

PHASE II SMALL MS4 PERMIT WORKSHOP



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State Water Resources Control Board
Division of Water Quality
May 2013



Overview

- Workshop Goals
- Permit Background
- Permit Requirements Overview and Resources
- Question and Answer Session

Workshop Goals



Provide program requirement overview



Provide program element guidance and available resources



Break down more complex requirements

Background - Storm Water Regulation



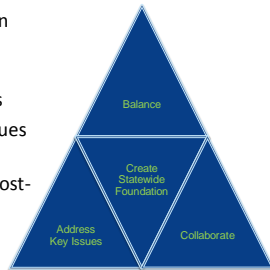
- Discharge of pollutants to water of the United States from any point source is unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit

Background - Permit Schedule



Background - Stakeholder Process

- Create statewide foundation
- Collaborate with Regional Boards, Small MS4s, Non-governmental organizations
- Address stakeholder key issues and concerns
- Balance water quality and cost-effectiveness



Background - Objectives

- 1) Focus on water quality issues after projects are built
 - Post-Construction
- 2) Focus on cost-effective requirements that provide multiple benefits
 - Low Impact Development
- 3) Target high priority water bodies
 - Areas of Special Biological Significance (ASBS)
 - Total Maximum Daily Loads (TMDLs)



Permit Requirements

- Application Requirements
- Program Management
- Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination**
- Construction
- Pollution Prevention/Good Housekeeping
- Post-Construction**
- Monitoring**
- Program Effectiveness and Assessment



Application Requirements

- Notice of Intent (NOI)
- Permit Boundary Map
- Guidance Document
- Applicable Fee



General Process

STEP 1: Fill out the NOI information, upload the guidance document and Phase II permit boundary map online via SMARTS.

STEP 2: Once the NOI is complete and the guidance document and boundary map are uploaded, make sure it is the LRP* that submits the NOI online (this is considered certification). Mail in appropriate fee.

STEP 3: Submit wet signature of any LRP or DAR** that may submit a report to the State Water Board prior to submittal/certification of annual reports.

* LRP – Legally Responsible Person
**DAR – Duly Authorized Representative

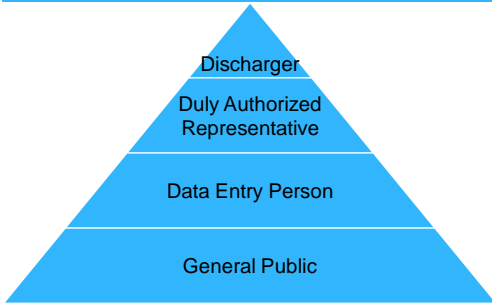
What is SMARTS?

- **Purpose:** Provide a platform where dischargers, regulators, and the public can enter, regulate, and/or comment on storm water data including NOIs, NOTs, compliance, and monitoring data.
- Internet-based
- Available 24/7
- Reports
 - SWRCB/RWQCB prioritize regulatory tasks (i.e. inspections, view trends in compliance, provide data to the Legislature).
 - Public reports - NOI, Inspections, Violations, and Enforcement data.

SMARTS Users

- State & Regional Water Board Staff
- External Users
 - Discharger or Permittee
 - Duly Authorized Representative
 - Data Entry Person
 - General Public

User Rights



Application Process

- Register for SMARTS Account
- Link Duly Authorized Representatives or Data Entry Persons
 - Optional
- Start a New Notice of Intent
- Upload Attachments
 - Guidance Document
 - Maps
- Certify and submit NOI

Create a SMARTS Account

<https://smarts.waterboards.ca.gov>

The screenshot shows the SMARTS LOGIN page. On the left, there is a welcome message and contact information for the Storm Water Section. On the right, there is a login form with fields for User ID and Password, a Login button, and links for 'New User: Start here' (with a red box around the 'Sign Up Button'), 'Forgot User ID or password?', and 'Public Access to NOI, SWPPPs & Annual Reports data'.

Create a SMARTS Account (con't)

Select the Account Type

The first step in the user registration process is the selection of user account type that you want to establish. SMARTS currently allows Entry Person (DEP) and Approved Signatory (AS). Click on the following links to review the definitions of LRP, DEP, and AS User accounts: [Construction User Account Definitions](#) | [Industrial User Account Definitions](#)

Please select one of the following:

Legally Responsible Person (LRP): I have read the definition of LRP and wish to establish a LRP User Account.

Data Entry Person (DEP): I have read the definition of DEP and wish to establish a DEP User Account.

Approved Signatory (AS): I have read the definition of AS and wish to establish a AS User Account.

If you have any questions or for further assistance, please contact SMARTS Help Desk at 1-866-563-3107 Monday thru Friday 8:00AM-5:00PM.

Create a SMARTS Account (con't)

Legally Responsible Person: Enter User Account Details

The next step in the registration process is to provide your user account details. The User ID along with a Password will be sent to the e-mail address. SMARTS will verify that the e-mail address is valid and accurate.

User Account Details (An * indicates a required field)

First Name:

Middle Name:

Last Name:

E-mail:

Phone: Ext:

User ID: The User ID is available (Enter user ID between 8-15 characters)

Password:

Business Agency Details:

Business Type: Private Business

Business Name:

Business Address: USA Address International Address

Street Address: (Enter PO Box in Street Address field)

Address Line 2:

City, State & Zip: Zip:

Country:

Federal Tax ID: (99-9999999)

Enter User Details

Create a SMARTS Account (con't)

Identification Verification Security Questions:

Please select and answer the identification Verification Security questions below. These questions will be asked in the event you misplace your password.

Security question:

Security question:

Security question:

Security question:

Security question:

Image Security Letters: (Secure Image Letters are not case sensitive)

Create a SMARTS Account (con't)

Acknowledgement
 This completes your user registration process. Your user account has been successfully created in SMARTS.
 Your User ID, Password, and instructions for logging into SMARTS have been sent to you via e-mail.
 Please check your e-mail account and log into SMARTS using the User ID and Password provided.
 If the e-mail is not received within a reasonable amount of time, please contact the Storm Water Help Desk at the phone number provided below.
 To log into SMARTS, enter the following address into your browser or click on the link: <https://smarts.waterboards.ca.gov/>
 If you have any questions or for further assistance please contact SMARTS Help Desk at 1-866-563-3107 Monday thru Friday 8:00AM - 6:00PM or helpdesk@smarts.waterboards.ca.gov

Back to Registration/Login Screen

John Doel
 Metal Recycling Inc.
 3737 Main Street Suite 500
 Riverside CA 92501

To complete your User Account Registration for the Storm Water Program, you must login at the State Water Boards website at:
<https://smarts.waterboards.ca.gov/> using the following User ID and Password:

User ID: stormwater2012
 Password: 5c39f4

After you complete your User Account Registration, you will be able to manage your User Account, file a new NOI or annual report, update existing NOI information, etc. You will also be able to allow other people (such as employees and/or consultants) to have limited access to your account or to specific NOIs as a "Data Submitter". To do this, the data submitters must first complete their own User Account Registration, and provide you their User ID, so you can link them to your organization.

If you have any questions, please contact SMARTS Help Center: 1-866-563-3107.

Create a SMARTS Account (con't)

Log in & Reset Password

Change Password
 Your password has expired, please update your password. This page allows you to reset your password.

User ID: stormwater2012
 Name: John Doe
 Old Password: ***** * Enter your current password.
 New Password: ***** * New Password length should be between 7 and 12.
 Confirm New Password: *****

*Red * are required fields.*

© 2011 State of California

Note: User ID and Password are case sensitive

Main Menu

Storm Water Multiple Application Reporting and Tracking System - SMARTS

Security Screen Only

| | | | | |
|---------------------------------|----------------------------------|---------------|--------------------------|--------------------------|
| Select Program to Access | Recently Assessed Records | | | |
| Construction General Permit | Application ID | Document Type | Facility Name | Status |
| Industrial General Permit | 434103 | NOI | Test Construction Site | Active |
| Municipal Phase I Permit | 3410 | COI | Test Construction Site | Submitted to Water Board |
| Municipal Phase II Permit | 34512 | NOI | Test Industrial Facility | Not Submitted |
| California | 534103 | NOT | Blue Ray Turms | Denied |
| Annual Report | | | | |
| Manage Linked Users | | | | |
| Recertification | | | | |
| CRPEL Sic Certification | | | | |
| Update User Profile | | | | |
| Public Search Menu | | | | |

Manage Linked Users

If this account does not belong to you, please log out.

User Account Management

This page allows you to manage the Legal Responsible Person/Approved Signatory/Data Entry Person associated with your account.

[Link this User Responsible Person/Approved Signatory/Data Entry Person to your Organization](#)

The following are the Legal Responsible Person/Approved Signatory/Data Entry Person(s) currently associated with your account to view/edit/delete the existing user account. (Click on User ID hyperlink)

| Name | User ID | Business Name | Role |
|------|---------|---------------|------|
|------|---------|---------------|------|

Enter the User ID of the person to link to the LRP account

If this account does not belong to you, please log out.

Link a Legal Responsibility Person/Approved Signatory/Data Entry Person

This page allows you to link a new Legal Responsible Person/Approved Signatory/Data Entry Person to your account.

User ID:

If you have questions regarding linking, please contact us at stormwater@waterboards.ca.gov or 1-866-663-3197.

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Link Additional Users (con't)

Select the Organization and Role to link the user to.

User Account Management Details

This page allows you to maintain the access and privileges of this Legal Responsible Person/Approved Signatory/Data Entry Person with respect to each user account details.

User Account details

Name: Steve Smith
 User ID: dsu01mtr
 Business Name: Smith Consulting Services
 Contact Phone: 866-663-3197
 Email: stormwater@waterboards.ca.gov

Your Organization(s) linked to dsu01mtr

| Organization Id | Organization Name | Role |
|---|-------------------|------|
| Organization Name: <input type="text" value="518095 - Metal Recycling Inc"/> <input type="button" value="X"/> Role: <input type="text" value="Data Entry Person"/> <input type="button" value="X"/> | | |

Click on the Organization Id to view the list of WVIDs associated with the respective organization and assign role to the user with respect to the WVID.

Link Additional Users (con't)

Click on Organization ID to activate the Application ID field. Then select the application or WVID number to link.

User Account Management Details

This page allows you to maintain the access and privileges of this Legal Responsible Person/Approved Signatory/Data Entry Person with respect to each WVID. You can also define from your business or specific WVIDs.

User Account details

Name: Steve Smith
 User ID: dsu01mtr
 Business Name: Smith Consulting Services
 Contact Phone: 866-663-3197
 Email: stormwater@waterboards.ca.gov

Your Organization(s) linked to dsu01mtr

| Organization Id | Organization Name | Role | WVID | WVID Name | WVID Description | WVID Address | WVID Status | WVID Date |
|---------------------------------------|---------------------|-------------------|------|-----------|------------------|--------------|-------------|-----------|
| <input type="button" value="518095"/> | Metal Recycling Inc | Data Entry Person | | | | | | |

Click on the Organization Id to view the list of WVIDs associated with the respective organization and assign role to the user with respect to the WVID.

Facility(ies) linked to selected Organization

| Facility Name | Facility Address | WVID | WVID Name | WVID Description | WVID Address | WVID Status | WVID Date |
|------------------------|------------------|------|-----------|------------------|--------------|-------------|-----------|
| <input type="button"/> | | | | | | | |

Link Additional Users (con't)

The application is successfully linked to the person when it appears in the table.

| Organization ID | Organization Name | State | Update | Delete |
|-----------------|----------------------|-------|------------------------|------------------------|
| 416102 | Metall Recycling Inc | CA | Update | Delete |

Click on the Organization ID to view details of VOEs associated with the respective organization and assign role to the user with respect to the VOE.

| Application ID | WFO | County And Address | County And Address | State | Update | Delete |
|----------------|-------------|---|---|-------|------------------------|------------------------|
| 424242 | 9 228923801 | Metall Recycling Inc 3737 Main Street Suite 500 Riverside CA 92501 | Metall Recycling Inc 3737 Main Street Suite 500 Riverside CA 92501 | CA | Update | Delete |

Start a New Application

Storm Water Multiple Application Reporting and Tracking System - SMARTS

[Home](#) | [About](#) | [Help](#) | [Contact Us](#) | [Privacy Policy](#) | [Terms of Use](#)

Navigation Menu

- Select Program for Access
- Construction General Permit
- Industrial General Permit
- Municipal Phase I Permit
- Municipal Phase II Permit
- Caltrans
- Annual Reports
- Manage Linked Users
- Registration
- CRP/CA Lic Certification
- Update User Profile
- Public Search Menu

Storm Water Multiple Application Reporting and Tracking System - SMARTS

Phase II Menu

| Applications You Are Associated With | Application ID | WFO | Type | County/Address | Status | Annual Report |
|--------------------------------------|----------------|--------------|----------|---|--------|---------------|
| | 05076 | 7 12AC205404 | Phase II | Metall Recycling Inc 3737 Main Street Suite 500 Riverside CA 92501 | Active | Start |
| | 05000 | 7 12AC205404 | Phase II | Metall Recycling Inc 3737 Main Street Suite 500 Riverside CA 92501 | Status | Start |

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Start a New Application (con't)

Select the Organization

Please select the owner/operator of the new NOI from the following Businesses which you represent.

Select Address

- Metall Recycling Inc 3737 Main Street Suite 500 Riverside CA 92501
- Business not found in the list. I would like to register a new business.

[Back](#) | [Next](#)

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Start a New Application (con't)

Enter contact information

NOTICE OF INTENT - Owner Information

The Notice of Intent (NOI) is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the NOI at a later time, please click [here](#).

WDID: County Discharger Owner: County Discharger Status of Document: Not Submitted
 a01f sacramento CA 959999999 a01f sacramento CA 959999999 Certified Date:

Permit Type: Phase II Small MS4 Site: Status of Document: Not Submitted

Owner Info **Additional Info** **Billing Info** **Attachments** **Certification** **Print** **Status History**

Property Owner Information. Populate Contact Info: Select

| | | | |
|----------------------|-------------------------|---------------------|--------|
| Operator/Owner Name: | County Discharger | Contact First Name: | |
| Street Address: | a01f | Contact Last Name: | |
| Address Line 2: | | Title: | |
| City/State/Zip: | sacramento CA 959999999 | Phone: | * Ext: |
| Type: | County Discharger | E-mail: | |
| Federal Tax ID: | | | |

Fields marked with * are mandatory fields.



Start a New Application (con't)

Owner Info **Additional Info** **Billing Info** **Attachments** **Certification** **Print** **Status History**

General Information

Did you have coverage under the previous Phase II Small MS4 permit? No

What is the population served by the jurisdiction? 23455

Is the jurisdiction a Traditional or Non-Traditional Small MS4? Traditional

Is the jurisdiction applying for permit coverage with one or more co-permittees? No

Are you applying for the Small MS4 Waiver? Yes

Waiver Criteria

Option 1

(a) The jurisdiction served by the system is less than 1,000 people;
 (b) The system is not contributing substantially (as defined in Finding 26) to the pollutant loadings of a physically interconnected regulated MS4; and
 (c) If the small MS4 discharges any pollutants identified as a cause of impairment of any water body to which it discharges, storm water controls are not needed part of a U.S. EPA approved or established TMDL that addresses the pollutant(s) of concern.

Option 2

(a) The jurisdiction served by the system is less than 10,000 people;
 (b) The Regional Water Board has evaluated all waters of the U.S. that receive a discharge from the system;
 (c) The Regional Water Board has determined that storm water BMPs are not needed based on WLAs that are part of a U.S. EPA approved or established TMDL pollutant(s) of concern or an equivalent analysis; and
 (d) The Regional Water Board has determined that future discharges from the Regulated Small MS4 do not have the potential to result in exceedances of water quality.

Option 3 (Applicable to Small MS4s outside an Urbanized Area only)

Small Disadvantaged Community - The Regulated Small MS4 certifies that it is a community with a population of 20,000 or less with an annual median household income that is less than 80 percent of the statewide annual MSA (Met. Code, § 17969.5, subd (a)).

Does the jurisdiction discharge to an approved TMDL?



Start a New Application (con't)

Enter the Billing Address information.

NOTICE OF INTENT - Billing Information

The Notice of Intent (NOI) is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the NOI at a later time, please click [here](#).

WDID: County Discharger Owner: County Discharger Status of Document: Not Submitted
 a01f sacramento CA 959999999 a01f sacramento CA 959999999 Certified Date:

Permit Type: Phase II Small MS4 Site: Status of Document: Not Submitted

Owner Info **Additional Info** **Billing Info** **Attachments** **Certification** **Print** **Status History**

Billing Information If different, enter below:

| | | | |
|-----------------|----|---------------------|--------|
| Billing Name: | | Contact First Name: | |
| Street Address: | | Contact Last Name: | |
| Address Line 2: | | Title: | |
| City/State/Zip: | CA | Phone: | * Ext: |
| | | E-mail: | |

Fields marked with * are mandatory fields.



Start a New Application (con't)

SMARTS File Upload

| File Size | Estimated Time |
|-------------------|----------------|
| 1 MB | 3 - 5 min |
| 25 MB | 10 - 20 min |
| 75 MB (max. size) | 25 - 30 min |

Start a New Application (con't)

Refresh screen to view uploaded attachments

| Attachment ID | File Type | File Size | File Desc. | Part # | Date Attached | Action |
|---------------|-----------|-----------|------------------------|--------|---------------|--------|
| 010002 | NOI | 30000 | 30000 copy of contents | 10 | 03/22/2012 | Delete |

Start a New Application (con't)

Run the completion check and fix and errors.

Perform Completion Check

Notice Of Intent Completion Check Results

Error Message: EIOX000000: Emission# EIOX CODE may not be complete.

EIOX CODE may not be complete. EIOX CODE may not be complete. EIOX CODE may not be complete.

NOI application checked for completeness and appears to be incomplete.

This cannot create the NOI file. Please correct the errors shown above.

Start a New Application (con't)

[\[Preview Fee Statement\]](#) [\[Preview NOI\]](#)

NOI Application checked for completeness and appears to be Complete.
You can now certify this Notice of Intent by completing the form below:

| Approve | Certification & Submission check list |
|--------------------------|--|
| <input type="checkbox"/> | I am also aware that my user ID and password constitute my electronic signature and any other electronic signature is the legal equivalent of my handwritten signature. My signature on this and that I will not delegate or share it with any other person. Should I wish to delegate such a SMARTS of such delegation within 10 days of the delegation, I further certify that I will advise Board, within ten business days of discovery, if I suspect that my electronic signature has been used. |
| <input type="checkbox"/> | I certify under penalty of law that this document and all attachments were prepared under the personal supervision, guidance and control of me or under the direct supervision and control of a person who I certify has the same level of knowledge, experience and ability as me. Based on my inquiry of the gathering the information, the information submitted is, to the best of my knowledge and belief, true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. |

Certifier Name: Storm Water Admin
 Certifier Title:
 Date: 05/03/2013
[\[Certify Notice of Intent\]](#)
[\[Certify Later\]](#)

Print out the Fee Statement and mail with a check to the Water Boards.

To submit the application click Certify Notice of Intent.

Fee Statement
Application Id # 437174

Facility/Site

Thank you for submitting the Permit Registration Documents (PRD) for the facility/site referenced above. Before a WQID number is assigned an Application Fee of \$0.00 must be received by July 02, 2013. If the Storm Water Section does not receive your application fee of \$0.00 by July 02, 2013 your PRDs will be returned.

Please make checks payable to: SWRCB

Mail this Fee Statement with an original signature and \$0.00 to:

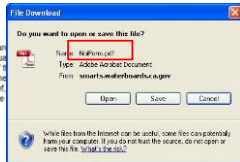
Regular Mailing Address:
SWRCB
Storm Water Section
PO Box 1977
Sacramento, CA 95812-1977

Overnight Mailing Address:
SWRCB
Storm Water Section
1001 I Street - 101 Floor
Sacramento, CA 95814

I certify under penalty of law that this document and all attachments were prepared under the personal supervision, guidance and control of me or under the direct supervision and control of a person who I certify has the same level of knowledge, experience and ability as me. Based on my inquiry of the gathering the information, the information submitted is, to the best of my knowledge and belief, true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Fee Statement

Must have Adobe Acrobat Reader installed



Start a New Application (con't)

On screen and email conformation the NOI was submitted.

NOTICE OF INTENT - Certification

This notice of intent (NOI) is organized into different sections. Please complete all applicable sections before submitting the form. If you want to complete the NOI at a later time, please click on 'Save & Exit'.

| | | | | | |
|----------------|--------------------------------|------------------|--|-----------------|-------------|
| WQID: | Operator: Water Recycling Inc. | Status: | Submitted to Water Board | Processed Date: | 05/03/2013 |
| Business Type: | Region 3 - Storm Water Permit | Facility: | 2737 New Street Suite 300 Sacramento, CA 95831 | Certified Date: | 05/03/2013 |
| Operator Web: | Ready Web: | Back Office Web: | SmartS Web: | SmartS Web: | SmartS Web: |

Your submitted Notice of Intent has been successfully received by the Storm Water Resource Center's website. Your certification information for this application is as follows:

| | |
|---------------------------|-------------------------------|
| Application No: | 42432 |
| Type: | Region 3 - Storm Water Permit |
| Submitted/Certified Date: | 05/03/2013 |
| Certifier Name: | John Dine |
| Certifier Title: | |

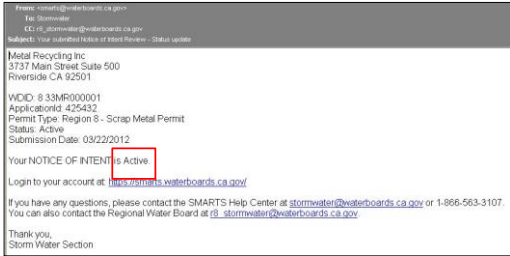
Please print this notice as proof of certification. You will be allowed to make any further changes to this certified report. If you need to correct any information you must contact our Regional Board. All records must be retained for 3 years from the date of the report or expiring schedule.

SUBMISSION LOG: 05/03/2013

Your NOTICE OF INTENT with the above details was submitted to the Water Boards
 Water Boards will be reviewing the submitted documents. To view the status of this application, please login to your account at: <http://smartswaterboards.ca.gov/>
 If you have any questions, please contact the SMARTS Help Center at stormwater@waterboards.ca.gov or 1-866-583-3107.
 You can also contact the Regional Water Board at stormwater@waterboards.ca.gov
 Thank you,
 Storm Water Section

Pending Applications (con't)

NOI application approved email conformation.



Annual Report/Monitoring

- ❑ Screens being developed
- ❑ Batch upload of monitoring data

Storm Water Multiple Application Reporting and Tracking System - SMARTS

Applications View Are Associated With:

| Application ID | WQID | Type | Owner/Operator | Status | Annual Report |
|----------------|--------------|----------|---|--------|---------------|
| 056776 | 7-3492368004 | Phase II | Twp County 3201 Street Sacramento, CA 95814 | Active | Start |
| 056886 | 7-3292368004 | Phase II | Twp County 3201 Street Sacramento, CA 95814 | Status | Start |

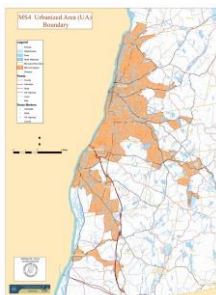
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SMARTS Help Desk

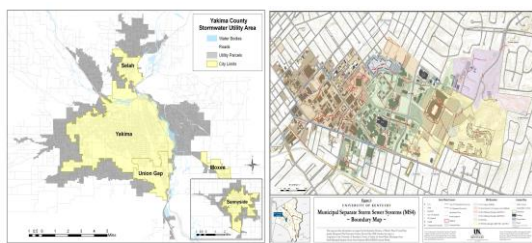
- ❑ State Water Resources Control Board
 - ❑ stormwater@waterboards.ca.gov
 - ❑ (866) 563-3107

Permit Boundary Map

- 2010 Census Data
- Cities: permit boundary = city boundary
- Counties: permit boundary = urbanized area and places identified in Attachment A located within their jurisdiction



Permit Boundary Map - Examples



Guidance Document

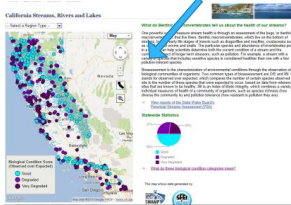
What is the purpose?

1. To provide the Permittee with a road map to compliance
2. For Renewal Permittees in particular, to assist in the prioritization of water quality issues
3. To provide the Water Boards and stakeholders with a better understanding of the Permittee's specific program



Fees

- Based on population size
 - Non – traditional: Resident and commuter
- Additional 21% surcharge (SWAMP)



E.6. Program Management

- Develop an overarching program management element to implement a coordinated storm water program
 - Adequate Legal Authority
 - Certification
 - Enforcement Response Plan (ERP)



E.7. Education and Outreach

- Develop and implement a comprehensive storm water education and outreach program
 - Public
 - Staff
 - Illicit Discharge Detection and Elimination
 - Construction
 - Pollution Prevention & Good Housekeeping



Public Education and Outreach

- Design program to reduce pollutant discharges in storm water runoff and non-storm water runoff discharges to the MS4
- Design program to measurably increase the knowledge and awareness of public
 - Storm drain system
 - Urban runoff
 - Non-storm water discharges

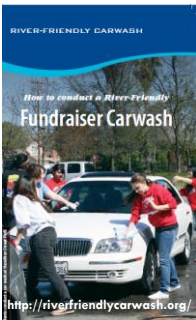


Resources and Guidance

- Storm water friendly landscaping
 - Ocean Friendly Landscaping
 - Bay Friendly Landscaping
 - River Friendly Landscaping
 - Our Water Our World



Resources and Guidance



- Car wash education
 - Car wash fundraisers
 - Vouchers
 - Sacramento Stormwater Quality Partnership's River Friendly Carwash Program

Resources and Guidance

- Environmental education groups, Resource Conservation Districts, other MS4 Permittees, local and state agencies



Click on a number to select your region.

www.creec.org



State of California
Department of Conservation

Water Quality Control Board
Water Pollution Control Administration
Water Resources Administration
Wildlife Resources Administration
Wildfire Resources Administration

Water Quality Control Board
Water Pollution Control Administration
Water Resources Administration
Wildlife Resources Administration
Wildfire Resources Administration

Resource Conservation Districts



Life in Our Watershed
Investigating Streams and Water Quality

www.sacsplash.org

E.8. Public Involvement and Participation

- Involve the public in the development and implementation of activities related to the storm water program



Overview

- Stream/beach/lake clean-ups
- Storm drain markings
- Volunteer monitoring
- Integrated regional water management and watershed planning efforts (IRWMP)



Resources and Guidance

Waterbody clean ups

Create opportunities for the public to participate in implementation of BMPs (Section E.8.ii.c)



Examples: Storm Drain Art



Examples: Rain Barrel Art



Examples: Citizen Monitoring

http://www.waterboards.ca.gov/water_issues/programs/swamp/cwt_volunteer.shtml



Citizen Monitoring Programs in California
Community Based Watershed Programs Related to Citizen Monitoring
Find a Citizen Monitoring Organization in Your Region



E.9. Illicit Discharge Detection and Elimination (IDDE)

- Develop an illicit discharge detection and elimination program to detect, investigate and eliminate illicit discharges into the MS4



Overview

- Outfall map
- Inventory
- Sampling
- Corrective actions
- Spill Response Plan

What is an illicit discharge?

- A discharge to an MS4 that is not composed entirely of storm water except permitted discharges and fire fighting related discharges 40 CFR 122.26(b)(2)



Illicit Discharge Sources

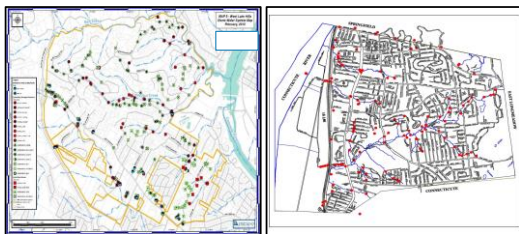
(from Center for Watershed Protection)

- **Illegal dumping practices**
- **Broken sanitary sewer line**
- **Cross-connections**
- Connection of floor drains to storm sewer
- Sanitary sewer overflows
- Inflow / infiltration
- Straight pipe sewer discharge
- Failing septic systems
- Improper RV waste disposal
- Pump station failure



Outfall Map

- Create and maintain an up-to-date and accurate outfall map



Inventory

- Maintain an inventory of illicit discharge sources/facilities that could discharge pollutants
- Identify priority areas
- Inventory industrial and commercial facilities and sources



Outfall Inventory

Section 1: Pollutant Inventory - In-Reach Facilities - Pollutant Inventory

| POLLUTANT | WATER BOARD | WATER BOARD | WATER BOARD |
|-----------|-------------|-------------|-------------|
| ... | ... | ... | ... |

Section 2: Pollutant Inventory - In-Reach Facilities - Pollutant Inventory

| POLLUTANT | WATER BOARD | WATER BOARD | WATER BOARD |
|-----------|-------------|-------------|-------------|
| ... | ... | ... | ... |

Section 3: Pollutant Inventory - In-Reach Facilities - Pollutant Inventory

| POLLUTANT | WATER BOARD | WATER BOARD | WATER BOARD |
|-----------|-------------|-------------|-------------|
| ... | ... | ... | ... |

Section 4: Pollutant Inventory - In-Reach Facilities - Pollutant Inventory

| POLLUTANT | WATER BOARD | WATER BOARD | WATER BOARD |
|-----------|-------------|-------------|-------------|
| ... | ... | ... | ... |

Source: Center for Watershed Protection

Sampling

- While conducting outfall mapping, sample any outfalls that are flowing or ponding (> 72 hrs)
- Dry weather sampling of outfalls identified as priority areas (Traditionals only)



Resources and Guidance

- IDDE Guidance Manual
- Joint EPA-funded project between CWP and University of Alabama
- 8 Program Components
- Desktop Methods
- Field and Lab Protocols
- Model Ordinance
- Technical Appendices
- Download at www.cwp.org or <http://cfpub.epa.gov/npdes/>



E.10 Construction Site Storm Water Runoff Control Program

- Develop, implement and enforce a program to prevent construction site discharges of pollutants and impacts on beneficial uses of receiving waters



Overview

- Construction Site Inventory
- Construction Plan Review and Approval Procedures
- Construction Site Inspection and Enforcement



Resources and Guidance

- CASQA Construction BMP Handbook
- Erosion & Sediment Control Field Manual
- Bay Area Stormwater Management Agencies Association (BASMAA) Start at the Source: A Design Guidance Manual for Stormwater Quality Protection

E.11. Pollution Prevention and Good Housekeeping

- Develop and implement a program to prevent or reduce the amount of pollutant runoff from Permittee operations



Overview

- Inventory, map and assess facilities
- Develop SWPPPs for hotspots
- Inspect, visually monitor (remedial action)
- Assess, prioritize and maintain storm drain system
- O & M
- Water quality and habitat enhancement of flood management facilities
- Landscape design and maintenance

Resources and Guidance

- Water Efficient Landscape Ordinance (WELO)
- CWP guide on Urban Subwatershed and Site Reconnaissance (available as free download)
- DPR 11-004 Prevention of Surface Water Contamination by Pesticides (DPR 2010)



E.12. Post-Construction

- Reduce runoff and pollutants associated with development projects
- Prioritize the use of LID and site design measures
- Requirements based on Assessment and Maintenance of Watershed Processes, multiple benefit projects encouraged and incentivized



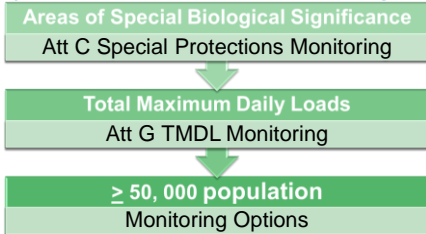
Resources and Guidance

- Post-Construction Calculator (SMARTS)
- Low Impact Development Manual for Southern California
- CASQA Stormwater Best Management Practice Handbook, New Development and Redevelopment
- River-Friendly Landscaping
- Municipal Regulatory Update Assistance Program (MRUAP)



E.13. Water Quality Monitoring

- Develop and implement monitoring program to focus on priority water bodies and assess BMP implementation and condition of receiving waters



Overview Monitoring Options

- E.13.d.1. Receiving Water Monitoring; OR
- E.13.d.2. Special Studies
- All monitoring can be done through regional, collaborative efforts
- All data submitted via CEDEN templates to SMARTS



Receiving Water Monitoring

| Site | Objective | Question | Hypothesis |
|-----------------------|--|--|---|
| Urban/Rural Interface | Monitor receiving water quality at upstream location in area undergoing development. | Does receiving water quality change as LID BMPs are integrated into new development? | Receiving water quality will remain the same as new development proceeds. |

Receiving Water Monitoring

| Site | Objective | Question | Hypothesis |
|------------|--|---|---|
| Urban Area | Monitor receiving water quality at a downstream location in an urban area. | Does receiving water quality improve as a result of efforts to control the sources of pollution and educate the public? | Receiving water quality will improve over time as storm water and other water quality programmatic efforts are implemented. |

Special Studies

- Alternative to Receiving Water Monitoring
 - Assessment of effectiveness of habitat enhancement efforts, stream restoration projects
 - Assessment of effectiveness of LID pilot projects, storm water program components



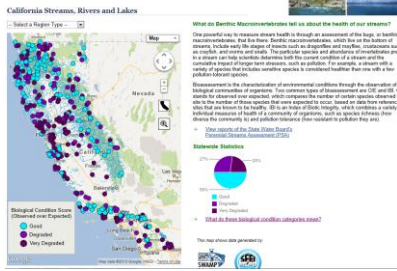
Monitoring and Program Effectiveness

Program Effectiveness Assessment Outcome Levels

- 1) Storm Water Program Activities (2003 permit)
- 2) Behavior
- 3) Pollutant Load Reductions
- 4) MS4 Discharge Quality
- 5) Receiving Water Conditions



Resources and Guidance



E.14. Program Effectiveness and Assessment

- Develop and implement a Program Effectiveness Assessment program to evaluate your storm water program
 - Prioritized BMPs
 - Local pollutants of concern



Overview

- Program Effectiveness Assessment and Improvement Plan (PEAIP)
- Storm Water Program Modifications



Resources and Guidance



Municipal Storm Water Program Effectiveness Assessment Guidance (CASQA 2007)



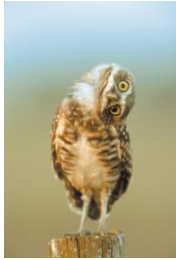
E.15. TMDLs

- Comply with all applicable TMDLs approved pursuant to 40 CFR section 130.7 that assign a waste load allocation to the Permittee and that have been identified in Attachment G
- One year consultation period
 - Water Boards and Permittees

Annual Reporting

- Certification of completion
- Summary of activities
- Brief discussion of program effectiveness
- SMARTS

Questions?



Contact

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