PHASE II SMALL MS4 PERMIT WORKSHOP

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State Water Resources Control Board
Division of Water Quality
May 2013

Water Boards
CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

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

| 1972 Clean Water Act Amendments	1987 Clean Water Act Amendments	1990 Phase I Regulations	1999 Phase II Regulations

- 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

1st Draft Released June 2011   **2nd Draft Released** May 2012   **Board Hearing** August 2012   **Board Workshop** January 8, 2013

Stakeholder Meetings November 2011 – April 2012   **Staff Workshops** June 2012   **3rd Draft Released** November 2012   **Adoption Meeting** February 5, 2013

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

Balance

Create Statewide Foundation

Address Key Issues

Collaborate
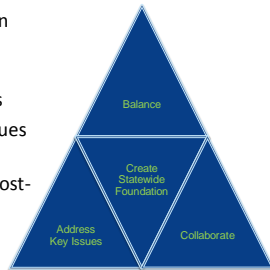
Background - Objectives

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

Discharger

Duly Authorized Representative

Data Entry Person

General Public

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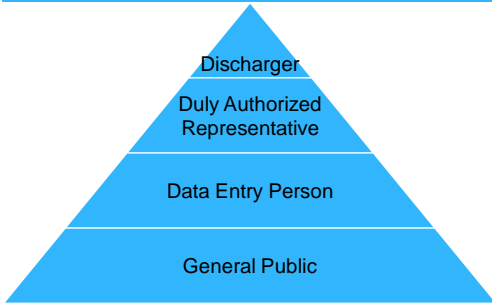
Application Process

□ 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

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Create a SMARTS Account

https://smarts.waterboards.ca.gov

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Create a SMARTS Account (con't)

Select the Account Type

Create a SMARTS Account (con't)

Enter User Details

Create a SMARTS Account (con't)

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 - 5:00PM, or

Back to Registration/Login Screen

John Doe
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: 5tc9F4

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 IDs 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 res

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 :		*

Update
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

***MockUp Screen Only

Select Program to Access	Recently Accessed 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	341012	NOI	Test Industrial Facility	Not Submitted
Caltrans	534103	NOT	Blue Ray Tyres	Denied
Annual Reports				
Manage Linked Users				
Recertification				
CBPELSG Certification				
Update User Profile				
Public Search Menu				

Manage Linked Users

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

Link Additional Users (con't)

Select the Organization and Role to link the user to.

Link Additional Users (con't)

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

Link Additional Users (con't)

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

Start a New Application

Start a New Application (con't)

Select the Organization

Start a New Application (con't)

Enter contact information

Start a New Application (con't)

Start a New Application (con't)

Enter the Billing Address information.

Start a New Application (con't)

Start a New Application (con't)

Refresh screen to view uploaded attachments

Start a New Application (con't)

Run the completion check and fix and errors.

Start a New Application (con't)

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

□ Must have Adobe Acrobat Reader installed
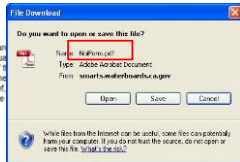
Start a New Application (con't)

On screen and email conformation the NOI was submitted.

Pending Applications (con't)

NOI application approved email conformation.
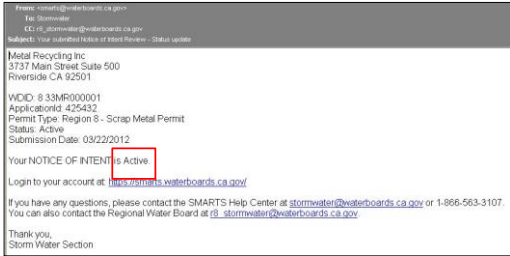
Annual Report/Monitoring

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

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

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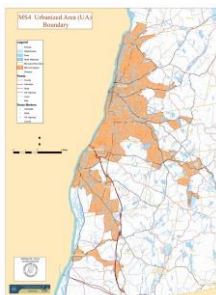
Permit Boundary Map - Examples

Traditional   Non-traditional
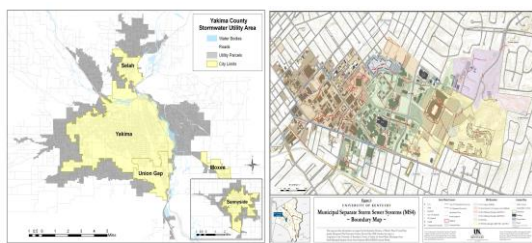
Guidance Document

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)
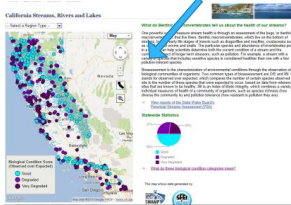
E.6. Program Management

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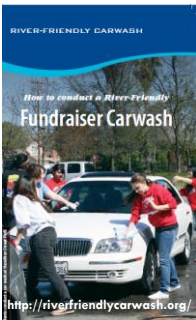
- ☐ Car wash education
  - ◻ Car wash fundraisers
  - ◻ Vouchers
  - ◻ Sacramento Stormwater Quality Partnership's River Friendly Carwash Program

Resources and Guidance

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

www.creec.org   Resource Conservation Districts   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

2013 California Citizen Monitoring Groups

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
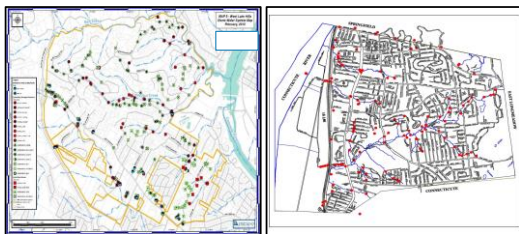
Inventory

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

Outfall Inventory

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**

Photo Credit: avixyz

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**

Areas of Special Biological Significance
Att C Special Protections Monitoring

Total Maximum Daily Loads
Att G TMDL Monitoring

≥ 50, 000 population
Monitoring Options
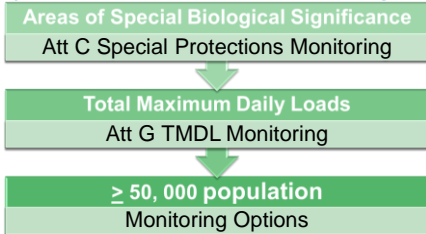
Overview Monitoring Options

□ 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
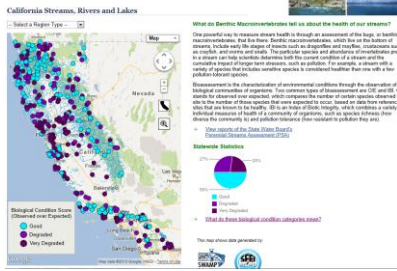
E.14. Program Effectiveness and Assessment

- **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)

6 – Receiving Water Quality
5 - MS4 Discharge Quality
4 - Pollutant Load Reductions
3 - Behavior
2 - Awareness
1 - Program Activities

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?
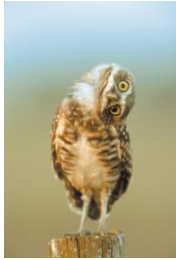
Contact

stormwater@waterboards.ca.gov
(Include "Phase II Small MS4" in subject line, please)

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