



California Integrated Water Quality System (CIWQS) and Electronic Self Monitoring Reports (eSMR)

What we will cover today

- Brief Introduction to CIWQS
- eSMR
- Using the Report Builder Module
 - Numeric requirements, converting data, data submission, etc.
- Walkthrough of data conversion tool

What is CIWQS?

- Web access to:
 - Locations (facilities) of interest
 - Associated people and organizations
 - Orders (e.g., permits), including requirements and limits
 - Inspection scheduling and results tracking
 - Violation management
 - Enforcement Action development and tracking
 - Penalties and invoices
- Allows Dischargers to electronically submit *self monitoring reports*
- Share data with the State financial system (AFBS) and USEPA IDEF/PCS
- Desktop-based and Web-Based GIS module
- Integrates functionality of existing SWRCB systems and adds new functionality
- Dischargers will initially have access to only eSMR module

CIWQS

- “Integrated”
 - CIWQS integrates
 - Permit requirements with
 - The “place” with
 - The “people” with
 - The SMR (self monitoring report)
 - CIWQS does not automatically issue a notice of violation and fine
 - All “allegations” must be reviewed by Board staff

CIWQS Help Center

- SWRCB has created the CIWQS Help Center
 - Web Site
 - Phone Support
 - Outreach Materials and Training
- <http://www.waterboards.ca.gov/ciwqs/index.html>
- 1-866-79-CIWQS (M-F, 8-5)
- Help Center is also Processing DMR's
- List Server available at -
http://www.waterboards.ca.gov/lyrisforms/swrcb_subscribe.html.

What is eSMR?

- Electronically submit SMR
- Based on permit requirements loaded into CIWQS
- Provides an “error check” to pre-determine potential non-compliance
- Includes security: only authorized users can view/enter data

Using CIWQS

California Integrated Water Quality System (CIWQS) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

California Home Friday, October 1, 2004

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CIWQS

☐ My CA ☐ This Site

California Integrated Water Quality System (CIWQS)

User Name:

Password:

Forgot your password? [Click here](#)
New User? [Register here](#)
To report any problems with this system, please contact the system administrator

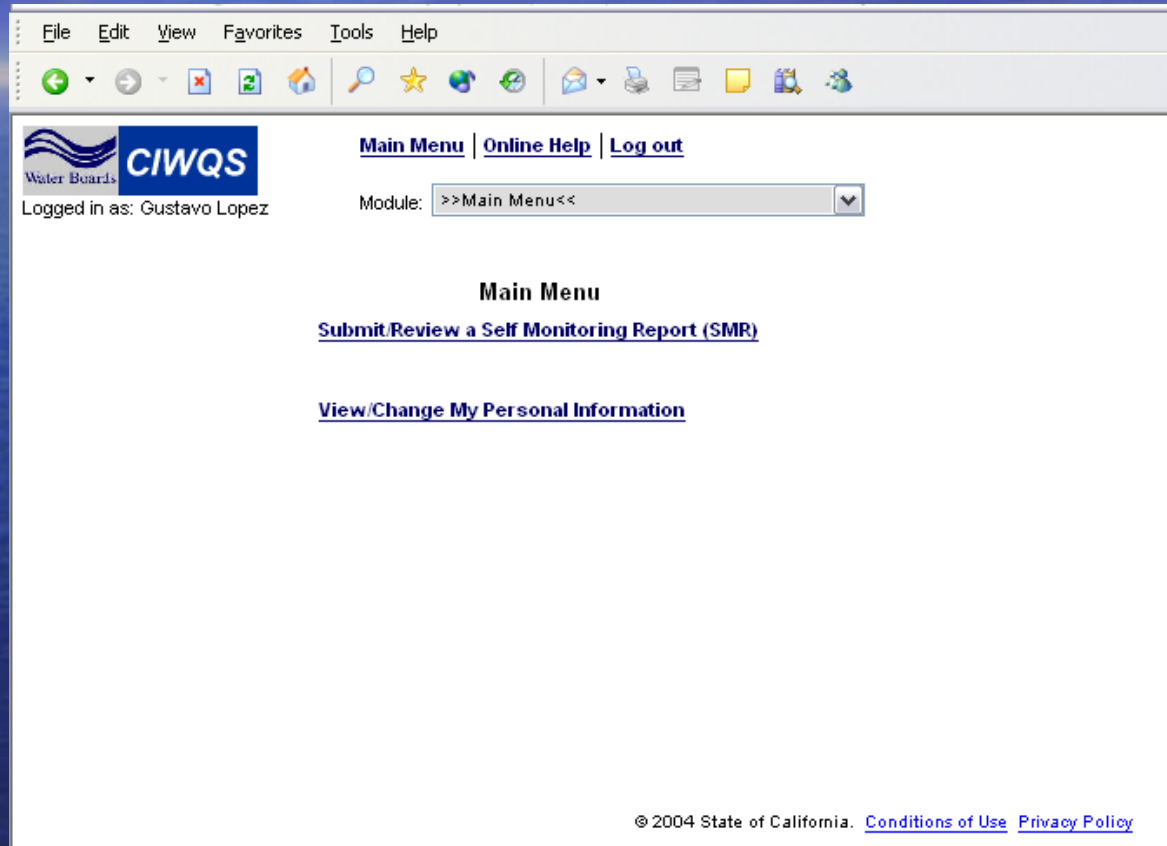
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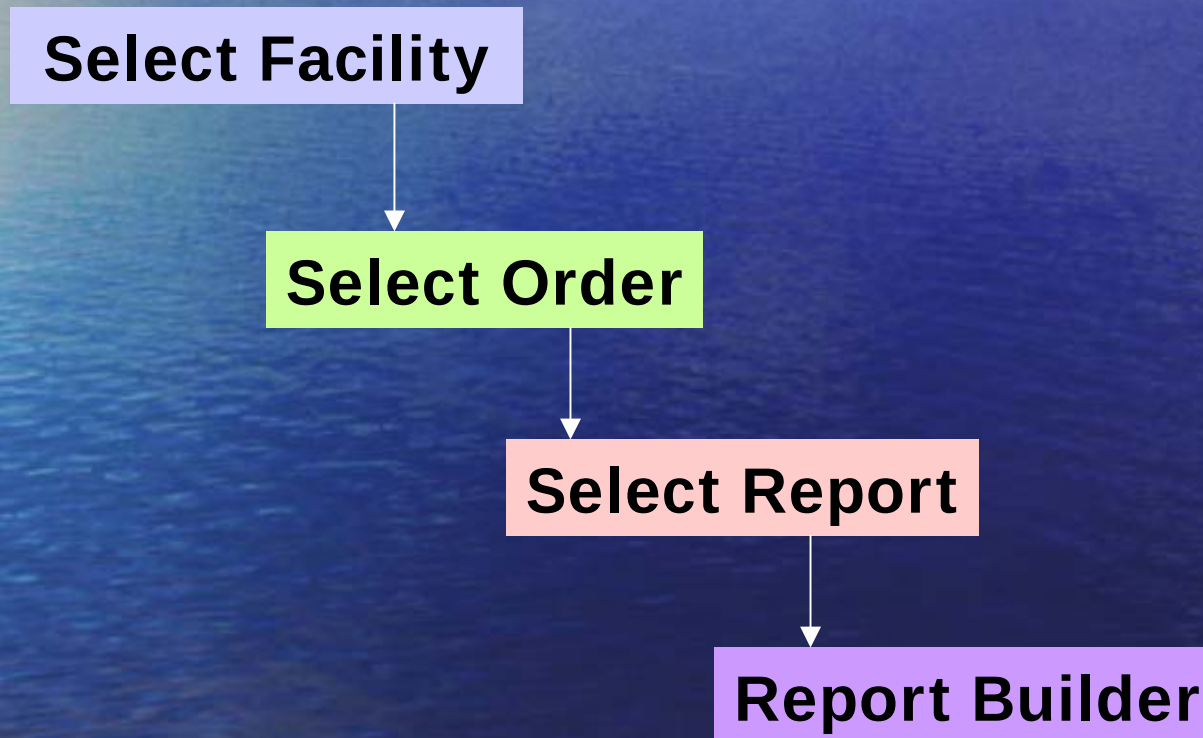
Internet

Using CIWQS

- Dischargers will see two modules on their Main Page
 - Submit/Review a Self Monitoring Report (SMR)
 - View/Change My Personal Information



Submit/Review a Self Monitoring Report (SMR)



Select Facility

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Water Boards **CIWQS**

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Module:

Select the facility for which you are submitting this Self Monitoring Report

Facility	Facility Physical Address	Responsible Agency Name	Case Worker Name
So and so Treatment Plant	999 Industrial Park Way, Somewhere, CA 00000-0000	Discharger ABC	John Doe

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Select Order

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Module:

Select the order that details the requirements for this Self Monitoring Report

☒ Show Effective ☐ Show All

Order Number	Program	Effective Dates	
R2-WIP-123	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order
R1-QPD-083	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order
R4-RSM-492	NPDES	02/01/2004 - 01/31/2009	View all Requirements for this Order

Select Report Screen

- You can view submitted, past-due, current, and future reports

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Module:

Select Report

To review or submit a report, select it from the list below. To change the list of reports, check the status types and/or enter start and end dates.

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: and

Due Date	Report Name	Reporting Period	Status	Date Submitted	Archived Reports	Submission Withdrawal
02/01/2004	Monthly Report for January 2004	1/1/2004 - 1/31/2004	Submitted	2/15/2004	Download Report	Withdraw Report
03/01/2004	Monthly Report for February 2004	2/1/2004 - 2/29/2004	Submitted	3/15/2004	Download Report	Withdraw Report
04/01/2004	Monthly Report for March 2004	3/1/2004 - 3/31/2004	In-Progress			

Report Builder Screen

View Requirements No Discharge Narrative Pre-Calculated EDF Raw Data Data Summary File Attachments Error Check Cover Letter

- **View Requirements**
 - Report of requirements to be reported on in this SMR
- **No Discharge**
 - Report locations without discharge during reporting period
- **Narrative**
 - Report compliance for narrative requirements (yes, no, n/a)
- **Pre-Calculated, CDF, EDF, Raw Data**
 - Report compliance for limit/monitoring requirements
- **Data Summary**
 - View all of your data before submission
- **File Attachments**
 - Attach supporting information to submission
- **Error Check**
 - Check for potential errors and non-compliance in submission
- **Cover Letter**
 - Prepare submission cover letter, certify/sign, and submit

Reporting Your Requirements

- Narrative
 - Narrative tab
- Numeric
 - Pre-calculated tab
 - Raw Data tab
 - EDF/CDF tab

Numeric Requirements

- In most cases, CIWQS can run calculations and determine compliance based on sample data.
- In some cases, the limit is not a fixed number (e.g., dependant on pH, temperature, or an external factor) and the **limit** must be reported, as well as the **result** (use the “pre-calculated” screen).
- In some cases, it is not feasible for CIWQS to compute the “summary” value based on raw data (use the “pre-calculated” screen).

Pre-Calculated Screen

Pre-Calculated

Enter calculated values for each of the line items listed under each monitoring location.

Save Monitoring Location: MON001 ▼

Parameter	Bound	Limit	Units	Result	Units	Comments	Requirement Text
Ammonia, Total	<=		mg/l		mg/l		

Options for Entering Numeric Data

- Raw Data Screen
- CIWQS Data Format (CDF)
- Electronic Deliverable Format (EDF)
- Combination

Report Builder – Raw Data

[View Requirements](#) [No Discharge](#) [Narrative](#) [Pre-Calculated](#) [EDF](#) [Raw Data](#) [Data Summary](#) [File Attachments](#)
[Error Check](#) [Cover Letter](#) [Water Board Notes](#)

Enter measured sample values for each of the line items listed under each monitoring location.

Select a sampling event date/time: 2/1/2004 at 08:00:00

Monitoring Location: M1

Parameter	Minimum Sampling Frequency	Sample Type	Sample Medium	Result	Units	Analytical Method	Method Detection Limit (Optional)	Non-Detect?	Minimum Level (Optional)	Sample Analysis Date (Optional)	Sample Analysis Time (Optional)	
Save												
Copper	Daily	Grab	Soil		mg/L	35465 v		☐				delete duplicate
Lead	Daily	Grab	Fish Tissue		mg/L	35465 v		☐				delete duplicate
Zinc	Daily	Grab	Water		mg/L	35465 v		☐				delete duplicate

CIWQS Required Data Fields

- Monitoring location
- Scenario (if applicable)
 - A Scenario ID is applicable only if the NPDES Permit specifies a scenario in which samples are to be taken or analyzed.
 - Examples of Scenario IDs are “Dilution <20:1” and “Dilution ≥20:1”
- Sample collection date
- Sample collection time
- Sample medium
- Analytical method
- Sample analysis date
- Parameter concentration (if applicable)
 - Dissolved, Total Recoverable, Total

CIWQS Required Data Fields

- Parameter
- Analytical result
- Analytical result qualifier (= or <)
- Analytical Method Detection Limit (MDL)
- Minimum Level (ML) (if detected, but not quantified)
 - If the parameter is detected but not quantified (DNQ), choose “=” in the Analytical Result Qualifier section and enter the minimum level (ML) in the Minimum Level (ML) section.
 - If the sample result is non-detect (ND), enter the method detection limit (MDL) and choose “<” in the Analytical Result Qualifier section.
- Units

CIWQS Data Format Benefits

- For those that want an easy way to convert Excel files to a format that CIWQS accepts
- Excel-based tool
- Only has the 14 required fields required by CIWQS
- Create a ZIP file with a general information file (.txt) and a comma-separated values (.CSV) file
- Dischargers can create a template
- Still uses EDF format (fields/columns and valid values)
- We'll do a demonstration at the end of this presentation

The Electronic Deliverable Format

- Developed by Arsenault Legg, inc.
 - <http://www.arsenaultlegg.com/>
- Originally for the Corps of Engineers
- Used by SWRCB for GeoTracker (UST)
- ASCII-based format, compressed with ZIP
- Free tools are available from Arsenault Legg to import from certain other formats and validate data
- Requires the use of pre-defined “code” values
- Some LIMS include EDF export capability (check with your vendor)

Combination

- Sample data can be uploaded through the raw data entry screen or as an EDF or CDF file or a combination of all three formats.
- Multiple EDF or CDF files may be uploaded for each SMR submission.
- If you want, you can authorize your lab to upload EDF or CDF files on your behalf.
You will still be able to review the data before certification and submission.

Sample Data Summary Screen

[illegible]

Be Prepared – Think Ahead

- Your monitoring points will receive identifiers:
 - Influent (M-INF or M-INFA, M-INFB...)
 - Effluent (M-001, M-002... or M-001A, M-001B...)
 - Internal (M-INT or M-INTA, M-INTB...)
 - Surface Water (R-001, R-002...)
 - Upstream Surface Water (R-001U, R-002U...)
 - Downstream Surface Water (R-001D, R-002D...)
- Inform your lab and make the changes within your process and records!
- Your requirements will match your Monitoring and Reporting Program (MRP)
 - Check the CIWQS web site for policy statements regarding DNQ, continuous monitoring, code values, etc.