CONTRA COSTA CLEAN WATER PROGRAM

CONSTRUCTION INSPECTIONS WORKSHOP

MRP Provision C.6

LARRY WALKER ASSOCIATES Science. Policy. Solutions.

April 17, 2018

Welcome

Cell phones

Restrooms

Questions

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Disclaimer

- The mention or image of commercial products or services should not be construed as an actual or implied endorsement or recommendation.

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Training Agenda

Session	Time
Check-in and complete survey	9:00-9:30
Introduction and Welcome	9:30-9:40
Stormwater Protection Principles for Construction Site Management	9:40-9:50
MRP Provision C.6 Refresher, the Basics	9:50-10:10
BMPs and Resources	10:10-10:50
Break	10:50-11:00
Inspections and Documentation Best Practices and Tools	11:00-11:20
BMPs Using the Inspector's Eye	11:20-11:45
Wrap-up – questions, survey, and evaluation	11:45-Noon

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CONTRA COSTA CLEAN WATER PROGRAM

STORMWATER PROTECTION PRINCIPLES FOR CONSTRUCTION SITE MANAGEMENT

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BMP Principles

Layers Of Controls Protect Local Creeks and Bays

Urban runoff ordinance
- Protects water quality
  - Non-stormwater discharge provisions

Outreach to all projects
- BMPs to minimize erosion and pollutant discharges

C.6 projects
- Site specific plan to protect water quality

CGP projects
- State NPDES permit

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BMP Principles

Basic Principles of Stormwater Quality Protection

- **Plan** for stormwater protection
- **Use and maintain BMPs** at appropriate levels year-round
  - **Minimize** pollutant exposure
    - Don't expose potential pollutants to wind and rain
  - **Protect** exposed pollutants
    - Keep pollutants from being washed or blown away
- **Use BMPs in layers** to protect water quality and plan for accidents

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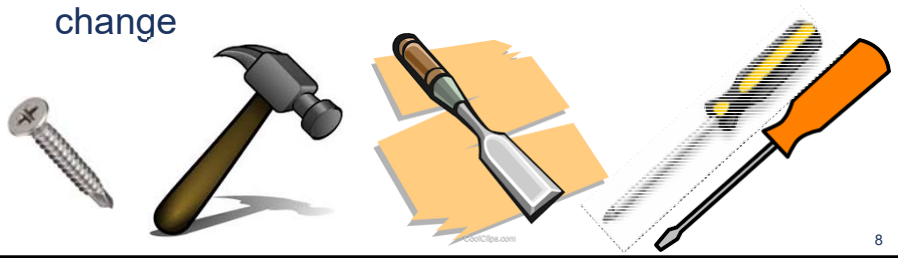
BMP Principles

Planning for Stormwater Protection

- BMPs are the tools that are used for stormwater protection
- BMPs must be deployed in the right place and at the right time
- Construction sites are dynamic so BMPs will need to be updated as schedules and conditions change



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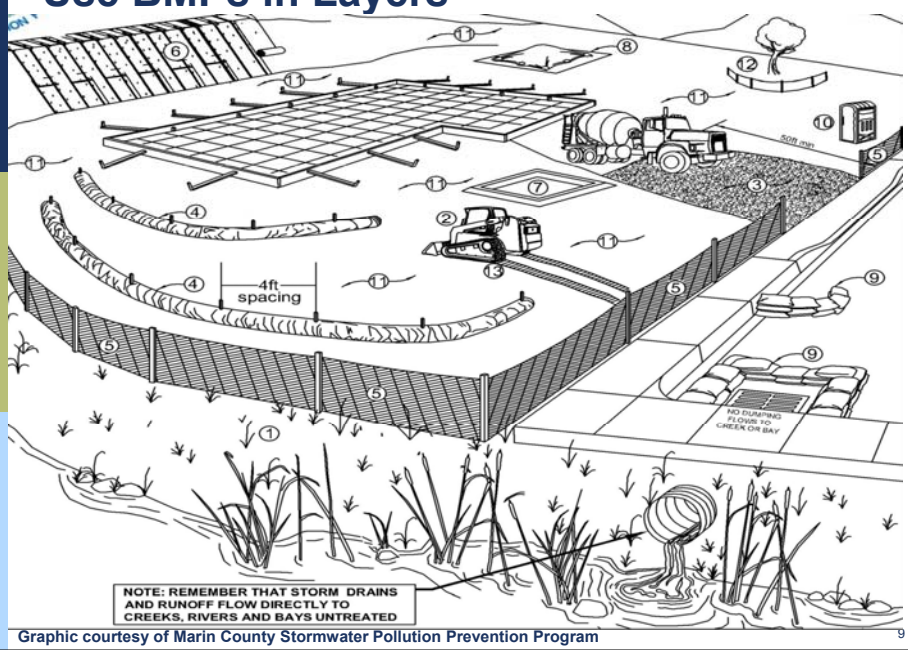
BMP Principles

Use BMPs in Layers



Graphic courtesy of Marin County Stormwater Pollution Prevention Program

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BMP Principles

Common Sources of Water Pollutants on Construction Sites

Material/Activity	Pollutant	Effect on Creeks
Grading/soil disturbance	Sediment	Fills spawning gravels, clogs gills, impairs ability to hunt
Concrete wastewater	pH	Toxic to aquatic life
Concrete wastewater Vehicle fueling & maintenance	Metals	Toxic to aquatic life
Paints and solvents	Synthetic organic compounds	Toxic to aquatic life
Landscape trimmings and fertilizers	Nutrients	Causes algal blooms, depletes oxygen
Landscape trimmings	Biochemical oxygen demand	Depletes oxygen
Asphalt/Paving Vehicle fueling & maintenance	Oil & grease	Causes sheen, toxic to aquatic life

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BMP Principles

Connecting The Dots Between BMPs and Activities

Construction Activities

- Grading
- Concrete
- Trash
- Clearing
- Painting
- Fueling
- Landscaping materials

General BMP Categories

- Erosion Controls
- Sediment Controls
- Good Housekeeping
  - Good site management
  - Non-stormwater management)

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MRP PROVISION C.6 REFRESHER, THE BASICS

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C.6 Review

Municipal Regional Permit (MRP) 2.0

- All local jurisdictions are responsible for implementing programs to protect the quality of discharges from their stormwater drainage systems
- Provision C.6 of the MRP requires Permittees implement a construction site control program to prevent construction site discharges of pollutants and impacts on receiving waters

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C.6 Review

Construction Site Control Requirements

- C.6.a – Legal Authority
- C.6.b – Enforcement Response Plan (ERP)
- C.6.c – Best Management Practices Categories
- C.6.d – Plan Approval Process
- C.6.e – Inspections, tracking and reporting
- C.6.f – Staff Training

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C.6 Review

C.6.a – Legal Authority

- Each jurisdiction is required to have the legal authority and ability to prevent discharges of pollutants and implement progressively stricter enforcement
  - Require effective stormwater pollutant controls
  - Oversee and inspect projects
  - Require expedient cleanup

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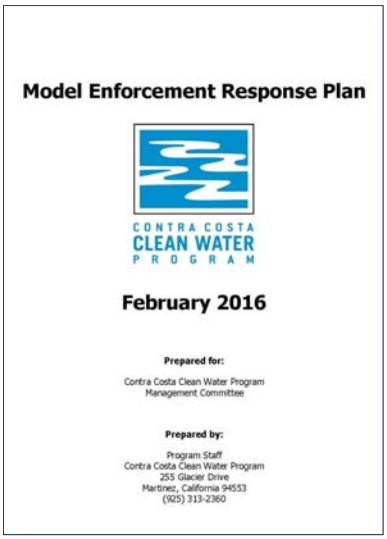
C.6 Review

C.6.b – Enforcement Response Plan (ERP)

- ERP provides guidance for inspectors on initiating and escalating enforcement actions
- Model prepared by the CCCWP can be customized by each municipality


Model Enforcement Response Plan

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February 2016

Prepared for:

Contra Costa Clean Water Program
Management Committee

Prepared by:

Program Staff
Contra Costa Clean Water Program
255 Glacier Drive
Martinez, California 94553
(925) 313-2360

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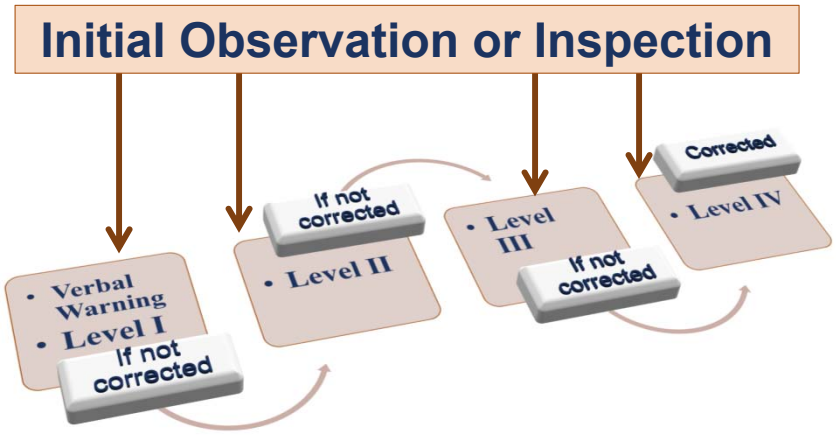
C.6 Review

Escalating Enforcement Process



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C.6 Review

What is Timely Correction?

- Actual discharges must be stopped immediately
- For other issues, implement actions before the next rain event but no later than 10 days after discovery
  - Temporary measures to mitigate the situation are considered corrective action
  - If temporary measures are used you may allow more time for permanent actions
- Document and provide a rationale for corrective action that takes longer than 10 days

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C.6 Review

C.6.c – Best Management Practices Categories

- All sites must implement BMPs in the following categories
  1. Erosion Control
  2. Sediment Control
  3. Run-on and Runoff Control
  4. Active Treatment Systems (as needed)
  5. Good Site Management
  6. Non-Stormwater Management

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C.6 Review

C.6.d – Plan Approval Process

- Before issuing a grading permit, review erosion control plan to ensure that it:
  - Conforms to the local grading ordinance and other local requirements
  - Contains seasonally appropriate and effective BMPs
- Confirm sites <u>one acre or more</u> have filed for coverage under the State CGP (has a WDID #)
- Provide education materials, as appropriate

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C.6 Review

C.6.e – Inspections

- Annual wet season notification by September 1
- Monthly inspections October – April
  - ≥ 1 acre sites, hillside projects, and high priority sites
- Review adequacy of BMPs and consistency with local ordinances
- Require timely corrections of actual or potential problems observed

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C.6 Review

Monthly Rainy Season Inspections Required

≥1 acre sites	Hillside projects	High priority sites
▪ Sites that disturb 1 acre or more of land (CGP sites)	▪ **Sites disturbing ≥5,000 sf of land that:** • **Meet local hillside development criteria** **Or** • **Are in local hillside development zones** • **Or** • **Where there are no local criteria, sites with ≥15% slope**	▪ Determined by the Regional Board or local jurisdiction • Erosion potential • Soil type • Slope • Size/type • Sensitivity/proximity of receiving water • NSWDs • Other factors

Rainy season is October - April

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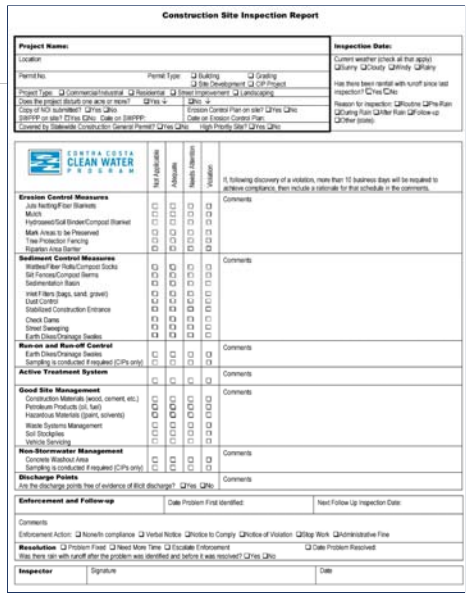
C.6 Review

C.6.e – Tracking

- Use written or electronic inspection form
  - Program developed a standard inspection form
- Track/log data
  - Inspection log must be made available to Regional Water Board during inspections or audits
- Follow ERP if violations are found



Construction Site Inspection Report

Project Name:

Location

Permit No. Permit Type: ☐ Building ☐ Grading ☐ Site Development ☐ CIP Project

Project Type: ☐ Commercial/Industrial ☐ Residential ☐ Street Improvement ☐ Landscaping

Does the project disturb one acre or more? ☐Yes → ☐No →

Copy of NOI submitted? ☐Yes ☐No Erosion Control Plan on site? ☐Yes ☐No

SWPPP on site? ☐Yes ☐No Date on SWPPP: Date on Erosion Control Plan:

Covered by Statewide Construction General Permit? ☐Yes ☐No High Priority Site? ☐Yes ☐No

Inspection Date:

Current weather (check all that apply) ☐Sunny ☐Cloudy ☐Windy ☐Rainy

Has there been rainfall with runoff since last inspection? ☐Yes ☐No

Reason for inspection: ☐Routine ☐Pre-Rain ☐During Rain ☐After Rain ☐Follow-up ☐Other (name)

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	Not Applicable	Adequate	Needs Attention	Violation	If, following discovery of a violation, more than 10 business days will be required to achieve compliance, then include a rationale for that schedule in the comments.
Erosion Control Measures					Comments
Job Hauling/Fuel Stockpile	☐	☐	☐	☐	
Mulch	☐	☐	☐	☐	
Hydroseed/Soil Binder/Compost Blanket	☐	☐	☐	☐	
Mark Areas to be Preserved	☐	☐	☐	☐	
Tree Protection Fencing	☐	☐	☐	☐	
Riparian Area Barrier	☐	☐	☐	☐	
Sediment Control Measures					Comments
Wattles/Fiber Rolls/Compost Socks	☐	☐	☐	☐	
Silt Fences/Compost Berms	☐	☐	☐	☐	
Sedimentation Basin	☐	☐	☐	☐	
Inlet Filters (bags, sand, gravel)	☐	☐	☐	☐	
Dust Control	☐	☐	☐	☐	
Stabilized Construction Entrance	☐	☐	☐	☐	
Check Dams	☐	☐	☐	☐	
Street Sweeping	☐	☐	☐	☐	
Earth Dikes/Drainage Swales	☐	☐	☐	☐	
Run-on and Run-off Control					Comments
Earth Dikes/Drainage Swales	☐	☐	☐	☐	
Sampling is conducted if required (CIPs only)	☐	☐	☐	☐	
Active Treatment System					Comments
	☐	☐	☐	☐	
Good Site Management					Comments
Construction Materials (wood, cement, etc.)	☐	☐	☐	☐	
Petroleum Products (oil, fuel)	☐	☐	☐	☐	
Hazardous Materials (paint, solvents)	☐	☐	☐	☐	
Waste Systems Management	☐	☐	☐	☐	
Soil Stockpiles	☐	☐	☐	☐	
Vehicle Servicing	☐	☐	☐	☐	
Non-Stormwater Management					Comments
Concrete Washout Area	☐	☐	☐	☐	
Sampling is conducted if required (CIPs only)	☐	☐	☐	☐	
Discharge Points					Comments
Are the discharge points free of evidence of illicit discharge? ☐Yes ☐No					

Enforcement and Follow-up Date Problem First Identified: Next Follow Up Inspection Date:

Comments

Enforcement Action: ☐ None/In compliance ☐ Verbal Notice ☐Notice to Comply ☐Notice of Violation ☐Stop Work ☐Administrative Fine

Resolution ☐ Problem Fixed ☐ Need More Time ☐ Escalate Enforcement ☐ Date Problem Resolved:

Was there rain with runoff after the problem was identified and before it was resolved? ☐Yes ☐No

Inspector Signature Date

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C.6 Review

C.6.e – Reporting

Information to be reported
a. # of active hillside sites <1 acre
b. # of sites ≥1 acre
c. # of active high priority sites <1 acre
d. # of inspections conducted
e. # and type of enforcement actions
f. # of illicit discharges (actual and inferred)
g. # of enforcement actions or discrete number of potential and actual discharges fully corrected

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C.6 Review

C.6.f – Staff Training

- Provide training or access to training for staff involved in construction site stormwater inspections
- Training to be provided at least every other year

☑ **Today's workshop meets the C.6.f training requirement**

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C.6 Review

Summary of MRP Provision C.6

- Review erosion control plans
- Inspect sites to confirm effective BMP implementation
- Perform follow-up and enforcement consistent with your agency's ERP to correct problems
  - Escalate enforcement as appropriate
- Report data that summarizes your effort and demonstrates the effectiveness of your construction program
- Train staff responsible for these tasks

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C.6 BMPS AND RESOURCES

BMPs

MRP required BMP categories

1. Erosion Control
2. Run-on and Runoff Control
3. Sediment Control
4. Active Treatment Systems (as necessary)
5. Good Site Management
6. Non-stormwater Management

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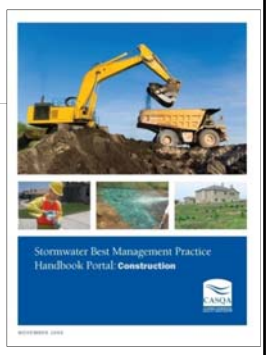
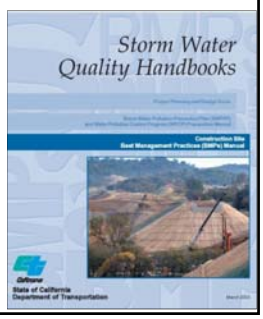
BMPs

BMP References

- CASQA California BMP Handbook, Construction, 2012 and subsequent updates
  - Available by subscription: http://www.casqa.org
- Caltrans Stormwater Quality Handbook, Construction Site BMP Manual, 2003
  - Available online at: http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm





Erosion Control BMPs

Erosion Control

- Protects soil and prevents soil particles from becoming detached by rainfall, flowing water or wind
- Soil protected as a resource
- Source controls that prevent soil from becoming a pollutant

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Erosion Control BMPs

Reducing Erosion

Soil Loss = R*K*LS*C*P

- Soil Loss or Erosion is a function of three factors
  - Rainfall intensity (R)
  - Soil type (K)
  - Length of Slope (LS)
- Erosion is mitigate by
  - Cover type (C)
  - Erosion control practice (P)
- Only LS, C, and P can be manipulated once a project starts
- R is affected by project time and duration

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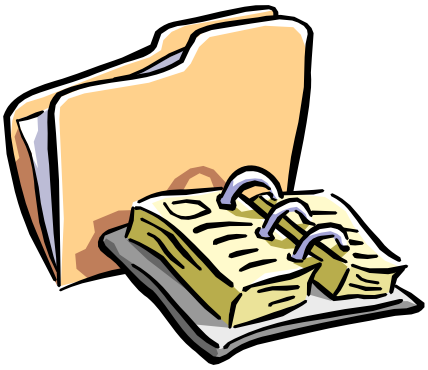
Erosion Control BMPs

Scheduling

- A sequence of construction activities and BMPs that considers local weather patterns
- Goal - reduce the area and duration of soil exposure
- Avoid work in the rainy season when feasible
- Track weather and modify activities accordingly



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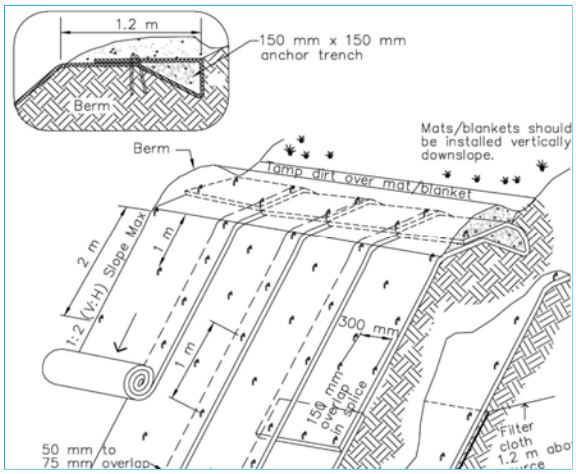
Erosion Control BMPs

Fiber (Erosion Control) Blankets



- Anchor top to secure blanket and prevent undercutting
- Install vertically downslope
- Overlap (shingle) panels
- Staple to secure to soil
- Do not stretch blanket

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Erosion Control BMPs

Avoid Entrapment

- Avoid erosion and sediment control products that contain plastic nets (fixed aperture)
  - Do not use products that contain plastic nets for BMPs that will be part of the final stabilization
- Use BMPs made of natural material without plastic nets

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Erosion Control BMPs

Natural Fiber
Net Blanket
Not fixed aperture

Netless Blanket

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Erosion Control BMPs

Soil Prep / Roughening

WATER SLIDE
Water flows faster down a smooth slope

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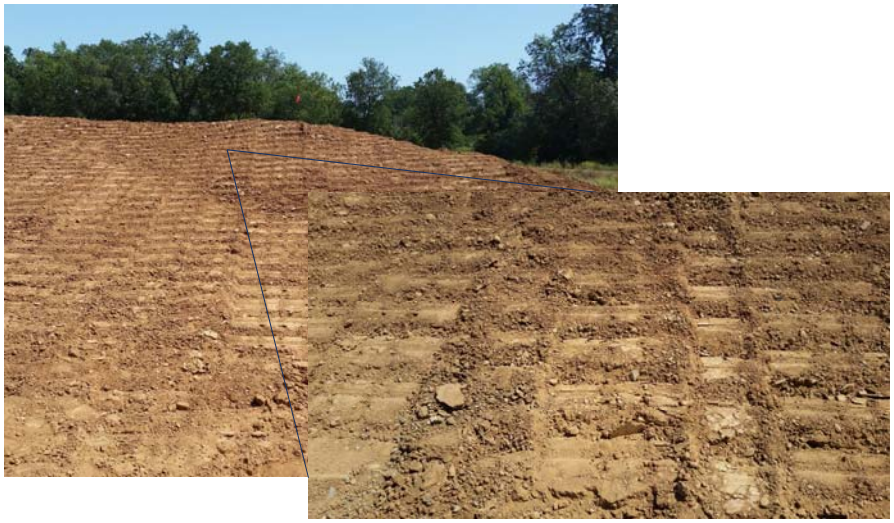
Erosion Control BMPs

Roughening Soil Slows Water and Creates Mini Slope Breaks



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Erosion Control BMPs

Track Walked Slope Treated with Hydromulch

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Erosion Control BMPs

Slope Treated with Hydromulch

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Erosion Control BMPs

Compost Blankets

- Pneumatic blower typically used to place compost
- Roughen surface before application
- 1-4-inches thick
- Seed can be incorporated
- Slopes 2:1 or gentler
  - Tackified on steeper slopes

Erosion Control BMPs

Preserve Vegetation

- Clear delineation
- Ideally 25+ feet from creek (or as required by local ordinance)
- Preserve existing vegetation in buffer
- Install before construction starts

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Erosion Control BMPs

Tree Protection

- Protect trees from construction
- Establish protective zone around drip line of tree

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Sediment Control BMPs

Sediment Control

- Practices that trap dirt particles – sediment – once they have been detached by rain, flowing water, or wind
  - Various practices to slow and detain water to allow sediment to settle
  - Treatment controls that remove soil from water or wind

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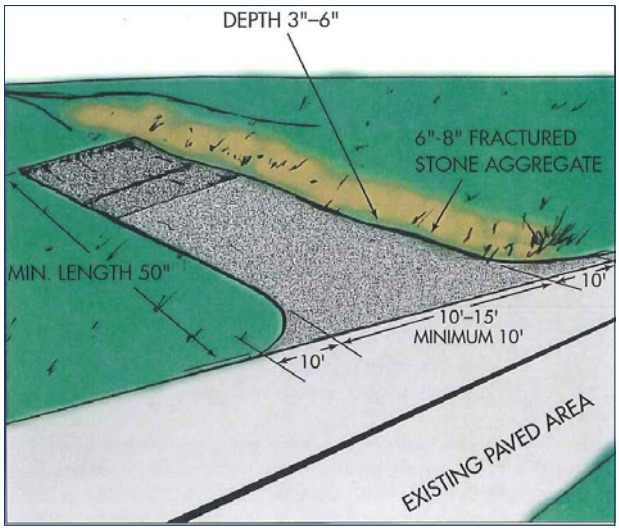
Sediment Control BMPs

Stabilized Entrance/Exit

- Rock pad underlain with a geotextile fabric
  - 10 feet wide – accommodate width of vehicles
  - 50 feet long – accommodate several wheel rotations
  - 3-inch to 8-inch rock (sources vary on rock size)
  - 6 to 12 inches deep layer of rocks
- Adaptations for smaller sites are challenging
  - Install maximum length site will allow
  - Install to allow two full rotations of tires of the typical vehicle on the entrance material
  - Augment with rumble racks

Sediment Control BMPs

Stabilized Entrance Design



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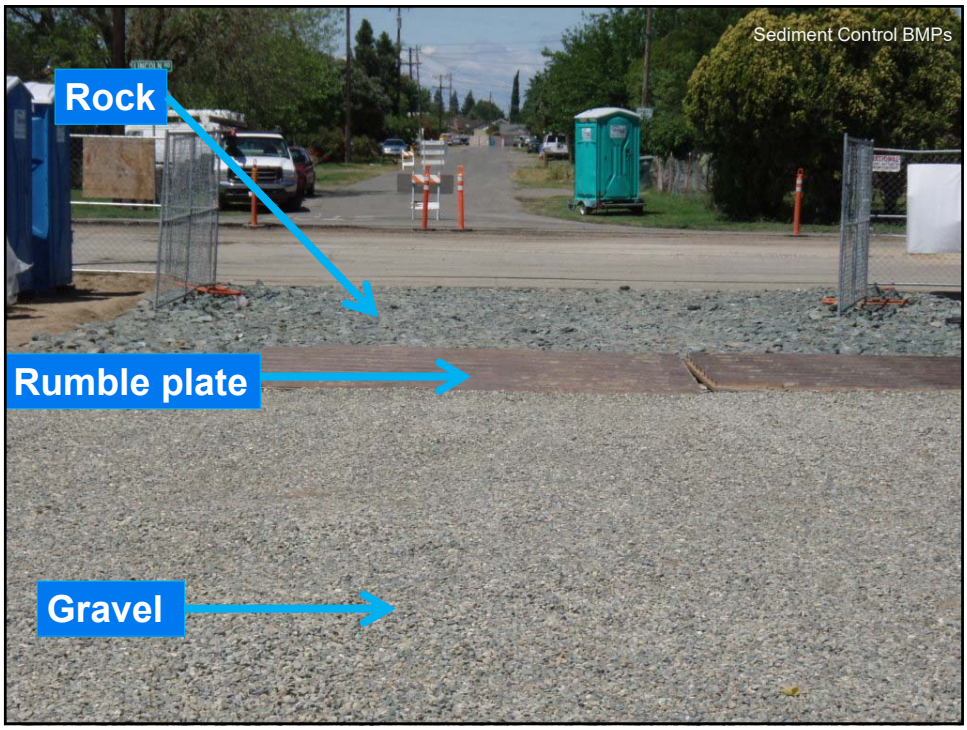
Sediment Control BMPs
Rumble plate
Rock


Sediment Control BMPs
Rock
Rumble plate
Gravel

Sediment Control BMPs

Fiber Rolls (Wattles) Type 1 Installation

- Install in shallow trench
- Stakes through wattle hold wattle to the soil

- Wattles with plastic nets must be removed.
- Use for temporary sediment control only!

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Sediment Control BMPs

Fiber Rolls (Wattles) Type 2 Installation

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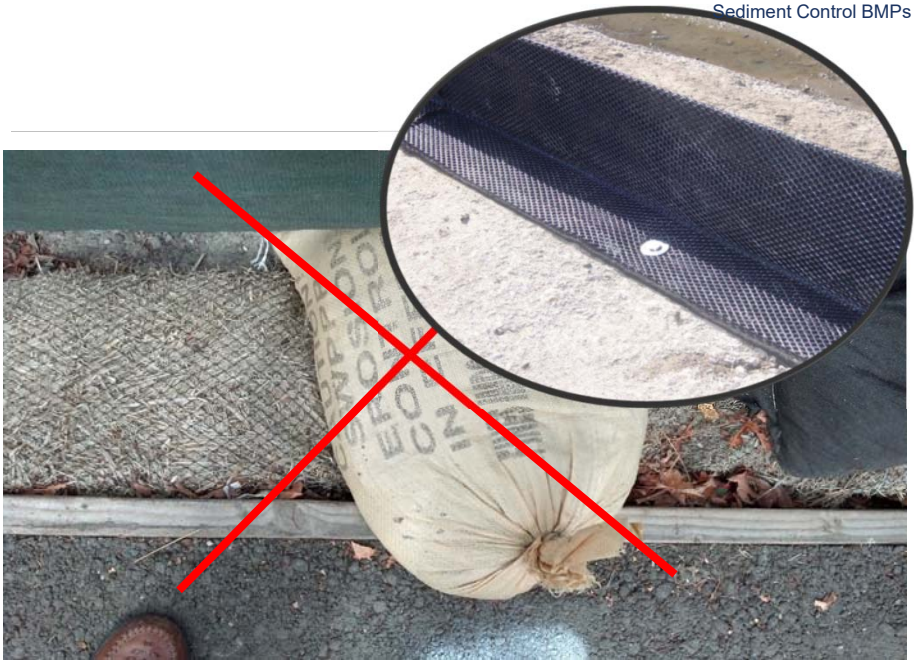
Sediment Control BMPs



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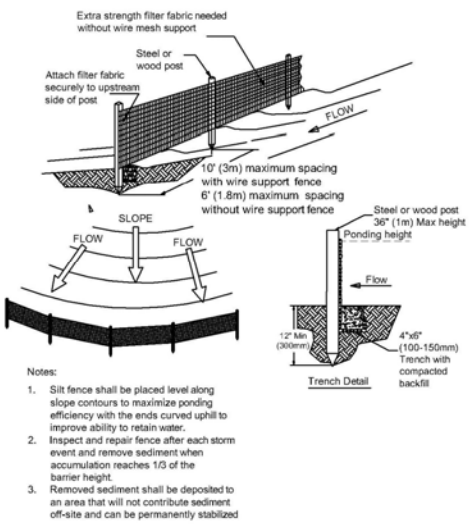
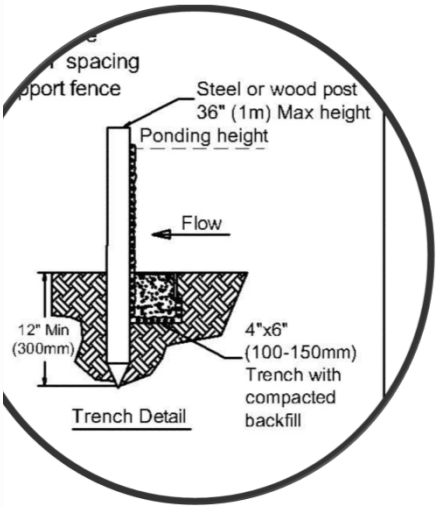
Sediment Control BMPs

Silt Fence – Pay Attention to the Trench





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Sediment Control BMPs

Tug Test

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Sediment Control BMPs

Drain Inlet Protection
Last Line of Defense

- Never use silt fence material to cover an inlet

- Protect drains on-site and immediately off-site
- Use woven geotextile bag
  - Resistant to photo degradation
- Fill bags with washed **gravel**
  - **NOT SAND**
  - **NOT DIRT**
  - **NOT ASPHALT**

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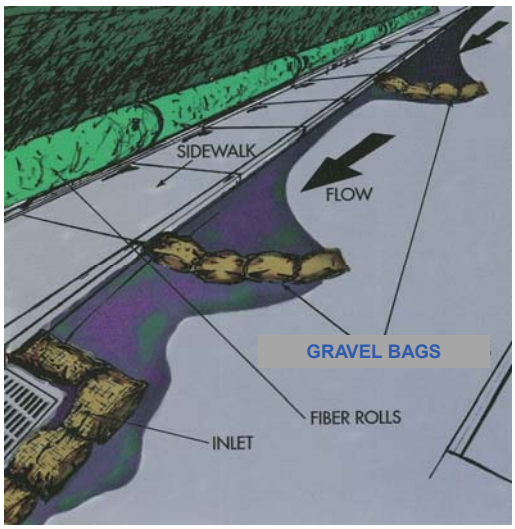
Sediment Control BMPs

Setting Up a Treatment Train to the Drain



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Sediment Control BMPs

Storm Drain Inlet Protection

J-hook check dam along the flow path

Protection at the drain

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Sediment Control BMPs

Dust Control

- Required for all sites with exposed soils
- Most common form of dust control is water spray
- Wind screens provide dust removal
- Erosion controls provide significant dust control
  - Mulch, soil binders, vegetation

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Sediment Control BMPs

Street Sweeping / Vacuuming Inspection Tips

- Look for evidence of daily street sweeping/vacuuming
  - Visual – is the road way clean? Is the sweeper present?
  - Records – are there logs/invoices for sweeper services?
- Kick brooms and sweeper attachments are not acceptable –
  - they spread dirt rather than removing it

Sediment Control BMPs

Active Treatment Systems

- System that uses chemical coagulation, chemical flocculation, or electro-coagulation to reduce turbidity
- Systems typically include basins or holding tanks, pumps, filtration units, and online monitoring systems

If ATS is used must meet the CGP ATS requirements (Attachment F of the CGP)

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Run-on/Runoff BMPs

Run-on and Runoff Controls

- Run-on Control
  - Manage/divert runoff and dry weather flows that originate outside the project
- Runoff Control
  - Manage runoff within the project
    - Prevent runoff from flowing through disturbed areas
    - Direct runoff to sediment controls

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Run-on/Runoff BMPs

Run-on/Runoff BMPs
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Good Housekeeping BMPs

Good Housekeeping

- Source control practices that minimize exposure of construction materials and waste to rain and wind

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Good Housekeeping BMPs

Stockpile Management

Good Housekeeping BMPs

Hazardous Materials and Petroleum Products

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Good Housekeeping BMPs

Sanitary Waste Management

- Manage sanitary wastes by providing convenient, appropriately placed, well-maintained facilities
- Arrange for regular service and disposal
  - Place on flat surface and secure units
  - Keep out of gutter and away from storm drains
  - Use secondary containment

Good Housekeeping BMPs

Equipment and Vehicle Servicing

- Avoid conducting maintenance at the job site
- When work on-site is necessary
  - Use drip pans, absorbent pads, and tarps to contain drips
  - Clean up small spills and drips immediately

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Good Housekeeping BMPs

Waste and Litter Management

Good Housekeeping BMPs

Non-Stormwater Management

- Practices that use water in a manner that prevents erosion and the transport of pollutants offsite
- Practices that prevent the discharge of unauthorized non-stormwater

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Good Housekeeping BMPs

Concrete Washout

Good Housekeeping BMPs

Copper is a Significant Water Quality Concern

- Copper is used in a variety of architectural features
  - During installation these features may be cleaned, treated (patinated), or washed
- Treatment solutions and rinse or wash water from copper features must be collected for proper disposal

Source: Wiki commons, http://www.rutlandguttersupply.com/copper-dome.asp

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Recapping the C.6 BMPs

1. Erosion Control
2. Run-on and Runoff Control
3. Sediment Control
4. Active Treatment Systems (as necessary)
5. Good Site Management
6. Non-stormwater Management
   - Architectural Copper

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CONTRA COSTA CLEAN WATER PROGRAM

INSPECTIONS, DOCUMENTATION, BEST PRACTICES AND TOOLS

Inspection Guidelines

Guidelines for Inspections

- Frequency
- Goals
- Preparation
- Site Visit
  - What to look for
  - Using the inspection checklist
- Documenting the inspection

Inspection Guidelines

Frequency

- Monthly inspections during the wet season for
  - Sites ≥ 1 acre (CGP sites), and
  - Hillside projects
  - High Priority sites

    Each agency defines their high priority sites
- Re-inspection for violations
- Many agencies inspect other sites based on local code or agency specific requirements

Wet season = October through April

Inspection Guidelines

Goals of Inspection

- Assess compliance with local ordinances
- Check adequacy and effectiveness of BMPs
- Require correction of problems
- Observe
  - Evidence of sediment discharges
  - Evidence of discharge of construction materials
  - Evidence of illicit connections/discharges
- Educate on stormwater pollution prevention

Inspection Guidelines

Preparation for Inspection

- Review existing information
  - Site Plan
  - SWPPP or Erosion Control Plan
  - Past Inspection Records
  - Locate site with mapping tools (e.g., GIS, Google Maps) to understand location in watershed
  - Check with other inspectors
  - Information in SMARTS on CGP sites
    - Annual Reports
    - Monitoring data (pH, turbidity)

Inspection Guidelines

Preparation for Inspection

- Gather equipment and tools
  - PPE – hard hat, safety glasses, safety shoes, vest
  - Identification
  - Copy of Site Map, plan, schedule
  - Inspection form blanks or field log
  - Camera
  - Enforcement documents
  - Brochures/info

Inspection Guidelines

At the Site Trailer

- Meet with Superintendent, Qualified SWPPP Practitioner (QSP) or their designee (if available)
- Outline requirements and expectations
- Review site plan and SWPPP
  - Confirm where they are in the schedule, what BMPs are in place, and what is planned
  - Review their inspection logs, sampling results
- Ask Superintendent and QSP (designee) to accompany you on the inspection
- Check on safety concerns

Inspection Guidelines

Conducting the Inspection

- Have a plan for the site walk to cover all your areas of interest
- Point out good and poor practices as you go
  - note violations
  - areas that could be improved
  - good practices
- Photograph notable and poor practices
- Conclude inspection by reviewing findings with the Superintendent and QSP (designee)
  - Note violations, time to correct, and enforcement

Inspection Guidelines

Documenting the Inspection

- Complete the inspection form
- Mirrors the MRP requirements
  - Facilitates reporting
  - Provide consistency across agencies
- Accounts for CGP requirements
  - Used for CIPs

Construction Site Inspection Report

Project Name:
Location
Permit No. Permit Type: ❑ Building ❑ Grading ❑ Site Development ❑ CIP Project
Project Type: ❑ Commercial/Industrial ❑ Residential ❑ Street Improvement ❑ Landscaping
Does the project disturb one acre or more? ❑Yes ❑No
Copy of NOI submitted? ❑Yes ❑No
SWPPP on site? ❑Yes ❑No Date on SWPPP:
Covered by Statewide Construction General Permit? ❑Yes ❑No
Erosion Control Plan on site? ❑Yes ❑No
Date on Erosion Control Plan:
High Priority Site? ❑Yes ❑No

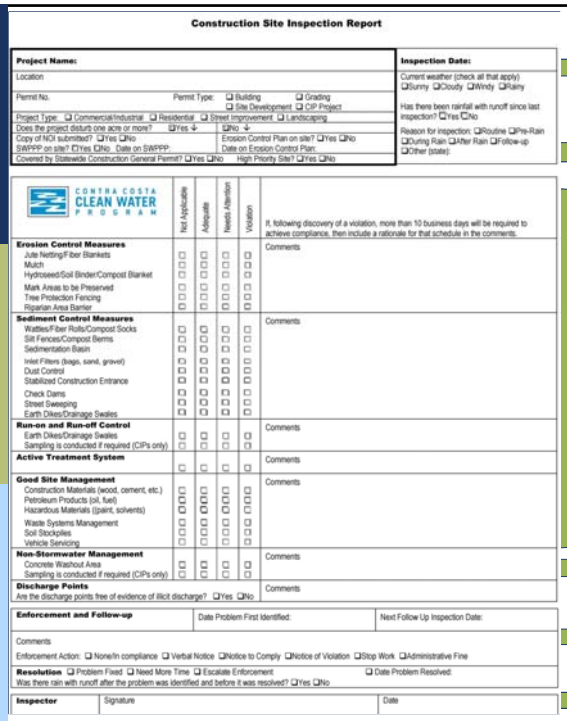
Inspection Date:
Current weather (check all that apply) ❑Sunny ❑Cloudy ❑Windy ❑Rainy
Has there been rainfall with runoff since last inspection? ❑Yes ❑No
Reason for inspection: ❑Routine ❑Pre-Rain ❑During Rain ❑After Rain ❑Follow-up ❑Other (state):

CONTRA COSTA CLEAN WATER PROGRAM

	Not Applicable	Adequate	Needs Attention	Violation	If, following discovery of a violation, more than 10 business days will be required to achieve compliance, then include a rationale for that schedule in the comments.
Erosion Control Measures					Comments
Jute Netting/Fiber Blankets	❑	❑	❑	❑	
Mulch	❑	❑	❑	❑	
Hydroseed/Soil Binder/Compost Blanket	❑	❑	❑	❑	
Mark Areas to be Preserved	❑	❑	❑	❑	
Tree Protection Fencing	❑	❑	❑	❑	
Riparian Area Barrier	❑	❑	❑	❑	
Sediment Control Measures					Comments
Wattles/Fiber Rolls/Compost Socks	❑	❑	❑	❑	
Silt Fences/Compost Berms	❑	❑	❑	❑	
Sedimentation Basin	❑	❑	❑	❑	
Inlet Filters (bags, sand, gravel)	❑	❑	❑	❑	
Dust Control	❑	❑	❑	❑	
Stabilized Construction Entrance	❑	❑	❑	❑	
Check Dams	❑	❑	❑	❑	
Street Sweeping	❑	❑	❑	❑	
Earth Dikes/Drainage Swales	❑	❑	❑	❑	
Run-on and Run-off Control					Comments
Earth Dikes/Drainage Swales	❑	❑	❑	❑	
Sampling is conducted if required (CIPs only)	❑	❑	❑	❑	
Active Treatment System	❑	❑	❑	❑	Comments
Good Site Management					Comments
Construction Materials (wood, cement, etc.)	❑	❑	❑	❑	
Petroleum Products (oil, fuel)	❑	❑	❑	❑	
Hazardous Materials (paint, solvents)	❑	❑	❑	❑	
Waste Systems Management	❑	❑	❑	❑	
Soil Stockpiles	❑	❑	❑	❑	
Vehicle Servicing	❑	❑	❑	❑	
Non-Stormwater Management					Comments
Concrete Washout Area	❑	❑	❑	❑	
Sampling is conducted if required (CIPs only)	❑	❑	❑	❑	
Discharge Points					Comments
Are the discharge points free of evidence of illicit discharge? ❑Yes ❑No					

Enforcement and Follow-up | Date Problem First Identified: | Next Follow Up Inspection Date:
Comments
Enforcement Action: ❑ None/In compliance ❑ Verbal Notice ❑Notice to Comply ❑Notice of Violation ❑Stop Work ❑Administrative Fine
Resolution ❑ Problem Fixed ❑ Need More Time ❑ Escalate Enforcement ❑ Date Problem Resolved:
Was there rain with runoff after the problem was identified and before it was resolved? ❑Yes ❑No
Inspector | Signature | Date

Inspection Guidelines



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SWPPP on site? ❑Yes ❑No Date on SWPPP: Date on Erosion Control Plan:
Covered by Statewide Construction General Permit? ❑Yes ❑No High Priority Site? ❑Yes ❑No

Inspection Date:
Current weather (check all that apply) ❑Sunny ❑Cloudy ❑Windy ❑Rainy
Has there been rainfall with runoff since last inspection? ❑Yes ❑No
Reason for inspection: ❑Routine ❑Pre-Rain ❑During Rain ❑After Rain ❑Follow-up ❑Other (state):

CONTRA COSTA CLEAN WATER PROGRAM

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Mark Areas to be Preserved	❑	❑	❑	❑	
Tree Protection Fencing	❑	❑	❑	❑	
Riparian Area Barrier	❑	❑	❑	❑	
Sediment Control Measures					Comments
Wattles/Fiber Rolls/Compost Socks	❑	❑	❑	❑	
Silt Fences/Compost Berms	❑	❑	❑	❑	
Sedimentation Basin	❑	❑	❑	❑	
Inlet Filters (bags, sand, gravel)	❑	❑	❑	❑	
Dust Control	❑	❑	❑	❑	
Stabilized Construction Entrance	❑	❑	❑	❑	
Check Dams	❑	❑	❑	❑	
Street Sweeping	❑	❑	❑	❑	
Earth Dikes/Drainage Swales	❑	❑	❑	❑	
Run-on and Run-off Control					Comments
Earth Dikes/Drainage Swales	❑	❑	❑	❑	
Sampling is conducted if required (CIPs only)	❑	❑	❑	❑	
Active Treatment System					Comments
	❑	❑	❑	❑	
Good Site Management					Comments
Construction Materials (wood, cement, etc.)	❑	❑	❑	❑	
Petroleum Products (oil, fuel)	❑	❑	❑	❑	
Hazardous Materials (paint, solvents)	❑	❑	❑	❑	
Waste Systems Management	❑	❑	❑	❑	
Soil Stockpiles	❑	❑	❑	❑	
Vehicle Servicing	❑	❑	❑	❑	
Non-Stormwater Management					Comments
Concrete Washout Area	❑	❑	❑	❑	
Sampling is conducted if required (CIPs only)	❑	❑	❑	❑	
Discharge Points					Comments
Are the discharge points free of evidence of illicit discharge? ❑Yes ❑No					

Enforcement and Follow-up | Date Problem First Identified: | Next Follow Up Inspection Date:
Comments
Enforcement Action: ❑ None/In compliance ❑ Verbal Notice ❑Notice to Comply ❑Notice of Violation ❑Stop Work ❑Administrative Fine
Resolution ❑ Problem Fixed ❑ Need More Time ❑ Escalate Enforcement ❑ Date Problem Resolved:
Was there rain with runoff after the problem was identified and before it was resolved? ❑Yes ❑No
Inspector | Signature | Date

Project Information

Inspection Day Information

BMP Observations

Illicit Discharge Observations

Follow-up Actions

Sign & Date Form

Inspection Guidelines

Document BMP Observations and Actual and Potential Illicit Discharges

- ☑ Not Applicable
- ☑ Adequate
- ☑ Needs Attention
- ☑ Violation
- ■ Comments
  - Document needed actions for BMPs identified as Needs Attention or Violations
  - For actual or potential discharges give a time-frame to correct
    - ❑ Before next rain event or 10 business days
    - ❑ If longer than 10 business days, provide justification

Inspection Guidelines

Use the Inspection Form to Document Enforcement

- Re-inspection
- Enforcement action taken
- Resolution

Enforcement and Follow-up	Date Problem First Identified:	Next Follow Up Inspection Date:
Comments Enforcement Action: ❑ None/In compliance ❑ Verbal Notice ❑Notice to Comply ❑Notice of Violation ❑Stop Work ❑Administrative Fine		
Resolution ❑ Problem Fixed ❑ Need More Time ❑ Escalate Enforcement ❑ Date Problem Resolved: Was there rain with runoff after the problem was identified and before it was resolved? ❑Yes ❑No		
Inspector	Signature	Date

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Inspection Guidelines

Documenting Enforcement

- For all situations documented as less than adequate on the inspection form
  - Take the appropriate level of enforcement
  - Failure to correct issues previously noted should result in escalated enforcement – moving up the enforcement tree
- Identify the timeframe for correcting the situation on the inspection form

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Inspection Guidelines

Inspection Results are Rolled-Up in the Annual Report

- Each agency needs to track all inspections and enforcement actions
- Information tracked is summarized and reported annually to the Regional Water Board
- Complete, accurate reports from inspectors are a key element of the annual report.

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