climate in the second s				
CIWQS Wednesday, June 22, 2005				
Administer Users > Manage By Function	> MANAGE SECURITY			
Groups (<u>Manage By Group</u>):				
	Group	Leve	1	
System Administrators		SUPER 💌		Remove
		•		
Save				
Users (<u>Manage By User</u>):				Previous 1-6 of 6 💌 Next
Username	Via Group		Acce	ess Level
<u>demo</u>	System Administrators		Super	
<u>dswiden</u>	System Administrators		Super	
<u>pyao</u>	System Administrators		Super	
<u>rrobinette</u>	System Administrators		Super	
<u>rwang</u>	System Administrators		Super	
<u>vax</u>	System Administrators		Super	

Figure 18.17 Function Profile Page

The Manage by Function page allows you to add a system Fuction to one or more User Groups. You may also view a list of all the Users who are currently granted access to this system Function.

The Function name is displayed as a header at the top of the page. Below that are the Affiliated Group and Affiliated Users sections.

18.5.1 Affiliated Groups

The Affiliated Groups section allows you to assign a Function (and associated access level) to a Group.

Clicking on the "Manage by Group" hyperlink above the Group section brings you to the *Group Selection* page.

Clicking on the Group name in the Group column of the table opens the associated *Group Profile* page.

Adding the Current Function to a Group

To add the current Function to a User Group, select the name of the Group you wish to link to from the drop-down menu in the last row of the Group table. All Groups that are not currently linked to the Function will be available.

Once you have selected a Group, you can assign the access level available to Users assigned to that Group. If you do not select an access level, the User will not have access to the Function via the assigned Group.

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See Chapter 17 for an overview of CIWQS security and access levels.

Click the "Save" button to add the Function (and associated access level) to the Group. You will be prompted to verify that you wish to save the Function to the Group. Click "OK" to save the record and update the table. Click "Cancel" to cancel the operation without updating the table.

Removing a Function from a Group

To remove a Function from a Group, click the "Remove" hyperlink in the row of the Function you wish to remove. You will be prompted to verify that you wish to remove the Function. Click "OK" to remove the Function from the Group. Click "Cancel" to cancel the operation without removing the Function from the Group.

18.5.2 Affiliated Users

The lower section of the *Function Profile* page shows the Users associated with the selected Function. This table is read-only and cannot be edited from this page.

Click the "Manage by Users" hyperlink above the table to launch the *User Search* page. This transfers you to the *Maintain by User* Module.

Click the Username in the Username field to open the User Profile page.

Click the Group name in the *Via Group* field to open the *Group Profile* page.

19 Maintaining List Elements

This chapter addresses the following topics:

- An introduction to how CIWQS is structured
- How to maintain list items
- How to maintain list mappings

19.1 The CIWQS Structure

The California Integrated Water Quality System (CIWQS) is comprised of a web-based interface built on an underlying database. This database is composed of many data tables and relationships that help give the data an integrated structure.

Some of the tables contained in the database are used to populate dropdown menus and table rows or columns within the CIWQS interface (the on-screen Modules described in this Guide). These are called **reference tables**.

The CIWQS *Administer System* Module allows you to modify the values within individual reference tables and also allows you to modify how values in one reference table are related to the values in other reference tables. The first task is accomplished through the "Maintain List Items" link found on the *Administer System* Module. The second task is carried out within the "Maintain List Mapping" link. These two activities are described below.

19.2 How to Maintain List Items

To modify the values found within a single reference table, click the "Maintain List Items" hyperlink found on the *Administer System* Module. This brings you to the *Maintain List Items s*earch page (Figure 19.1).

Select the table you wish to modify from the *List Item Name* drop-down menu. Selecting a value populates the table with the Reference Values available within the table and its associated characteristics (Figure 19.2).

Water Boards CIWQS	You are	Navigati logged-in as: dem	Menu Help Log out e to: To. If this account does not belong to you, please log out.	
Administer System				
Maintain List Items				
List Item Name:	_			
Reference Value	Description	Active?	Last Activation/Deactivation Date	User ID

Figure 19.1 Maintain List Search Page

Menu Help Log out Navigate to: You are logged-in as: tetratech. If this account does not belong to you, please log out. Administer System					
Maintain List Items					
List Item Name: ADDRESS TYPE	*				
Level: ROOT					
Reference Value	Description	Active?	Last Activation/Deactivation Date	User ID	
Billing	Billing	Yes	10/29/2004	CIWQS-SYSADMIN	Deactivate
Contact	Contact	Yes	10/29/2004	CIWQS-SYSADMIN	Deactivate
Mailing	Mailing	Yes	10/27/2004	CIWQS-SYSADMIN	Deactivate
Physical	Physical	Yes	10/27/2004	CIWQS-SYSADMIN	Deactivate
	<				Add

Figure 19.2 Reference Values for the ADDRESS TYPE Table

Figure 19.2 shows the values available in the ADDRESS TYPE table. The name of the table is displayed in the *List Item Name* field and the Level at which you are viewing the table is displayed in the *Level* field (readonly).

The table displays characteristics of the values within the ADDRESS TYPE table. The fields shown are described in Table 19.1.

Table 19.1 Mainta	In List item Fields
Field Name	Description
Reference Value	Displays the names of the values within the List Items
Reference value	table. This field is displayed as a hyperlink.
Description	This field gives a brief description of the Reference
Description	Value.
	Indicates whether the value is currently active. If "yes"
Active?	is displayed, the value will be available within the
Active!	CIWQS Modules. If "no", the value will not be
	available.
Last Activation/	Indicates the date the value was last activated (start
Deactivation Date	date) or deactivated (end date).
User ID	Displays the ID number of the User who last activated
User ID	or deactivated the value.
	This field displays one of three hyperlinks: "Deactivate",
[Hyperlink Field]	"Activate", or "Add" depending on the status of the
	value.

Table 19.1 Maintain List Item Fields

19.2.1 Adding a Value to the Maintain List Item Table

To add a value to the list item table, enter data into the *Reference Value* and *Description* fields in the last row of the table and click the "Add" hyperlink. Adding a new value causes the page to refresh to show another available (blank) row at the bottom of the table and updates the *Active?*, *Last Activation/Deactivation Date*, and *User ID* fields. The *Last Activation/Deactivation Date*, and *User ID* fields.

In general, no validation for new values takes place except:

- The new value name must conform to the type and length restrictions placed on that field (for example, a CHAR(10) field is restricted to 10 characters). When in doubt, use the names of the other values as a reference when creating a new value
- Each new value must be unique (no duplicate values are allowed in the *Reference Value* field)

19.2.2 Deleting (Deactivating) a Value

To deactivate a value, click the "Deactivate" hyperlink at the end of the appropriate row. This causes the page to refresh to show that the value is no longer active (*Active*? = "No"). The end date of the value is set to today's date (*Last Activation/Deactivation Date*). The hyperlink at the end of the row reads "Activate".

19.2.3 Activating a Value

If a value is currently inactive, it can be activated by clicking the "Activate" hyperlink at the end of the value row. This causes the page to refresh to show that the value is active (*Active?* = "Yes"). Activating a value clears its end date and sets the new start date to today's date (*Last Activation/Deactivation Date*). The hyperlink at the end of the row shows the value "Deactivate".

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Information is saved automatically as the table is updated.

19.3 How to Maintain List Mappings

To maintain or edit the relationship between values in two reference tables, click the "Maintain List Mappings" hyperlink on the *Administer System* Module. Clicking this link brings you to the *Table Mapping* page (Figure 19.3).

Water Bounds CIWQS	Menu Help Log ou Navigate to: as: demo. If this account does not belong to you, please log out	Ī
Administer System		
Maintain List Mappings		
Type Mappings:		
Mapped Value	Description	User ID

Figure 19.3 Table Mapping Page

The *Table Mapping* page allows you to select pairs of related reference tables and modify the values from the first table that are related to a value within the second table. This is a three-step process:

- 1. Choose the pair of related reference tables from the *Type Mappings* drop-down menu
- 2. Choose a value from the second table
- Choose values to add or delete from the first table. The list of values from the first table related to the value selected from the second table will be displayed on the "Mapped Value" column (Figure 19.4)

Witter Roards CIWQS	Navigate to: You are logged-in as: demo. If th	Menu Help Log out v is account does not belong to you, please log out		
Maintain List Mappings				
Type Mappings:	IDENTIFIER TYPE> REG MEAS TYPE	~		
REG MEAS TYPE:	Enforcement	~		
	Mapped Value	Description	User ID	
Amending order number		Amending order number	demo	<u>Delete</u>
	×			Add

Figure 19.4 Identifier Types for Regulatory Measures of Type "Enforcement"

A visual representation of this process is shown in Figure 19.5 and discussed in section 19.4 below.

19.4 List Mapping Example

In this example (illustrated in Figure 19.5), the list of available Identifiers ("Identifier Type" from the Identifiers reference table) is filtered to reflect only those that are related to People ("Party Type"). Editing this relationship will modify the list of Identifier types that are available for People within the CIWQS Modules.

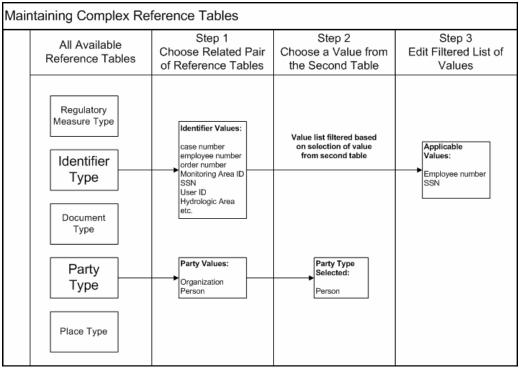


Figure 19.5 Selecting Pairs of Related Tables to Edit Related Values

Remember that an Identifier is a generic name for a unique set of numbers or letters that can be attached to any entity. Examples of Identifiers that can be related to people include Social Security Numbers and Employee numbers. Different entities (People, Places, Violations, etc.) have different sets of associated identifiers.

Select a Pair of Related Tables

You can select the relationship you wish to edit by selecting the options available in the drop-down menus on the *Maintain Table Mappings* page. First, select a pair of related tables from the *Type Mappings* drop-down menu (Figure 19.6).

Water Boants CIWQS	Menu Help Log Navigate to: ged-in as: demo. If this account does not belong to you, please log c	•
Administer System		
Maintain List Mappings		
Type Mappings: IDENTIFIER TYPE> PARTY T	PE	
PARTY TYPE:		
Mapped Value	Description	User ID

Figure 19.6 Selecting "IDENTIFIER TYPE → PARTY TYPE" from Type Mappings list

When you make your selection, the page refreshes and a field appears below the *Type Mappings* field, which allows you to select a value from the second table (Party Type, in this case). The Party Type selected filters the list of values in the Identifiers table so that only the values related to the selected Party Type are displayed. For this example, "Person" is selected from the *Party Type* dropdown menu. Selecting "Person" from the list causes the page to refresh and show the related values from the Identifiers table (Figure 19.7).

Water Roards CIWQS Navigate to: You are logged-in as: demo. If the Administer System	<u>Menu Hel</u> nis account does not belong to you, plea	•	
Administer System			
Maintain List Mappings			
Type Mappings: IDENTIFIER TYPE> PARTY TYPE PARTY TYPE: Person			
Mapped Value	Description	User ID	
employee number	employee number	demo	<u>Delete</u>
			Add
Monitoring Location National Hydrography Dataset NPDES Number order number BSLIC Number SSURet characteristic identifier SWIM Order Number SWIM Order Number SWIM Order Number	e of California. <u>Conditions of Use</u> Priva	cy Policy	

Figure 19.7 Values from the Identifiers Table Related to Party Type value "Person"

Figure 19.7 shows the values from the Identifiers table that relate to the Party Type "Person" as well as a description of the value and the User ID of the User who added the value to the table. The drop-down menu shows all values from the Identifiers table that have not yet been linked to the Party type "Person".

To delete one of the values from the table, click the "Delete" hyperlink at the end of the row. This removes the value from the list of values related to Party Type "Person" but does not delete the value from the Identifiers Type table.

To add a value to the list, select a value from the drop-down menu found in the last row in the *Mapped Value* column. All of the values from the Identifiers table appear in the list. Once you have made your selection, click the "Add" hyperlink at the end of the row. This refreshes the table to show the new value and adds a new, blank row at the bottom of the table.

20 User Registration

This chapter addresses the following topics:

- Registration privileges of the different User types
- How to approve/disapprove pending registrations:
 - o for Legally Responsible Persons
 - o for other Dischargers

20.1 User Registration

To gain access to CIWQS, a Person must first be registered as a User and assigned a User ID and password. This is true for all User types (Discharger, Internal, External, and System Administrators). Internal and External Users (as well as System Administrators) must be created as new Users through the CIWQS *Administer Users* Module as they are not permitted to self-register. Dischargers are able to self-register. If the Discharger is a Legally Responsible Person (LRP) for a Facility, they require validation (and activation) from a System Administrator to be granted access to the system. An LRP can validate but not activate User accounts for additional Dischargers for his or her Facility.

CIWQS Users are Parties with a User ID Identifier that have been activated as Users within the CIWQS *Administer System* Module.



See Chapter 4 for more information on creating and modifying Party records.

A User ID identifier can be granted to existing Parties or a new Party can be created. Dischargers are allowed to self-register; this grants them certain access privileges to their own Party records. For Internal and External Users, as well as for new System Administrators, the System Administrator is the only one who has access to the Party record for the new User.

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See Chapter 18 for more information on creating new Users.

20.2 Discharger Registration

The information input during Discharger registration is automatically used to create a new Party record for that individual. System Administrators do not need to create a Party record before Dischargers are permitted to self-register.

Dischargers can register as either a Legally Responsible Person for a Facility or as an additional User for a Facility. Dischargers are granted access to information within CIWQS on a Facility-by-Facility basis.

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See Chapter 17 for more information on User types and access privileges.

If a Discharger registers as a Legally Responsible Person, he or she is responsible for mailing a signed copy of an *Electronic Signature Authorization* form to the Water Board. This form is made available to them at the end of the on-line registration process. Once the signed form is received, a new record for the Facility must be created (if one does not already exist) and the registration can be activated (see section 20.2.1 below).

If a Discharger registers as an additional User for a Facility, his or her registration is not activated until it is approved (validated) by a Legally Responsible Person (for that Facility). Once the registration has been approved, it can be activated by a System Administrator (see section 20.2.2 below).

20.2.1 Registration for Legally Responsible Persons

Pending registrations for Legally Responsible Persons can be viewed within the *Administer System* Module. From the *Administer System* Module, click the "Pending Registrations for Legally Responsible Persons" hyperlink (Figure 20.1).

Administer System	Menu Help Log out Navigate to: Image: Comparison of the long to you, please log out. You are logged-in as: demo. If this account does not belong to you, please log out.
Administer System Menu Administer Users Maintain List Items Maintain List Mappings Pending Registrations for Legally Respo Pending Registrations of Other Discharg IDEF Module	

Figure 20.1 Administer System Menu

This brings you to the *Pending Registration* page where you see a list of all pending accounts (Figure 20.2).

Water Boards CIW	'QS	You are logged	Navigate to:		enu Help Log ou ou, please log out
CIWQS Thursday,	June 23, 2005				
Pending Registrat	ions for Legally Responsib	le Person:			
Name	Organization	Facility	User ID		
as asd	tex	tex	Resp06222005	<u>Activate</u>	<u>Delete</u>
Jim Jones	Jones n' Co.	IT	jim	Activate	<u>Delete</u>
John Doe	TT-Subdiv	IT	jsmith	Activate	Delete
13	123	f	theyacman	Activate	Delete
Waki Yaki	New Co.	Regulating	yaki	Activate	Delete

Figure 20.2 Pending Registration Page

The table displays the name of the Discharger who is requesting registration along with the name of the related Organization (Party) and Facility (Place). In addition, the requested User ID is shown.

After reviewing the table information, you can use the hyperlinks within the table to either "Activate" or "Delete" the pending registration record.

Clicking the "Delete" hyperlink triggers the prompt "Do you wish to delete this inactive person?" Selecting "Yes" deletes the record from the system. Selecting "No" cancels the Delete action and returns you to the *Pending Registration* page.

When the "Activate" hyperlink is selected, the following page is displayed (Figure 20.3):

CIWQS Friday, April 22, 2005 Activate Discharger	Menu Help Log out Navigate to: Vou are logged-in as: ciwqs. If this account does not belong to you, please log out.
Name:	Responsible Executive Officer
User ID:	test1
Company/Organization Representing:	Test One Company (Unverified) Verify
Facility Representing:	Test One Facility (Unverified) Verify
Create Account	

Figure 20.3 Activate Discharger Page

The Company/Organization and Facility are initially marked as unverified. This indicates that the Organization and Facility are not yet linked to a Party (Company/Organization) or Place (facility) in the system. The account activation cannot be completed until both the Company/Organization and Facility are verified.

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Note that this requires that the Place and Party already exist. If not, the appropriate Module (Place or Party) should be used to create the appropriate records.

If the Facility is not yet registered in CIWQS, the Facility representative should have sent the legal Facility name, the full physical address, the full mailing address (if different), and the main phone number for the Facility along with the Electronic Signature Authorization Form. Contact the Legally Responsible Person if this information was not included.

See Chapter 3 for more information on Creating/Maintaining Places.

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See Chapter 4 for more information on Creating/Maintaining Parties.

Clicking the "Verify" button in the Company/Organization row launches the *Party Search* page with the name of the Company automatically input in the search criteria fields. If the Party exists, it will be listed in the search results table. To associate the Discharger with the Party, click the "Select" hyperlink in the appropriate row.

Clicking the "Verify" button in the Facility row launches the *Place Search* page with the name of the Company automatically input in the search criteria fields. If the Place exists, it will be listed in the search results table. To associate the Discharger with the Place, click the "Select" hyperlink in the appropriate row.

Verifying the Company/Organization and Facility activates the "Create Account" button (Figure 20.4). Clicking the "Create Account" button activates the pending registration and returns you to the CIWQS Main Menu.

CIWQS Friday, April 22, 2005 Activate Discharger	Menu Help Log out igate to:
Name:	Responsible Executive Officer
User ID:	test1
Company/Organization Representing:	Test One Company (Verified)
Facility Representing:	Test One Facility (Verified)
Create Account	

Figure 20.4 Create Account Button Activated

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Once the registration is complete, an e-mail message is sent to the User and the Facilities case manager (Water Board staff member) with notification that the account has been activated.

20.2.2 Pending Registrations for Other Dischargers

Once a Legally Responsible Person for a Facility has registered with CIWQS and been approved as a User, additional Users may register for that Facility.

Registration for additional Users is very similar to that for Legally Responsible Persons with two main differences:

- They must select the Facility they wish to be associated with; and
- They do not have to submit an Electronic Signature Authorization form.

Once the additional Users have verified the Facility they wish to be registered for, their part of the registration is complete. An e-mail message is sent to all Responsible Persons for the Facility notifying them of the pending registration.

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It is not the responsibility of the System Administrator to approve/disapprove pending registrations for additional Users. The Legally Responsible Person(s) for a Facility are responsible for approving or disapproving pending registrations for additional Users.



Chapter 1 of the Dischargers User's Guide describes the process by which a Responsible Person can approve pending registrations.

Viewing Pending Registrations for Additional Dischargers

Pending registrations for additional Dischargers can be viewed by clicking the "Pending Registrations for Other Discharger" hyperlink found on the *Administer System* Module. This brings you to the *Pending Registrations* page (Figure 20.5).

Clicking the "Review" hyperlink opens the individual record for the pending User (Figure 20.6).

Water Boards CIWQS				
CIWQS Tuesday, May 0	13, 2005			
Pending Registrations	for Other Discharger:			
Name	Organization	Facility	User ID	
Data One	CONOCOPHILLIPS COMPANY	CONOCOPHILLIPS COMPANYCONOCOPHILLIPS LA LUB. PLANT	Data.M.One	Review
Data One	CONOCOPHILLIPS COMPANY	CONOCOPHILLIPS COSANTA MARIA FACILITY	Data.M.One	Review
Data One	HR TEXTRON INC.	HR TEXTRON INCVALENCIA FACILITY	data.final.one	Review
Data Two	BURNEY FOREST PRODUCTS	BURNEY FOREST PRODUCTSBURNEY SAWMILL/COGENERATION	data.final.two	Review
Data Twenty	U.S. AIR FORCE-MARCH ARB	U.S. AIR FORCE-MARCH ARBSTORM,MARCH ARB	data.m.twenty	Review
David Gilmore	FORMICA CORPORATION	FORMICA CORPORATIONSIERRA PLANT	david.gilmore	Review
Jimmy Page	CHEVRON TEXACO INC.	CHEVRON TEXACO INCCHEVRON TEXACO INC. (B C N P)	jimmy.page	Review
Additional Discharger	Test One Company	CULTURED ABALONE, INCCULTURED ABALONE AQUACULTURE	test2	Review

Figure 20.5 Pending Registrations for Other Discharger Page

Water Board CIWQS	Menu Help Log out Navigate to: Image: Comparison of the second
Authorize Access for Other Discharger if (af	0
Name:	Additional Discharger
User ID:	test2
Company/Organization Representing:	Test One Company
Facility Representing:	CULTURED ABALONE, INCCULTURED ABALONE AQUACULTURE
Authorize Access Refuse Access	

Figure 20.6 Authorize Access for Other Discharger Page

To approve a pending registration, click the "Authorize Access" button on the pending registrations page. This activates the User account and returns you to the CIWQS Main Menu.

Clicking the "Refuse Access" removes the pending registration and marks the account "inactive". The following message will be displayed:



Figure 20.7 Refusing Access to a Pending Discharger

If you wish to return to the *Pending Registrations* page, click the first "here" hyperlink. Otherwise, you can click the second hyperlink to return to the CIWQS Main Menu.

Once the registration review is complete, an e-mail message is sent to the User with notification either that the account is active or that it has been denied.

21 IDEF Module

This chapter addresses the following topic:

• An introduction to the IDEF Module

21.1 Introduction to IDEF

The IDEF Module allows for data transfer from CIWQS to EPA's Central Data Exchange (CDX). CDX is the point of entry for the Environmental Information Exchange Network (Exchange Network) for environmental data submissions (<u>http://www.epa.gov/neengprg/info/index.html</u>). The IDEF Module is accessed within the CIWQS System Administration Module.

Click the "IDEF Module" hyperlink on the *Administer System* page to view the IDEF Menu (Figure 21.1).

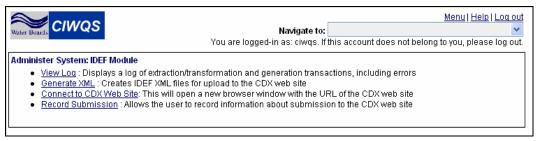


Figure 21.1 IDEF Menu Page

From this page, you can:

- View a log of extraction information and generate transactions (including errors)
- Generate IDEF XML files for upload to the CDX Web-site
- Connect to the CDX Web-site
- Record information about a submission to the CDX Web-site

21.2 View Log

Clicking the "View Log" hyperlink on the *IDEF Module* page brings you to the View Log Query page (Figure 21.2). Here you can search Module logs by date based on Transactions (CIWQS Extractions and Transformations, XML Generations, CDX Submissions) or Type (Information, Warnings, Errors).

Weiter Boards CIWQS	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.
Administer System: IDEF Module: View Log	
Transactions:	Туре:
🗹 CIWQS Extractions and Transformati	ons 🔽 Information
🗹 XML Generations	I Warnings
CDX Submissions	Errors
Date Range: 06/15/2005 to 06/22/2	005
	Refresh
Date/Time	Type Transaction/Description
Select All Select None De	lete Checked

Figure 21.2 View Log Query Page

The CIWQS Extractions and Transformations, XML Generations, and the CDX Submissions checkboxes search for data based on Transaction type and Information, Warnings, and Errors checkboxes for log Type. If the boxes have check marks in them, the related information is shown in the results table when the search is executed. Selecting the box removes the check mark from the box and filters the selected Type out of the search.

The *Date Range* fields allow you to search for Modules that were submitted between a particular set of dates.

Once you have selected the appropriate search criteria, click the "Refresh" button to run the search.

Search results are returned at the bottom of the screen. Returned information includes Date/Time, Type, and Transaction/Description (Figure 21.3).

Log entries can be deleted from the system. To do this, select the Log entries you wish to delete by selecting the checkboxes in the appropriate row and then clicking the "Delete Checked" button. If you wish to select all records, click the "Select All" button. Click the "Select None" button to clear the checkboxes for all records.

Water Box	Menu Help Log out Navigate to: Image: Climate in the image: Climate in					
Transa		Jog	Туре:			
	CIWQS Extractions and Transforn	nations	Information			
	XML Generations		□ Warnings			
	CDX Submissions		Errors			
Date R	ange: 06/20/2005 🛛 💷 to 06/2	2/2005				
			Refresh			
V	Date/Time	Туре	Transaction/Description			
	<u>06/20/2005 13:57:50</u>	Information	CDX Submission: Uploaded by Yacoub Raheem			
	06/20/2005 13:59:42	Information	CDX Submission: Uploaded by Yacoub Raheem			
	06/20/2005 14:04:15	Information	CDX Submission: Uploaded by Yacoub Raheem			
	06/22/2005 12:08:37	Information	CDX Submission: Uploaded by CIWQSs User			
	06/22/2005 13:19:26	Information	CDX Submission: Uploaded by CIWQSs User			
	06/22/2005 13:20:27	Information	CDX Submission: Uploaded by CIWQSs User			
	06/22/2005 13:38:02	Information	CDX Submission: Uploaded by CIWQSs User			
	06/22/2005 13:38:23	Information	CDX Submission: Uploaded by CIWQSs User			
	06/22/2005 14:56:29 Information CDX Submission: Uploaded by CIWQSs User					
Sele	Select All Select None Delete Checked					

Figure 21.3 Search Results on the View Log Query Page

The Log can be viewed by clicking the hyperlinks in the Date/Time column (Figure 21.4).

Water Boards CIWQS	Navigate to: You are logged-in as: demo. If this account do	<u>Menu Help Log out</u> ▼ es not belong to you, please log out.
Administer System: IDEF Module: View Log Item Created:	06/20/2005 13:59:42	
Transaction:	CDX Submission	
Туре:	Information	
Description:	CDX Submission: Uploaded by Yacoub Raheem	
XML file:	20050613160754-permit_tracking.xml	
Submitted:	06/20/2005	
User:	Yacoub Raheem (yax)	
Warning/error messages:		

Figure 21.4 View Log Item Page

21.3 Generate XML

The *Generate XML* Module lets you create IDEF XML files for uploading information to the CDX Web site. This process is typically performed by one Internal User.

Click the "Generate XML" hyperlink in the *IDEF Module*, to create a temporary data table in IDEF format that can later be uploaded onto the CDX Web Site.

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Generating XML files may take several minutes. Only click the "Generate XML" hyperlink once to prevent the Module from running multiple times.

The message "XML files generated" is displayed when the files have been created. The files are stored in the directory specified by the system configuration parameter for later uploading. Files are automatically named in the following format: YYYYMMDD-type of data.xml.

21.4 Connect to CDX Web Site

To connect to the CDX Web Site, click on the "Connect to CDX Web Site" hyperlink in the *IDEF Module*. This opens the CDX login Web site in a new Internet browser (Figure 21.5).

UNITED STATES	U.S. Environmental Protection Agency
	Login
	Recent Announcements Contact Us
THUTAL PROTECTION	<u>CDX Hone</u> > Login
AL PROTEC	
	If you have forgotten your password, or if your password doesn't work, you may re-establish your password by clicking <u>here</u> .
About CDX Account Login	
Registration Frequently Asked	Central Data Exchange Login
Questions Help & Support	
CDX Home	User Name:
Terms & Conditions	Password:
	You are in an encrypted secure session.
	Help Desk: (888) 890-1995
	EPA Home Privacy and Security Notice Contact Us
	Last updated on January 23, 2004. URL: http://www.eoa.gov/epahome/usenotice.htm

Figure 21.5 CDX Login Page

21.5 Record Submissions

Once records have been submitted to CDX, you can record/update information about the submission. In the *IDEF Module*, click on the "Record Submission" hyperlink to open the *Record Submission* Page (Figure 21.6).

Water Boards CIWQS	Menu Help Log out Navigate to: You are logged-in as: demo. If this account does not belong to you, please log out.
Select the XML file submitted.* 20050622135525-permit_tracking.xml	 Show XML files that do not have submission records Show XML files that already have submission records
© Successful C Accepted, with warnings C Failed, with errors Warning/error messages:	
Save Cancel	I File

Figure 21.6 Record Submission Page

In the "Select the XML file submitted" box, highlight the file for which you wish to submit a record. You may narrow the list by selecting either the *Show XML files that do not have submission records* or *Show XML files that already have submission records* checkboxes.

Enter the date that the record was submitted in the *Date Submitted* field. Alternatively, you may use the calendar function by clicking the calendar button to the right of the *Date Submitted* field and selecting a date.

Next, indicate the status of the submission by selecting either the "Successful", "Accepted, with warnings", or "Failed, with errors" radio buttons. If there were warning or error messages, enter (or cut and paste) the text in the "Warning/error messages" box. The box will record up to 2,000 characters. For messages that are over 2,000 characters you may upload files into the system using the "Browse" and Upload File" buttons. The uploaded file(s) are listed at the bottom of the page.

Click the "Save" button to save the submission information. Click the "Cancel" button to cancel data entry and return to the *IDEF* Module.

CIWQS Water Board User's Guide

Appendix

A Error Checks B CIWQS Security Functions C CIWQS Data Format (CDF) Directions

Appendix A

Error Checks used to produce the Error Check Report

1. Narrative Check

Review of the Narrative requirements involves checking the *In Compliance*? field on the Narrative Tab and flagging any row that has "No" as an answer.

Tab	Field	Check	Requirement	Results
Narrative	In Compliance?	Any row that has "In Compliance?" as "No" or "N/A" is a non-compliance event.	<narrative Requirement Text></narrative 	<narrative Requirement Comments></narrative

2. Numeric Checks

Tab	Field	Check	Requirement	Results
Pre-Calculated	Limit, Bound, Result	If bound is "<" and limit ≥ result, this is a non-compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Pre-Calculated	Limit, Bound, Result	If bound is "≤" and the limit > result, this is a non- compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Pre-Calculated	Limit, Bound, Result	If bound is ">" and the limit ≤ result, this is a non- compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Pre-Calculated	Limit, Bound, Result	If bound is "≥" and the limit < result, this is a non- compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Raw/EDF/CDF (Data Summary)	Limit, Bound, Calculated Result	If bound is "<" and limit \geq result, this is a non- compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Raw/EDF/CDF (Data Summary)	Limit, Bound, Calculated Result	If bound is "≤" and the limit > result, this is a non-compliance event.	<full of="" requirement="" text=""></full>	<results></results>
Raw/EDF/CDF (Data Summary)	Limit, Bound, Calculated Result	If bound is ">" and the limit \leq result, this is a non-compliance event.	<full of<br="" text="">requirement></full>	<results></results>
Raw/EDF/CDF (Data Summary)	Limit, Bound, Calculated Result	If bound is "≥" and the limit < result, this is a non-compliance event.	<full of="" requirement="" text=""></full>	<results></results>

3. Reporting Checks

Tab	Field	Check	Requirement	Results
Narrative	In Compliance?	There must be a value for each row.	Every narrative requirement must be shown to be in compliance, out of compliance, or N/A for this report.	One or more narrative requirements do not have a compliance status.
Narrative	Comments	For each row with "In Compliance?" or "No," there must be a comment.	Each out of compliance narrative requirement must have a comment describing the action(s) taken/planned to return to compliance.	The following narrative requirement for monitoring location <monitoring location identifier> is out of compliance, but no comments were provided: <narrative requirement text></narrative </monitoring
Pre- Calculated	Limit	There must be a limit specified for each row.	Each pre-calculated requirement must specify a numeric limit.	The following pre- calculated requirement for monitoring location <monitoring location identifier> does not have a specified limit: <requirement text=""></requirement></monitoring
Pre- Calculated	Results	Results must be provided for each row.	Each pre-calculated requirement must have a result.	The following pre- calculated requirement for monitoring location <monitoring location identifier> does not have a specified result: <requirement text=""></requirement></monitoring
Pre- Calculated	Comments	For each row where the comparison of the limit and the result (based on the bound) yields a non-compliance event, there must	Each non- compliant pre- calculated requirement must have a comment describing the action(s) taken/planned to	The following pre- calculated requirement for monitoring location <monitoring location identifier> is out of compliance, but no comments</monitoring

Tab	Field	Check	Requirement	Results
		be a comment.	return to	were provided:
			compliance.	<requirement text=""></requirement>
Raw Data/EDF/ CDF (Data Summary)	Result	A result must be entered on each line, unless the "non-detect" checkbox is selected.	All samples must specify a numeric result or must be marked as "non- detect."	The sample on line <line number=""> for monitoring location <monitoring location> does not indicate non-detect and does not contain a numeric result.</monitoring </line>
Raw Data/EDF/ CDF (Data Summary)	Non-Detect	Non-Detect can only be used if there is no numeric result.	Samples below the detection level (non-detect checked) must not indicate a numeric result.	The sample on line <line number=""> for monitoring location <monitoring location> does indicate non-detect and also shows a numeric result.</monitoring </line>
Raw Data/EDF/ CDF (Data Summary)	Sample Date	Sample date is required.	A sample date is required for each sample.	The sample on line <line number=""> for monitoring location <monitoring location> indicates no sample date.</monitoring </line>
Raw Data/EDF/ CDF (Data Summary)	Method Detection Limit	For each row marked as non- detect, the method detection limit is required.	The method detection limit must be specified for each non-detect sample.	The sample on line <line number=""> for monitoring location <monitoring location> is marked as non-detect, but does not specify the method detection limit.</monitoring </line>
EDF/CDF	Units	Each row must specify units that are in the units reference table.	Uploaded data must be reported in units accepted by the system.	A sample was reported with units " <invalid units="">."</invalid>
EDF/CDF	Units	The units must match the parameter.	Uploaded data must contain units that are compatible with the parameter.	A sample for " <parameter>" was reported in "<units>."</units></parameter>
EDF/CDF	Parameter	Each row must use a parameter from the reference table. No synonyms were found.	Uploaded data must specify parameters accepted by the system.	A sample was reported with parameter " <parameter>."</parameter>

Tab	Field	Check	Requirement	Results
EDF/CDF	Parameter	Each row must use a parameter from the reference table. The value is found as a synonym.	Uploaded data must specify parameters accepted by the system.	A sample was reported with parameter " <reported parameter>." This is a synonym for "<official parameter>." The same should be reported as "<official parameter>."</official </official </reported
Narrative, Pre- Calculated, Raw, EDF/CDF	All Fields	If a monitoring location is marked as No Discharge, but there is data in any other section for the monitoring location, this is a non-compliance event.	Monitoring locations without discharge should not have any data reported.	Data was reported for monitoring location <monitoring location>, which has been indicated as having no flow during this reporting period.</monitoring
Raw/EDF/ CDF (Data Summary)	Various	If there is insufficient raw data to compute a result, this is a non-compliance event.	Sufficient sample information must be provided for each non-pre- calculated limit.	There was insufficient information provided to evaluate the following limit: <requirement text="">.</requirement>
General	Report Due Date	If the due date is prior to today's date, this is a non- compliance event. Note: until the report is submitted, the results of this check may not be correct and may indicate a false negative (i.e., no non-compliance event will be discovered).	This report was due on <due date="">.</due>	As of <today's date>, this report has not been submitted.</today's

4. Limit Bases

The system also runs through each numeric (limit) requirement and attempts to locate the raw data in support of the results. The "limit basis" is used to run the calculation on the raw data. If there is insufficient raw data to make the proper computation, this is shown as a "reporting" non-compliance event.

The limit basis, as indicated in the limitation requirement (Chapter 5), tells the system how to compute the "actual" value from raw data (submitted either via the raw data screen or via EDF). The following limit bases will be used to calculate from raw data:

Limit Basis	Calculation
Maximum Daily	The daily discharge (see definition below) is computed.
Average	The average (mean) of the daily discharge values (see definition below) for a given calendar month (first of the month to the last of the month) is computed.
Monthly	All values used to compute the mean will have the same month and year, but may have different days.
	The average (mean) of the daily discharge values (see definition below) for a given week (Sunday to Saturday) is computed.
Average Weekly	In a given month, there will be multiple week-periods. If the last week of the month doesn't end of Saturday, the check is done in the following month. For example, September 2004 ends on a Thursday. The weekly average for the last week of September is actually not computed until the end of the first week in October (which would not be reported until later).
	Note that if a permit starts mid-week, no values need to be submitted for that first week. A full week is required to have any values due.
Annual Average	The average (mean) of the daily discharge values (see definition below) for a given calendar year (January 1 to December 31) is computed.
(Rolling) 6- Month Median	The system will perform a series of calculations, one for each day in the monitoring period, that looks at the mean of the prior 180 days of data. There will be one "rolling" check per day in the period (e.g., for a monthly report with 31 days, there will actually be 31 separate "rolling" checks).
Instantaneous Maximum	"Instantaneous" is defined as a single sample value. No computation is performed, except for the comparison.
Instantaneous Minimum	"Instantaneous" is defined as a single sample value. No computation is performed, except for the comparison.

5. Additional Checks

"Daily Discharge" is either:

- The total mass of a pollutant discharged during a calendar day (when the units are of type "mass") or
- The average (mean) measurement of the pollutant over the calendar day (when the units are of any type except "mass")

Calendar day is defined as 12:00am (00:00:00) to 11:59pm (23:59:59). Values in a single calendar day will have the same month, day, and year.

Therefore, if the units are of type "mass," all sample measurements for a parameter are summed for a given day to calculate the daily discharge. For all other units, all sample measurements for a parameter are averaged (mean) for a given day to calculate the daily discharge.

All other limit bases will be required to be "pre-calculated" and will require the discharger to perform the "roll-up" calculations before submission.

Appendix B

System Security Functions

Module	Function	Read-Only	Update	Super
Security	Login	Grants the User the ability to login. All Users require <i>at least</i> Read-Only access to the "Login" function to be able to connect to the system.	Same as Read- Only.	Same as Read- Only.
Security	Activate Users	Grants the User the ability to see pending Discharger registrations, but does not allow activating or deleting Users.	Grants the User the ability to see pending Discharger registrations and to activate or deny pending registrations.	Same as Update.
Security	Activate Own Users	This access level does not exit. If Read-Only access is provided to this function, this is the equivalent of denying access to the function.	Grants a Discharger User (responsible executive officer) the ability to authorize other staff to submit (but not sign/certify) data for his/her Facility.	Same as Update.
Security	Create User Accounts	This access level does not exit. If Read-Only access is provided to this function, this is the equivalent of denying access to the function.	Grants the User the ability to create a login for a Party.	Same as Update.

Module	Function	Read-Only	Update	Super
Security	Manage Security	Allows security information, by User, group, or function, to be viewed, but not changed.	Allows the User to add/remove Users from groups and assign accesses to groups.	Same as Update.
Security	View/ Change My Information	Allows a User to view his own information, but make no changes, except changing the password. This User can request changes via the <i>Request</i> another Change button or the <i>Request another</i> <i>Facility</i> button. To deny the User the ability to change a password, no access should be provided to this function.	Allows the User to make changes to any of his own information, except for name fields.	Allows the User to make any changes to his own information, including name fields.
Submit a Self Monitoring Report	Submit a Self Monitoring Report	Allows the User to view Self Monitoring Reports for authorized Facilities (Dischargers or External Users) or for Facilities in an authorized Water Board (Internal Users).	Allows the User to enter data into an SMR for authorized Facilities (Dischargers or External Users) or for Facilities in an authorized Water Board (Internal Users). Certification is not allowed.	Allows the User to enter data into an SMR for authorized Facilities (Dischargers or External Users) or for Facilities in an authorized Water Board (Internal Users). Allows the User to certify and submit the SMR. This access level is intended for executive responsible officers only.

Module	Function	Read-Only	Update	Super
Submit a Self	Water Board	Allows the User	Allows the User	Allows the User
Monitoring	Notes	to view Water	to create/edit	to create, edit, and
Report		Board Notes	Water Board	delete Water
		within SMRs.	Notes within	Board Notes
			SMRs.	within SMRs.
Submit a Self	Withdraw	This access level	This access level	Allows the User
Monitoring	Submittal	does not exist. If	does not exist. If	to withdraw
Report		Read-Only Access	Update Access is	submissions.
		is provided to this	provided to this	
		function, this is	function, this is	
		the equivalent of	the equivalent of	
		denying access to	denying access to the function.	
Mara It	Mar It	the function. Allows the User	Same as Read-	Same as Read-
Map It	Map It			
		to launch the Map It Module.	Only.	Only.
Create/Maintain	Create/Maintain	Allows the User	Allows the User	Allows the User
Places	Places	to view Facilities	to create or	to create or
		within an	update Facilities	update Facilities
		authorized Water	within an	within any Water
		Board.	authorized Water	Board.
~ (7.5.1.1			Board.	
Create/Maintain	Create/Maintain	Allows the User	Allows the User	Allows the User
Regulatory	Regulatory	to view	to create or	to create or
Measures	Measures	Regulatory Measures for	update	update Boundate
		Facilities within	Regulatory Measures within	Regulatory Measures within
		an authorized	an authorized	any Water Board.
		Water Board.	Water Board.	ally water board.
Create/Maintain	Delete	This access level	Allows the User	Allows the User
Regulatory	Regulatory	does not exit. If	to delete	to delete
Measures	Measures	Read-Only access	Regulatory	Regulatory
		is provided to this	Measures within	Measures for any
		function, this is	an authorized	Water Board.
		the equivalent of	Water Board.	
		denying access to		
		the function.		
Create/Maintain	Activate	This access level	Grants the User	Grants the User
Regulatory	Regulatory	does not exist. If	privileges to	privileges to
Measures	Measures	Read-Only Access	activate and	activate and
		is provided to this	deactivate	deactivate
		function, this is	Regulatory	Regulatory
		the equivalent of	Measures within	Measures within
		denying access to	an authorized	any Water Board.
		the function.	Water Board.	

Module	Function	Read-Only	Update	Super
Create/Maintain Regulatory Measures	Schedule Inspections	Allows the User to view the <i>Inspections</i> tab within Regulatory Measures for authorized Water Boards.	Allows the User to schedule inspections in the <i>Inspections</i> tab within Regulatory Measures for authorized Water Boards.	Allows the User to schedule inspections in the <i>Inspections</i> tab within Regulatory Measures for any Water Board.
Create/Maintain Regulatory Measures	Enforcement	Allows the User to view the enforcement tab (if applicable), but not enter any information.	Allows the User to enter information on the enforcement tab. The User must have at least update access to <i>Create/Maintain</i> <i>Regulatory</i> <i>Measures</i> , as well.	Same as Update.
Create/Maintain Parties	Create/Maintain Parties	Allows the User to view <i>all</i> Parties.	Allows the User to create or update <i>all</i> Party information.	Same as Update.
Create/Maintain Inspections	Create/Maintain Inspections	Allows the User to view inspections for Facilities within authorized Water Boards.	Allows the User to create/update inspections for Facilities within authorized Water Boards, including allegations/ violations.	Allows the User to create/update inspections for all Facilities, including allegations/ violations.
Create/Maintain Violations	Create/Maintain Violations	Allows the User to view violations for Facilities within authorized Water Boards.	Allows the User to create/update violations for Facilities within authorized Water Boards.	Allows the User to create/update violations for all Facilities, including allegations/ violations.
Create/Maintain Invoices	Create/Maintain Invoices	Allows the User to view invoices and payments.	Allows the User to create/edit invoices.	Same as Update.
Create/Maintain Invoices	Record Payments	Allows the User to view payments, but not record any payments.	Allows the User to record payments.	Same as Update.
Run Reports	Each report has its	own security.		

Module	Function	Read-Only	Update	Super
Administer	Manage	Allows the User	Allows the User	Same as Update.
System	Reference Tables	to view any of the	to modify data in	
		reference tables,	any reference	
		but no changes	table (simple or	
		can be made.	complex). There	
			is not individual	
			security on each	
			reference table; it	
			is all or none.	

CIWQS Data Format (CDF):

Explanation and Instructions for Creating a CIWQS-Compliant File

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April 2006

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1 CIWQS Data Format Overview

The CIWQS Data Format (CDF) Microsoft Excel-based file allows you to configure your data into a format that CIWQS will understand and interpret correctly. You can open the CDF file in Microsoft Excel, configure it on the basis of your permit requirements, and then use the configured file as a template for entering monitoring data on a monthly, quarterly, semi-annual, or annual basis. Once you've entered all your general information and monitoring data into the CDF file, an embedded macro can be used to create a ZIP file suitable for upload into CIWQS. The resulting ZIP file contains both a text file and a comma-separated values (CSV) file. The text file provides basic information on the submission, such as facility name and NPDES number. The CSV file contains the monitoring data. Although both files can be read with a text editor, word processor, or Microsoft Excel, the CIWQS upload requires both files be in the zipped file.

You can obtain additional information and download the CDF file and CIWQS Discharger User Manual from the CIWQS Web site at <u>http://www.swrcb.ca.gov/ciwqs/sessions.html</u> or on the **EDF** / **CDF** tab in the *Submit/Review Self Monitoring Report (SMR)* module of CIWQS.

2 CDF Setup Installer

To successfully create a ZIP file for upload into CIWQS, you must first download the CDF Setup installer from the CIWQS Website or from the **EDF / CDF** tab in the *Submit/Review Self Monitoring Report (SMR)* module of CIWQS. The CDF Setup installer will install the CIWQS Data Format (CDF) Microsoft Excel-based file, an installer named zip32-23.dll, and create shortcuts to the CDF file. The zip32-23.dll installer allows the macro that creates a ZIP file for upload into CIWQS to run properly. Without this file, the macro will not work. After downloading the installer, save it to a location were it is easily accessible, open CDF Setup, and follow the directions when prompted. When you have completed the setup, the zip32-23.dll installer will be saved to your c:\windows\system32 directory and you will be prompted to open the CDF Excel file. The CDF Excel file should now be ready for use.

3 CIWQS_Data_Format.xls

3.1 Launching the CDF Microsoft Excel file

Once open, the CDF Microsoft Excel file should ask you whether macros are to be enabled. If prompted, select "Enable Macros".



If not prompted, make sure the Microsoft Excel security setting is set to medium and reopen the file. To set the security setting to medium, follow the instructions below:

- 1. Click the **Tools** key in the upper left corner of the Excel spreadsheet.
- 2. Click the **Macro** key.
- 3. Click the **Security** key.
- 4. Under the tab *Security Level*, choose the medium setting and click **OK**.
- 5. Close Microsoft Excel and reopen the CIWQS_Data_Format.xls.
- 6. Select "Enable Macros".

Microsoft provides full instructions regarding macro usage at <u>http://office.microsoft.com/en-us/assistance/HP030892871033</u>.

Once the file is open and the macros have been enabled, save the file. It is recommended that you save any changes made to the original file as versions of the original. For example, if you save the original file as CDF.xls, save a working copy as CDF_sept05.xls. This will preserve your original file.

3.2.a. Recording Discharger-Specific Identification Information

Sheet:

Click on the sheet entitled General.

Purpose:

Here, you can enter facility-specific information to

- Assist you in tracking the data submittals internally.
- Be included as a separate text file in the ZIP file upload into CIWQS.
- Assist State and Regional Board Staff in locating your original submittal.

M 12	Microsoft Excel - CIWQS Data Format - Ti	raining		
	<u>File E</u> dit <u>Vi</u> ew Insert Format <u>T</u> ools <u>D</u> ata <u>V</u>	Mindow Help Adobe PDF		_ @ ×
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12	Data Enter	ed By:	Key: Red Outline = Required	
13			Blue Outline = Optional	
14				
15	QA Perform	red By:		
16				
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18		alytical Lab Contact Informa		
19	Name	Location	Contact & Phone Number	
20				
21			_	
22		Additional Notes:		
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20	-			
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Instructions:

Enter the following facility-specific information:

Required Information	Optional Information
Discharger Name	Data Entered By
Facility Name	QA Performed By
NPDES Permit No	Analytical Lab Contact Information
Sample Month	Additional Notes

3.2.b. CDF Customization File Path

Sheet:

Click on the sheet entitled *General*.

Purpose:

This file will limit your parameter and unit choices on the *Data Entry* sheet to just those applicable to your individual NPDES permit and SMR you are configuring for submittal.

Note that this customization tool is only available in Version 0.7 and above in the CDF Microsoft Excel file.

Instructions:

While you are logged on to CIWQS click on the **EDF** / **CDF** tab, available in the *Submit/Review a Self Monitoring Report (SMR)* module in a specific SMR you are configuring for upload in CIWQS.

🗿 California Integrated Water Quality System (CIWQS 1.9) - Build Number: 04.05.2006.1 - Microsoft Internet Explorer	- 7
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Back to SMR search screen	
Monthly SMR (MONNPDES) report for May 2006 Effective Dates: 05/01/2006 - 05/31/2006	
View Requirements No Discharge Narrative Pre-Calculated EDF/CDF Raw Data Data Summary File Attachments Error Check Cover Letter	
Step 3. Create your EDF/CDF file by using the tool. Step 4. Click Browse, select the EDF/CDF file and click 'Upload File'. Note: the upload process may take a few minutes depending on the speed of your internet connection and the size of the EDF/CDF file. Do not attempt to click the "Refresh" or "Submit" buttons during the upload process.	
File * File Description	
Browse Upload File The EDF/CDF file must conform to the following <u>guidelines</u> . Upload File In order to create EDF/CDF files, you may wish to use the following <u>software</u> . You may also check some helpful <u>hints</u> for uploading EDF/CDF files.	
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"Step 2" directs you to download the <u>CDF Customization File</u> for that specific SMR. Follow the instructions below to download this file.

- 1. Click on the <u>CDF Customization File</u> link.
- 2. A *File Download* screen will appear, prompting you to **Save**. Do so by clicking the **Save** button.
- 3. A *Save As* screen will appear. Save the file in a location you will recognize and remember. **Do Not** change the default file name.

You are now ready to upload the CDF Customization File into your CDF template. Note that you upload this file into a version of the original CDF and not into the original file. Follow the instructions below to upload the file into a specific CDF template.

- 1. Open your original downloaded CDF Microsoft Excel file.
- 2. Go to the **File** option and choose **Save As**.

- 3. Save the file in a location you will recognize and as something that will indicate whether this file is going to be a monthly, quarterly, semi-annual, or annual CDF template.
- 4. On the *General* sheet, click the **Browse** button to the right of the <u>CDF</u> <u>Customization File Path</u>.
- 5. Find the appropriate file and click the **Open** button.
- 6. You will return to the *General* sheet of the CDF Microsoft Excel file. Click the **Load** button. You will be notified if the customization file has uploaded successfully.

Once you have uploaded the customization file successfully the parameters and units available in the dropdown menu of the *Parameter* and *Unit* columns respectively will be limited to those parameters related to the specific SMR you downloaded the customization file from. For example, if you are required to monitor flow, pH, and total dissolved solids monthly and you downloaded the customization file from a monthly SMR, after loading the customization file into your CDF Microsoft Excel file only those parameters and corresponding units will appear in the dropdown menu. If you are required to monitor for priority pollutants annually and you downloaded the file from an annual SMR only priority pollutants will appear in the dropdown menu.

3.3 Recording Discharger Monitoring Data

Sheet:

Click on the sheet entitled *Data Entry*.

Purpose:

This sheet allows you to enter facility-specific monitoring data to be uploaded into CIWQS. It is recommended that each discharger create a facility-specific template; refer to the template instructions below.

General Guidelines:

It is important to note that CDF relies on a defined format and code values modeled after the Electronic Deliverable Format (EDF). To ensure that this tool will continue to function properly and produce a CIWQS-compliant file, abide by these general guidelines. (Subsequent sections contain more detailed instructions.)

- 1. Row 1 of the *Data Entry* sheet is a narrative description of the required field.
 - a. *Do not* change the order of the columns or the first row on the *Data Entry* sheet.
 - b. If the Required Field is a data descriptor, choose the descriptor *only* from the dropdown menus provided. *Do not* enter facility-specific abbreviations, descriptions, or codes.
 - c. Parameter units chosen in CDF Microsoft Excel file *must* be identical to those defined in the facility's NPDES permit. CIWQS will not convert units, so make sure you're reporting your data as it is specified in your permit.

- 2. Data and descriptors entered into the columns on the *Data Entry* sheet must be in a specific format.
 - a. Each Required Fields section below describes the information required in each column.
 - b. Some Required Fields are based on Valid Value List (VVL) codes, which are listed on the *Lookup Codes* sheet.
 - VVL codes are what CIWQS understands as your data's descriptors.
 - The CDF macro will automatically insert the descriptor's corresponding VVL code into the CSV file, which is included in the ZIP file for upload into CIWQS.
 - To view how VVL codes relate to data descriptors on the *Data Entry* sheet, refer to the *Lookup Codes* sheet. If you can't find the appropriate code, you can look up the code by definition as follows:
 - Click the **Edit** key in the upper left corner of the *Lookup Codes* sheet.
 - Click the **Find** key.
 - Enter a basic description of the data descriptor. For example, if the analytical method EPA 239.2 is of interest, enter 239.2 and click Find Next until the appropriate VVL code is identified. In this example, the appropriate code would be E239.2 (Lead [AA, Furnace]). Be sure to match the appropriate code to the appropriate Conversion Field Name column on the *Lookup Codes* sheet.
 - c. Other Required Fields are related to facility-specific data and laboratory information.

Creating a Template:

When first viewing the *Data Entry* sheet you will see that it includes parameters that may be useful to you in the dropdown menu under the *Parameter* column. Many parameters may not apply to your facility. If you mistakenly choose a parameter that does not apply to your facility, follow the instructions below to remove it.

- 1. Select the **cell** that contains a parameter that does not apply to your facility. You **cannot delete entire rows**; you must select the cells to delete entered information.
- 2. Click the **Delete** key on your keyboard.
- 3. Replace the subsequent blank row with the appropriate information.
- 4. The CDF tool will not operate correctly if blank rows are left within the data set.
- 5. Insert an appropriate parameter and its corresponding information in **ALL** blank rows prior to the end of your data set.

You should check with your laboratory to ensure that the correct analytical methods are recorded. Be aware that many CTR Priority Pollutants have synonyms; Chapter 8 of this document includes common synonym for conventional and priority pollutants. This list is intended to assist you in identifying parameters; it does not include code values.

You should use the CDF file to create a reusable template. You can do this by entering information that is not likely to change from month to month and then saving the

template file. The following Required Fields are not likely to change from month to month:

Required Field	Conversion Field	
	Name	
Monitoring Location ID	FIELD_PT_NAME	
Sample Medium	MATRIX	
Parameter	PARALABEL	
Analytical Method	ANMCODE	
Unit	UNITS	

After you've completed a row for each parameter and monitoring location once, you can use it to create a template file.

The following Required Fields will likely change from month to month because they are specific to the monitoring data results. These Required Fields should be input each month:

Required Field	Conversion Field Name
Sample Collection Date	LOGDATE
Sample Collection Time	LOGTIME
Sample Analysis Date	ANADATE
Analytical Result	PARVAL
Analytical Result Qualifier	PARVQ
Method Detection Limit	LABDL
Minimum Level	REPDL & REPDLVQ

Required Field Instructions:

The following instructions explain how to create a facility-specific CIWQS_Data_Format.xls file.

Monitoring Location ID

Conversion Field Name: FIELD_PT_NAME Definition: Monitoring Location ID

- Is identified specifically in the facility's NPDES Permit *or*
- Was assigned when the facility's limits were entered into CIWQS *or*
- Was provided upon the facility's registration

Instructions:

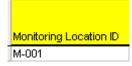
- 1. Enter the Monitoring Location ID for the sample in the <u>Monitoring Location ID</u> column on the *Data Entry* sheet.
- 2. Ensure that the Monitoring Location ID is identical to the NPDES permit or CIWQS format.

Sample Collection Date

Conversion Field Name: LOGDATE Definition: The date the field sample is collected. Format: MM/DD/YYYY Example: A sample collected on May 2, 2004, would be entered as 05/02/2004 Instructions: Enter the Sample Collection Date for the sample in the <u>Sample Collection Date</u> column on the Data Entry sheet. Sample Collection Time Conversion Field Name: LOGTIME Definition: The time the field sample is collected. Format: HH:MM (24-hour time) Example: A sample collected at 1:46 PM would be entered as 13:46

Instructions:

Enter the Sample Collection Time in the <u>Sample Collection Time</u> column on the *Data Entry* sheet.







Sample Medium

Conversion Field Name: MATRIX *Definition:* The code identifying the sample matrix as determined by the laboratory. *Instructions:*

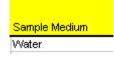
- 1. Choose the appropriate Sample Medium from the dropdown menu in the <u>Sample Medium</u> column on the *Data Entry* sheet. Currently, only Water is available. Future versions of the CDF Microsoft Excel file may include options such as Ocean Water, Stormwater, Surface Water, extra.
- 2. Enter *only* a descriptor that is specified in the dropdown menu in the <u>Sample Medium</u> column on the *Data Entry* sheet.
- 3. Refer to guideline 2 of the General Guidelines listed in this section for further discussion on descriptor lookup methods.

Analytical Method

Conversion Field Name: ANMCODE *Definition:* The code identifying the method of analysis.

Instructions:

- 1. Choose the appropriate Analytical Method from the dropdown menu in the <u>Analytical</u> <u>Method</u> column on the *Data Entry* sheet.
- 2. Enter *only* a descriptor that is specified in the dropdown menu in the <u>Analytical Method</u> column on the *Data Entry* sheet.
- 3. Refer to guideline 2 of the General Guidelines listed in this section for further discussion on descriptor lookup methods.
- 4. In the event you are *unable to locate* your specific Analytical Method or there is not an Analytical Method to match to the parameter, choose the *Data Unavailable [DU]* option.



Analytical Method

Data Unavailable [DU]

Sample Analysis Date

Conversion Field Name: ANADATE *Definition:* The date the sample is analyzed. *Format*: MM/DD/YYYY *Example*: A sample analyzed on April 22, 2005, would be entered as 04/22/2005. *Instructions*:

- 1. Enter the Sample Analysis Date in the <u>Sample Analysis Date</u> column of the *Data Entry* sheet.
- 2. In the event you are *unable to attain* this information, leave this field *blank*.

Parameter

Conversion Field Name: PARALABEL *Definition:* The code identifying the parameter. *Instructions:*

- 1. Choose the appropriate Parameter from the dropdown menu in the <u>Parameter</u> column on the *Data Entry* sheet.
- 1. Enter *only* a descriptor that is specified in the dropdown menu in the <u>Parameter column on</u> the *Data Entry* sheet.
- 2. Refer to guideline 2 of the General Guidelines listed in this section for further discussion on descriptor lookup methods.
- 3. Be sure to include the parameter concentration (total, total recoverable, or dissolved) when selecting the appropriate parameter.



Parameter Flow

Analytical Result

Conversion Field Name: PARVAL

Definition: The numeric analytical value for the parameter.

Instructions:

- 1. A numeric value (the analytical result) *must* be entered here.
- 2. Enter a numeric value *only*. Three types of numeric values exist:
 - a. If the parameter result is detected, enter the detected value and choose "=" in the <u>Analytical Result Qualifier</u> column described below.
 - b. If the parameter is detected but not quantified (DNQ), enter the numeric value and choose "=" in the <u>Analytical Result</u> <u>Qualifier</u> column described below. In this case, you *must* also enter the minimum level (ML) in the <u>Minimum Level (ML)</u> column described below.
 - c. If the sample result is non-detect (ND), enter the method detection limit (MDL) in the <u>Analytical Result</u> column and choose "<" in the <u>Analytical Result Qualifier</u> column described below.
- 3. All numeric value types *must* be supplemented by entering the MDL in the <u>Method Detection</u> <u>Limit (MDL)</u> column described below.

Analytical Result Qualifier

Conversion Field Name: PARVQ *Definition:* The code identifying the qualifier of the analytical result.

Instructions:

1. Enter an Analytical Result Qualifier. There are two Analytical Result Qualifiers:

Analytical Result

119000

- "=" the sample was detected and quantified or detected but not quantified (DNQ)
- "<" the sample was not detected (ND)



Method Detection Limit (MDL)

Conversion Field Name: LABDL *Definition:* The laboratory-established method detection limit.

Instructions:

- 1. If this information is not readily available, the laboratory that analyzed the sample will be able to provide it.
- 2. Enter a numeric value *only*.

Minimum Level (ML)

Conversion Field Names: REPDL and REPDLVQ

Definition: Method Limit (Reporting Limit (RL) or Practical Quantization Limit (PQL)); the lower bound to which a particular test method should be or is able to test down to with 95% confidence. Many times laboratories use the RL as equivalent to the ML. The ML, RL, or PQL can be the same as the MDL. If it is not, the MDL should be less than the ML, RL, or PQL. When they differ, a DNQ result is possible. The ML or RL should be listed on laboratory data as required by section 2.4.2 of the *Policy for Implementation of Toxic Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (SIP). The PQL should also be listed on laboratory reports. *Instructions:*

- 1. Enter a numeric value *only*.
- 2. Enter the numeric value *only if* the analytical result is *DNQ*.
- 3. If the analytical result is detected and quantified or ND, leave this column *blank*.
- 4. If this information is not readily available, the laboratory that analyzed the sample will be able to provide it.



Minimum Level (ML)

Required Field M: Units

Conversion Field Name: UNITS *Definition:* The associated parameter units identified in your NPDES permit. *Instructions:*

- 1. Choose the appropriate Unit from the dropdown menu in the <u>Units</u> column on the *Data Entry* sheet.
- 2. Units used in the CDF Microsoft Excel file *must* be identical to those used in the facility's NPDES permit.
- 3. Enter *only* a unit that is specified in the dropdown menu in the <u>Units</u> column on the *Data Entry* sheet.
- 4. Refer to guideline 2 of the General Guidelines listed in this section for further discussion on descriptor lookup methods.

	Units	
g/day		

3.4 Data Conversion Before Upload

Sheet:

Click on the sheet entitled *Conversion*.

Purpose:

Here, data entered into the *Data Entry* sheet is converted to make it CIWQS-compliant. This sheet converts your data by use of the enabled macro and uses the correct Conversion Field Names and VVL codes. The sheet is displayed and used solely for the purpose of the macro.

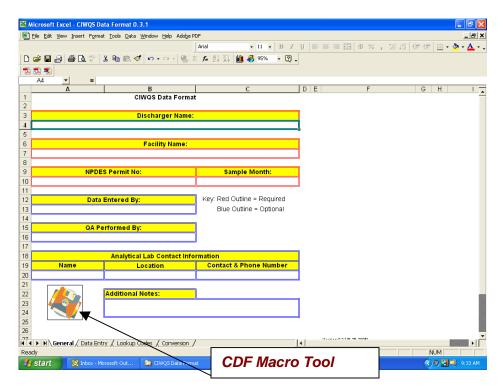
General Guidelines:

It is important to note that CDF relies on a defined format and code values modeled after the Electronic Deliverable Format (EDF). To ensure that this tool will continue to function properly and produce a CIWQS-compliant file, *do not alter* this page.

3.5 Using the Macro to Create the ZIP File

After all discharge monitoring data has been entered (and quality assured) into the nowcustomized CDF Microsoft Excel file, you are ready use the CDF macro to create the ZIP file to be uploaded into CIWQS. To do this, follow the instructions below:

- 1. Save the now-customized CDF Microsoft Excel file as a *.xls file for your internal records.
- 2. Make certain your Excel security setting is set to *medium*. Refer to section 3.1.
- 3. Go to the *General* sheet.
- 4. Click the CDF macro tool.



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3 M002 4/2	
4 M003 4/2	
5	Documents and Settings
6	History DRIVERS
7	EDCC1.2I
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9	My Documents Program Files
11	My Documents Program Files
12	
13	WINDOWS
14	
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18	Favorites
19	
20	Mu Naharavel File name: CAXXXXXXX_MMYYYY
21	
22	Places Save as type: Zip Files Cancel
23	
24	

A box stating, "Select a directory and enter a file name" will appear.

- 5. For Save in, choose a directory/location that is easy to find.
- 6. Enter a file name. The suggested file name format is the following: NPDES permit number, month, and year the sample was collected, CAXXXXXX_MMYYYY
- 6. For Save as type, enter Zip Files.
- 7. Click Save.

8. A CIWQS Data Format box stating, "Done!" will appear. Click **OK**.

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25		1	Done!
26 27			ОК

9. The ZIP file is now available for upload into CIWQS. Refer to section 3.6, *Upload the ZIP File into CIWQS*, for instructions.

3.6 Uploading the ZIP File into CIWQS

The *Submit/Review Self Monitoring Report (SMR)* module of CIWQS includes the **EDF** / **CDF** tab that allows you to browse your computer and select the appropriate file for upload. You can upload EDF or CDF files. Therefore, save your CDF file in a location you can find easily, and then retrieve the file when you use the CIWQS Report Builder.

3.7 CDF Macro Errors

The CDF macro creates the ZIP file to be uploaded into CIWQS. To do this, all data and descriptors entered into the CDF file must be in a valid format. Each Required Fields section above discusses this format. For example, if the sample collection time is not entered correctly (HH:MM), the following error messages will appear:

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2	Monitoring Location ID	Scenario ID	Date	Time	Sample Medium	Analytical Method							
2	001					Acidity, Total							
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17				. 🜄	The sample colleciton date is require	ed and must be in a valid 24-hour time format.							
18													
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To correct this error, click **Cancel**. Microsoft Excel will then either automatically correct the entry to the valid 24-hour time format or delete the entry. In the latter case, enter the sample collection time in the correct format.

Another error message occurs when the user overlooks choosing a Required Field from the dropdown menus of each descriptor. For example, if the analytical method is not entered when the CDF macro is run, the following error message appears:

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3													
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6					Run-time er	ror 131							
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10													
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When this occurs, click **End**. This will end the Microsoft Visual Basic application of the CDF macro and allow for the format error to be fixed. After **End** is chosen, the user will be on the *Conversion* sheet of the CDF file. Go to the *Data Entry* sheet and check each Required Field for a missing entry. When each missing entry is corrected, the CDF macro is ready to be tried again. **Do not** make changes within the *Conversion Sheet*.

Do not choose the **Debug** option. If the **Debug** option is chosen, the user will open the Visual Basic application code:

着 Microsoft Visual Basic - CD	F_sep	05.xls [break]	
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- 🖧 InfoZip1		'Open a text file to write	
😪 InfoZip2		<pre>sFname = GetTempDir() + "cdf.csv"</pre>	
主 📄 Class Modules		lFnum = FreeFile	
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🖻 😁 Modules			
CDFTools 🕑		'Loop through the rows	
<		For Each rRow In ActiveSheet.UsedRange.Rows	
Properties - Sheet4		'Loop through the cells in the rows For Each rCell In rRow.Cells	
Sheet4 Worksheet		⇒ sOutput = sOutput & rCell.Value & "," I = I + 1	
Alphabetic Categorized		Next rCell	
(Name) Sheet4		Next reell	
DisplayPageBreak False		'remove the last comma	
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EnableAutoFilter False			
EnableCalculation True		'write to the file and reinitialize the variables	
EnableOutlining False		Print #1Fnum, sOutput	
EnablePivotTable False		sOutput = ""	
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Visible -1 - xlSheetVisib		DLLPrnt As Long	

Do not change anything in this application and close it using the upper right hand immediately. Microsoft Visual Basic will notify the user that this action will stop the debugger. Click **OK**.

Microsoft Visual Basic 🛛 🛛 🔀									
This command will stop th	he debugger.								
OK Cancel	Help								

The user will now see the *Conversion* sheet of the CDF file. Go to the *Data Entry* sheet and check each Required Field for a missing entry. When each missing entry is corrected, the CDF macro is ready to be tried again.

4 Do's and Don'ts of the CIWQS Data Format

4.1 Do

- Enable macros.
- Save the CDF Excel file to your computer.
- Save working versions of the CDF Excel file to preserve the original file.
- Enter all required information and any additional optional information on the *General* sheet.
- Only use valid formats as defined in the Required Fields section above on the *Data Entry* sheet.

4.2 Don't

- Alter the format of the *General* sheet.
- Move the CDF macro tool.
- Alter the first row on the *Data Entry* sheet.
- Alter the order of the columns on the *Data Entry* sheet.
- Enter facility specific abbreviations, descriptions, or codes on the *Data Entry* sheet.
- Alter the *Lookup Codes* sheet.
- Alter or enter information in the *Conversion* sheet.
- Try to debug Microsoft Visual Basic.

5 EDF / CDF Uploading Hints

This section contains some basic hints for EDF/CDF uploading and a list of the common reasons why the file upload and parsing process fail.

5.1 Introduction

Self-Monitoring Report data can be uploaded to CIWQS using the Electronic Deliverable Format (EDF) or the CIWQS Deliverable Format (CDF). EDF / CDF is a data standard for transferring electronic data files between data producers (e.g. labs and facilities) and data users (Water Boards).

5.2 CDF

This release of CIWQS will support the CIWQS Deliverable Format (CDF) generated by the CDF Tool spreadsheet version 0.5 or above. It is recommended that you check for updated versions often and use the most updated version available. The CDF format is a valid EDF flat file format archive that contains two files: extra information file and flat file.

File Preparation

Prior to submission, the following tool may be used to prepare a CDF submission:

• CDF Tool (CIWQS Deliverable Format Tool): An excel spreadsheet that generates a valid CDF flat file format. Links to this tool can be found on the California SWRCB <u>website</u>



For a CDF submission, please use the CDF Tool spreadsheet version 0.5 or higher!

File Considerations

CDF files must be compressed in ZIP format. Tools such as PKZip, WinZip, and Windows XP's compressed folders all use the zip format. The CDF Tool generates automatically this archive. By compressing the various files into a single ZIP file, this ensures that the different files that comprise a submission do not become separated.

The ZIP file should contain:

- CDFINFO.TXT: Information file.
- CDF.CSV: Flat File.

Uploaded CDF files should be named in a manner that makes it clear what the file contains (e.g., facility name and report date, lab name) and should end in ".zip". If multiple CDF files are uploaded, each must contain a unique name. CDF files uploaded to CIWQS should *not* be password encrypted.



CDF files must contain no errors to upload successfully. Errors in the CDF files will result in the generation of an error message within CIWQS. In some cases, an error may prevent a downstream error from being discovered.

The following file requirements must be followed in order to have a valid CDF file format recognized by CIWQS:

- The CDF file may be submitted only as a CSV (also known as "comma/quote delimited") generated by the CDF Tool spreadsheet.
- The column heading or field name is not required in a CSV file. This information is not part of the file and should be omitted. Only authorized codes from the valid value list should be keyed into fields requiring valid values.
- Every record within a file must be unique. If, for each key field, a record's data appears exactly the same in another record, these two records are considered to be duplicate records.



Several files are entered as codes in the CDF format, CIWQS, or both. Any value that is a code in CIWQS will have a cross-map to the possible CDF values/codes. If a value is reported in a CDF that does not have a mapped value in CIWQS, the submission is rejected.

5.3 EDF

This release of CIWQS will support both formats of EDF version 1.2i (July 2002):

- The relational format (six files: sample, quality control, test, results, narrative, and control limits);
- The flat file format (two files: control limits and flat file);

File Preparation

Prior to submission, the following tools may be used to prepare and validate an EDF submission:

• COELT (U.S. Army Corps of Engineers Loading Tools): A software tool designed for data entry, data export, data verification, and data reporting. Analytical laboratories use this tool to generate EDF deliverables.

• EDCC (Electronic Deliverable Consistency Checker): A software tool designed to verify lab EDF deliverables for compliance to the EDF format.



Although CIWQS performs a specific set of verifications, it does not perform all of the checks found in EDCC. The use of this program by submitters is highly recommended!

Links to these tools can be found on the California SWRCB website.

File considerations

EDF files must be compressed in ZIP format. Tools such as PKZip, WinZip, and Windows XP's compressed folders all use the zip format. By compressing the various files into a single ZIP file, this ensures that the different files that comprise a submission do not become separated.

The ZIP file should contain, depending on the used format:

- EDCC.TXT: An EDCC error report in test format. This file is not used by CIWQS, but will be stored for possible review. *Relational or Flat File*;
- EDFNAR.TXT: Any narrative text. *Relational only*;
- EDFSAMP.TXT: Sample data. *Relational only*;
- EDFTEST.TXT: Test data. *Relational only*;
- EDFRES.TXT: Results data. *Relational only*;
- EDFQC.TXT: Quality Control data. *Relational only*;
- EDFCL.TXT: Control Limits data. *Relational or Flat File*;
- EDFFLAT.TXT: Flat File. *Flat File only*.

Uploaded EDF files should be named in a manner that makes it clear what the file contains (e.g., facility name and report date, lab name) and should end in ".zip". If multiple EDF files are uploaded, each must contain a unique name. EDF files uploaded to CIWQS should *not* be password encrypted.



EDF files must contain no errors to upload successfully. Errors in the EDF files will result in the generation of an error message within CIWQS. In some cases, an error may prevent a downstream error from being discovered.

The following file requirements must be followed in order to have a valid EDF file format recognized by CIWQS:

• An EDF may be submitted as an ASCII fixed length *.TXT file, as a comma separated value (CSV) delimited ASCII *.TXT file (also known as

"comma/quote delimited"), or as a tab separated value delimited ASCII *.TXT file.

- The column heading or field name is not required in an ASCII file. This information is not part of the file and should be omitted. Only authorized codes from the valid value list should be keyed into fields requiring valid values.
- Every record within a file must be unique. If, for each key field, a record's data appears exactly the same in another record, these two records are considered to be duplicate records.



Several files are entered as codes in the EDF format, CIWQS, or both. Any value that is a code in CIWQS will have a cross-map to the possible EDF values/codes. If a value is reported in an EDF that does not have a mapped value in CIWQS, the submission is rejected.

5.4 Troubleshooting Common Errors During File Upload Process

After uploading an EDF or CDF file, a two pass parsing process is started. This process displays a list of errors encountered in case that the uploaded file could not be successfully parsed in the following format.

<File name>, line <line number>: <error description>

For example:

CDF.CSV, line 12: field PARLABEL value 'DRO' is not a valid value.

Please note that the line number is the line number in the generated file that contains no header information. For example, inside the CDF tool, the above-indicated line 12 will be actually found on line 13 because the spreadsheet is displaying an extra line of header on line 1!

The following are the most commonly parsing errors, categorized by the pass number:

Pass 1:

Pass 1 errors are related to the EDF specifications that must be followed for building a valid EDF file.

- Archive content error: Flat File or Relational format not detected: no valid file format (EDF flat file, EDF relational or CDF format) was detected for the uploaded archive;
- Archive content error: <file name> missing: required file from the archive is missing;

- **unknown file format:** no valid file format (fixed length, comma/quote delimited or tab delimited format) was detected for the specified file inside the archive;
- **required <field name> field not present:** a required field is empty or cannot be found;
- **field <field name> contains invalid date '<value>':** the date field contains an invalid date format (only 'YYYYMMDD' date format is accepted);
- **field <field name> contains invalid logic value '<value>':** the boolean field contains an invalid value (only 'T' and 'F' values are accepted);
- **field <field name> contains invalid numeric value '<value>':** the numeric field contains an invalid number;
- **field <field name> contains invalid time '<value>':** the time field contains an invalid value (only 'HHMM' time format is accepted);
- field <field name> value '<value>' exceeds maximum length of <max length>: the value length exceeds the maximum accepted length for the field;
- **field <field name> value '<value>' is not a valid value:** the value of the field can not be found in the valid value list (VVL);
- **Primary key uniqueness violated.** '<value>' already exists as a primary key: the primary key composed from multiple field values was already found in the file (record uniqueness violation);
- Foreign key '<value>' not found in related table '<file name>': the foreign key composed from multiple field values was not found in the related file (EDF relational format only).

Pass 2:

Pass 2 errors are related to the specific CIWQS requirements.

- place match cannot be found for FIELD_PT_NAME = '<value>': monitoring location identifier match can not be found for the specified value;
- multiple place matches found for FIELD_PT_NAME = '<value>'. Please contact waterboard regarding this issue: multiple monitoring locations were found with the same identifier. This error should not appear. Please contact waterboard immediately if you encounter this error;
- field BASIS / PARLABEL combination '
basis value>' / '<parlabel value>' is not a valid combination: the specified combination of fields is not a valid combination.



For CIWQS the EDF field FIELD_PT_NAME is required in order to do a valid match with a monitoring location even if it is not defined as a required field in the EDF specifications.

6 Questions and User Support

You can contact the CIWQS Help Desk at 1-866-79-CIWQS (24977) from 8:00 AM to 5:00 PM Monday through Friday. You can also access additional

information regarding the CIWQS application, CDF files, and EDF files from the CIWQS Web site at <u>http://www.swrcb.ca.gov/ciwqs</u>.

7 CIWQS Data Format Specifications

7.1 Introduction

The CIWQS Data Format (CDF) is a data format for submitting raw sample data to CIWQS. It is intended to complement the Electronic Deliverable Format (EDF), as described in the CIWQS Software Design Specifications.

CDF is a streamlined format, containing only those fields necessary to populate the CIWQS SMR raw data requirements. EDF contains additional fields, which are required for the format, but are not required for CIWQS.

Generation of a CDF file requires the use of an Excel spreadsheet. This spreadsheet allows users to enter sample data and then export a CIWQS compliant CDF file. The CDF file is based on the EDF format: it uses the EDF fields (as described in the CIWQS Software Design Specifications) to carry to the CDF data. *Although a CDF file includes the EDF fields, not all EDF-required fields will be populated.*

7.2 CDF Fields

The following are the CDF fields and a description of how each is mapped to the CIWQS SMR raw data screen. This table also shows how

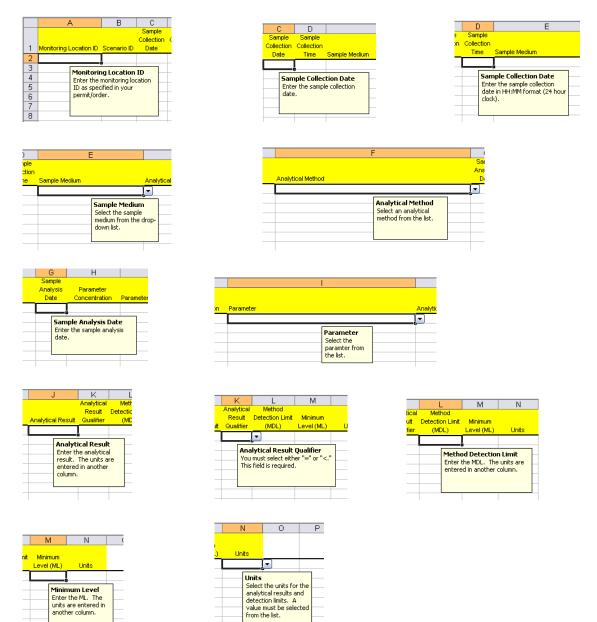
CDF Field	Format/Validation	CIWQS Raw Data	EDF Field
		Field	
Monitoring	Accepts any text string between 1-10	Monitoring Location	LOCID
Location ID	characters		(FIELD_PT_NAME)
Sample	Date; cannot be a future date	Sample Event Date	LOGDATE
Collection Date		-	
Sample	24-hour time value	Sample Event Time	LOGTIME
Collection Time			
Sample Medium	Selection from a list of valid values	Sample Medium	MATRIX
Analytical	Selection from a list of valid values	Analytical Method	ANMCODE
Method			
Sample	Date; cannot be a future date	Sample Analysis	ANADATE
Analysis Date		Date	
Parameter	Selection from a list of valid values		PARLABEL
Analytical	Any numeric value accepted*	Result	PARVAL
Result			
Analytical	Typically set to "=" but "<" can be	*	PARVQ
Result Qualifier	used to indicate that the analytical		
	result is below the MDL*		
Method	Any numeric value accepted*	Method Detection	LABDL
Detection Limit		Limit	
Minimum Level	Any numeric value accepted*	Minimum Level	REPDL
			(REPDLVQ="MRL")

CDF Field	Format/Validation	CIWQS Raw Data Field	EDF Field						
Units	Selection from a list of valid values	Units	UNITS						
The CDE format always sets BVCCODE to "PP."									

The CDF format always sets PVCCODE to "PR."

another column.

* To enter a Non-Detect (ND), the user would enter the MDL into the "Method Detection" Limit" and "Analytical Result" fields and select "<" for the "Analytical Result Qualifier." To enter a Detected, Not Quantified (DNQ) value, the user would enter the MDL into the "Method Detection Limit," the ML into the "Minimum Level," and enter the estimated result in the "Analytical Result" field. The "Analytical Result Qualifier" should be set to "=" in this case.



7.3 General Page

A General page will also be included, which includes the following fields:

	Discharger Name:	
	Facility Name:	دد
NPDE	S Permit No:	Sample Month:
Data	Entered By:	Key: Red Outline = Required Blue Outline = Optional
QA Pe	erformed By:	
	Analytical Lab Contact Info	rmation
Name	Location	Contact & Phone Number
	Additional Notes:	

These fields will be exported to the text file that will "travel" along with the data submission.

```
Generated By: Version 0.1
Date Exported: 4/28/2005
Discharger Name: <Discharger Name>
Facility Name: <Facility Name>
NPDES Number: <NPDES Number>
Sample Month: <Sample Month>
Data Entered By: <Data Entered By>
QA Performed By: <QA Performed By>
Analytical Lab Name: <Name>
Analytical Lab Location: <Location>
Analytical Lab Contact/Phone: <Contact & Phone Number>
Notes: <Additional Notes>
```

7.4 Valid Values Lists

Some of the fields must come from a valid values list. These are based on the EDF VVLs and are included in the spreadsheet.

7.5 Technology

The CDF spreadsheet requires a Microsoft Excel version capable of running VisualBasic for Application (VBA) code: Excel 2000 or later.

The spreadsheet comes with a dynamic link library, zip32-23.dll, which is used to compress and package the submission. This library is produced by Info-Zip and is freely

distributable. See <u>http://www.info-zip.org/license.html</u> for information regarding the licensing of this product.

The zip file will contain a text file with information from the General page (CDFINFO.TXT) and a CSV (comma separated values) containing the data (CDF.CSV).

7.6 CDF.CSV

The columns in CDF.CSV will be consistent with the documented EDF format:

LOCID*	BASIS*
USER ADMIN ID*	PRESCODE
LOGDATE*	SUB
LOGTIME*	REP DATE
LOGCODE*	LAB REPNO
SAMPID	APPRVD
MATRIX*	TLNOTE
PROJNAME	PVCCODE*
NPDLWO	PARLABEL*
CNTSHNUM	PARVAL*
LABSAMPID	PARVQ*
LABCODE	LABDL*
QCCODE	REPDL*
ANMCODE*	REPDLVQ*
MODPARTLIS	PARUN
EXMCODE	UNITS*
LABLOTCTL	RT
EXLABLOT	DILFAC
ANADATE*	CLREVDATE
EXTDATE	SRM
RUN_NUMBER	LABREFID
RECDATE	EXPECTED
COCNUM	RLNOTE

* Used by CDF.

8 Standard Naming Conventions for Conventional and Priority Pollutants

Table 1: Standard Naming Convention for Conventional Pollutants

NPDES Permit Standard Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub-groups	CTR Number ²	Synonyms
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	00310		1	Composite; Grab; 24-hour Composite; 8-hour Composite	-	kg/day; lb/day; mg/L	Group 1 Pollutant			BOD5 @ 20 Deg. C; BOD, 5-day (20 Deg. C)
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C), Percent Removal	81010		Calculate	Calculate	%	%	Group 1 Pollutant			BOD % Removal; BOD, 5-day Percent Removal
Fecal Coliform	74055		Grab	Grab		CFU/100 mL; MPN/100 mL				Coliform, Fecal General
Oil and Grease	03582		Grab	Grab	U	kg/day; lb/day; mg/L	Group 1 Pollutant			
рН	00400		Grab	Grab; Measure		SU				Hydrogen Ion
Total Suspended Solids (TSS)	00530		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L	Group 1 Pollutant			Total Non-Filterable Residue
Total Suspended Solids (TSS), Percent Removal	81011		Calculate	Calculate	%	%	Group 1 Pollutant			TSS % Removal

Table 2: Standard Naming Convention for Priority Pollutants

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms				
	Inorganic Priority Pollutants													
Antimony, Total Recoverable	01268	7440360	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	1	Sb				
Arsenic, Total Recoverable	00978	7440382	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	2	As				
Beryllium, Total Recoverable	00998	7440417	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	3	Ве				
Cadmium, Total Recoverable	01113	7440439	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	4	Cd				
Chromium (III)	01033	7440473	Grab	Grab	ug/L	kg/day; lb/day; ug/L	CTR; Group 2 Pollutant	CTR: Metals	5(a)	Chromium, Trivalent; Cr				
Chromium (VI)	01032	18540299	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	5(b)	Chromium, Hexavalent; Cr				
Copper, Total Recoverable	01119	7440508	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	6	Cu				
Lead, Total Recoverable	01114	7439921	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	7	Рь				
Mercury, Total Recoverable	71901	7439976	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	8	Hg				
Nickel, Total Recoverable	01074	7440020	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	9	Ni				
Selenium, Total Recoverable	00981	7782492	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	10	Se				
Silver, Total Recoverable	01079	7440224	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	11	Ag				

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
The 11:				Composite; Grab;		1/d1h/d	CTD: Crear 2			
Thallium, Total Recoverable	00982	7440280	Composite	24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Metals	12	Tl
Recoverable	00982	7440200	Composite	Composite; Grab;	ug/L	IIIg/L, ug/L	1 Ollutalit	CTR. Metals	12	11
				24-hour Composite;		kg/day; lb/day;	CTR; Group 2			
Zinc, Total Recoverable	01094	7440666	Composite	8-hour Composite	ug/L	mg/L; ug/L	Pollutant	CTR: Metals	13	Zn
	01074	7440000	composite	Composite; Grab;	ug/L	IIIg/ L, ug/ L	1 onutant	CTR. Metals	15	
				24-hour Composite;		kg/day; lb/day;	CTR; Group 2			
Cyanide, Total (as CN)	00720	57125	Composite	8-hour Composite		mg/L; ug/L	Pollutant	CTR: Other	14	
oyunide, rotur (us ort)	00720	07120	composite	Composite; Grab;						
				24-hour Composite;	Counts	Counts/L:	CTR; Group 2			
Asbestos	00948	1332214	Composite	8-hour Composite		Fibers/L	Pollutant	CTR: Other	15	
			1		0	rganic Priority Po	llutonte			
2,3,7,8-TCDD (Dioxin)	34675	1746016	Composite	Composite; Grab;		kg/day; lb/day;	CTR; Group 2	CTR: Other	16	2,3,7,8-tetraCDD; 2,3,7,8-tetrachloro-
2,3,7,8-1CDD (DIOXIII)	54075	1/40010	Composite	24-hour Composite;	pg/L	mg/L; ng/L; pg/L;		CTK. Other	10	dibenzo-p-dioxin
				8-hour Composite		ug/L, ng/L, pg/L,	Congener			dibenzo-p-dioxin
Acrolein	34210	107028	Grab	Grab		kg/day; lb/day;	CTR: Group 2	CTR: Volatile	17	2-Propenal; Acraldehyde;
reioiem	54210	107020	Giub	Giub		mg/L; ug/L	Pollutant	Organics	17	Acrylaldehyde; Acrylic aldehyde
Acrylonitrile	34215	107131	Grab	Grab		kg/day; lb/day;	CTR; Group 2	CTR: Volatile	18	2-Propenenitrile; Cyanoethylene;
reryiomune	51215	10/101	Giub	Giub	ug/ E	mg/L; ug/L	Pollutant	Organics	10	Fumigrain; Ventox; Vinyl cyanide
Benzene	34030	71432	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	19	Benzol; Cyclohexatriene
	0.000	/1.02	Grub	01u0	ug/ 2	mg/L; ug/L	Pollutant	Organics	.,	
Bromoform	32104	75252	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	20	Tribromomethane
						mg/L; ug/L	Pollutant	Organics		
Carbon Tetrachloride	32102	56235	Grab	Grab		kg/day; lb/day;	CTR; Group 2	CTR: Volatile	21	Perchloromethane:
					8	mg/L; ug/L	Pollutant	Organics		Tetrachloromethane
Chlorobenzene	34301	108907	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	22	benzene chloride:
					U	mg/L; ug/L	Pollutant	Organics		monochlorobenzene; Phenyl Chloride
Chlorodibromomethane	32105	124481	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	23	Dibromochloromethane
						mg/L; ug/L	Pollutant	Organics		
Chloroethane	85811	75003	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	24	ethyl chloride
						mg/L; ug/L	Pollutant	Organics		
2-chloroethylvinyl ether	34576	110758	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	25	2-Chloroethoxyethene; 2-chloroethyl
(mixed)					-	mg/L; ug/L	Pollutant	Organics		vinyl ether; 2-CLEVE
Chloroform	32106	67663	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	26	methane trichloride; methyl
					-	mg/L; ug/L	Pollutant	Organics		trichloride; Trichloromethane
Dichlorobromomethane	32101	75274	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	27	Bromodichloromethane
						mg/L; ug/L	Pollutant	Organics		
1,1-dichloroethane	34496	75343	Grab	Grab	ug/L	kg/day; lb/day;	CTR; Group 2	CTR: Volatile	28	1,1-DCA; Ethylidene Chloride;
						mg/L; ug/L	Pollutant	Organics		ethylidene dichloride

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
1,2-dichloroethane	32103	107062	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	29	1,2-DCA
1,1-dichloroethylene	34501	75354	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	30	1,1-DCE; 1,1-dichloroethene; Vinylidene Chloride
1,2-dichloropropane	34541	78875	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	31	Propylene Dichloride
1,3-dichloropropylene	77163	542756	Grab	Grab	υ	kg/day; lb/day; mg/L; ug/L	CTR	CTR: Volatile Organics	32	1,3-dichloropropene
Ethylbenzene	34371	100414	Grab	Grab	υ	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	33	ethylbenzol; phenylethane
Methyl Bromide		74839	Grab	Grab)	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	34	Bromomethane
Methyl Chloride	34418	74873	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	35	Chloromethane; Monochloromethane
Methylene Chloride	34423	75092	Grab	Grab	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	36	dichloromethane
1,1,2,2-tetrachloroethane	34516	79345	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	37	1,1,2,2-PCA; acetylene tetrachloride; sym-tetrachloroethane
Tetrachloroethylene	34475	127184	Grab	Grab	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	38	PCE; Perchloroethene; Perchloroethylene; Tetrachloroethene
Toluene	34010	108883	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	39	Methacide; Methylbenzene; Phenylmethane
1,2-trans- dichloroethylene	34546	156605	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	40	trans-1,2-DCE; trans-1,2- Dichloroethene; trans-1,2- dichloroethylene
1,1,1-trichloroethane	34506	71556	Grab	Grab	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	41	1,1,1-tce; methyl chloroform
1,1,2-trichloroethane	34511	79005	Grab	Grab	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	42	1,1,2-TCE; beta-trichloroethane; beta- trichlorothane; Vinyl trichloride
Trichloroethylene	39180	79016	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	43	Ethylene trichloride; TCE; Trichloroethene
Vinyl Chloride	39175	75014	Grab	Grab		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Volatile Organics	44	chloroethene; Chloroethylene
2-chlorophenol		95578	1	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	45	
2,4-dichlorophenol	34601	120832	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	46	

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
2,4-dimethylphenol	34606	105679	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; pg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	47	2,4-DMP; 2,4-Xylenol
2-methyl-4,6- dinitrophenol		534521	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	48	4,6-dinitro-2-methylphenol; 4,6- dinitro-o-cresol; DNOC
2,4-dinitrophenol	34616	51285	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	U	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	49	
2-nitrophenol	34591	88755	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	50	o-nitrophenol
4-nitrophenol	34646	100027	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	51	p-nitrophenol
3-methyl-4-chlorophenol	70012	59507	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	52	4-chloro-3-methylphenol; Parachlorometa Cresol; p-chloro-m- cresol
Pentachlorophenol	39032	87865	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	53	РСР
Phenol, Single Compound	34694	108952	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	54	carbolic acid; Phenyl alcohol
2,4,6-trichlorophenol	34621	88062	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Acid Extractables	55	Dowcide 2S; Dowicide 2S; phenachlor; TCP
Acenaphthene	34205	83329	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	56	1,2-dihydroacenapthylene
Acenaphthylene	34200	208968	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	57	acenaphthalene
Anthracene	34220	120127	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	58	anthracen; paranaphthalene
Benzidine	39120	92875	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	59	

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Benzo(a)anthracene	34526	56553	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	60	1, 2-Benzoanthracene; 1,2- benzanthracene
Benzo(a)pyrene	34247	50328	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	61	3, 4-Benzopyrene
Benzo(b)fluoranthene	34230	205992	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	62	3,4 Benzofluoranthene; Benzo(b)fluoranthene (3,4-benzo)
Benzo(ghi)perylene	34521	191242	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	63	1,12-benzoperylene
Benzo(k)fluoranthene	34242	207089	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	64	11,12-Benzofluoranthene
Bis (2-Chloroethoxy) Methane	34278	111911	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	65	
Bis (2-Chloroethyl) Ether	34273	111444	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	66	
Bis (2-Chloroisopropyl) Ether	34283	108601	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	67	
Bis (2-Ethylhexyl) Phthalate	39100	117817	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	68	Di (2-ethylhexyl) Phthalate; Diethylhexylphthalate (DEHP)
4-bromophenyl phenyl ether	34636	101553	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	69	1-Bromo-4-phenoxybenzene; 1- bromo-4-phenoxy-benzene; 4- bromophenyl ether; p-bromodipohenyl ether
Butylbenzyl Phthalate	34292	85687	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	70	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester; N-Butyl Benzyl Phathalate
2-chloronaphthalene	34581	91587	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	71	o-chloronaphthalene
4-chlorophenyl phenyl ether	34641	7005723	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	72	1-Chloro-4-phenoxybenzene; 4- chlorophenyl; Benzene, 1-chloro-4- phenoxy

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Chrysene	34320	218019	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	73	1,2-Benzphenanthrene
Dibenzo(a,h)anthracene	34556	53703	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	74	1,2,5,6-Dibenzanthracene; dibenz(a,h)anthracene
1,2-dichlorobenzene	34536	95501	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	-	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	75	o-dichlorobenzene
1,3-dichlorobenzene	34566	541731	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	_	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	76	m-dichlorobenzene
1,4-dichlorobenzene	34571	106467	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	77	p-dichlorobenzene
3,3-dichlorobenzidine	34631	91941	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	78	3,3'-dichloro-1,1'-Biphenyl-4,4'- diamine
Diethyl Phthalate	34336	84662	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	79	
Dimethyl Phthalate	34341	131113	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	80	
Di-n-butyl Phthalate	39110	84742	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	81	Dibutyl Phthalate
2,4-dinitrotoluene	34611	121142	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	82	1-Methyl-2,4-Dinitrobenzene; 2,4- DNT
2,6-dinitrotoluene	34626	606202	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	83	2,6-DNT; 2-methyl-1,3-dinitroenzene
Di-n-octyl Phthalate	34596	117840	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	84	
1,2-diphenylhydrazine	34346	122667	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	85	

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Fluoranthene	34376	206440	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	86	
Fluorene		86737	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	87	
Hexachlorobenzene	39700	118741	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	88	НСВ
Hexachlorobutadiene	34391	87683	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	89	1,1,2,3,4,4-hexachloro-1,3-Butadiene
Hexachlorocyclopentadie ne		77474	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	U	8 , 8	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	90	1,2,3,4,5,5-hexachloro-1,3- Cyclopentadiene; HCP; Perchlorocyclopentadiene
Hexachloroethane	34396	67721	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	91	perchloroethane
Indeno (1,2,3-cd) Pyrene	34403	193395	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	92	1,10-(1,2-Phenylene)pyrene
Isophorone	34408	78591	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	93	3,5,5-Trimethyl-2-cyclohexenone; isoacetophorone
Naphthalene	34696	91203	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	94	white tar
Nitrobenzene	34447	98953	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	95	oil of mirbane
N-Nitrosodimethylamine	34438	62759	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	96	N-Dinitrosodimethylamine; NDMA
N-Nitrosodi-n- propylamine	34428	621647	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	97	N-nitrosodi-m- Propylamine
N-Nitrosodiphenylamine	34433	86306	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	98	N-nitrosodiphenylamine

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Phenanthrene	34461	85018	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	99	
Pyrene	34469	129000	1	Composite; Grab; 24-hour Composite; 8-hour Composite	C	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	100	
1,2,4-trichlorobenzene	34551	120821	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Base/Neutral Extractables	101	
Aldrin	39330	309002	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	102	HHDN; Octalene
alpha-BHC	39336	319846	1	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	103	alpha-HCH; hexachlorocyclohexane- alpha
beta-BHC	39338	319857	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	104	beta-HCH; hexachlorocyclohexane- beta
gamma-BHC	39344	58899	1	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	105	gamma-HCH; hexachlorocyclohexane-gamma; lindane
delta-BHC	34198	319868	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	106	hexachlorocyclohexane-delta
Chlordane	39350	57749	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	107	Compound K (FDA); Toxichlor
4,4-DDT	39300	50293	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	108	1,1'-(2,2,2-trichloroethylidene)bis[4- chlorobenzene]; 4,4'-DDT; Dichlorodiphenyltrichloroethane; p,p'- DDT; p,p-DDT
4,4-DDE	39320	72559	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	109	1,1'-(dichloroethenylidene)bis[4- chlorobenzene]; 4,4'-DDE; p,p'-DDE; p,p-DDE
4,4-DDD	39310	72548	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	110	1,1'-(2,2-dichloroethylidene)bis[4- chlorobenzene]; 4,4'-DDD; Dichlorodiphenyldichloroethane; p,p'- DDD; p,p-DDD; TDE; Tetrachlorodiphenylethane

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Dieldrin	39380	60571	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	C	kg/day; lb/day; mg/L; ng/L; pg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	111	Alvit
alpha-Endosulfan	34361	959988	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	112	a-Endosulfan; Endosulfan I
beta-Endosulfan	34356	33213659	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	113	b-Endosulfan; Endosulfan II; Thiodan II
Endosulfan Sulfate	34351	1031078	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	114	6,9-Methano-2,3,4-benzodioxathiepin, 6,7
Endrin	39390	72208	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	-	8,8,8	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	115	Compound 269; Mendrin
Endrin Aldehyde	34366	7421934	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	116	
Heptachlor	39410	76448	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs		1,4,5,6,7,8,8-heptachloro-3a,4,7,7a- tetrahydro-4,7-Methano-1H-indene; Drinox; Heptagran; Velsicol-104
Heptachlor Epoxide	39420	1024573	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	118	
PCB-1016	34671	12674112	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	119	Arochlor 1016
PCB-1221	39488	11104282	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	120	Arochlor 1221
PCB-1232	39492	11141165	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	121	Arochlor 1232
PCB-1242	39496	53469219	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	122	Arochlor 1242
PCB-1248	39500	12672296	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ng/L; ug/L	CTR; Group 2 Pollutant	CTR: Pesticides & PCBs	123	Arochlor 1248

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
PCB-1254	39504	11097691		Composite; Grab; 24-hour Composite; 8-hour Composite	0	0 1	· , · · · · · · · · · · · · · · · · · ·	CTR: Pesticides & PCBs	124	Arochlor 1254
PCB-1260	39508	11096825		Composite; Grab; 24-hour Composite; 8-hour Composite			· , · · · · · · · · · · · · · · · · · ·	CTR: Pesticides & PCBs	125	Arochlor 1260
Toxaphene	39400	8001352		Composite; Grab; 24-hour Composite; 8-hour Composite	-	0	· , · · · · · · · · · · · · · · · · · ·	CTR: Pesticides & PCBs	126	Chlorinated Camphene

Table 3: Standard Naming Convention for Non-Conventional Pollutants

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Acetone	81552	67641	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
Acute Toxicity	TA000		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	TUa	% survival; TUa; % effluent; Pass/Fail (Pass = 0, Fail = 1)				Acute Whole Effluent Toxicity; Acute WET
Adsorbable Organic Halides	79855		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				AOX
Alachlor	77825	15972608	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Alkalinity, Bicarbonate (as CaCO3)	00425		Grab	Grab		kg/day; lb/day; mg/L	Group 1 Pollutant			
Alkalinity, Carbonate (as CaCO3)	00430		Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Alkalinity, Total (as CaCO3)	00410		Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Alpha, Gross Particle Activity	80045			Composite; Grab; 24-hour Composite; 8-hour Composite	PCi/L	PCi/L				Radioactivity
Aluminum, Acid Soluble	85824	7429905	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 1 Pollutant			Al
Aluminum, Dissolved	01106	7429905	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Al
Aluminum, Total	01105	7429905	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 1 Pollutant			Al
Aluminum, Total Recoverable	01104	7429905	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Al
Aminocarb	38404			Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L				Metacil

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Ammonia Nitrogen, Total				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				
(as N)	00610	7777379	Composite	8-hour Composite	mg/L	mg/L; ug/L	Group 1 Pollutant			NH4 + NH3
(4311)	00010	1121317	composite	Composite; Grab;	iiig/L	111 <u>6</u> /12, u <u>c</u> /12	Gloup I I ollutant			
Ammonia Nitrogen,				24-hour Composite;						
Unionized (as N)	00612	7727379	Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			NH3; Un-ionized ammonia
				Composite; Grab;						
				24-hour Composite;	_	kg/day; lb/day;				
Antimony, Dissolved	01095	7440360	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Sb
				Composite; Grab;		1 / 1 11 / 1				
Antimony Total	01097	7440260	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Sb
Antimony, Total	01097	7440500	Composite	Composite; Grab;	ug/L	IIIg/L; ug/L	Group 2 Ponutant			50
				24-hour Composite;		kg/day; lb/day;				
Arsenic, Dissolved	01000	7440382	Composite	8-hour Composite		mg/L; ug/L	Group 2 Pollutant			As
,			1	Composite; Grab;	U	0 1 0	1			
				24-hour Composite;		kg/day; lb/day;				
Arsenic, Total	01002	7440382	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			As
				Composite; Grab;						
			~ .	24-hour Composite;	~					
Aspon	51384	3244904	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				thiodiphosphoric acid, tetrapropyl ester
				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				2-Chloro-4-(ethylamino)-6-
Atrazine	39033	10122/0	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			(isopropylamino)-s-triazine
Audzine	37033	1/1224/	composite	Composite; Grab;	ug/L	IIIg/L, ug/L	Group 2 Fondiant			(isopropyianino)-s-utazine
				24-hour Composite;						
Azinphos-ethyl	81292	2642719	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				ethyl guthion; triazothion
· · ·				Composite; Grab;						Guthion; Bay17147; Bay9027;
				24-hour Composite;		kg/day; lb/day;				carfene; cotion-methyl; gusathion;
Azinphos-methyl	39580	86500	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			imidan; metiltriazotion
				Composite; Grab;						
D 1	20410	101070	a	24-hour Composite;	/T	kg/day; lb/day;				1 1 / 11 4 /
Barban	38418	1012/9	Composite	8-hour Composite	ug/L	mg/L; ug/L				barbanate; chlorinate
				Composite; Grab; 24-hour Composite;						
Barium, Dissolved	01005	7440393	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Ва
			rre	Composite; Grab;	8	<i>g</i> ,,,, ,, ,, ,, ,, ,, ,, ,,, ,,,				
				24-hour Composite;		kg/day; lb/day;				
Barium, Total	01007	7440393	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ba
	7			Composite; Grab;						
Barium, Total				24-hour Composite;	_	kg/day; lb/day;				
Recoverable	01009	7440393	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ba

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Bentazon, Total	29710	25057800	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			bendioxide
Bentazon, Totai	38/10	23037890	Composite	Composite; Grab;	ug/L	IIIg/L, ug/L	Gloup 2 Follutant			bendioxide
				24-hour Composite;						
Benzoic Acid	77247	65850	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				Carboxybenzene
				Composite; Grab;						
				24-hour Composite;		kg/day; lb/day;				
Beryllium, Dissolved	01010	7440417	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Be
				Composite; Grab;		1/111-/1				
Beryllium, Total	01012	7440417	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Ве
Derymum, Totai	01012	/44041/	Composite	Composite; Grab;	ug/L	IIIg/L, ug/L	Gloup 2 I ollutant			be
Bicarbonate Ion (as				24-hour Composite;		kg/day; lb/day;				
HCO3)	00440	71523	Composite	8-hour Composite	mg/L	mg/L; ug/L	Group 1 Pollutant			
				Composite; Grab;			•			
				24-hour Composite;						
Bolstar	38715	35400432	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				sulprofos
				Composite; Grab;						
Dama Director I	01020	7440429	Comment	24-hour Composite;	ue/I	kg/day; lb/day; mg/L; ug/L	Crown 1 Dollutont			В
Boron, Dissolved	01020	/440428	Composite	8-hour Composite Composite; Grab;	ug/L	IIIg/L; ug/L	Group 1 Pollutant			Б
				24-hour Composite;		kg/day; lb/day;				
Boron, Total	01022	7440428	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			В
,			1	Composite; Grab;		8,78				
				24-hour Composite;		kg/day; lb/day;				
Boron, Total Recoverable	00999	7440428	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			В
				Composite; Grab;						
D 'I	51126	1 (000 45	a	24-hour Composite;	/T	1 / 1 11 / 1 /7				
Bromoxynil	51136	1689845	Composite	8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L				3,5-Dibromo-4-hydroxybenzonitrile
				24-hour Composite;		kg/day; lb/day;				
Cadmium, Dissolved	01025	7440439	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cd
Cadmium, Percent	01020	/ 110105	composite	o nour composite	ug/2					
Removal	51403	7440439	Calculate	Calculate	%	%				Cd
				Composite; Grab;						
				24-hour Composite;		kg/day; lb/day;				
Cadmium, Total	01027	7440439	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cd
				Composite; Grab;		1/111-/1				
Calcium, Dissolved	00915	7440702	Composite	24-hour Composite; 8-hour Composite	mg/I	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Ca
Laicium, Dissolved	00915	/440/02	Composite	8-nour Composite	mg/L	mg/L; ug/L	Group 1 Pollutant			Ca

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Calcium, Total	00916	7440702	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Ca
	00910	7440702	Composite	Composite; Grab;	mg/L	IIIg/L, ug/L	Group I Fonutant			Ca
Calcium, Total Recoverable	00918	7440702	Composite	24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Ca
Carbaryl	77700	63252	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Sevin
Carbofuran	81405			Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			
Carbon, Total Organic	00680	7440440	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			TOC
Carbonaceous Biochemical Oxygen Demand (CBOD) (5-day @ 20 Deg. C)	80082	,	1	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L				BOD, nitrogen inhibited; Carbonaceous BOD; CBOD, 5-day (20 Deg. C)
Carbonaceous Biochemical Oxygen Demand (CBOD) (5-day @ 20 Deg. C), Percent Removal	80091		Calculate	Calculate	%	%	Group 1 Pollutant			CBOD % Removal; CBOD, 5-day Percent Removal
Carbonate Ion (as CO3)	00445	3812326	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Carbophenothion	51042	786196	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				acarithion; garrathion; heXathion; nethocarp; trithion
Chemical Oxygen Demand (COD)	81017		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Chlorfenvinphos	04083	470906		Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Chloride	00940	16887006	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Chlorine Dose	50058		Measure	Measure	mg/L	kg/day; lb/day; mg/L	Group 2 Pollutant			Cl

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Chlorine Usage	81400		Calculate	Calculate	lb/day	kg/day; lb/day	Group 2 Pollutant			Cl
Chlorine, Free Available	50064		Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 2 Pollutant			Cl
Chlorine, Total Residual	50060	7782505	Grab	Grab; Measure	mg/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Cl
										BCME; Bis 2 chloromethyl ether; chloromethyl ether; dichloromethyl ether; oxybis (chloromethane); sim-
Bis (chloromethyl) Ether	34268	542881	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			dichloromethyl ether
Chlorophyll a	32230	479618	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				Algal biomass
Chlorpropham	81322	101213	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				allicide
Chlorpyrifos	81403	2921882	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
Chlorpyrifos Methyl	38740	5598130	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Chromium (III) Dissolved	80357	7440473	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L				Cr; Chromium III; Chromium, Trivalent Dissolved
Chromium (III) Total	0.42.62	5440450	G 1		a	kg/day; lb/day;				Chromium, Trivalent Total
Recoverable	04262	7440473	Grab	Grab Composite; Grab; 24-hour Composite;	ug/L	mg/L; ug/L kg/day; lb/day;				Recoverable; Cr
Chromium (Total)	01034	7440473	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cr
Chromium (VI) Dissolved	01220	18540299	, î	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Cr: Chromium. Hexavalent Dissolved
Chromium (VI) Total Recoverable	78247	18540299		Grab		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Chromium, Hexavalent Total Recoverable; Cr
				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				
Chromium, Dissolved	01030	7440473	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cr
Chromium, Total Recoverable	01118	7440473	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Cr
Chronic Toxicity	TC000		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	TUc	% survival; TUc; % effluent; Pass/Fail (Pass = 0, Fail = 1)				Chronic Whole Effluent Toxicity; Chronic WET

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab; 24-hour Composite;		1 / 1 11 / 1				
Cobalt, Total	01037	7440484		8-hour Composite;	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Со
				Composite; Grab;		6, , , , 6	- · · r · · · · · ·			
Cobalt, Total				24-hour Composite;	_		~			-
Recoverable	00979	7440484	Composite	8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Со
				24-hour Composite;		kg/day; lb/day;				
Cobolt, Dissolved	01035	7440484		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Со
				Composite; Grab;						
~ ~				24-hour Composite;	_	kg/day; lb/day;	~			-
Copper, Dissolved	01040	7440508	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cu
Copper, Percent Removal	51402	7440508	Calculate	Calculate	%	%				Cu
copper, rereent reento ; ur	01102	11.0000		Composite; Grab;	/0	,,,				
				24-hour Composite;		kg/day; lb/day;				
Copper, Total	01042	7440508	1	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Cu
				Composite; Grab;						
Coumaphos	81293	56724		24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Co-Ral
Countaprios	01293	30724		Composite; Grab;	ug/L	Kg/day, 10/day, ug/L	Group 2 Fonutant			Co-Kai
				24-hour Composite;						
Crotoxyphos	82565	7700176		8-hour Composite	ug/L	kg/day; lb/day; ug/L				
				24-hour Composite;						
Countilly Energy Associately	51172	57105		8-hour Composite;	··· - /T	mg/L; ug/L; lb/day;				
Cyanide, Free Available	51173	5/125		Composite; Grab Composite; Grab;	mg/L	kg/day				CN
Cyanide, Total				24-hour Composite;		kg/day; lb/day;				
Recoverable	78248	57125		8-hour Composite	mg/L	mg/L; ug/L	Group 2 Pollutant			CN
				Composite; Grab;						
24.5	20720	0 4 7 5 7		24-hour Composite;	(T	kg/day; lb/day;	C AD II			
2,4-D	39730	94757		8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			2,4-D; 2,4-dichlorophenoxyacetic acid
				Composite; Grab; 24-hour Composite;						
Dalapon	38432	75990		8-hour Composite	ug/L	kg/day; lb/day; ug/L				2,2-Dichloropropionic Acid
· ·				Composite; Grab;	<u> </u>					
				24-hour Composite;	_					
2,4-DB	38745	94826	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			2,4-dichlorophenoxybutyric acid
DDT/DDD/DDE. Sum of				Composite; Grab; 24-hour Composite;		ka/day lb/day ra/				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	39379				ug/L		Group 2 Pollutant			
P,P & O,P Isomers	39379			8-hour Composite;	ug/L	kg/day; lb/day; ng/L; ug/L	Group 2 Pollutant			

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Demeton	39560	8065483	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			demeton-o; demeton-s
Diazinon	39570	333415	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			
1,2-dibromo-3- chloropropane	49146	96128	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				DBCP
Dibromodichloromethane	77779	594183	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			dichlorodibromomethane
1,2 Dibromoethane	77651	106934	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Ethylene Dibromide; EDB
Dicamba	82052	1918009	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				Banvel
Dichlorobenzene				Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Dichlorobenzenes
Dichlorodifluoromethane	34668	75718	_	Grab		kg/day; lb/day; ug/L	Group 2 Pollutant			Difluorodichloromethane; freon 12; Halon 122
1,2-Dichloroethylene	38676	540590	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	-			1,2-Dichloroethylene (cis & trans); 1,2-Dichloroethylene (mixed isomers); 1,2-Dichloroethene
cis-1,2-dichloroethylene	77093	156592	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L				cis-1,2-DCE; cis-1,2-dichloroethene; 1,2-cis-dichloroethene
Dichlorofenthion	38770	97176	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
2.6-dichlorophenol	77541	87650	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Dichloroprop	30190	120365	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				2,4-dichlorophenoxypropionic acid; 2,4-dp
1,3 dichloropropane	77173	142289	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
cis-1,3-dichloropropylene	34704	10061015	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Cis-1,3-dichloropropene
trans-1,3- dichloropropylene	34699	10061026	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			trans-1,3-dichloropropene

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Dichlorvos	30218	62737	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				DDVP
Dicition vos	30218	02737	Composite	Composite; Grab;	ug/L	Kg/day, 10/day, ug/L				
				24-hour Composite;						
Dicrotophos	04310	141662	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
				Composite; Grab; 24-hour Composite;						
Dimethoate	46314	60515	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
				Composite; Grab;						
				24-hour Composite;						
Dinoseb	30191	88857	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			1 4 Diserse laboration 1 4 diserse
				Composite; Grab; 24-hour Composite;						1,4-Dioxacyclohexane; 1,4-dioxane; diethlylene dioxide; diethlylene ether;
Dioxane	81582	123911	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			glycol ethylene ether; p-dioxane
				Composite; Grab;						
Dioxathion Organic	51140	702.42		24-hour Composite;	æ	1 / 1 11 / 1 /7				
Pesticide	51143	/8342	Composite	8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L				Delnav; dioxane phosphate; Navadel
				24-hour Composite;						
Diquat	04443	2764729		8-hour Composite	ug/L	kg/day; lb/day; ug/L				deiquat; reglone
						kg/day; lb/day;				
Dissolved Oxygen	00300	7782447	Grab	Grab; Measure	mg/L	mg/L; ug/L		-		DO
Dissolved Oxygen, saturation	00301	7782447	Grah	Grab	%	%				DO; Oxygen, Dissolved Percent Saturation
saturation	00501	1102441	0140	Composite; Grab;	70	70				Saturation
				24-hour Composite;		kg/day; lb/day;				
Disulfoton	81888	298044	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			
				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				
Diuron	39650	330541		8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			dichlorfenidim
				Composite; Grab;		8,,8,				
				24-hour Composite;						
Dyfonate	39013	944229	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			dyphonate; fonophos
E.coli	51040		Grab	Grab	MPN/ 100 mL	CFU/100 mL; MPN/100 mL				Escherichia coli
2.001	510-+0		Giab	Composite; Grab;	TOUTIL	100 mL				
				24-hour Composite;						
Electrical Conductivity @	0000-			8-hour Composite;	umhos/					Specific Conductance; Specific
25 Deg. C	00095		Composite	Measure	cm	umhos/cm				Conductivity

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Endosulfan, Total	39388	115207	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			thiodan
Endosunan, Totai	39388			Composite; Grab; 24-hour Composite;			Group 2 Ponutant			Endothall Salts and Esters; endothal- diammonium salt 17439940; endothal- dipotassium 2164070; endothal-
Endothal	38926	145733	Composite	8-hour Composite	0	kg/day; lb/day; ug/L CFU/100 mL;				disodium 129679
Enterococci	61211		Grab	Grab		MPN/100 mL				
EPN	81290	2104645	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L				Ethyl O-(p-nitrophenyl) phenylphosphonothionate
Ethion	39398	563122	Composite	24-hour Composite; 8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Bladan; Nialate; Phosphorodithioic acid, S,S'-methylene O,O,O',O'- tetraethyl ester
Ethoprop	81758	13194484	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Fenitrothion	51383	122145	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Fensulfothion	30004	115902	Composite		ug/L	kg/day; lb/day; ug/L				
Fenthion	30006	55389	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Fenuron	38467	101428	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				1,1-dimethyl-3-phenylurea; fenidin; fenuron TCA; fenuron trichloroacetate (4482-55-7) salt; N,N-dimethyl-N'- phenylurea
Flow	50050		Measure	Estimate: Measure	MGD	GPD; MGD				discharge
Fluometuron	38810	2164172	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L				1,1-dimethyl-3-(a,a,a-trifluoro-m- tolyl)urea; N,N-dimethyl-N'-[3- (trifluoromethyl)phenyl]urea
Fluoride, Total	00951	16984488	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			F
Glyphosate, Total	79743	1071836	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Halomethanes, Sum	78456		Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			
Hardness, Total (as CaCO3)	00900	471341	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
1,2,3,4,6,7,8-hepta chlorodibenzofuran	30356	67562394	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,4,6,7,8-heptaCDF
1,2,3,4,7,8,9-hepta chlorodibenzofuran	30357	55673897	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,4,7,8,9-heptaCDF
1,2,3,4,6,7,8- heptachlorodibenzo-p- dioxin	30358	35822469	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,4,6,7,8-heptaCDD
Hexachlorocyclohexane, Total	77835		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ng/L; ug/L	Group 2 Pollutant			Benzene Hexachloride [BHC] [HCH]; BHC, Total; HCH, Total
1,2,3,4,7,8- hexachlorodibenzofuran	30352	70648269	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,4,7,8-hexaCDF
1,2,3,6,7,8- hexachlorodibenzofuran	30353	57117449	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,6,7,8-hexaCDF
1,2,3,7,8,9- hexachlorodibenzofuran	30354	72918219	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,7,8,9-hexaCDF
2,3,4,6,7,8- hexachlorodibenzofuran	30355	60851345	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			2,3,4,6,7,8-hexaCDF
1,2,3,4,7,8- hexachlorodibenzo-p- dioxin	30345	39227286	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,4,7,8-hexaCDD
1,2,3,6,7,8- hexachlorodibenzo-p- dioxin	30346	57653857	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,6,7,8-hexaCDD
1,2,3,7,8,9- hexachlorodibenzo-p- dioxin	30347	19408743		Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,7,8,9-hexaCDD
Hydrocarbons, Petroleum	82180		Grab	Grab	mg/L	kg/day; lb/day; mg/L; ug/L				TPH

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Inorganic Nitrogen, Total	00640	7727270		24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Ν
morganic Mirogen, Totai	00040	1121319		Composite; Grab;	IIIg/L	kg/uay, 10/uay, 11g/L	Gloup I Follutalit			1
				24-hour Composite;		kg/day; lb/day;				
Iron, Dissolved	01046	7439896		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Fe
				Composite; Grab;			•			
				24-hour Composite;		kg/day; lb/day;				
Iron, Total	01045	7439896		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Fe
				Composite; Grab;						
I	00000	7420906		24-hour Composite;	/T	kg/day; lb/day;				F-
Iron, Total Recoverable	00980	/439890		8-hour Composite Composite; Grab;	ug/L	mg/L; ug/L				Fe
				24-hour Composite;		kg/day; lb/day;				
Lead. Dissolved	01049	7439921		8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Pb
	0.00.0		-	Composite; Grab;		8,,8,				
				24-hour Composite;		kg/day; lb/day;				
Lead, Total	01051	7439921	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Pb
				Composite; Grab;						
_				24-hour Composite;	_					abar; fosvel; leptofos; lepton;
Leptophos	51382	21609905	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				leptophos octon; phosvel
I :				Composite; Grab;		1/111-/1				
Linuron, Total Recoverable	82666	330552		24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				
Recoverable	82000	330332		Composite; Grab;	ug/L	IIIg/L, ug/L				
				24-hour Composite;		kg/day; lb/day;				
Lithium, Total	01132	7439932		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Li
				Composite; Grab;			•			
				24-hour Composite;		kg/day; lb/day;				
Magnesium, Dissolved	00925	7439954		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Mg
				Composite; Grab;						
M . T . 1	00007	7420054		24-hour Composite;	/T	kg/day; lb/day;				14
Magnesium, Total	00927	/439954		8-hour Composite Composite; Grab;	ug/L	mg/L; ug/L	Group 1 Pollutant			Mg
Magnesium, Total				24-hour Composite;		kg/day; lb/day;				
Recoverable	00921	7439954		8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Mg
			1	Composite; Grab;	8		- or			6
				24-hour Composite;		kg/day; lb/day;				
Malathion	39530	121755	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			carbophos; mercaptothion
				Composite; Grab;						
				24-hour Composite;	_	kg/day; lb/day;				
Manganese, Dissolved	01056	7439965	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Mn

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;		1 / 1 11 / 1				
Manganese, Total	01055	7420065	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Mn
Waligaliese, Total	01055	7439903	Composite	Composite; Grab;	ug/L	IIIg/L, ug/L				
Manganese, Total				24-hour Composite;		kg/day; lb/day;				
Recoverable	11123	7439965	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Mn
				Composite; Grab;						
				24-hour Composite;						
MCPA	30192	94746	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
				Composite; Grab;						
MCPP	30193	02652	Composite	24-hour Composite; 8-hour Composite	ue/I	lea/dary lb/dary ya/I				
MCFF	30195	93032	Composite	Composite; Grab;	ug/L	kg/day; lb/day; ug/L				
				24-hour Composite;		kg/day; lb/day;				
Mercury, Dissolved	71890	7439976	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Hg
			1	Composite; Grab;		8,78	- · · · · · · · · ·			6
				24-hour Composite;		kg/day; lb/day;				
Mercury, Total	71900	7439976	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Hg
				Composite; Grab;						
			~ .	24-hour Composite;	-	kg/day; lb/day;				
Merphos	30009	150505	Composite	8-hour Composite	ug/L	mg/L; ug/L				tributylphosphorotrithioite
				Composite; Grab; 24-hour Composite;		1/111-/1				
Methiocarb	38500	23032657	Composite	8-hour Composite;	ug/L	kg/day; lb/day; mg/L; ug/L				
Wietinocaro	30300	23032037	composite	Composite; Grab;	ug/L	IIIg/L, ug/L				
				24-hour Composite;		kg/day; lb/day;				
Methomyl	39051	16752775	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			
			· ·	Composite; Grab;			^			
				24-hour Composite;		kg/day; lb/day;				
Methoxychlor	39480	72435	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			
				Composite; Grab;						
	20,000	200000	a	24-hour Composite;	/T	kg/day; lb/day;				
Methyl Parathion Methyl Tert-butyl Ether	39600	298000	Composite	8-hour Composite	ug/L	mg/L; ug/L kg/day; lb/day;	Group 2 Pollutant			metaphos
(MTBE)	22417	1634044	Grah	Grab	ug/L	mg/L; ug/L				
	22417	1034044	0140	Composite; Grab;	ug/L	ть, ug/L				
Methylene Blue Active				24-hour Composite;		kg/day; lb/day;				
Substances (MBAS)	47021		Composite	8-hour Composite	mg/L	mg/L; ug/L	Group 1 Pollutant			Surfactants
			<u> </u>	Composite; Grab;	Ŭ		· ·			
				24-hour Composite;						
Mevinphos	39610	7786347	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				Phosdrin

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Mexacarbate	38506	315184	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				
Mirex	39755	2385855	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
Molinate	49562	2212671	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				
Molybdenum, Dissolved	01060	7439987		Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Мо
Molybdenum, Total	01062	7439987	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Мо
Molybdenum, Total Recoverable	01129	7439987	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				Мо
Mono-chloro-benzenes	34031	108407	Grab	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Chlorobenzene
Monuron	38511	150685	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				chlorfenidim
Naled	38855	300765	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				bromchlophos; BRP; dibrom
Neburon	38521	555373	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				neburea
Nickel, Dissolved	01065	7440020	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Ni
Nickel, Total	01067	7440020	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Ni
Nitrate Nitrogen, Total (as N)	00620		, î	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L				NO3
Nitrate Nitrogen, Total (as NO3)	71850			Composite; Grab; 24-hour Composite; 8-hour Composite	0	kg/day; lb/day; mg/L				

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Nitrite Nitrogen, Total (as N)	00615	7727379	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			NO2
Nitrite Nitrogen, Total (as NO2)		14797650	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Nitrite Plus Nitrate (as N)	00630	7727379	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			NO2 + NO3
Nitrogen, Total (as N)	00600	7727379	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L				N
1,2,3,4,6,7,8,9- octachlorodibenzofuran	51025	39001020	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			OCDF; Octa CDF
1,2,3,4,6,7,8,9- octachlorodibenzo-p- dioxin	03818	3268879	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			OCDD; Octa CDD
Organic Nitrogen, Total (as N)	00605	7727379	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			TON
Orthophosphate (as P)	04175	7723140	Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Oxamyl	38865	23135220	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				
Parathion	39540	56382	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Ethyl Parathion; thiophos
p-cresol	78396	106445	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			4-methylphenol
1,2,3,7,8- pentachlorodibenzofuran	30350	57117416	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,7,8-pentaCDF
2,3,4,7,8- pentachlorodibenzofuran	30351	57117314	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			2,3,4,7,8-pentaCDF
1,2,3,7,8- pentachlorodibenzo-p- dioxin	30344	40321764	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	pg/L	kg/day; lb/day; pg/L; ug/L	TCDD Congener			1,2,3,7,8-pentaCDD

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
Pentachloroethane	81501	76017	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			ethane pentachloride; pentalin
Perchlorate	61209		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	^ 			Ammonium perchlorate; Cl04
Phenolic Compounds, Total	70029		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L				
Phenolic Compounds, Unchlorinated	78218		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Phenolic Compounds, non-chlorinated; Phenols, nonchlorinated
Phenolics, Total Recoverable	32730		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Phenolic Compound; Total Phenolic Compounds
Phenols	46000		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			total Phenols
Phenols, Chlorinated	74015		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Chlorinated Phenolics; Phenolic compounds, chlorinated
Phorate	46313	298022	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
Phosmet, Organic Pesticide	51154	732116	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				appa; decemthion; fesdan; imidan; kemolate; phthalophos; PMP; prolate; safidon
Phosphamidon	78881	13171216	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				
Phosphate, dissolved/orthophosphate (as P)	00671	7723140	Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Phosphate, Total (as P)	70505	7723140	Grab	Grab		kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			
Phosphate, Total (as PO4)	00650	7723140	Grab	Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Phosphorous, In Total Orthophosphate	70507	7723140	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
Phosphorus, Total (as P)	00665	7723140	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite		kg/day; lb/day; mg/L; ug/L				Phosphorous

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Phosphorus, Total	00670	7722140	a	24-hour Composite;	/π	1 / 1 11 / 1 /1				
Organic (as P)	00670	//23140	Composite	8-hour Composite Composite; Grab;	mg/L	kg/day; lb/day; mg/L	Group I Pollutant			Phosphorous
				24-hour Composite;						
Picloram	39720	1918021	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
	07720	1710021	composite	Composite; Grab;	ug/12	ng, duj , 10, duj , ug 2				
Polychlorinated				24-hour Composite;		kg/day; lb/day;				
Biphenyls (PCBs)	39516		Composite	8-hour Composite	ug/L	mg/L; ng/L; ug/L	Group 2 Pollutant			PCBs sum; PCBs Total
				Composite; Grab;						
Polynuclear Aromatic				24-hour Composite;						
Hydrocarbons (PAHs)	22456		Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				PNAs
				Composite; Grab;						
Potassium, Total Recoverable	00939	7440007	Composite	24-hour Composite; 8-hour Composite	ue/I	kg/day; lb/day;	Crown 1 Dollutont			К
Recoverable	00939	/44009/	Composite	Composite; Grab;	ug/L	mg/L; ug/L	Group 1 Pollutant			K
				24-hour Composite;		kg/day; lb/day;				
Propoxur	38537	114261	Composite	8-hour Composite	ug/L	mg/L; ug/L				arprocarb; PHC
				Composite; Grab;		8,8				
				24-hour Composite;						
Radiation, Gross Beta	03520		Composite	8-hour Composite	PCi/L	PCi/L	Group 2 Pollutant			Gross Beta Particle Activity
				Composite; Grab;						
				24-hour Composite;						
Radioactivity	00189		Composite	8-hour Composite	PCi/L	PCi/L	Group 2 Pollutant			Radionuclides
D 11 17 1 11				Composite; Grab;						
Residue, Volatile Nonfilterable	81013		Composite	24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Crown 1 Dollutont			
INOIIIIIterable	81015		Composite	Composite; Grab;	mg/L	kg/day; 10/day; 11g/L	Group I Pollutant			
				24-hour Composite;						
Ronnel	39357	299843	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
			1	24-hour Composite;	.0	8				
				8-hour Composite;						
				Composite; Grab;						
Salinity	00480		Composite	Measure	mg/L	kg/day; lb/day; mg/L				
				Composite; Grab;						
	01145	7700400	a	24-hour Composite;	/T	kg/day; lb/day;				c.
Selenium, Dissolved	01145	7782492	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Se
				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				
Selenium, Total	01147	7782/102	Composite	8-hour Composite;	ug/L	mg/L; ug/L	Group 2 Pollutant			Se
selemum, rotai	0114/	1182492	Composite	8-nour Composite	ug/L	mg/L; ug/L	Group 2 Ponutant			50

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Settleable Solids	00545		Composito	24-hour Composite; 8-hour Composite		ml/L	Crown 1 Dollutont			Sattlashla Mattan
Settleable Solids	00343		Composite	Composite; Grab;	ml/L	IIII/L	Group 1 Pollutant			Settleable Matter
				24-hour Composite;		kg/day; lb/day;				
Siduron	38547	1982496	Composite	8-hour Composite	ug/L	mg/L; ug/L				
				Composite; Grab;		8,,8,				
				24-hour Composite;		kg/day; lb/day;				
Silver, Dissolved	01075	7440224	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ag
				Composite; Grab;						
				24-hour Composite;		kg/day; lb/day;				
Silver, Total	01077	7440224	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ag
				Composite; Grab;						
				24-hour Composite;	_	kg/day; lb/day;				
Simazine	39055	122349	Composite	8-hour Composite	ug/L	mg/L; ug/L				
				Composite; Grab;						
	000000	7440225	G	24-hour Composite;	17	kg/day; lb/day;	G 1.D.11			
Sodium, Total	00929	7440235	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 1 Pollutant			Na
				Composite; Grab;		1 / 1 11 / 1				
Sodium, Total Recoverable	00923	7440025	Common iter	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			Na
Recoverable	00923	7440235	Composite	Composite; Grab;	ug/L	IIIg/L; ug/L	Group I Pollutant			INA
				24-hour Composite;						
Stirophos	38686	22248799		8-hour Composite	ug/L	kg/day; lb/day; ug/L				Tetrachlorviphos
Strophos	50000	22240177	composite	o nour composite	ug/11	Kg/day, 10/day, dg/L				Tetracinor vipnos
Styrene	81708	100425	Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
				Composite; Grab;	.0	<u> </u>				
				24-hour Composite;						
Sulfate	81020		Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
				Composite; Grab;						
				24-hour Composite;						
Sulfate (as S)	00154		Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Sulfates
				Composite; Grab;						
				24-hour Composite;						
Sulfate, Total (as SO4)	00945	14808798	Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Sulfates
				Composite; Grab;						
	00515		a	24-hour Composite;		1 / 1 11 / 1 ~				
Sulfide, Dissolved, (as S)	00746		Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group I Pollutant			Dissolved Sulfides
				Composite; Grab;						
Sulfida Tatal	91621		Composite	24-hour Composite;	ma/I	lea/dary lla/dary co-/T	Crown 1 Dollutert			
Sulfide, Total	81621		Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group I Pollutant			

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab;						
Sulfide, Total (as S)	00745		Composite	24-hour Composite; 8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Sulfides
Sunde, Total (as 5)	00745		composite	Composite; Grab;	ing/L	Kg/day, 10/day, 11g/E	Group I I onutant			Sundes
				24-hour Composite;						
Sulfotepp	82201	3689245	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Bladafume
				Composite; Grab;		1 / 1 11 / 1				MCC; methyl (3,4-
Swep	38554	1018180	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L				dichlorophenyl)carbamate; methyl 3,4- dichlorocarbanilate
Бжер	50554	1/1010/	composite	Composite; Grab;	ug/L	111g/12, ug/12				diemorocarbannate
				24-hour Composite;		kg/day; lb/day; pg/L;				
TCDD Equivalents	82698		Composite	8-hour Composite	ug/L	ug/L	Group 2 Pollutant			2,3,7,8 Equivalents
Temperature, Deg.			~ .	~ .	Degrees					
Centigrade	00010	<u> </u>	Grab	Grab		Degrees C		-		Degrees C
Temperature, Deg. Fahrenheit	00011		Grab	Grab	Degrees F	Degrees F				Degrees F
1 amemen	00011	<u> </u>	0140	Composite; Grab;	1	Degrees r				
				24-hour Composite;						ethyl pyrophosphate;
TEPP	39620	107493	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				tetraethylphosphorotrithioate
				Composite; Grab;						
Terbufos (counter) Total	82088	13071700		24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			
Terbulos (counter) Total	82088	130/1/99	Composite	Composite; Grab;	ug/L	kg/uay, 10/uay, ug/L	Group 2 Fonutant			
2,3,7,8				24-hour Composite;		kg/day; lb/day; pg/L;				2,3,7,8 tcdf; 2,3,7,8 tetrachloro-
tetrachlorodibenzofuran	38691	51207319	Composite	8-hour Composite	pg/L	ug/L	TCDD Congener			dibenzo p-furan; 2,3,7,8-tetraCDF
				Composite; Grab;						
2,3,4,6-tetrachlorophenol	77770	58002		24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			
2,5,4,0-tetraciliorophenor	////0	36902	Composite	Composite; Grab;	ug/L	IIIg/L, ug/L	Gloup 2 Follutalit			
				24-hour Composite;		kg/day; lb/day;				
Thiobencarb	34722	28249776		8-hour Composite	ug/L	mg/L; ug/L				benthiocarb; Bolero
				Composite; Grab;						
T h:::-	51201	207072	Comment	24-hour Composite;	/T	1/				Company
Thionazin	51381	291912	Composite	8-hour Composite Composite; Grab;	ug/L	kg/day; lb/day; ug/L				Cynem
				24-hour Composite;		kg/day; lb/day;				
Tin, Dissolved	01100	7440315	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Sn
				Composite; Grab;			-			
	0110-	=		24-hour Composite;	~	kg/day; lb/day;				
Tin, Total	01102	7440315	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Sn

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
				Composite; Grab; 24-hour Composite;						
Tin, Total Recoverable	00983	7440315	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			Sn
,				Composite; Grab;		8 avj, a avj, 8				
				24-hour Composite;	_	kg/day; lb/day;				
Titanium, Dissolved	01150	7440326	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ti
				Composite; Grab; 24-hour Composite;		kg/day; lb/day;				
Titanium, Total	01152	7440326	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Ti
				Composite; Grab;	<u> </u>		1			
Titanium, Total				24-hour Composite;						
Recoverable	00984	7440326	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				Ti
				Composite; Grab; 24-hour Composite;						
Tokuthion	38564	34643464	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				Prothiofos
Tokullion	50501	51015101	composite	o nour composite		CFU/100 mL:				r rounoros
Total Coliform	74056		Grab	Grab		MPN/100 mL				Total Coliform Organisms
				24-hour Composite;						
Total Dissolved	00444		a 1	8-hour Composite;	~		G ()]			
Phosphorus	00666	7723140	Composite	Composite; Grab	mg/L	kg/day; lb/day; mg/L	Group I Pollutant			Phosphorous
Total Dissolved Solids				Composite; Grab; 24-hour Composite;						
(TDS)	70295		Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			
				Composite; Grab;	0	<u> </u>				
Total Kjeldahl Nitrogen				24-hour Composite;						
(as N)	00625	7727379	Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			TKN
				Composite; Grab;		Ira/dary llh/dary				2.4.5 trichlononhonouymnonionic ocid
2,4,5-TP (Silvex)	79732	93721	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			2,4,5-trichlorophenoxypropionic acid; Silvex
2,1,5 11 (511/04)	17132	75721	composite	Composite; Grab;	ug/L	iiig/ 2, ug/ 2	Group 2 Fonduni			birtex
				24-hour Composite;		kg/day; lb/day; ng/L;				
Tributyltin (TBT)	03824	688733	Composite	8-hour Composite	ug/L	pg/L; ug/L	Group 2 Pollutant			Stannane; tributyl stannane
				Composite; Grab;						
Trichlorfon	51385	52686	Composite	24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L				chlorophos; metriphonate; trichlorphon
	51303	52080	composite	o-nour composite	ug/L	kg/day; lb/day; ug/L				emorophos, memphonate, tremorphon
Trichlorofluoromethane	34488	75694	Grab	Grab	ug/L	mg/L; ug/L	Group 2 Pollutant			freon 11; trichloromonofluoromethane
				Composite; Grab;						
Tu: 11	20007	227000	Comments	24-hour Composite;	/ T	1/111-/1/7				
Trichloronate	38897	327980	Composite	8-hour Composite	ug/L	kg/day; lb/day; ug/L				
1,2,3-trichloropropane	77443	96184	Grab	Grab	ug/L	kg/day; lb/day; ug/L				

Official Parameter Name	PCS Code	CAS Number	Default Sample Type	Allowable Sample Types	Default Unit	Allowable Units	Parameter Groups ¹	Parameter Sub- groups	CTR Number ²	Synonyms
1,1,2-trichloro-1,2,2- trifluoroethane	77652	76131	Grah	Grab	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			1,1,2-Trichlorotrifluoroethane; FC113; Freon 113
umuoroetnane	11032	70131	Grab	GIAD	ug/L	IIIg/L, ug/L	Gloup 2 Follutant			
Trihalomethane, Total	82080		Grab	Grab	ug/L	kg/day; lb/day; ug/L	Group 2 Pollutant			ТТНМ
				Composite; Grab;						
				24-hour Composite;						
Tritium, Total	82126	10028178	Composite	8-hour Composite	PCi/L	PCi/L	Group 2 Pollutant			
Turbidity	00070		Composite	Composite; Grab; 24-hour Composite; 8-hour Composite; Measure	NTU	JTU; NTU				
Turbluity	00070		Composite	Composite; Grab;	NIU	J10, N10				
				24-hour Composite;						
Urea	71800	57136	Composite	8-hour Composite	mg/L	kg/day; lb/day; mg/L	Group 2 Pollutant			
Vanadium, Dissolved	01085	7440622	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			V
Vanadium, Total	01087	7440622	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; ug/L	Group 1 Pollutant			V
Vanadium, Total Recoverable	01128	7440622	Composite	Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 1 Pollutant			v
Volatile Suspended Solids (VSS)	00535			24-hour Composite; 8-hour Composite; Composite; Grab	mg/L	kg/day; lb/day; mg/L	Group 1 Pollutant			Volatile suspended matter
Solids (199)	00000		composite	composite, ente	<u>9</u> .12	kg/day; lb/day;	oroup i ronuum			o-xylene 95476, m-xylene 108383, p-
Xylene	81551	1330207	Grab	Grab	ug/L	mg/L; ug/L	Group 2 Pollutant			xylene 106423
				Composite; Grab; 24-hour Composite;	0	kg/day; lb/day;				
Zinc, Dissolved	01090	7440666	Composite	8-hour Composite	ug/L	mg/L; ug/L	Group 2 Pollutant			Zn
Zinc, Percent Removal	51401	7440666		Calculate	%	%				Zn
Zinc, Total	01092	7440666		Composite; Grab; 24-hour Composite; 8-hour Composite	ug/L	kg/day; lb/day; mg/L; ug/L	Group 2 Pollutant			Zn