


Electronic Self-Monitoring Reports

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Office of Information Management and
Analysis
State Water Resources Control Board



eSMR

- Introduction
- Getting Data In: User Interface and Data Upload
- Identifying Violation
- Statewide Implementation
- Future Enhancements
- Other eSMR Consideration
- Questions

Region 2

Introduction

➤ CIWQS

- California Integrated Water Quality System
- Regulatory tracking database for the Water Boards

➤ eSMR

- A module of CIWQS

➤ eSMR²

- Revision of the original system

Why Move to Electronic Reporting

- Facilitate tracking reports
 - What is due
 - What has been submitted
 - Less paper to handle/store
- Reduce staff data entry
- Data in usable format

Original eSMR

➤ Coding

- Individual requirements
- Limits

➤ Error check required before submittal identifying missing data and limit exceedences

Original eSMR

➤ Roadblocks

- Resource intensive
- Permit variability
- Technical problems with error check

➤ Revisions necessary

eSMR²

- Revision of original eSMR system
- Easy to locate report and report's data
- Discharger submits data in useable format
 - Export Data Summary to Excel
 - Six-level sorting option on Data Summary Tab
- Discharger creates violation records
- No resource intensive requirement coding
- No error/compliance checking
 - Less technically complex

eSMR²

- Expects submissions by due date
- Does not expect specific data
- Does not do calculations

eSMR2

- Two levels of Discharger access
 - Legally responsible official
 - Enters data
 - “Signs” and submits report
 - Data Submitter (Preparer)
 - Enters data

Getting Data In

- No Discharge Tab
- Data points
 - Upload - EDF/CDF Tab
 - Permittee Entry Template Tool
 - Other EDF compatible file
 - Analytical Data Tab
 - Calculated Data Tab
- Attachments
- Violations
- Cover letter

No Discharge Tab

- Used for intermittent discharges
- Identifies dates during reporting period when there was no discharge
 - Individual dates or entire period
- Communicates to case worker – no additional functionality



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Self Monitoring Report (SMR)

[Back to SMR search screen](#)

Reporting Level: Level II

Facility Name: test WWTP

Order Number: 2009-test

Water Board Office: Region 1 - North Coast

Case Worker: Rassam Zarghami

Monthly SMR (MONRPT) report for December 2009

Report Effective Dates: 12/01/2009 - 12/31/2009

Status: Submitted Past Due

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For each discharge point below, specify the dates that no discharge occurred by clicking the "Add/Modify Dates" link, Comments are mandatory for any discharge points with any no-discharge dates specified.

[Save](#)

Discharge Point Name	Discharge Point Description	Dates with No Discharge	ND Entire Period	Remove All	Comments
001	Discharge to Canyon Lake	Existing Non Discharge Dates: Add/Modify Dates	<input type="checkbox"/>	<input type="checkbox"/>	

[Save](#)

December, 2009							
?	<	Today				>	x
wk	Sun	Mon	Tue	Wed	Thu	Fri	Sat
48	29	30	1	2	3	4	5
49	6	7	8	9	10	11	12
50	13	14	15	16	17	18	19
51	20	21	22	23	24	25	26
52	27	28	29	30	31	1	2
53	3	4	5	6	7	8	9
Select date							

© 20

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Attachments

- Uploading other information
 - Biosolids reports
 - Pretreatment reports
 - Lab QA reports
 - Observations
- Unlimited files
- Up to 75 MB per file
- File types should be limited to those case worker can review



AT&T Registration

Courses

California Integrate...

California Integr... X



CIWQS

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Self Monitoring Report (SMR)

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Reporting Level: Level II

Facility Name: test WWTP

Order Number: 2009-test

Water Board Office: Region 1 - North Coast

Case Worker: Rassam Zarghami

Monthly SMR (MONRPT) report for May 2010

Report Effective Dates: 05/01/2010 - 05/31/2010

Status: In-Progress

[No Discharge](#)

[EDF/CDF](#)

[Analytical Data](#)

[Calculated Data](#)

[Data Summary](#)

[Attachments](#)

[Violations](#)

[Submittal](#)

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 Description	
<input type="text"/> Browse...	<input type="text"/>	Upload File

File Name	File Description	Date/Time Uploaded	Status	
Biosolids Report 2009.pdf		06/22/2010 - 17:52:09	OK	delete

Violations

- Required to report violations
- Violation wizard to facilitate entry
- Populates CIWQS record
- Log of who created and modified each record

Cover Letter

- Cover letter required
- May upload or use text box

AT&T Registration Courses California Integrate... California Integr... X

Self Monitoring Report (SMR)

[Back to SMR search screen](#) Reporting Level: Level II

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Water Board Office: Region 1 - North Coast Case Worker: Rassam Zarghami

Monthly SMR (MONRPT) report for May 2010 Report Effective Dates: 05/01/2010 - 05/31/2010

Status: In-Progress

No Discharge EDF/CDF Analytical Data Calculated Data Data Summary Attachments Violations Submittal

[Save for Later](#) [Certify & Submit](#) [Preview report](#)

Please describe your submission, including descriptions of all violated requirements.

Option A: Select a document on your computer by clicking 'Browse'.

File*	
<input type="text"/> Browse...	Upload File
Uploaded cover letter:	

OR

Option B: You may enter plain text in the field below.
You can use this area here to type the contents of a cover letter.

Data Points

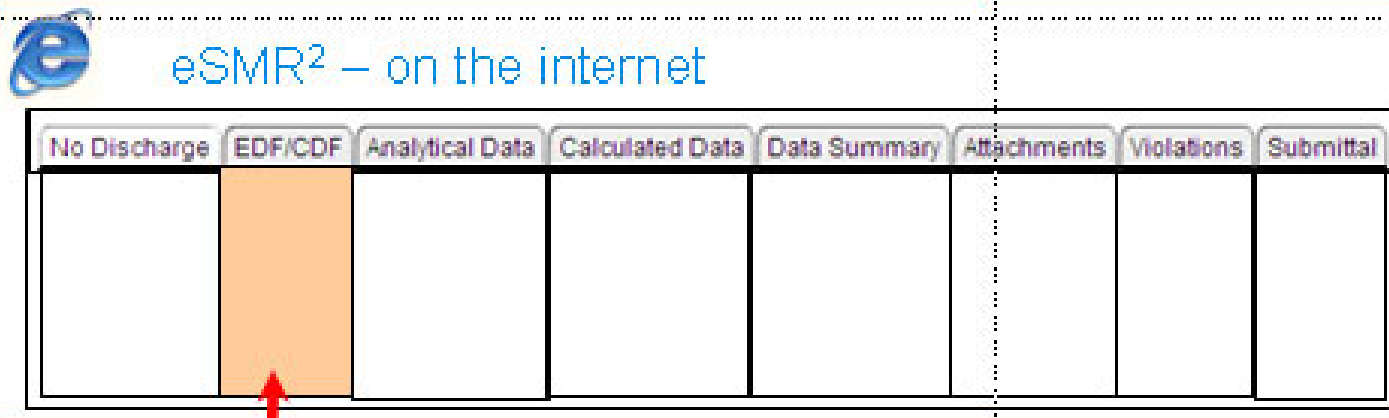
- Upload
- Manual

Data Points - Upload

➤ Permittee Entry Template (PET) Tool

- Excel based tool
- Prepared outside of eSMR/CIWQS
- Upload zipped file
- Template
 - Limited changes from report to report except result and dates

PET Tool



Upload data points



Permittee Entry Template (PET) Tool				
3	Agency Name:			
4	Santa Clarita Valley SD of Los Angeles Cnty			
6	Facility Name:			
7	Saugus WRP			
9	Order No. (RX-XXXX-XXXX)	Reporting Period		
10	R4-2009-0075			
12	Data Entered By:			Key: Red Outline = Required Blue Outline = Optional
13				
15	QA Performed By:			
16				
18	Analytical Lab Contact Information			
19	Name	Location	Contact & Phone Number	
20				
22	Additional Notes:			
22				

R4-2009-0075 [Compatibility Mode]

	A	B	C	E	F	G	H	I	J	K
1	Monitoring Point	Parameter	Data Type	Analytical Method	Collection Date	Collection Time	Analysis Date	Qualifier	Result	Units
59	INF-001	Flow	Instantaneous Maximum	Data Unavailable [DU]	5/27/2010	8:00	5/27/2010	=	1	MGD
60	INF-001	Flow	Instantaneous Maximum	Data Unavailable [DU]	5/28/2010	8:00	5/28/2010	=	1	MGD
61	INF-001	Flow	Instantaneous Maximum	Data Unavailable [DU]	5/29/2010	8:00	5/29/2010	=	1	MGD
62	INF-001	Flow	Instantaneous Maximum	Data Unavailable [DU]	5/30/2010	8:00	5/30/2010	=	1	MGD
63	INF-001	Flow	Instantaneous Maximum	Data Unavailable [DU]	5/31/2010	8:00	5/31/2010	=	1	MGD
64	INF-001	pH	Single	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	SU
65	INF-001	pH	Single	Data Unavailable [DU]	5/8/2010	8:00	5/8/2010	=	1	SU
66	INF-001	pH	Single	Data Unavailable [DU]	5/15/2010	8:00	5/15/2010	=	1	SU
67	INF-001	pH	Single	Data Unavailable [DU]	5/22/2010	8:00	5/22/2010	=	1	SU
68	INF-001	pH	Single	Data Unavailable [DU]	5/29/2010	8:00	5/29/2010	=	1	SU
69	INF-001	Total Suspended Solids (TSS)	Single	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	mg/L
70	INF-001	Total Suspended Solids (TSS)	Single	Data Unavailable [DU]	5/8/2010	8:00	5/8/2010	=	1	mg/L
71	INF-001	Total Suspended Solids (TSS), Net Value	Single	Data Unavailable [DU]	5/15/2010	8:00	5/15/2010	=	1	mg/L
72	INF-001	Total Suspended Solids (TSS), Percent Ren	Single	Data Unavailable [DU]	5/22/2010	8:00	5/22/2010	=	1	mg/L
73	INF-001	Total Trihalomethanes (TTHM)	Single	Data Unavailable [DU]	5/29/2010	8:00	5/29/2010	=	1	mg/L
74	INF-001	Toxaphene	Single	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	mg/L
75	INF-001	trans-1,2-Dichloroethylene	Single	Data Unavailable [DU]	5/8/2010	8:00	5/8/2010	=	1	mg/L
76	INF-001	trans-1,3-Dichloropropylene	Single	Data Unavailable [DU]	5/15/2010	8:00	5/15/2010	=	1	mg/L
77	INF-001	trans-Nonachlor	Single	Data Unavailable [DU]	5/22/2010	8:00	5/22/2010	=	1	mg/L
78	INF-001	Biochemical Oxygen Demand (BOD) (5 Single	Single	Data Unavailable [DU]	5/29/2010	8:00	5/29/2010	=	1	mg/L
79	INF-001	Biochemical Oxygen Demand (BOD) (5 Single	Single	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	mg/L
80	INF-001	Biochemical Oxygen Demand (BOD) (5 Single	Single	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	mg/L
81	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/1/2010	8:00	5/1/2010	=	1	MGD
82	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/2/2010	8:00	5/2/2010	=	1	MGD
83	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/3/2010	8:00	5/3/2010	=	1	MGD
84	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/4/2010	8:00	5/4/2010	=	1	MGD
85	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/5/2010	8:00	5/5/2010	=	1	MGD
86	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/6/2010	8:00	5/6/2010	=	1	MGD
87	EFF-001	Flow	Daily Discharge	Data Unavailable [DU]	5/7/2010	8:00	5/7/2010	=	1	MGD

General Data Entry Lookup Codes Conversion



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Courses

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http://ww...

EDF Help D...



CIWQS

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Reporting Level: Level II

Facility Name: test WWTP

Order Number: 2009-test

Water Board Office: Region 1 - North Coast

Case Worker: Rassam Zarghami

Monthly SMR (MONRPT) report for May 2010

Report Effective Dates: 05/01/2010 - 05/31/2010

Status: In-Progress

[No Discharge](#)

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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.

EDF/CDF ZIP File *	File Description	
<input type="text"/> Browse...	<input type="text"/>	Upload File

File Name (Type)	File Description	Date/Time Uploaded	Status	
May2010.zip		06/22/2010 - 18:29:16	OK	delete

Data Entry - Upload

- May map LIMS to correct format
- Requires use of EDF codes
 - <http://www.edfdata.com/>
- CDF Setup Guide
 - Data types, field lengths, default values, etc

Data Points – Manual Entry

- Analytical Data Tab
- Calculated Data Tab
- Search for parameter
- Enter metadata and results
- For use with just a couple of data points



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Step 1: Choose the monitoring location where the samples were taken.

Step 2: Add Parameters to the list below by choosing a Parameter Group and clicking the "Add Group Parameters" button, or by clicking the "Add Individual Parameters" button and performing a search.

[Save Changes](#)

[Refresh Data](#)

Monitoring Location: *

[Add Group Parameters \(Auto-Populate\)](#)

[Add Individual Parameters \(Search\)](#)

[Delete Selected Rows](#)

Parameter	Analytical Method	Sample Date MM/dd/yyyy	Sample Time HH:mm:ss	Analysis Date MM/dd/yyyy	Analysis Time HH:mm:ss	Qualifier	Result	Units	MDL	ML
pH	<input type="text" value="E150.1 : pH, Electrometric"/>	<input type="text" value="05/04/2010"/>	<input type="text" value="08:00:00"/>	<input type="text" value="05/04/2010"/>	<input type="text" value="14:30:00"/>	<input type="text" value="="/>	<input type="text" value="8"/>	<input type="text" value="SU"/>		

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Monthly SMR (MONRPT) report for May 2010

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This page contains a summary of all analytical and calculated data submitted manually and/or through file upload(s) for this report.

Sorting Order for Analytical and Calculated Results:

1. ▼
2. ▼
3. ▼
4. ▼
5. ▼
6. ▼

[Sort Results](#)

Analytical result ([go to Calculated Results](#))

Location	Parameter	Analytical Method	Qual	Result	Units	MDL	ML	RL	Sampling Date/Time	Analysis Date	Review Priority Indicator	QA Codes	Comment	Data Source
M-001	pH	pH, Electrometric	=	8	SU				05/04/2010 08:00:00	05/04/2010	No			Manual
M-001	Ammonia, Total (as N)	Data Unavailable	=	1	mg/L				05/01/2010 08:00:00	05/01/2010	No			may2010.zip
M-001	Antimony, Total	Data Unavailable	=	1	ug/L				05/01/2010 08:00:00	05/01/2010	No			may2010.zip

Violations

- Required to report violations
- Violation wizard
- Populates CIWQS record
- Log of who created and modified each record

Water Board Office: Region 1 - North Coast
 Monthly SMR (MONRPT) report for March 2010
 Status: Submitted Past Due

Case Worker: Rassam Zarghami
 Report Effective Dates: 03/01/2010 - 03/31/2010

Pollutant Category:

Self-Determined Violation Entry Screen

Effluent Violations (Select Parameter) Other Violation Types (Select Violation Type)

Parameter:	<div style="border: 1px solid gray; padding: 2px;"> PCB-1260 Pentachloroethane Pentachlorophenol Perchlorate pH </div>	<input type="text" value="OEV"/>
Occurrence Date:*	<input type="text" value="03/12/2010"/>	

Effluent Limit Exceedance			
Limit	Result	Units	LimitationPeriod
<input type="text" value="6.5"/>	<input type="text" value="6"/>	SU <input type="text"/>	Instantaneous Minimum <input type="text"/>

Violation Desc:

Comment *	Corrective Action *



Self Monitoring Report (SMR)

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Monthly SMR (MONRPT) report for March 2010

Report Effective Dates: 03/01/2010 - 03/31/2010

Status: Submitted Past Due

Pollutant Category:	
Self-Determined Violation Entry Screen	
<input type="radio"/> Effluent Violations (Select Parameter) <input checked="" type="radio"/> Other Violation Types (Select Violation Type)	
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	
Violation Type(new):*	Order Conditions ▼ ? Listing and Description of Violation Types
Occurrence Date:*	03/26/2010 ⌘
Violation Desc:	
Comment *	Corrective Action *
<div style="border: 1px solid gray; padding: 5px; min-height: 40px;"> Failed to take sample and analyze for copper as required by our permit do to sick staff. </div>	<div style="border: 1px solid gray; padding: 5px; min-height: 40px;"> Train back-up staff in taking these samples. </div>

Permit Monitoring Report (SMR)

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Reporting Level: Level II

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Order Number: 2009-test

Water Board Office: Region 1 - North Coast

Case Worker: Rassam Zarghami

Monthly SMR (MONRPT) report for March 2010

Report Effective Dates: 03/01/2010 - 03/31/2010

Status: Submitted Past Due

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- Waterboard Notes

[Add From Violation Module](#)

[Add Violation](#)

Click on the Violation ID to access the violation info.

Violation ID	Violation Date	Violation Type	Description	Corrective Action	Current Status	Last Modified By	Created By
870517	03/26/2010	Order Conditions	Failed to take sample and analyze for copper as required by our permit do to sick staff.	Train back-up staff in taking these samples.	Violation	Water Board Staff	Case Worker
870516	03/12/2010	Other Effluent Violation	pH Instantaneous Maximum limit is 6.5 SU and reported value was 6 SU.	Need to investigate industrial users	Violation	Water Board Staff	Case Worker
870480	03/16/2010	Category 2 Pollutant (Effluent Violation for Group 2 Pollutant)	1,1,1-Trichloroethane 1-Hour Average (Mean) limit is 2 acre-feet and reported value was 3 acre-feet.	Initiate study	Violation	Water Board Staff	Discharger

Statewide Implementation

- Outreach and Training Program
- Schedule

General Outreach & Training Plan





- 102 “Introduction to eSMR”
- 103a “One-to-Many Training”
 - Demo eSMR² System
 - Permittee Entry Template (PET)
 - Hands-on
- 103b “One-on-One Training”
 - In-depth Hands-on Training
 - PET Tool customization

eSMR² Rollout

- Goal: Majors submitting electronically by the end of the year

eSMR² Rollout



-  Majority of Dischargers: R3 Central Coast, R5 Redding, R5 Fresno
-  Majors Only: R4 Los Angeles, R5 Sacramento, R7 Palm Desert, R8 San Bernardino
-  Planned: Majors R1 North Coast, R6 South Tahoe, R6 Victorville, R9 San Diego
-  Not Scheduled: R2 San Francisco

eSMR² Rollout

- Training
- Initial Period of Dual Submissions (Paper and Electronic Reports)
 - Review Paper and Electronic Submissions
 - Check for Completeness
 - Paper Submission Enforceable
- 3 “Successful” Submissions
 - Data entered correctly
 - Reports are complete
- “Electronic Reports Only” Submittal Letter
 - Include electronic report completeness section

eSMR² Rollout

- Minors: 2011
- Same outreach and training approach

Future eSMR Enhancements

➤ eSMR2.5

- Flow DMR data to EPA's system
- Will likely be awarded Exchange Network grant
- Develop with eSMR User Group
- Anticipate completion mid-2011

Other Considerations

- Process can bring out differences in interpretation of permit
- Process can shed light on problematic submittals
- Change can be hard and time consuming

eSMR Resources

➤ Internet

- http://www.waterboards.ca.gov/water_issues/programs/ciwqs/chc_npdes.shtml

➤ CIWQS Help Center

- ciwqs@waterboards.ca.gov
- 1-866-79-CIWQS (24977)

➤ Jarma Bennett

- 916-341-5532
- jbennett@waterboards.ca.gov

Questions

eSMR Resources

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